Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E26 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 E26 Sequence. The information in this summary is derived from the E26 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:

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     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)
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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 E26 data. It is also derived from the E26 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: E26AC_BNMRD4 Created: 01/14/00 Begin: 00-001/23:30:00 Finish: 00-051/04:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	0	1	23:29:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,325,838:09:0	
2	0	1	23:30:00.000	20A3EW	37A	Initial Condition	NIMS Power ON	4O0	4	0	5,325,838:09:1	
3	0	1	23:30:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	4O0	4	0	5,325,838:09:1	
4	0	1	23:30:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	4O0	4	0	5,325,838:09:1	
5	0	1	23:30:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	4O0	4	0	5,325,838:09:1	
6	0	1	23:30:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	4O0	4	0	5,325,838:09:1	
7	0	1	23:30:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	4O0	4	0	5,325,838:09:1	
8	0	1	23:30:00.000	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	4O0	4	0	5,325,838:09:1	
9	0	1	23:30:00.000	20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	4O0	4	0	5,325,838:09:1	
10	0	1	23:30:00.000	20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF	4O0	4	0	5,325,838:09:1	
11	0	1	23:30:53.266	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4O0	4	0	5,325,838:89:0	
12	0	1	23:30:53.933	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	5,325,838:90:0	
13	0	1	23:30:54.600	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	5,325,839:00:0	
14	0	1	23:30:54.600	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	4O0	4	0	5,325,839:00:0	
15	0	1	23:31:03.266	488AA6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,839:13:0	
16	0	2	00:01:53.933	488AA6B	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,869:59:0	
17	0	2	00:05:11.266	488AA6C	6TMSED	FILL,EL3	Sci, Eng, and D/L Chan	4O0	4	0	5,325,872:82:0	
18	0	2	00:15:51.266	488AA6D	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4O0	4	0	5,325,883:41:0	
19	0	2	02:04:01.933	488AA6E	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	5,325,990:40:0	
20	0	2	02:29:59.933	488AB6A	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	4O0	4	0	5,326,016:11:0	
21	0	2	02:59:03.933	465KA6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4O0	4	0	5,326,044:79:0	
22	0	2	02:59:03.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,326,044:79:0	
23	0	2	02:59:10.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,326,044:89:0	
24	0	2	02:59:12.000		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	5,326,045:00:1	
25	0	2	02:59:12.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	4O0	4	0	5,326,045:00:1	
26	0	2	03:00:12.600	465KA6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	5,326,046:00:0	
27	0	2	03:00:12.600		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC * 216.45 +/-	4O0	4	0	5,326,046:00:0	
28	0	2	03:00:13.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	4O0	4	0	5,326,046:01:8	
29	0	2	03:04:15.266		DMS:	: READY	RDY, TRACK *3, FWD, TIC 216.51 +/-	4O0	4	0	5,326,050:00:0	
30	0	2	03:04:15.266	465KB6A	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,326,050:00:0	
31	0	2	03:34:15.266	488AB6B	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4O0	4	0	5,326,079:61:0	
32	0	2	03:53:27.266	488AB6C	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4O0	4	0	5,326,098:60:0	
33	0	2	05:12:23.266	488AB6D	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	4O0	4	0	5,326,176:66:0	
34	0	2	05:31:03.933	20RM6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,195:18:0	
35	0	2	07:31:03.933	20RB6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,313:80:0	
36	0	2	09:31:03.866	20RN6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,432:51:0	
37	0	2	11:19:19.200	488AC6A	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4O0	4	0	5,326,539:57:0	
38	0	2	11:31:03.866	20RC6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,551:22:0	
39	0	2	12:02:29.866	20OA6A	6HICON			4O0	4	0	5,326,582:30:0	
40	0	2	12:40:23.200	488AC6B	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4O0	4	0	5,326,619:73:0	
41	0	2	13:31:03.866	20RO6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,669:84:0	
42	0	2	14:05:20.533	488AC6C	6TMSED	FILL,EH4	Sci, Eng, and D/L Chan	4O0	4	0	5,326,703:75:0	
43	0	2	14:38:59.200	488AC6D	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4O0	4	0	5,326,737:09:0	
44	0	2	15:31:03.866	20RD6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,788:55:0	
45	0	2	15:33:11.200	488AC6E	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4O0	4	0	5,326,790:64:0	
46	0	2	17:31:03.866	20RP6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,326,907:26:0	
47	0	2	19:31:03.866	20RE6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,025:88:0	
48	0	2	20:19:03.200	488AD6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	4O0	4	0	5,327,073:39:0	
49	0	2	21:31:03.866	20RQ6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,144:59:0	
50	0	2	21:45:35.200	488AD6B	6TMSED	FILL,EH4	Sci, Eng, and D/L Chan	4O0	4	0	5,327,159:01:0	
51	0	2	21:52:55.200	488AD6C	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	4O0	4	0	5,327,166:24:0	
52	0	2	22:27:14.533	488AD6D	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4O0	4	0	5,327,200:19:0	
53	0	3	00:01:03.866	20RF6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,293:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	0	3	01:31:03.866	20RR6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,382:01:0	
55	0	3	02:21:59.866	488AE6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,327,432:35:0	
56	0	3	03:29:59.200	488AE6B	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,327,499:57:0	
57	0	3	03:31:03.866	20RG6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,500:63:0	
58	0	3	04:50:23.200	488AE6C	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,327,579:13:0	
59	0	3	05:25:11.200	488AE6D	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,327,613:51:0	
60	0	3	05:31:03.866	20RS6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,619:34:0	
61	0	3	05:31:11.866	488AE6E	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,327,619:46:0	
62	0	3	07:31:03.866	20RH6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,738:05:0	
63	0	3	07:49:59.866	20TO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,327,756:71:0	
64	0	3	07:50:49.866	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,327,757:55:0	
65	0	3	07:50:55.866	20TO4E	7STAR	1,1610,278.815,3	Star catalog update	4O0	4	0	5,327,757:64:0	
66	0	3	07:50:57.866	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	4O0	4	0	5,327,757:67:0	
67	0	3	07:50:59.866	20TO4G	7STAR	3,1610,278.815,3	Star catalog update	4O0	4	0	5,327,757:70:0	
68	0	3	07:51:01.866	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	4O0	4	0	5,327,757:73:0	
69	0	3	07:51:03.866	20TO4I	7STAR	5,1610,278.815,3	Star catalog update	4O0	4	0	5,327,757:76:0	
70	0	3	07:51:05.866	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	4O0	4	0	5,327,757:79:0	
71	0	3	07:55:02.533	432OC431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,327,761:70:0	
72	0	3	07:55:03.200	432OC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,761:71:0	
73	0	3	08:59:59.866	481UA4A	7VECT		Inert vect update UTC	4O0	4	0	5,327,826:01:0	
74	0	3	09:31:03.866	20RT6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,856:67:0	
75	0	3	11:04:23.200	488AF6A	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,327,949:03:0	
76	0	3	11:31:03.866	20RI6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,327,975:38:0	
77	0	3	13:29:59.866	480SA6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4O0	4	0	5,328,093:04:0	
78	0	3	13:31:03.866	20RU6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,094:09:0	
79	0	3	13:36:39.866	480SA6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4O0	4	0	5,328,099:58:0	
80	0	3	13:55:25.200	488AF6B	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,328,118:17:0	
81	0	3	14:08:59.866	488AF6C	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4O0	4	0	5,328,131:56:0	
82	0	3	14:39:04.533	488AF6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	5,328,161:33:0	
83	0	3	15:11:51.200	488AF6E	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,193:71:0	
84	0	3	15:31:03.866	20RJ6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,212:71:0	
85	0	3	17:03:45.800	488AG6A	6TMSED	FILL,DL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,304:42:0	
86	0	3	17:29:24.466		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 216.51 +/-	4O0	4	0	5,328,329:75:0	
87	0	3	17:29:24.466	175TA422A6A	6DMSC	R7,3	DMS Control	4O0	4	0	5,328,329:75:0	
88	0	3	17:29:31.133		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 216.51 +/-	4O0	4	0	5,328,329:85:0	
89	0	3	17:29:32.466	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	5,328,329:87:0	
90	0	3	17:29:32.466	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	4O0	4	0	5,328,329:87:0	
91	0	3	17:29:32.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 216.63 +/-	4O0	4	0	5,328,329:87:1	
92	0	3	17:29:32.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 216.63 +/-	4O0	4	0	5,328,329:87:1	
93	0	3	17:29:35.133	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	5,328,330:00:0	
94	0	3	17:49:47.800	165JZ4A	7SCAN	NORM,79.566,33.2	Check S/P Position	4O0	4	0	5,328,349:90:0	
95	0	3	17:58:59.800	481UB4A	7VECT	BB2	Inert vect update UTC	4O0	4	0	5,328,359:08:0	
96	0	3	17:59:58.466	428JA6A	6RCCLR			4O0	4	0	5,328,360:05:0	
97	0	3	17:59:59.133	428JA6B	6RCSET	14		4O0	4	0	5,328,360:06:0	
98	0	3	18:01:31.800	165IA4A	7SCAN	NORM,121.898999,	Check S/P Position	4O0	4	0	5,328,361:54:0	
99	0	3	18:01:59.800	481UC4A	7VECT	BB2	Inert vect update UTC	4O0	4	0	5,328,362:05:0	
100	0	3	18:02:00.466	118IA	**SMOS**	GS		4O0	4	0	5,328,362:06:0	
101	0	3	18:02:17.800	175IA422A6A	6DMSC	R806,3	DMS Control	4O0	4	0	5,328,362:32:0	
102	0	3	18:02:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 677.24 +/-	4O0	4	0	5,328,362:32:0	
103	0	3	18:02:19.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC * 677.30 +/-	4O0	4	0	5,328,362:33:8	
104	0	3	18:02:21.133	165IA4B	7VECT		Inert vect update UTC	4O0	4	0	5,328,362:37:0	
105	0	3	18:02:23.800	175IA176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	5,328,362:41:0	
106	0	3	18:02:24.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 743.30 +/-	4O0	4	0	5,328,362:41:7	
107	0	3	18:02:24.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 743.30 +/-	4O0	4	0	5,328,362:41:7	
108	0	3	18:02:24.466	118IA110A111A4A	7STRP	0.0002,-0.007,26	Slew =,3.51	4O0	4	0	5,328,362:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	0	3	18:02:33.133	118IA11A	**SMOS**	GE		4O0	4	0	5,328,362:55:0
110	0	3	18:02:39.800	175TB422A6A	6DMSC	R7,3	DMS Control	4O0	4	0	5,328,362:65:0
111	0	3	18:02:39.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1125.56 +/-	4O0	4	0	5,328,362:65:0
112	0	3	18:02:42.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1137.06 +/-	4O0	4	0	5,328,362:69:1
113	0	3	18:02:43.800	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	5,328,362:71:0
114	0	3	18:02:43.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1137.18 +/-	4O0	4	0	5,328,362:71:2
115	0	3	18:02:43.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1137.18 +/-	4O0	4	0	5,328,362:71:2
116	0	3	18:06:02.466	428JC6A	6RCCLR			4O0	4	0	5,328,366:05:0
117	0	3	18:06:03.133	428JC6B	6RCSET	14		4O0	4	0	5,328,366:06:0
118	0	3	18:07:08.466	116IA4A	7STRP	-0.007,-0.086213	Slew =,14.9	4O0	4	0	5,328,367:13:0
119	0	3	18:07:55.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1210.27 +/-	4O0	4	0	5,328,367:84:0
120	0	3	18:07:55.800	175IB422A6A	6DMSC	R806,3	DMS Control	4O0	4	0	5,328,367:84:0
121	0	3	18:07:57.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1210.33 +/-	4O0	4	0	5,328,367:85:8
122	0	3	18:08:01.800	175IB176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	5,328,368:02:0
123	0	3	18:08:02.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1276.33 +/-	4O0	4	0	5,328,368:02:7
124	0	3	18:08:02.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1276.33 +/-	4O0	4	0	5,328,368:02:7
125	0	3	18:08:02.466	116IB4A	7STRP	0.0073,0.0019,0,	Slew =,3.71	4O0	4	0	5,328,368:03:0
126	0	3	18:08:11.133	116IC4A	7STRP	0.0071,0.0019,0,	Slew =0,3.6	4O0	4	0	5,328,368:16:0
127	0	3	18:08:13.133	428JD6A	6RCCLR			4O0	4	0	5,328,368:19:0
128	0	3	18:08:13.800	428JD6B	6RCSET	11		4O0	4	0	5,328,368:20:0
129	0	3	18:08:19.800	116ID4A	7STRP	0.0069,0.0019,0,	Slew =,3.51	4O0	4	0	5,328,368:29:0
130	0	3	18:08:35.133	175TC422A6A	6DMSC	R7,3	DMS Control	4O0	4	0	5,328,368:52:0
131	0	3	18:08:35.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2085.16 +/-	4O0	4	0	5,328,368:52:0
132	0	3	18:08:37.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2096.66 +/-	4O0	4	0	5,328,368:56:1
133	0	3	18:08:39.133	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	5,328,368:58:0
134	0	3	18:08:39.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2096.78 +/-	4O0	4	0	5,328,368:58:2
135	0	3	18:08:39.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2096.78 +/-	4O0	4	0	5,328,368:58:2
136	0	3	18:09:01.133	116JA4A	7STRP	-0.0035,-0.01780	Slew =0,3.3	4O0	4	0	5,328,369:00:0
137	0	3	18:12:06.466	428JE6A	6RCCLR			4O0	4	0	5,328,372:05:0
138	0	3	18:12:07.133	428JE6B	6RCSET	14		4O0	4	0	5,328,372:06:0
139	0	3	18:16:44.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2210.50 +/-	4O0	4	0	5,328,376:58:0
140	0	3	18:16:44.466	175IC422A6A	6DMSC	R806,3	DMS Control	4O0	4	0	5,328,376:58:0
141	0	3	18:16:45.666		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2210.56 +/-	4O0	4	0	5,328,376:59:8
142	0	3	18:16:50.466	175IC176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	5,328,376:67:0
143	0	3	18:16:50.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2276.56 +/- 1	4O0	4	0	5,328,376:67:7
144	0	3	18:16:50.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2276.56 +/-	4O0	4	0	5,328,376:67:7
145	0	3	18:16:51.133	116JB4A	7STRP	0.007,0.0015,0,0	Slew =0,3.3	4O0	4	0	5,328,376:68:0
146	0	3	18:16:58.466	428JF6A	6RCCLR			4O0	4	0	5,328,376:79:0
147	0	3	18:16:59.133	428JF6B	6RCSET	11		4O0	4	0	5,328,376:80:0
148	0	3	18:16:59.800	116JC4A	7STRP	0.0095,-0.0007,0	Slew =0,4.7	4O0	4	0	5,328,376:81:0
149	0	3	18:17:15.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2872.11 +/- 1	4O0	4	0	5,328,377:13:0
150	0	3	18:17:15.133	175TD422A6A	6DMSC	R7,3	DMS Control	4O0	4	0	5,328,377:13:0
151	0	3	18:17:17.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2883.61 +/- 1	4O0	4	0	5,328,377:17:1
152	0	3	18:17:19.133	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4O0	4	0	5,328,377:19:0
153	0	3	18:17:19.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2883.73 +/- 1	4O0	4	0	5,328,377:19:2
154	0	3	18:17:19.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2883.73 +/- 1	4O0	4	0	5,328,377:19:2
155	0	3	18:26:03.800	20RA6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,385:78:0
156	0	3	18:29:18.466	428JG6A	6RCCLR			4O0	4	0	5,328,389:06:0
157	0	3	18:30:13.133	432MB431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,328,389:88:0
158	0	3	18:30:13.800	432MB6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,389:89:0
159	0	3	18:30:17.133	175TD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	5,328,390:03:0
160	0	3	18:30:17.133	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,328,390:03:0
161	0	3	18:30:17.133		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3066.04 +/- 1	4O0	4	0	5,328,390:03:0
162	0	3	18:30:17.800	432OA6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,390:04:0
163	0	3	18:30:18.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3066.10 +/- 1	4O0	4	0	5,328,390:04:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	0	3	18:30:21.133	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	5,328,390:09:0	
165	0	3	18:31:09.800	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	5,328,390:82:0	
166	0	3	18:31:10.466	282NB432A6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,390:83:0	
167	0	3	19:03:32.466	488AG6B	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,422:84:0	
168	0	3	19:08:59.800	488AG6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,428:29:0	
169	0	3	19:59:59.800	481UD4A	7VECT		Inert vect update UTC	4O0	4	0	5,328,478:69:0	
170	0	3	21:29:27.133	488AG6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	4O0	4	0	5,328,567:21:0	
171	0	3	23:31:03.800	20RY6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,687:46:0	
172	0	3	23:50:15.133	488AH6A	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,706:44:0	
173	0	4	00:44:59.800	480SB6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4O0	4	0	5,328,760:57:0	
174	0	4	00:51:39.800	480SB6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4O0	4	0	5,328,767:20:0	
175	0	4	00:59:59.800	481UE4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	5,328,775:42:0	
176	0	4	01:03:12.466	488AH6B	6TMSED	FILL,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,778:58:0	
177	0	4	01:42:18.466	488AH6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	4O0	4	0	5,328,817:28:0	
178	0	4	02:43:09.800	165ID4A	7SCAN	NORM,337.776997,	Check S/P Position	4O0	4	0	5,328,877:45:0	
179	0	4	02:46:32.466		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3066.10 +/- 1	4O0	4	0	5,328,880:76:0	
180	0	4	02:46:32.466	175ID422A6A	6DMSC	R806,3	DMS Control	4O0	4	0	5,328,880:76:0	
181	0	4	02:46:39.133		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 3066.10 +/- 1	4O0	4	0	5,328,880:86:0	
182	0	4	02:46:41.133	165ID4B	7VECT		Inert vect update UTC	4O0	4	0	5,328,880:89:0	
183	0	4	02:46:43.800	175ID176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	5,328,881:02:0	
184	0	4	02:46:44.400		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3132.10 +/- 1	4O0	4	0	5,328,881:02:9	
185	0	4	02:46:44.400		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3132.10 +/- 1	4O0	4	0	5,328,881:02:9	
186	0	4	02:46:47.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3215.77 +/- 1	4O0	4	0	5,328,881:08:0	
187	0	4	02:46:47.800	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	5,328,881:08:0	
188	0	4	02:46:50.533		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3227.27 +/- 1	4O0	4	0	5,328,881:12:1	
189	0	4	02:47:12.466	165IE4A	7SCAN	NORM,338.037998,	Check S/P Position	4O0	4	0	5,328,881:45:0	
190	0	4	02:49:34.466	175IE422A6A	6DMSC	R806,3	DMS Control	4O0	4	0	5,328,883:76:0	
191	0	4	02:49:34.466		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3227.27 +/- 1	4O0	4	0	5,328,883:76:0	
192	0	4	02:49:41.133		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 3227.27 +/- 1	4O0	4	0	5,328,883:86:0	
193	0	4	02:49:43.133	165IE4B	7VECT		Inert vect update UTC	4O0	4	0	5,328,883:89:0	
194	0	4	02:49:45.800	175IE176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	5,328,884:02:0	
195	0	4	02:49:46.400		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3293.27 +/- 2	4O0	4	0	5,328,884:02:9	
196	0	4	02:49:46.400		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3293.27 +/- 1	4O0	4	0	5,328,884:02:9	
197	0	4	02:49:49.800	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	5,328,884:08:0	
198	0	4	02:49:49.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3376.94 +/- 2	4O0	4	0	5,328,884:08:0	
199	0	4	02:49:52.533		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3388.44 +/- 2	4O0	4	0	5,328,884:12:1	
200	0	4	03:07:25.800	165IF4A	7SCAN	NORM,342.807999,	Check S/P Position	4O0	4	0	5,328,901:45:0	
201	0	4	03:10:48.466		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3388.44 +/- 2	4O0	4	0	5,328,904:76:0	
202	0	4	03:10:48.466	175IF422A6A	6DMSC	R806,3	DMS Control	4O0	4	0	5,328,904:76:0	
203	0	4	03:10:55.133		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 3388.44 +/- 2	4O0	4	0	5,328,904:86:0	
204	0	4	03:10:57.133	165IF4B	7VECT		Inert vect update UTC	4O0	4	0	5,328,904:89:0	
205	0	4	03:10:59.800	175IF176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	5,328,905:02:0	
206	0	4	03:11:00.400		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3454.44 +/- 2	4O0	4	0	5,328,905:02:9	
207	0	4	03:11:00.400		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3454.44 +/- 2	4O0	4	0	5,328,905:02:9	
208	0	4	03:11:03.800	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	5,328,905:08:0	
209	0	4	03:11:03.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3538.12 +/- 2	4O0	4	0	5,328,905:08:0	
210	0	4	03:11:06.533		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3549.62 +/- 2	4O0	4	0	5,328,905:12:1	
211	0	4	03:31:03.800	20RZ6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,328,924:79:0	
212	0	4	05:25:11.133	488AH6D	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	5,329,037:67:0	
213	0	4	06:29:59.800	480SC6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	4O0	4	0	5,329,101:76:0	
214	0	4	06:36:39.800	480SC6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	4O0	4	0	5,329,108:39:0	
215	0	4	06:49:35.800	488AI6A	6TMSED	FILL,EL6	Sci, Eng, and D/L Chan	4O0	4	0	5,329,121:20:0	
216	0	4	07:16:25.133	488AI6B	6TMSED	NORM,EL6	Sci, Eng, and D/L Chan	4O0	4	0	5,329,147:68:0	
217	**0**	**4**	**10:44:01.133**	**26NNDETECT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
218	**0**	**4**	**10:44:02.466**	**20FB5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,329,353:08:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	0	4	10:44:04.466	20FB5B	37MRL		Memory Realocate (software operates from R		4	0	5,329,353:11:0	
220	0	4	10:44:07.800	20FB6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,329,353:16:0	
221	0	4	10:44:17.800	20FB6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,329,353:31:0	
222	0	4	10:44:31.133	20FB5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,329,353:51:0	
223	0	4	10:44:37.800	20FB5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,329,353:61:0	
224	0	4	10:45:51.133	20FB4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,329,354:80:0	
225	0	4	10:46:51.800	20FB4B	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	5,329,355:80:0	
226	0	4	10:47:53.133	20FB4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	5,329,356:81:0	
227	0	4	10:48:53.133	20FB4D	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,329,357:80:0	
228	0	4	10:48:53.800	20FB4E	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,329,357:81:0	
229	0	4	10:49:04.466	26NNDETECT02-		-----START------		2R3	4	0	: :	
230	0	4	10:50:01.133	26NNDETECT01-		-----STOP-------		2R3	4	0	: :	
231	0	4	10:50:05.133	20FG6A	6MCOPY	B1A1A,68EF,NIMS,	B1A1A,68EF,NIMS,150F,1517	2R3	4	0	5,329,359:06:0	
232	0	4	10:50:13.800	20FG6B	6MCOPY	B1A1A,68F8,NIMS,	B1A1A,68F8,NIMS,150F,1517	2R3	4	0	5,329,359:19:0	
233	0	4	10:51:06.466	20FG6C	6MCOPY	B1A1A,6901,NIMS,	B1A1A,6901,NIMS,150F,1517	2R3	4	0	5,329,360:07:0	
234	0	4	10:51:15.133	20FG6D	6MCOPY	B1A1A,690A,NIMS,	B1A1A,690A,NIMS,150F,1517	2R3	4	0	5,329,360:20:0	
235	0	4	10:52:07.800	20FG6E	6MCOPY	B1A1A,6913,NIMS,	B1A1A,6913,NIMS,150F,1517	2R3	4	0	5,329,361:08:0	
236	0	4	10:52:16.466	20FG6F	6MCOPY	B1A1A,691C,NIMS,	B1A1A,691C,NIMS,150F,1517	2R3	4	0	5,329,361:21:0	
237	0	4	10:53:09.133	20FG6G	6MCOPY	B1A1A,6925,NIMS,	B1A1A,6925,NIMS,150F,1517	2R3	4	0	5,329,362:09:0	
238	0	4	10:53:17.800	20FG6H	6MCOPY	B1A1A,692E,NIMS,	B1A1A,692E,NIMS,150F,1517	2R3	4	0	5,329,362:22:0	
239	0	4	10:54:10.466	20FG6I	6MCOPY	B1A1A,6937,NIMS,	B1A1A,6937,NIMS,150F,1517	2R3	4	0	5,329,363:10:0	
240	0	4	10:54:19.133	20FG6J	6MCOPY	B1A1A,6940,NIMS,	B1A1A,6940,NIMS,150F,1517	2R3	4	0	5,329,363:23:0	
241	0	4	10:55:11.800	20FG6K	6MCOPY	B1A1A,6949,NIMS,	B1A1A,6949,NIMS,150F,1517	2R3	4	0	5,329,364:11:0	
242	0	4	10:55:20.466	20FG6L	6MCOPY	B1A1A,6952,NIMS,	B1A1A,6952,NIMS,150F,1517	2R3	4	0	5,329,364:24:0	
243	0	4	10:56:13.133	20FG6M	6MCOPY	B1A1A,695B,NIMS,	B1A1A,695B,NIMS,150F,1517	2R3	4	0	5,329,365:12:0	
244	0	4	10:56:21.800	20FG6N	6MCOPY	B1A1A,6964,NIMS,	B1A1A,6964,NIMS,150F,1517	2R3	4	0	5,329,365:25:0	
245	0	4	10:57:14.466	20FG6O	6MCOPY	B1A1A,696D,NIMS,	B1A1A,696D,NIMS,150F,1517	2R3	4	0	5,329,366:13:0	
246	0	4	10:57:23.133	20FG6P	6MCOPY	B1A1A,6976,NIMS,	B1A1A,6976,NIMS,150F,1517	2R3	4	0	5,329,366:26:0	
247	0	4	10:58:15.800	20FG6Q	6MCOPY	B1A1A,697F,NIMS,	B1A1A,697F,NIMS,150F,1517	2R3	4	0	5,329,367:14:0	
248	0	4	10:58:24.466	20FG6R	6MCOPY	B1A1A,6988,NIMS,	B1A1A,6988,NIMS,150F,1517	2R3	4	0	5,329,367:27:0	
249	0	4	10:59:17.133	20FG6S	6MCOPY	B1A1A,6991,NIMS,	B1A1A,6991,NIMS,150F,1517	2R3	4	0	5,329,368:15:0	
250	0	4	10:59:25.800	20FG6T	6MCOPY	B1A1A,699A,NIMS,	B1A1A,699A,NIMS,150F,1517	2R3	4	0	5,329,368:28:0	
251	0	4	11:00:18.466	20FG6U	6MCOPY	B1A1A,69A3,NIMS,	B1A1A,69A3,NIMS,150F,1517	2R3	4	0	5,329,369:16:0	
252	0	4	11:00:27.133	20FG6V	6MCOPY	B1A1A,69AC,NIMS,	B1A1A,69AC,NIMS,150F,1517	2R3	4	0	5,329,369:29:0	
253	0	4	11:01:19.800	20FG6W	6MCOPY	B1A1A,69B5,NIMS,	B1A1A,69B5,NIMS,150F,1517	2R3	4	0	5,329,370:17:0	
254	0	4	11:01:28.466	20FG6X	6MCOPY	B1A1A,69BE,NIMS,	B1A1A,69BE,NIMS,150F,1517	2R3	4	0	5,329,370:30:0	
255	0	4	11:02:21.133	20FG6Y	6MCOPY	B1A1A,69C7,NIMS,	B1A1A,69C7,NIMS,150F,1517	2R3	4	0	5,329,371:18:0	
256	0	4	11:02:29.800	20FG6Z	6MCOPY	B1A1A,69D0,NIMS,	B1A1A,69D0,NIMS,150F,151C	2R3	4	0	5,329,371:31:0	
257	0	4	11:08:39.133	488AI6C	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,329,377:39:0	
258	0	4	11:14:15.800	26INHSLOKI01-		-----START------		2R3	4	0	: :	
259	0	4	11:14:16.466	165DA4A	7SCAN	NORM,7.5,3.456,1	Check S/P Position	2R3	4	0	5,329,382:90:0	
260	0	4	11:15:21.800	26NNHSLOKI01-		-----START------		2R3	4	0	: :	
261	0	4	11:15:25.133	20DA5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,329,384:11:0	
262	0	4	11:15:26.466	20DA5B	37MRL		Memory Realocate (software operates from R		4	0	5,329,384:13:0	
263	0	4	11:15:35.133	20DA6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,329,384:26:0	
264	0	4	11:15:45.133	20DA6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,329,384:41:0	
265	0	4	11:15:55.133	20DA5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,329,384:56:0	
266	0	4	11:15:58.466	20DA5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,329,384:61:0	
267	0	4	11:16:11.133	20DA4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,329,384:80:0	
268	0	4	11:17:11.800	20DA4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,329,385:80:0	
269	0	4	11:17:12.466	20DA4C	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,329,385:81:0	
270	0	4	11:18:06.466		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3549.62 +/- 2	2R3	4	0	5,329,386:71:0	
271	0	4	11:18:06.466	175DA422A6A	6DMSC	R28,3	DMS Control	2R3	4	0	5,329,386:71:0	
272	0	4	11:18:10.466	117DA	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	5,329,386:77:0	
273	0	4	11:18:13.133		DMS:	: *RUNUP	R28, TRACK *3, FWD, TIC 3549.62 +/- 2	2R3	4	0	5,329,386:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	0	4	11:18:16.466	175DA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,329,386:86:0	
275	**0**	**4**	**11:18:17.133**	**26INHSLOKI01-**	**NIMPBK**	**301DA**	**IO LOKI OBSERVATION**	**2R3**	**4**	**0**	**: :**	
276	0	4	11:18:17.133		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 3551.12 +/- 2	2R3	4	0	5,329,386:87:0	
277	0	4	11:18:17.133		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *3551.12 +/- 2	2R3	4	0	5,329,386:87:0	
278	0	4	11:18:18.466	165DA4B	7VECT		Inert vect update UTC	2R3	4	0	5,329,386:89:0	
279	0	4	11:18:19.800	117DA105A106A4A	**7STRP**	**-0.014301,0.0,0,**	**Slew =,0.03**	2R3	4	0	5,329,387:00:0	
280	**0**	**4**	**11:18:21.800**	**26NNHSLOKI01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
281	**0**	**4**	**11:21:35.133**	**26INHSLOKI01-**	**NIMPBK**	**301DB**	**IO LOKI OBSERVATION**	**2R3**	**4**	**0**	**: :**	
282	**0**	**4**	**11:21:43.800**	**26INHSLOKI01-**	**DESELC**	**300DA**	**IO LOKI OBSERVATION**	**2R3**	**4**	**0**	**: :**	
283	**0**	**4**	**11:24:56.466**	**26INHSLOKI01-**	**DESELC**	**300DB**	**IO LOKI OBSERVATION**	**2R3**	**4**	**0**	**: :**	
284	0	4	11:24:57.133	175DA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,329,393:50:0	
285	0	4	11:24:57.133		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *3902.68 +/- 2	2R3	4	0	5,329,393:50:0	
286	0	4	11:24:58.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *3902.98 +/- 2	2R3	4	0	5,329,393:51:8	
287	**0**	**4**	**11:26:21.800**	**26INHSLOKI01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
288	0	4	11:26:21.800	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,329,394:86:0	
289	0	4	11:28:02.466	165IG4A	7SCAN	NORM,8.784,4.265	Check S/P Position	2R3	4	0	5,329,396:55:0	
290	0	4	11:30:17.800		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 3902.98 +/- 2	2R3	4	0	5,329,398:76:0	
291	0	4	11:30:17.800	175IG422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,329,398:76:0	
292	0	4	11:30:24.466		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 3902.98 +/- 2	2R3	4	0	5,329,398:86:0	
293	0	4	11:30:26.466	165IG4B	7VECT		Inert vect update UTC	2R3	4	0	5,329,398:89:0	
294	0	4	11:30:29.133	175IG176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,329,399:02:0	
295	0	4	11:30:29.733		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3968.98 +/- 3	2R3	4	0	5,329,399:02:9	
296	0	4	11:30:29.733		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3968.98 +/- 2	2R3	4	0	5,329,399:02:9	
297	0	4	11:31:11.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4987.81 +/- 3	2R3	4	0	5,329,399:65:0	
298	0	4	11:31:11.133	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,329,399:65:0	
299	0	4	11:31:13.866		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *4999.31 +/- 3	2R3	4	0	5,329,399:69:1	
300	**0**	**4**	**11:39:37.800**	**26NNDETECT03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
301	**0**	**4**	**11:39:41.133**	**20FC5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,329,408:11:0**	
302	**0**	**4**	**11:39:43.133**	**20FC5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,329,408:14:0**	
303	**0**	**4**	**11:39:47.800**	**20FC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,329,408:21:0**	
304	**0**	**4**	**11:39:57.800**	**20FC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,329,408:36:0**	
305	**0**	**4**	**11:40:07.800**	**20FC5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,329,408:51:0**	
306	**0**	**4**	**11:40:14.466**	**20FC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,329,408:61:0**	
307	**0**	**4**	**11:40:27.133**	**20FC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,329,408:80:0**	
308	**0**	**4**	**11:41:27.800**	**20FC4B**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**5,329,409:80:0**	
309	**0**	**4**	**11:42:28.466**	**20FC4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**5,329,410:80:0**	
310	**0**	**4**	**11:43:29.133**	**20FC4D**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,329,411:80:0**	
311	**0**	**4**	**11:43:29.800**	**20FC4E**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,329,411:81:0**	
312	**0**	**4**	**11:43:37.800**	**26NNDETECT03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
313	**0**	**4**	**11:44:41.133**	**26NNDETECT04-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
314	**0**	**4**	**11:45:41.800**	**20FH6A**	**6MCOPY**	**B1A1A,69DE,NIMS,**	**B1A1A,69DE,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,414:06:0**	
315	**0**	**4**	**11:45:50.466**	**20FH6B**	**6MCOPY**	**B1A1A,69E7,NIMS,**	**B1A1A,69E7,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,414:19:0**	
316	**0**	**4**	**11:46:43.133**	**20FH6C**	**6MCOPY**	**B1A1A,69F0,NIMS,**	**B1A1A,69F0,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,415:07:0**	
317	**0**	**4**	**11:46:51.800**	**20FH6D**	**6MCOPY**	**B1A1A,69F9,NIMS,**	**B1A1A,69F9,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,415:20:0**	
318	**0**	**4**	**11:47:44.466**	**20FH6E**	**6MCOPY**	**B1A1A,6A02,NIMS,**	**B1A1A,6A02,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,416:08:0**	
319	**0**	**4**	**11:47:53.133**	**20FH6F**	**6MCOPY**	**B1A1A,6A0B,NIMS,**	**B1A1A,6A0B,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,416:21:0**	
320	**0**	**4**	**11:48:45.800**	**20FH6G**	**6MCOPY**	**B1A1A,6A14,NIMS,**	**B1A1A,6A14,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,417:09:0**	
321	**0**	**4**	**11:48:54.466**	**20FH6H**	**6MCOPY**	**B1A1A,6A1D,NIMS,**	**B1A1A,6A1D,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,417:22:0**	
322	**0**	**4**	**11:49:47.133**	**20FH6I**	**6MCOPY**	**B1A1A,6A26,NIMS,**	**B1A1A,6A26,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,418:10:0**	
323	**0**	**4**	**11:49:55.800**	**20FH6J**	**6MCOPY**	**B1A1A,6A2F,NIMS,**	**B1A1A,6A2F,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,418:23:0**	
324	0	4	11:50:05.133	20KC4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R3	4	0	5,329,418:37:0	
325	**0**	**4**	**11:50:48.466**	**20FH6K**	**6MCOPY**	**B1A1A,6A38,NIMS,**	**B1A1A,6A38,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,419:11:0**	
326	**0**	**4**	**11:50:57.133**	**20FH6L**	**6MCOPY**	**B1A1A,6A41,NIMS,**	**B1A1A,6A41,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,419:24:0**	
327	**0**	**4**	**11:51:49.800**	**20FH6M**	**6MCOPY**	**B1A1A,6A4A,NIMS,**	**B1A1A,6A4A,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,420:12:0**	
328	**0**	**4**	**11:51:58.466**	**20FH6N**	**6MCOPY**	**B1A1A,6A53,NIMS,**	**B1A1A,6A53,NIMS,150F,1517**	**2R3**	**4**	**0**	**5,329,420:25:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	0	4	11:52:51.133	20FH6O	6MCOPY	B1A1A,6A5C,NIMS,	B1A1A,6A5C,NIMS,150F,1517	2R3	4	0	5,329,421:13:0	
330	0	4	11:52:59.800	20FH6P	6MCOPY	B1A1A,6A65,NIMS,	B1A1A,6A65,NIMS,150F,1517	2R3	4	0	5,329,421:26:0	
331	0	4	11:53:52.466	20FH6Q	6MCOPY	B1A1A,6A6E,NIMS,	B1A1A,6A6E,NIMS,150F,1517	2R3	4	0	5,329,422:14:0	
332	0	4	11:54:01.133	20FH6R	6MCOPY	B1A1A,6A77,NIMS,	B1A1A,6A77,NIMS,150F,1517	2R3	4	0	5,329,422:27:0	
333	0	4	11:54:53.800	20FH6S	6MCOPY	B1A1A,6A80,NIMS,	B1A1A,6A80,NIMS,150F,1517	2R3	4	0	5,329,423:15:0	
334	0	4	11:55:02.466	20FH6T	6MCOPY	B1A1A,6A89,NIMS,	B1A1A,6A89,NIMS,150F,1517	2R3	4	0	5,329,423:28:0	
335	0	4	11:55:55.133	20FH6U	6MCOPY	B1A1A,6A92,NIMS,	B1A1A,6A92,NIMS,150F,1517	2R3	4	0	5,329,424:16:0	
336	0	4	11:56:03.800	20FH6V	6MCOPY	B1A1A,6A9B,NIMS,	B1A1A,6A9B,NIMS,150F,1517	2R3	4	0	5,329,424:29:0	
337	0	4	11:56:56.466	20FH6W	6MCOPY	B1A1A,6AA4,NIMS,	B1A1A,6AA4,NIMS,150F,1517	2R3	4	0	5,329,425:17:0	
338	0	4	11:57:05.133	20FH6X	6MCOPY	B1A1A,6AAD,NIMS,	B1A1A,6AAD,NIMS,150F,1517	2R3	4	0	5,329,425:30:0	
339	0	4	11:57:57.800	20FH6Y	6MCOPY	B1A1A,6AB6,NIMS,	B1A1A,6AB6,NIMS,150F,1517	2R3	4	0	5,329,426:18:0	
340	0	4	11:58:06.466	20FH6Z	6MCOPY	B1A1A,6ABF,NIMS,	B1A1A,6ABF,NIMS,150F,151C	2R3	4	0	5,329,426:31:0	
341	0	4	11:58:50.466	26NNDETECT04-		-----STOP-------		2R3	4	0	: :	
342	0	4	11:59:41.133	26NNDETECT02-		-----STOP-------		2R3	4	0	: :	
343	0	4	12:04:59.800	480SD6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,329,433:14:0	
344	0	4	12:11:39.800	480SD6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,329,439:68:0	
345	0	4	12:29:43.133	488AI6D	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	5,329,457:55:0	
346	0	4	12:46:29.800	488AI6E	6TMSED	FILL,EL4	Sci, Eng, and D/L Chan	2R3	4	0	5,329,474:18:0	
347	0	4	12:48:23.133	488AJ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,329,476:06:0	
348	0	4	12:48:55.133	488AJ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	5,329,476:54:0	
349	0	4	12:59:35.133	488AJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,329,487:13:0	
350	0	4	18:43:21.133	20MC6A	6CKSUM	MAG,4040,46F0		2R3	4	0	5,329,827:12:0	
351	0	4	19:56:01.133		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 4999.31 +/- 3	2R3	4	0	5,329,899:00:0	
352	0	4	19:56:01.133	411JA6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,329,899:00:0	
353	0	4	19:56:07.800		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 4999.31 +/- 3	2R3	4	0	5,329,899:10:0	
354	0	4	19:56:09.200		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4999.43 +/- 3	2R3	4	0	5,329,899:12:1	
355	0	4	19:56:09.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4999.43 +/- 3	2R3	4	0	5,329,899:12:1	
356	0	4	19:56:11.133	411JA6B	6TMREC	**BDT**	7.68 KBPS BUFFER DUMP TO TAPE Record Mode	2R3	4	0	5,329,899:15:0	
357	0	4	19:58:12.466	411JA6C	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	5,329,901:15:0	
358	0	4	19:58:13.133	411JA6D	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,329,901:16:0	
359	0	4	19:58:13.133		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5028.47 +/- 3	2R3	4	0	5,329,901:16:0	
360	0	4	19:58:14.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5028.53 +/- 3	2R3	4	0	5,329,901:17:8	
361	0	4	20:05:05.133		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 5028.53 +/- 3	2R3	4	0	5,329,907:88:0	
362	0	4	20:05:05.133	175KA422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,329,907:88:0	
363	0	4	20:05:11.800		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 5028.53 +/- 3	2R3	4	0	5,329,908:07:0	
364	0	4	20:05:13.133	175KA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,329,908:09:0	
365	0	4	20:05:13.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5028.65 +/- 3	2R3	4	0	5,329,908:09:1	
366	0	4	20:05:13.200		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5028.65 +/- 3	2R3	4	0	5,329,908:09:1	
367	0	4	20:05:36.466	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,329,908:44:0	
368	0	4	20:05:36.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5034.11 +/- 3	2R3	4	0	5,329,908:44:0	
369	0	4	20:05:37.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5034.17 +/- 3	2R3	4	0	5,329,908:45:8	
370	0	4	20:15:13.800	465KC6A	6DMSC	RDY,1	DMS Control Tape stop	2R3	4	0	5,329,918:00:0	
371	0	4	20:15:13.800		DMS:	: READY	RDY, TRACK *1, FWD, TIC 5034.17 +/- 3	2R3	4	0	5,329,918:00:0	
372	0	5	01:57:58.400	432JB6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	2R3	4	0	5,330,256:89:0	
373	0	5	04:16:27.733	488AK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,330,393:86:0	
374	0	5	04:36:07.066	488AK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,330,413:35:0	
375	0	5	05:33:20.400	488AK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,330,469:89:0	
376	0	5	06:02:26.400	488AK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,330,498:69:0	
377	0	5	09:15:32.400	488AK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,330,689:67:0	
378	0	5	16:54:35.733	488AL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,331,143:68:0	
379	0	5	17:29:59.733	20TS4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,331,178:69:0	
380	0	5	17:30:49.733	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,331,179:53:0	
381	0	5	17:30:57.733	20TS4F	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,331,179:65:0	
382	0	5	17:30:59.733	20TS4G	7STAR	2,317,120.456,-3	Star catalog update	2R3	4	0	5,331,179:68:0	
383	0	5	17:31:01.733	20TS4H	7STAR	3,133,165.161,62	Star catalog update	2R3	4	0	5,331,179:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	0	5	17:31:03.733	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R3	4	0	5,331,179:74:0
385	0	5	17:31:05.733	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R3	4	0	5,331,179:77:0
386	0	5	17:31:07.733	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R3	4	0	5,331,179:80:0
387	0	5	18:13:25.733	488AL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,331,221:65:0
388	0	5	18:42:31.733	488AL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,331,250:45:0
389	0	5	19:02:59.733	488AL6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R3	4	0	5,331,270:67:0
390	0	5	19:38:59.733	20SV4I	**7MODE**	**INT**	AACS INERTIAL MODE	2R3	4	0	5,331,306:31:0
391	0	5	19:53:59.733	20SV4K	7SLEW	INIT,POS,17.45	Stator movement	2R3	4	0	5,331,321:16:0
392	0	5	20:05:59.733	20SV4L	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,331,333:04:0
393	0	5	20:12:59.733	20SV4M	7SLEW	INIT,NEG,17.45	Stator movement	2R3	4	0	5,331,339:88:0
394	0	5	20:24:59.733	20SV4N	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,331,351:76:0
395	0	5	20:36:59.733	20SV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2R3	4	0	5,331,363:64:0
396	0	5	20:53:03.733	20SU4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,331,379:54:0
397	0	5	20:53:53.733	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,331,380:38:0
398	0	5	20:54:29.066	176TE6A	6TMREC	**IPB**	INITIATE PLAYBACK (PB CONTROL) Record Mod	2R3	4	0	5,331,381:00:0
399	0	5	21:12:59.733	488AL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,331,399:28:0
400	0	5	22:39:51.066	488AM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,331,485:19:0
401	0	5	23:54:31.066	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,331,559:05:0
402	0	6	00:54:50.400	488AM6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,331,618:65:0
403	0	6	01:21:40.400	488AM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,331,645:23:0
404	0	6	01:29:59.733	480SE6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,331,653:44:0
405	0	6	01:36:39.733	480SE6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,331,660:07:0
406	0	6	01:44:59.733	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R3	4	0	5,331,668:29:0
407	0	6	01:44:59.733	480MB6	6MROH	12	read from LLM1A12,2282,0,A2	2R3	4	0	5,331,668:29:0
408	0	6	02:10:56.400	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,331,693:89:0
409	0	6	02:15:04.400	20ZM6A	6EUVON			2R3	4	0	5,331,698:06:0
410	0	6	02:16:01.066	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,331,699:00:0
411	0	6	02:24:06.400	432YL6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,331,707:00:0
412	**0**	**6**	**02:30:45.733**	**26NNRELOAD01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
413	**0**	**6**	**02:30:51.066**	**20FN5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,331,713:61:0**
414	**0**	**6**	**02:30:54.400**	**20FN5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,331,713:66:0**
415	**0**	**6**	**02:30:57.733**	**20FN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,331,713:71:0**
416	**0**	**6**	**02:31:07.733**	**20FN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,331,713:86:0**
417	**0**	**6**	**02:31:21.733**	**20FN5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,331,714:16:0**
418	**0**	**6**	**02:31:25.066**	**20FN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,331,714:21:0**
419	**0**	**6**	**02:32:05.066**	**20FN4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**5,331,714:81:0**
420	**0**	**6**	**02:33:07.733**	**127FO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,331,715:84:0**
421	0	6	02:33:07.733	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,331,715:84:0
422	**0**	**6**	**02:33:08.400**	**127FO4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,331,715:85:0**
423	0	6	02:33:16.400	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,331,716:06:0
424	**0**	**6**	**02:33:45.733**	**26NNRELOAD01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
425	**0**	**6**	**02:38:11.066**	**127FN4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2R0**	**4**	**0**	**5,331,720:84:0**
426	0	6	02:38:11.066	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	5,331,720:84:0
427	**0**	**6**	**02:38:11.066**	**26NNCHOPOF01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
428	**0**	**6**	**02:38:11.733**	**127FN4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2R0**	**4**	**0**	**5,331,720:85:0**
429	0	6	02:38:19.733	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	5,331,721:06:0
430	**0**	**6**	**02:41:13.066**	**125FN4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,331,723:84:0**
431	0	6	02:41:13.066	125FN	NIMSINIT	GS	##### GROUP START INIT	260	4	0	5,331,723:84:0
432	**0**	**6**	**02:42:13.733**	**125FN4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**5,331,724:84:0**
433	0	6	02:43:14.400	125FN11A	NIMSINIT	GE	##### GROUP END INIT	2O0	4	0	5,331,725:84:0
434	**0**	**6**	**02:43:14.400**	**125FN4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O0**	**4**	**0**	**5,331,725:84:0**
435	0	6	05:41:29.066	488AN6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,331,902:19:0
436	0	6	05:44:23.066	488AN6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,331,905:07:0
437	**0**	**6**	**13:34:29.000**	**26NNCHOPOF01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
438	0	6	17:54:25.666	488AO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,332,627:09:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	0	6	19:13:34.333	488AO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,332,705:34:0	
440	0	6	19:42:40.333	488AO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,332,734:14:0	
441	0	6	22:44:07.000	488AO6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,332,913:55:0	
442	0	6	23:51:19.666	488AO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,332,980:07:0	
443	0	6	23:54:31.000	488AP6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,332,983:21:0	
444	0	7	00:05:11.000	488AP6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,332,993:71:0	
445	0	7	01:00:00.333	481UH4A	7VECT		Inert vect update UTC	2O0	4	0	5,333,048:00:0	
446	0	7	04:47:30.333	432YN6A	6RTSL1		R/T Select of DDS and	2O0	4	0	5,333,273:00:0	
447	0	7	05:49:21.666	488AP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,334:16:0	
448	0	7	07:08:39.666	488AQ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,412:55:0	
449	0	7	07:37:45.666	488AQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,441:35:0	
450	0	7	08:36:01.000	176QA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,333,499:00:0	
451	0	7	08:41:20.333	20UM4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,333,504:24:0	
452	0	7	09:00:20.333	20UM4D	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,333,523:05:0	
453	0	7	11:47:00.333	20UM4F	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,333,687:81:0	
454	0	7	11:53:00.333	488AQ6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,693:75:0	
455	0	7	11:53:27.000	488AQ6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,333,694:24:0	
456	0	7	12:08:00.333	20AA4AA	7STAT	10.00,109.7424,-	Stator inertial point	2O0	4	0	5,333,708:60:0	
457	0	7	12:08:12.333	20AA6AA	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	5,333,708:78:0	
458	0	7	12:14:00.333	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,333,714:54:0	
459	0	7	12:16:00.333	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,333,716:52:0	
460	0	7	12:16:20.333	20AA4AD	7STAT	17.45,109.7424,-	Stator inertial point	2O0	4	0	5,333,716:82:0	
461	0	7	12:18:00.333	20AA6AC	6TMSED	NORM,BA4	Sci, Eng, and D/L Chan	2O0	4	0	5,333,718:50:0	
462	0	7	12:20:14.333	474AA416A4E	7BURN	09.742399,-24.16	ALERT -- Thruster fire	2O0	4	0	5,333,720:69:0	
463	0	7	13:27:58.333	20AA4AF	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,333,787:68:0	
464	0	7	13:31:35.000	488AR6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,791:29:0	
465	0	7	13:33:50.333	20AA4AG	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,333,793:50:0	
466	0	7	13:43:42.333	488AR6B	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,803:28:0	
467	0	7	14:17:48.333	488AR6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,333,837:03:0	
468	0	7	14:52:06.333	20AA4AL	7STAT	10.00,109.7424,-	Stator inertial point	2O0	4	0	5,333,870:87:0	
469	0	7	14:52:18.333	20AA6AB	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	5,333,871:14:0	
470	0	7	14:58:06.333	20AA4AN	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,333,876:81:0	
471	0	7	15:00:06.333	474AA416A4K	7BURN	09.742399,-24.16	ALERT -- Thruster fire	2O0	4	0	5,333,878:79:0	
472	0	7	16:07:30.933	20AA4AP	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,333,945:49:0	
473	0	7	16:12:22.933	20AA4AQ	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,333,950:32:0	
474	0	7	17:55:54.933	20AB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,334,052:68:0	
475	0	7	17:56:44.933	20AB4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,334,053:52:0	
476	0	7	17:58:11.600	176AA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,334,055:00:0	
477	0	7	19:59:50.933	488AS6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,334,175:29:0	
478	0	7	20:36:06.933	488AS6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,334,211:17:0	
479	0	7	21:18:44.266	488AS6C	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,334,253:31:0	
480	0	7	21:52:50.933	488AS6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,334,287:07:0	
481	0	7	23:16:06.933	488AS6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,334,369:39:0	
482	0	8	02:01:00.266	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,334,532:46:0	
483	0	8	02:01:30.266	176QF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,334,533:00:0	
484	0	8	02:05:00.266	444SB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,334,536:42:0	
485	0	8	02:10:04.266	20UF4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,334,541:43:0	
486	0	8	02:10:54.266	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,334,542:27:0	
487	0	8	02:12:37.600	176QG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,334,544:00:0	
488	0	8	02:54:03.600	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,334,584:89:0	
489	0	8	02:57:13.600	20YC6A	6HICON			2O0	4	0	5,334,588:10:0	
490	0	8	02:58:07.600	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,334,589:00:0	
491	0	8	03:10:17.600	488AT6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,334,601:03:0	
492	0	8	03:12:54.933	488AT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,334,603:57:0	
493	0	8	12:25:56.266	488AU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,335,150:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	0	8	13:31:34.933	488AU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,335,215:45:0	
495	0	8	13:43:51.600	488AU6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,335,227:58:0	
496	0	8	14:12:57.600	488AU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,335,256:38:0	
497	0	8	20:10:00.266	488AV6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,335,609:49:0	
498	0	8	20:16:54.933	488AV6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,335,616:34:0	
499	0	9	05:53:09.533	488AW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,336,186:26:0	
500	0	9	06:35:34.866	488AW6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,336,228:22:0	
501	0	9	08:58:30.866	488AW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,336,369:55:0	
502	0	9	10:50:35.533	488AW6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,336,480:41:0	
503	0	9	10:53:42.866	488AW6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,336,483:49:0	
504	0	9	11:59:54.200	431MB6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,336,549:00:0	
505	0	9	12:15:47.533	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,336,564:65:0	
506	0	9	12:46:46.866	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,336,595:33:0	
507	0	9	14:12:06.866	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,336,679:69:0	
508	0	9	21:44:22.866	488AY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,337,127:05:0	
509	0	9	23:09:42.866	488AY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,337,211:41:0	
510	0	9	23:21:50.866	488AY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,337,223:41:0	
511	0	9	23:28:54.866	488AY6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,337,230:40:0	
512	0	10	12:11:58.800	488AZ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,337,985:11:0	
513	0	10	12:21:10.800	488AZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,337,994:20:0	
514	0	10	13:27:18.800	488AZ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,338,059:57:0	
515	0	10	13:34:09.466	488AZ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,338,066:36:0	
516	0	10	14:03:15.466	488AZ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,338,095:16:0	
517	0	10	22:18:30.800	488BA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,338,584:90:0	
518	0	10	23:30:33.466	488BA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,338,656:22:0	
519	0	10	23:33:10.800	488BA6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,338,658:76:0	
520	0	11	12:11:49.466	488BB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,339,409:13:0	
521	0	11	12:21:10.800	488BB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,339,418:36:0	
522	0	11	13:25:10.800	488BB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,339,481:63:0	
523	0	11	13:34:18.800	488BB6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,339,490:66:0	
524	0	11	14:03:24.800	488BB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,339,519:46:0	
525	0	11	22:14:14.733	488BC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,340,004:86:0	
526	0	11	23:26:45.400	488BC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,340,076:60:0	
527	0	11	23:35:18.733	488BC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,340,085:11:0	
528	0	12	08:37:41.400	488BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,340,621:49:0	
529	0	12	11:38:30.733	488BD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,340,800:34:0	
530	0	12	12:12:38.733	488BD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,340,834:12:0	
531	0	12	12:17:13.400	488BD6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,340,838:60:0	
532	0	12	12:23:18.733	488BD6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,340,844:62:0	
533	0	12	12:38:14.733	488BE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,340,859:41:0	
534	0	12	17:37:38.066	488BE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,341,155:50:0	
535	0	12	19:27:50.733	488BF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,341,264:50:0	
536	0	12	19:55:34.733	488BF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,341,291:89:0	
537	0	12	20:51:02.733	488BF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,341,346:76:0	
538	0	13	01:10:28.666	488BF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,341,603:38:0	
539	0	13	01:13:26.666	488BF6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,341,606:32:0	
540	0	14	00:23:19.333	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,342,980:87:0	
541	0	14	01:44:40.666	488BG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,343,061:38:0	
542	0	14	02:13:46.666	488BG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,343,090:18:0	
543	0	14	05:57:10.666	488BG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,343,311:13:0	
544	0	14	06:51:25.333	488BH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,343,364:72:0	
545	0	14	07:01:10.666	488BH6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,343,374:40:0	
546	0	14	09:52:23.266	488BH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,343,543:70:0	
547	0	14	10:56:19.266	176UW6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,343,607:00:0	
548	0	14	11:01:59.933	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,343,612:56:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
549	0	14	11:02:59.933	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	5,343,613:55:0
550	0	14	11:04:59.933	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,343,615:53:0
551	0	14	11:10:29.933	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	5,343,621:02:0
552	0	14	11:10:30.600	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	5,343,621:03:0
553	0	14	11:10:50.600	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	5,343,621:33:0
554	0	14	11:10:51.266	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	5,343,621:34:0
555	0	14	11:11:11.266	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,343,621:64:0
556	0	14	11:11:11.933	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,343,621:65:0
557	0	14	11:11:21.933	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,343,621:80:0
558	0	14	11:11:22.600	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,343,621:81:0
559	0	14	11:11:32.600	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	5,343,622:05:0
560	0	14	11:11:33.266	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	5,343,622:06:0
561	0	14	11:13:19.933	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	5,343,623:75:0
562	0	14	11:13:20.600	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	5,343,623:76:0
563	0	14	11:13:40.600	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	5,343,624:15:0
564	0	14	11:13:41.266	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	5,343,624:16:0
565	0	14	11:14:01.266	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,343,624:46:0
566	0	14	11:14:01.933	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,343,624:47:0
567	0	14	11:14:11.933	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,343,624:62:0
568	0	14	11:14:12.600	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,343,624:63:0
569	0	14	11:14:22.600	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	5,343,624:78:0
570	0	14	11:14:23.266	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	5,343,624:79:0
571	0	14	11:15:19.933	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,343,625:73:0
572	0	14	11:27:50.600	488BH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,343,638:16:0
573	0	14	11:40:03.933	20UW4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,343,650:24:0
574	0	14	11:40:53.933	20UW4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,343,651:08:0
575	0	14	11:42:49.933	176UX6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,343,653:00:0
576	0	14	12:07:09.933	488BH6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,343,677:06:0
577	0	14	12:08:22.600	488BI6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,343,678:24:0
578	0	14	12:16:54.600	488BI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,343,686:64:0
579	0	14	13:38:14.600	488BI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,343,767:13:0
580	0	14	14:16:22.600	488BI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,343,804:78:0
581	0	14	21:03:50.600	488BJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,344,207:77:0
582	0	14	22:41:58.600	488BJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,344,304:82:0
583	0	14	23:16:19.266	488BJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,344,338:79:0
584	0	14	23:24:38.600	488BJ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,344,347:09:0
585	0	14	23:47:17.933	488BJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,344,369:46:0
586	0	15	05:27:18.600	488BK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,344,705:71:0
587	0	15	06:27:02.600	488BK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,344,764:78:0
588	0	15	06:41:15.933	488BK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,344,778:84:0
589	0	15	12:09:53.266	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,345,103:85:0
590	0	15	12:29:42.600	488BL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,345,123:49:0
591	0	15	14:16:22.600	488BL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,345,229:03:0
592	0	15	16:55:01.200	488BL6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,345,385:85:0
593	0	15	16:58:30.533	488BL6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,345,389:35:0
594	0	15	19:34:50.533	488BM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,345,544:00:0
595	0	15	19:44:54.533	488BM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,345,553:87:0
596	0	15	20:51:02.533	488BM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,345,619:33:0
597	**0**	**15**	**20:59:59.866**	**26NNMROGRT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**
598	**0**	**15**	**21:00:03.866**	**20EA6A**	**6MROH**	**17,68EF,15,B2**	**read from B1A2B17,68EF,15,B**	**2O0**	**4**	**0**	**5,345,628:26:0**
599	**0**	**15**	**23:59:59.866**	**26NNMROGRT01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
600	0	16	03:19:58.533	488BN6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,346,004:02:0
601	0	16	03:23:34.533	488BN6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,346,007:53:0
602	0	16	11:56:05.866	488BO6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,346,514:43:0
603	0	16	12:06:14.533	488BO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,346,524:46:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	0	16	13:12:16.533	488BO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,346,589:74:0	
605	0	16	13:35:50.533	488BO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,346,613:11:0	
606	0	16	13:42:40.533	488BO6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,346,619:80:0	
607	0	16	21:37:58.533	488BP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,347,089:87:0	
608	0	16	22:41:58.533	488BP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,347,153:23:0	
609	0	17	00:16:29.800	488BP6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,347,246:67:0	
610	0	17	00:43:19.133	488BP6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,347,273:24:0	
611	0	17	05:12:22.466	488BQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,347,539:33:0	
612	0	17	06:18:30.466	488BQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,347,604:70:0	
613	0	17	06:25:59.133	488BQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,347,612:15:0	
614	0	17	12:09:36.466	488BR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,347,952:01:0	
615	0	17	12:25:26.466	488BR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,347,967:61:0	
616	0	17	14:16:22.466	488BR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,348,077:35:0	
617	0	17	16:55:04.466	488BR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,348,234:31:0	
618	0	18	02:21:51.133	488BS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,348,794:81:0	
619	0	18	05:08:06.466	488BS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,348,959:29:0	
620	0	18	06:12:06.466	488BS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,349,022:56:0	
621	0	18	06:25:50.466	488BS6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,349,036:18:0	
622	0	18	12:39:27.733	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,349,405:65:0	
623	0	18	13:25:10.400	488BT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,349,450:84:0	
624	0	18	14:00:20.400	488BT6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,349,485:64:0	
625	0	18	14:29:26.400	488BT6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,349,514:44:0	
626	0	18	21:23:02.400	488BU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,349,923:49:0	
627	0	18	22:55:44.400	488BU6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,350,015:20:0	
628	0	18	23:05:26.400	488BU6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,350,024:74:0	
629	0	19	17:26:36.333	488BV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,351,113:80:0	
630	0	19	20:16:54.333	488BV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,351,282:28:0	
631	0	19	22:16:22.333	488BV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,351,400:42:0	
632	0	19	22:55:35.000	488BV6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,351,439:22:0	
633	0	19	23:05:26.333	488BV6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,351,448:90:0	
634	0	20	17:56:28.333	488BW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,352,567:54:0	
635	0	20	20:06:14.333	488BW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,352,695:85:0	
636	0	20	22:12:06.333	488BW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,352,820:38:0	
637	0	20	22:55:27.000	488BW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,352,863:26:0	
638	0	21	02:29:05.600	488BX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,353,074:53:0	
639	0	21	02:38:46.266	488BX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,353,084:14:0	
640	0	21	03:15:02.266	488BX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,353,120:02:0	
641	0	21	10:51:34.266	488BY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,353,571:49:0	
642	0	21	11:32:06.266	488BY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,353,611:57:0	
643	0	21	11:35:22.266	488BY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,353,614:78:0	
644	0	21	11:44:54.266	488BY6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,353,624:26:0	
645	0	21	14:57:13.600	488BY6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,353,814:45:0	
646	0	21	16:20:46.266	488BZ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,353,897:11:0	
647	0	21	16:49:52.933	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,353,925:83:0	
648	0	21	21:01:42.266	488BZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,354,174:88:0	
649	0	21	22:46:14.266	488CA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,354,278:32:0	
650	0	21	22:48:13.600	488CA6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,354,280:29:0	
651	0	21	22:59:02.266	488CA6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,354,291:01:0	
652	0	22	15:26:12.200	488CB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,355,267:30:0	
653	0	22	19:47:02.200	488CB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,355,525:27:0	
654	0	22	20:51:02.200	488CB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,355,588:54:0	
655	0	23	10:36:38.200	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,356,405:11:0	
656	0	23	11:25:24.200	488CC6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,356,453:32:0	
657	0	23	11:25:42.200	488CC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,356,453:59:0	
658	0	23	11:34:14.200	488CC6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,356,462:08:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	0	23	16:06:03.466	488CC6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,356,730:84:0	
660	0	23	19:36:22.133	488CD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,356,938:84:0	
661	0	23	21:57:10.133	488CD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,357,078:16:0	
662	0	23	22:40:01.466	488CD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,357,120:51:0	
663	0	23	22:48:22.133	488CD6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,357,128:74:0	
664	0	24	03:46:52.800	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,357,424:04:0	
665	0	24	05:11:08.800	488CE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,357,507:35:0	
666	0	24	05:40:14.800	488CE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,357,536:15:0	
667	0	24	10:02:30.133	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,357,795:49:0	
668	0	24	11:17:10.133	488CF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,357,869:35:0	
669	0	24	11:34:14.133	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,357,886:24:0	
670	0	24	12:38:24.133	488CF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,357,949:66:0	
671	0	24	13:17:03.466	488CF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,357,987:87:0	
672	0	24	13:25:10.133	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,357,995:89:0	
673	**0**	**24**	**15:03:30.133**	**20ZG6A**	**6MCOPY**	**B1A1A,5018,UVS,0**	**B1A1A,5018,UVS,0118,01FF**	**2O0**	**4**	**0**	**5,358,093:21:0**	
674	**0**	**24**	**15:05:31.466**	**20ZG6B**	**6MCOPY**	**B1A1A,5118,UVS,0**	**B1A1A,5118,UVS,0118,01FF**	**2O0**	**4**	**0**	**5,358,095:21:0**	
675	**0**	**24**	**17:05:50.800**	**20ZG6C**	**6MCOPY**	**B1A1A,5218,UVS,0**	**B1A1A,5218,UVS,0118,01FF**	**2O0**	**4**	**0**	**5,358,214:21:0**	
676	0	24	20:36:06.133	488CH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,358,422:16:0	
677	0	24	22:35:34.133	488CH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,358,540:30:0	
678	0	24	22:37:48.800	488CH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,358,542:50:0	
679	0	24	22:48:22.133	488CH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,358,552:90:0	
680	0	25	00:20:52.066	488CH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,358,644:43:0	
681	**0**	**25**	**00:30:10.066**	**20ZD6A**	**6MCOPY**	**B1A1A,5318,UVS,0**	**B1A1A,5318,UVS,0118,01FF**	**2O0**	**4**	**0**	**5,358,653:61:0**	
682	**0**	**25**	**00:31:00.733**	**20ZD6B**	**6MROH**	**17,5000,31,B2**	**read from B1A2B17,5000,31,B**	**2O0**	**4**	**0**	**5,358,654:46:0**	
683	0	25	04:21:10.066	488CI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,358,882:12:0	
684	0	25	05:42:14.066	488CI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,358,962:28:0	
685	0	25	06:04:51.400	488CI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,358,984:62:0	
686	0	25	06:14:14.066	488CI6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,358,993:87:0	
687	0	25	17:25:46.066	488CJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,359,658:10:0	
688	0	25	19:06:30.066	488CJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,359,757:67:0	
689	0	25	21:46:30.066	488CJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,359,915:89:0	
690	0	25	22:34:45.400	488CJ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,359,963:64:0	
691	0	25	22:44:06.066	488CJ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,359,972:86:0	
692	0	26	18:05:37.333	488CK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,361,121:64:0	
693	0	26	18:45:10.000	488CK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,361,160:74:0	
694	0	26	21:42:14.000	488CK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,361,335:85:0	
695	0	26	22:33:12.666	488CK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,361,386:32:0	
696	0	26	22:35:34.000	488CK6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,361,388:62:0	
697	0	26	22:46:14.000	488CL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,361,399:21:0	
698	0	27	18:48:09.266	488CM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,362,587:86:0	
699	0	27	20:08:21.933	488CM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,362,667:25:0	
700	0	27	20:11:38.600	488CM6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,362,670:47:0	
701	0	27	20:40:44.600	488CM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,362,699:27:0	
702	0	28	05:26:41.266	488CN6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,363,219:42:0	
703	0	28	06:00:47.933	488CN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,363,253:18:0	
704	0	28	09:21:57.933	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,363,452:14:0	
705	0	28	12:08:21.933	488CO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,363,616:66:0	
706	0	28	12:26:43.266	488CO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,363,634:80:0	
707	0	28	12:55:49.933	488CO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,363,663:61:0	
708	0	28	13:06:26.600	488CO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,363,674:15:0	
709	0	28	13:10:13.933	488CO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,363,677:83:0	
710	0	28	18:48:01.266	488CP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,364,011:90:0	
711	0	28	20:10:06.600	488CP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,364,093:16:0	
712	0	28	20:14:45.933	488CP6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,364,097:71:0	
713	0	28	20:40:52.600	488CP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,364,123:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
714	0	28	20:52:59.933	488CP6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,364,135:54:0
715	0	28	20:55:25.933	176QB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,364,138:00:0
716	0	29	02:00:59.866	488CQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,364,440:19:0
717	0	29	02:01:47.866	176QD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,364,441:00:0
718	0	29	04:21:10.533	488CQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,364,578:77:0
719	0	29	05:43:59.866	488CQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,364,660:69:0
720	0	29	05:50:46.533	488CQ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,364,667:42:0
721	0	29	06:01:26.533	488CQ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,364,678:01:0
722	0	29	23:56:14.533	176VA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,365,741:00:0
723	0	30	00:02:18.533	465WK6A	6DMST	5000	DMS Slew to TIC	2O0	4	0	5,365,747:00:0
724	0	30	00:02:18.533		DMS:	: *SLEW-TIC	P7, TRACK *2, *REV, TIC 5034.17 +/- 3	2O0	4	0	5,365,747:00:0
725	0	30	00:02:18.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5034.17 +/- 3	2O0	4	0	5,365,747:00:0
726	0	30	00:02:19.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5034.29 +/- 3	2O0	4	0	5,365,747:02:1
727	0	30	00:02:25.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5035.52 +/- 3	2O0	4	0	5,365,747:10:0
728	0	30	00:02:26.400		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *5035.58 +/- 3	2O0	4	0	5,365,747:11:8
729	0	30	00:02:27.800		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *5035.46 +/- 3	2O0	4	0	5,365,747:13:9
730	0	30	00:04:49.333		DMS:	**: *RUNDOWN**	P7, TRACK 2, REV, TIC *5002.06 +/- 3	2O0	4	0	5,365,749:44:2
731	0	30	00:04:50.533		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5002.00 +/- 3	2O0	4	0	5,365,749:46:0
732	0	30	05:20:09.200	488CR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,366,061:32:0
733	0	30	05:55:59.866	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,366,096:73:0
734	0	30	05:55:59.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5002.00 +/- 3	2O0	4	0	5,366,096:73:0
735	0	30	05:56:01.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5002.12 +/- 3	2O0	4	0	5,366,096:75:1
736	0	30	05:56:06.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5003.35 +/- 3	2O0	4	0	5,366,096:83:0
737	0	30	05:56:07.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5003.41 +/- 3	2O0	4	0	5,366,096:84:8
738	0	30	05:56:11.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4997.91 +/- 3	2O0	4	0	5,366,096:90:6
739	0	30	05:56:11.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4997.91 +/- 3	2O0	4	0	5,366,096:90:6
740	0	30	06:21:51.866		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 259.79 +/- 3	2O0	4	0	5,366,122:35:0
741	0	30	06:21:51.866	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	2O0	4	0	5,366,122:35:0
742	0	30	06:21:53.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 258.99 +/- 3	2O0	4	0	5,366,122:36:8
743	0	30	09:49:43.133	488CR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,366,327:87:0
744	0	30	10:25:02.466	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	2O0	4	0	5,366,362:81:0
745	0	30	10:25:02.466		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 258.99 +/- 3	2O0	4	0	5,366,362:81:0
746	0	30	10:25:02.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 258.99 +/- 3	2O0	4	0	5,366,362:81:0
747	0	30	10:25:03.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 259.11 +/- 3	2O0	4	0	5,366,362:83:1
748	0	30	10:25:09.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 260.34 +/- 3	2O0	4	0	5,366,363:00:0
749	0	30	10:25:10.333		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 260.40 +/- 3	2O0	4	0	5,366,363:01:8
750	0	30	10:25:11.733		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 260.28 +/- 3	2O0	4	0	5,366,363:03:9
751	0	30	10:29:09.133	488CR6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,366,366:87:0
752	0	30	10:29:29.466		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 3	2O0	4	0	5,366,367:26:5
753	0	30	10:29:30.666		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 3	2O0	4	0	5,366,367:28:3
754	0	30	10:29:30.666		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 3	2O0	4	0	5,366,367:28:3
755	0	30	10:29:32.066		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2O0	4	0	5,366,367:30:4
756	0	30	10:29:44.066		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2O0	4	0	5,366,367:48:4
757	0	30	10:29:45.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2O0	4	0	5,366,367:50:2
758	0	30	10:35:05.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,366,372:75:0
759	0	30	10:35:05.133	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,366,372:75:0
760	0	30	10:35:11.800		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,366,372:85:0
761	0	30	10:35:15.666		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	2O0	4	0	5,366,372:90:8
762	0	30	10:35:15.666		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	2O0	4	0	5,366,372:90:8
763	0	30	10:51:35.133	488CR6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,366,389:13:0
764	0	30	11:06:59.133	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	2O0	4	0	5,366,404:34:0
765	0	30	11:06:59.133		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	2O0	4	0	5,366,404:34:0
766	0	30	11:07:00.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	2O0	4	0	5,366,404:35:8
767	0	30	11:08:39.133	488CR6E	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	2O0	4	0	5,366,406:02:0
768	0	30	11:22:35.133	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,366,419:73:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	0	30	11:22:35.133		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	2O0	4	0	5,366,419:73:0	
770	0	30	11:22:36.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	2O0	4	0	5,366,419:75:1	
771	0	30	11:22:41.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	2O0	4	0	5,366,419:83:0	
772	0	30	11:22:43.000		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	2O0	4	0	5,366,419:84:8	
773	0	30	11:22:46.866		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	2O0	4	0	5,366,419:90:6	
774	0	30	11:22:46.866		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	2O0	4	0	5,366,419:90:6	
775	0	30	11:23:35.133	488CS6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,366,420:72:0	
776	0	30	11:54:43.133		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	2O0	4	0	5,366,451:53:0	
777	0	30	11:54:43.133	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,366,451:53:0	
778	0	30	11:54:44.333		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	2O0	4	0	5,366,451:54:8	
779	0	30	11:54:48.200		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	2O0	4	0	5,366,451:60:6	
780	0	30	11:54:48.200		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	2O0	4	0	5,366,451:60:6	
781	0	30	12:08:23.133	488CS6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,366,465:09:0	
782	0	30	12:26:43.800	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	2O0	4	0	5,366,483:22:0	
783	0	30	12:26:43.800		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	2O0	4	0	5,366,483:22:0	
784	0	30	12:26:45.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	2O0	4	0	5,366,483:23:8	
785	0	30	12:41:27.133	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,366,497:73:0	
786	0	30	12:41:27.133		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	2O0	4	0	5,366,497:73:0	
787	0	30	12:41:28.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	2O0	4	0	5,366,497:75:1	
788	0	30	12:41:33.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	2O0	4	0	5,366,497:83:0	
789	0	30	12:41:35.000		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	2O0	4	0	5,366,497:84:8	
790	0	30	12:41:38.866		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	2O0	4	0	5,366,497:90:6	
791	0	30	12:41:38.866		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	2O0	4	0	5,366,497:90:6	
792	0	30	13:13:34.466		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	2O0	4	0	5,366,529:52:0	
793	0	30	13:13:34.466	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,366,529:52:0	
794	0	30	13:13:35.666		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	2O0	4	0	5,366,529:53:8	
795	0	30	13:13:39.533		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	2O0	4	0	5,366,529:59:6	
796	0	30	13:13:39.533		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	2O0	4	0	5,366,529:59:6	
797	0	30	13:14:40.466	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	2O0	4	0	5,366,530:60:0	
798	0	30	13:14:40.466		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	2O0	4	0	5,366,530:60:0	
799	0	30	13:14:41.666		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	2O0	4	0	5,366,530:61:8	
800	0	30	13:15:59.133	488CS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,366,531:87:0	
801	0	30	13:29:10.466		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	2O0	4	0	5,366,545:00:0	
802	0	30	13:29:10.466	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	2O0	4	0	5,366,545:00:0	
803	0	30	13:30:04.466		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	2O0	4	0	5,366,545:81:0	
804	0	30	13:30:04.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	2O0	4	0	5,366,545:81:0	
805	0	30	13:30:04.466	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	2O0	4	0	5,366,545:81:0	
806	0	30	13:30:05.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	2O0	4	0	5,366,545:83:1	
807	0	30	13:30:11.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	2O0	4	0	5,366,546:00:0	
808	0	30	13:30:12.333		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	2O0	4	0	5,366,546:01:8	
809	0	30	13:30:13.733		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	2O0	4	0	5,366,546:03:9	
810	0	30	13:41:39.533		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2O0	4	0	5,366,557:31:6	
811	0	30	13:41:40.733		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2O0	4	0	5,366,557:33:4	
812	0	30	13:41:40.733		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2O0	4	0	5,366,557:33:4	
813	0	30	13:41:42.133		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2O0	4	0	5,366,557:35:5	
814	0	30	13:41:54.133		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2O0	4	0	5,366,557:53:5	
815	0	30	13:41:55.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2O0	4	0	5,366,557:55:3	
816	0	30	13:57:03.800	20VP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,366,572:53:0	
817	0	30	13:57:53.800	20VP4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,366,573:37:0	
818	0	30	13:59:30.466	176VB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,366,575:00:0	
819	0	30	14:31:23.133	488CS6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,366,606:48:0	
820	0	30	14:35:34.466	488CS6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,366,610:61:0	
821	0	31	01:52:42.466	488CT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,367,280:33:0	
822	0	31	02:08:54.466	488CT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,367,296:35:0	
823	0	31	03:08:38.466	488CT6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,367,355:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	0	31	09:45:26.466	488CU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,367,747:82:0	
825	0	31	10:45:10.466	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,367,806:89:0	
826	0	31	12:08:22.466	488CU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,367,889:24:0	
827	0	31	15:06:45.733	488CU6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,368,065:63:0	
828	0	31	15:13:59.066	488CU6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,368,072:76:0	
829	0	32	05:04:53.066	488CV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,368,894:55:0	
830	0	32	09:34:46.400	488CV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,369,161:48:0	
831	0	32	10:38:46.400	488CV6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,369,224:75:0	
832	0	32	11:12:54.400	488CW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,369,258:53:0	
833	0	32	12:14:29.066	488CW6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,369,319:44:0	
834	0	32	12:48:08.400	488CW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,369,352:70:0	
835	0	32	15:33:10.400	488CW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,369,515:90:0	
836	0	32	15:45:52.400	488CW6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,369,528:50:0	
837	0	32	15:50:14.400	488CX6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,369,532:79:0	
838	0	33	01:48:46.333	488CY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,370,124:75:0	
839	0	33	01:58:15.000	488CY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,370,134:18:0	
840	0	33	03:04:34.333	488CY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,370,199:72:0	
841	0	33	03:38:13.666	488CY6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,370,233:07:0	
842	0	33	03:53:00.333	488CY6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,370,247:63:0	
843	0	33	03:56:21.000	176UA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,370,251:00:0	
844	0	33	04:06:00.333	20SM4C	7STAT	10.00,207.49,-10	Stator inertial point	2O0	4	0	5,370,260:50:0	
845	0	33	04:06:12.333	20SM6D	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	2O0	4	0	5,370,260:68:0	
846	0	33	04:25:02.333	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,370,279:34:0	
847	0	33	04:30:00.333	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,370,284:26:0	
848	0	33	04:30:20.333	20SM4D	7STAT	17.45,207.49,-10	Stator inertial point	2O0	4	0	5,370,284:56:0	
849	0	33	04:34:10.333	490UA412A4E	7VECT		Inert vect update UTC	2O0	4	0	5,370,288:37:0	
850	0	33	04:34:14.333	490UA412A4F	7TURN	2,RTH	ALERT Thruster	2O0	4	0	5,370,288:43:0	
851	0	33	04:38:02.333	490UA412A406A4A	7STAR	11,610,278.81	Star catalog update	2O0	4	0	5,370,292:21:0	
852	0	33	04:38:04.333	490UA412A406A4B	7STAR	2,111,285.778,-6	Star catalog update	2O0	4	0	5,370,292:24:0	
853	0	33	04:38:06.333	490UA412A406A4C	7STAR	3,317,120.46	Star catalog update	2O0	4	0	5,370,292:27:0	
854	0	33	04:38:08.333	490UA412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	2O0	4	0	5,370,292:30:0	
855	0	33	04:38:10.333	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	2O0	4	0	5,370,292:33:0	
856	0	33	04:38:12.333	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	2O0	4	0	5,370,292:36:0	
857	0	33	04:38:15.000	488CZ6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,370,292:40:0	
858	0	33	04:48:06.333	20SM4F	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,370,302:17:0	
859	0	33	04:56:10.333	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,370,310:15:0	
860	0	33	06:30:04.333	20US4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,370,403:03:0	
861	0	33	06:30:54.333	20US4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,370,403:78:0	
862	0	33	06:31:00.333	488CZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,370,403:87:0	
863	0	33	06:32:03.666	176UB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,370,405:00:0	
864	0	33	07:54:30.333	488CZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,370,486:49:0	
865	0	33	10:45:10.333	488DA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,370,655:30:0	
866	0	33	10:48:30.333	488DA6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,370,658:57:0	
867	0	33	10:55:50.333	488DA6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	5,370,665:80:0	
868	0	33	11:32:06.333	488DA6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,370,701:68:0	
869	0	33	16:05:35.666	488DA6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,370,972:21:0	
870	0	33	20:06:04.333	488DB6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,371,210:06:0	
871	0	33	20:10:30.333	488DB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,371,214:41:0	
872	0	34	01:42:18.333	488DB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,371,542:55:0	
873	0	34	02:02:30.333	488DB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,371,562:53:0	
874	0	34	03:08:38.333	488DC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,371,627:90:0	
875	0	34	09:19:50.933	488DD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,371,995:11:0	
876	0	34	10:30:14.933	488DD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,372,064:68:0	
877	0	34	10:48:36.266	488DD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,372,082:82:0	
878	0	34	16:52:14.266	488DE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,372,442:49:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	0	34	18:14:46.933	488DE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,372,524:16:0	
880	0	34	18:48:26.266	488DE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,372,557:42:0	
881	0	34	21:44:22.266	488DE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,372,731:42:0	
882	0	34	22:01:28.266	488DE6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,372,748:34:0	
883	0	35	10:43:28.266	488DF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,373,502:00:0	
884	**0**	**35**	**11:02:00.266**	**24NNNIMROD01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
885	0	35	11:02:14.266	488DF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,373,520:51:0	
886	0	35	11:02:44.933	20NC6A	6TMSED	NORM,BA4	Sci, Eng, and D/L Chan	2O0	4	0	5,373,521:06:0	
887	**0**	**35**	**11:11:01.600**	**24NNOPTICS01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
888	**0**	**35**	**11:11:15.600**	**20NA3A**	**37AR**	**1**	**NIMS Power OFF**				**5,373,529:44:0**	
889	**0**	**35**	**11:11:15.600**	**20NA3B**	**37AR**	**2**	**NIMS Power OFF**				**5,373,529:44:0**	
890	**0**	**35**	**11:11:28.933**	**20NA3C**	**37H**	**1**	**Replacement Heaters ON**				**5,373,529:64:0**	
891	**0**	**35**	**11:11:28.933**	**20NA3D**	**37H**	**2**	**Replacement Heaters ON**				**5,373,529:64:0**	
892	0	35	11:14:48.933	176NA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C				5,373,533:00:0	
893	**0**	**35**	**11:16:18.933**	**20NA3E**	**37HR**	**1**	**Replacement Heaters OFF**				**5,373,534:44:0**	
894	**0**	**35**	**11:16:18.933**	**20NA3F**	**37HR**	**2**	**Replacement Heaters OFF**				**5,373,534:44:0**	
895	**0**	**35**	**11:16:32.266**	**20NA3G**	**37A**	**1**	**NIMS Power ON PHASE 0**	**260**	**4**	**0**	**5,373,534:64:0**	
896	**0**	**35**	**11:16:32.266**	**20NA3H**	**37A**	**2**	**NIMS Power ON PHASE 0**	**260**	**4**	**0**	**5,373,534:64:0**	
897	**0**	**35**	**11:19:06.933**	**20NA3O**	**37C2P**	**1**	**Optics Heater 2 ON (primary relay)**	**260**	**4**	**0**	**5,373,537:23:0**	
898	**0**	**35**	**11:19:06.933**	**20NA3P**	**37C2P**	**2**	**Optics Heater 2 ON (primary relay)**	**260**	**4**	**0**	**5,373,537:23:0**	
899	**0**	**35**	**11:20:16.266**	**20NA4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,373,538:36:0**	
900	**0**	**35**	**11:21:16.933**	**20NA4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,373,539:36:0**	
901	**0**	**35**	**11:22:17.600**	**20NA4C**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,373,540:36:0**	
902	**0**	**35**	**11:25:19.600**	**20NA4F**	**37IOP**	**8,11**	**Band Edge Map, Grating Start Position =11**	**4R8**	**4**	**11**	**5,373,543:36:0**	
903	**0**	**35**	**11:26:20.266**	**20NA4G**	**37MPT**	**1,139,151**	**Modify Parameter Table (affects scanning m**	**4R8**	**4**	**11**	**5,373,544:36:0**	
904	**0**	**35**	**11:29:09.600**	**20NA6A**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,547:17:0**	
905	**0**	**35**	**11:49:22.933**	**20NA6B**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,567:17:0**	
906	0	35	12:04:52.933	488DF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4R8	4	11	5,373,582:47:0	
907	0	35	12:38:32.266	488DF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R8	4	11	5,373,615:73:0	
908	0	35	12:46:00.266	20NC6B	6TMSED	NORM,BA4	Sci, Eng, and D/L Chan	4R8	4	11	5,373,623:17:0	
909	**0**	**35**	**13:30:29.600**	**20NA6D**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,667:17:0**	
910	**0**	**35**	**14:31:09.533**	**20NA6E**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,727:17:0**	
911	**0**	**35**	**15:31:49.533**	**20NA6F**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,787:17:0**	
912	**0**	**35**	**16:32:29.533**	**20NA6G**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,847:17:0**	
913	**0**	**35**	**17:33:09.533**	**20NA6H**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,907:17:0**	
914	**0**	**35**	**18:33:49.533**	**20NA6I**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,373,967:17:0**	
915	**0**	**35**	**19:14:16.200**	**20NA6J**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,374,007:17:0**	
916	**0**	**35**	**19:34:29.533**	**20NA6K**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,374,027:17:0**	
917	**0**	**35**	**19:54:42.866**	**20NA6L**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,374,047:17:0**	
918	**0**	**35**	**20:14:56.200**	**20NA6N**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,374,067:17:0**	
919	**0**	**35**	**20:16:00.866**	**24NNTICKLE01-**		**-----START------**		**4R8**	**4**	**11**	**: :**	
920	**0**	**35**	**20:18:06.200**	**20NB6A**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,374,070:29:0**	
921	**0**	**35**	**20:26:07.533**	**20NA3R**	**37C2PR**	**2**	**Optics Heater 2 OFF (primary relay)**	**4R8**	**4**	**11**	**5,374,078:23:0**	
922	**0**	**35**	**20:26:07.533**	**20NA3Q**	**37C2PR**	**1**	**Optics Heater 2 OFF (primary relay)**	**4R8**	**4**	**11**	**5,374,078:23:0**	
923	0	35	20:27:53.533	176NB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4R8	4	11	5,374,080:00:0	
924	**0**	**35**	**20:29:13.533**	**20NB6B**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**4R8**	**4**	**11**	**5,374,081:29:0**	
925	**0**	**35**	**20:31:02.200**	**20NB4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R8**	**4**	**11**	**5,374,083:10:0**	
926	**0**	**35**	**20:31:03.533**	**20NB6C**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R8**	**4**	**11**	**5,374,083:12:0**	
927	**0**	**35**	**20:33:03.533**	**20NB4B**	**37IST**	**0,2,1,ON,0,1,0**	**ECALGain State 2**	**2R8**	**4**	**11**	**5,374,085:10:0**	
928	**0**	**35**	**20:36:06.866**	**20NB6D**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R8**	**4**	**11**	**5,374,088:12:0**	
929	**0**	**35**	**20:38:19.533**	**20NB6E**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**2R8**	**4**	**11**	**5,374,090:29:0**	
930	**0**	**35**	**20:39:07.533**	**20NB4C**	**37IST**	**1,0,0,OFF,0,0,1**	**Chopper ON, Sync, 63Hz (Ref)**	**268**	**4**	**11**	**5,374,091:10:0**	
931	**0**	**35**	**20:40:08.200**	**20NB4D**	**37IST**	**1,1,0,OFF,0,0,1**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O8**	**4**	**11**	**5,374,092:10:0**	
932	**0**	**35**	**20:41:08.866**	**20NB4E**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O8**	**4**	**11**	**5,374,093:10:0**	
933	**0**	**35**	**20:42:10.200**	**20NB4F**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2O8**	**4**	**11**	**5,374,094:11:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
934	**0**	**35**	**20:43:10.200**	**20NB4G**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2O0**	**4**	**0**	**5,374,095:10:0**
935	**0**	**35**	**20:48:26.200**	**20NB6F**	**6MROH**	**37,150F,0,A40**	**read from NIMS37,150F,0,A4**	**2O0**	**4**	**0**	**5,374,100:29:0**
936	**0**	**35**	**20:54:24.200**	**24NNNIMROD01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
937	**0**	**35**	**21:16:00.866**	**24NNTICKLE01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
938	0	35	21:40:06.866	488DG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,374,151:39:0
939	0	35	22:01:20.200	488DG6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,374,172:38:0
940	0	35	22:12:06.866	488DG6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,374,183:07:0
941	0	35	23:44:24.200	488DG6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,374,274:32:0
942	0	36	01:30:30.200	488DG6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,374,379:26:0
943	0	36	01:51:50.200	488DH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,374,400:35:0
944	0	36	02:56:09.533	176UY6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,374,464:00:0
945	0	36	02:57:58.200	488DH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,374,465:72:0
946	0	36	03:02:00.200	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,374,469:71:0
947	0	36	03:03:00.200	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	5,374,470:70:0
948	0	36	03:05:00.200	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,374,472:68:0
949	0	36	03:10:30.200	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	5,374,478:17:0
950	0	36	03:10:30.866	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	5,374,478:18:0
951	0	36	03:10:50.866	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	5,374,478:48:0
952	0	36	03:10:51.533	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	5,374,478:49:0
953	0	36	03:11:11.533	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,374,478:79:0
954	0	36	03:11:12.200	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,374,478:80:0
955	0	36	03:11:22.200	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,374,479:04:0
956	0	36	03:11:22.866	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,374,479:05:0
957	0	36	03:11:32.866	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	5,374,479:20:0
958	0	36	03:11:33.533	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	5,374,479:21:0
959	0	36	03:13:20.200	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	5,374,480:90:0
960	0	36	03:13:20.866	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	5,374,481:00:0
961	0	36	03:13:40.866	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	5,374,481:30:0
962	0	36	03:13:41.533	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	5,374,481:31:0
963	0	36	03:14:01.533	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,374,481:61:0
964	0	36	03:14:02.200	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,374,481:62:0
965	0	36	03:14:12.200	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,374,481:77:0
966	0	36	03:14:12.866	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,374,481:78:0
967	0	36	03:14:22.866	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	5,374,482:02:0
968	0	36	03:14:23.533	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	5,374,482:03:0
969	0	36	03:15:20.200	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,374,482:88:0
970	0	36	03:40:04.200	20UY4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,374,507:39:0
971	0	36	03:40:54.200	20UY4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,374,508:23:0
972	0	36	03:42:40.200	176UZ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,374,510:00:0
973	**0**	**36**	**05:39:01.533**	**24NNOPTICS01-**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
974	0	36	09:15:34.200	488DI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,374,839:22:0
975	0	36	09:21:08.200	488DI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,374,844:68:0
976	0	36	12:05:13.533	488DI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,375,007:03:0
977	0	36	20:40:22.200	488DJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,375,516:47:0
978	0	36	21:59:18.200	488DJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,375,594:53:0
979	0	36	22:01:13.533	488DJ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,375,596:44:0
980	0	36	22:12:06.800	488DJ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,375,607:23:0
981	0	37	00:19:16.133	488DJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,375,733:01:0
982	0	37	02:30:14.800	488DK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,375,862:50:0
983	0	37	04:40:22.800	488DK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,375,991:23:0
984	0	37	05:22:21.466	488DK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,376,032:70:0
985	0	37	05:29:26.800	488DK6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,376,039:71:0
986	0	37	10:27:14.133	488DL6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,376,334:27:0
987	0	37	10:32:22.133	488DL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,376,339:34:0
988	0	37	10:57:58.133	488DL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,376,364:63:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
989	0	37	11:01:04.800	26NNRELOAD02-		-----START------		2O0	4	0	: :
990	0	37	11:01:10.133	20ND5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,376,367:78:0
991	0	37	11:01:13.466	20ND5B	37MRL		Memory Realocate (software operates from R		4	0	5,376,367:83:0
992	0	37	11:01:16.800	20ND6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,376,367:88:0
993	0	37	11:01:26.800	20ND6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,376,368:12:0
994	0	37	11:01:40.800	20ND5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,376,368:33:0
995	0	37	11:01:44.133	20ND5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,376,368:38:0
996	0	37	11:02:24.133	20ND4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,376,369:07:0
997	0	37	11:03:24.133	20ND4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,376,370:06:0
998	0	37	11:03:24.800	20ND4C	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,376,370:07:0
999	0	37	11:05:25.466	20ND4D	37IOP	0,0	Safe, Grating Start Position =00	2R0	4	0	5,376,372:06:0
1000	0	37	11:05:26.133	20ND4E	37ETB	04,C4,02,00,00	Loads wavelength edit table	2R0	4	0	5,376,372:07:0
1001	0	37	11:09:28.800	20ND4F	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	260	4	0	5,376,376:07:0
1002	0	37	11:10:29.466	20ND4G	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	2O0	4	0	5,376,377:07:0
1003	0	37	11:11:30.133	20ND4H	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2O0	4	0	5,376,378:07:0
1004	0	37	11:14:04.800	26NNRELOAD02-		-----STOP-------		2O0	4	0	: :
1005	0	37	12:00:08.133	488DL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,376,426:16:0
1006	0	37	12:33:47.466	488DL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,376,459:42:0
1007	0	37	15:41:42.133	488DM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,376,645:28:0
1008	0	37	16:49:58.133	488DM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,376,712:75:0
1009	0	37	21:33:42.133	488DM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,376,993:40:0
1010	0	37	21:56:38.800	488DN6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,377,016:12:0
1011	0	37	21:59:18.133	488DN6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,377,018:69:0
1012	0	37	22:14:14.133	488DN6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,377,033:48:0
1013	0	38	10:38:05.400	488DO6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,377,769:19:0
1014	0	38	10:51:34.733	488DO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,377,782:50:0
1015	0	38	12:00:15.400	488DO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,377,850:43:0
1016	0	38	12:33:54.733	488DO6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,377,883:69:0
1017	0	38	14:53:00.066	488DO6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,378,021:29:0
1018	0	38	14:56:43.400	176UC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,378,025:00:0
1019	0	38	15:11:50.066	488DP6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,378,039:86:0
1020	0	38	15:23:30.066	20SN4I	7MODE	INT	AACS INERTIAL MODE	2O0	4	0	5,378,051:44:0
1021	0	38	15:38:30.066	20SN4K	7SLEW	INIT,POS,17.45	Stator movement	2O0	4	0	5,378,066:29:0
1022	0	38	15:50:30.066	20SN4L	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,378,078:17:0
1023	0	38	15:57:30.066	20SN4M	7SLEW	INIT,NEG,17.45	Stator movement	2O0	4	0	5,378,085:10:0
1024	0	38	16:09:30.066	20SN4N	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,378,096:89:0
1025	0	38	16:16:30.066	20SN4O	7SLEW	INIT,POS,4.36	Stator movement	2O0	4	0	5,378,103:82:0
1026	0	38	16:28:30.066	20SN4P	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,378,115:70:0
1027	0	38	16:35:30.066	20SN4Q	7SLEW	INIT,NEG,4.36	Stator movement	2O0	4	0	5,378,122:63:0
1028	0	38	16:47:30.066	20SN4R	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,378,134:51:0
1029	0	38	16:59:30.066	20SN4AH	7MODE	CRU	AACS CRUISE MODE	2O0	4	0	5,378,146:39:0
1030	0	38	17:15:00.066	488DP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,378,161:69:0
1031	0	38	17:15:04.066	20UC4A	7SAFE	STOP	S/P NO MOVEMENT	2O0	4	0	5,378,161:75:0
1032	0	38	17:15:34.066	488DP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,378,162:29:0
1033	0	38	17:15:54.066	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,378,162:59:0
1034	0	38	17:17:16.066	176UD6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,378,164:00:0
1035	0	38	21:33:42.066	488DQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,378,417:56:0
1036	0	38	21:45:58.733	488DQ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,378,429:69:0
1037	0	38	21:57:10.066	488DQ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,378,440:75:0
1038	0	39	01:49:01.400	488DQ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,378,670:12:0
1039	0	39	02:30:14.066	488DQ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,378,710:81:0
1040	0	39	04:33:58.066	488DR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,378,833:24:0
1041	0	39	05:18:46.066	488DR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,378,877:52:0
1042	0	39	09:09:10.066	488DR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,379,105:40:0
1043	0	39	10:08:54.066	488DR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,379,164:47:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1044	0	39	10:31:41.400	488DR6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,379,187:05:0
1045	0	39	10:34:30.066	488DS6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,379,189:76:0
1046	0	39	10:45:10.066	488DS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,379,200:35:0
1047	0	39	16:19:49.333	488DS6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,379,531:33:0
1048	0	39	20:33:58.666	488DT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,379,782:66:0
1049	0	39	21:42:28.000	488DT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,379,850:42:0
1050	0	39	21:48:38.666	488DT6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,379,856:52:0
1051	0	40	01:22:53.333	488DT6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,380,068:42:0
1052	0	40	01:32:38.000	488DT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,380,078:09:0
1053	0	40	02:45:27.333	488DU6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,380,150:11:0
1054	0	40	03:19:06.666	488DU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,380,183:37:0
1055	0	40	04:06:14.000	488DU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,380,230:01:0
1056	0	40	07:39:34.000	488DU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,380,441:00:0
1057	0	40	10:19:34.000	488DV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,380,599:22:0
1058	0	40	10:22:50.000	488DV6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,380,602:43:0
1059	0	40	10:30:14.000	488DV6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	5,380,609:72:0
1060	0	40	11:06:30.000	488DV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,380,645:60:0
1061	0	40	16:49:42.666	488DW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,380,985:09:0
1062	0	40	20:29:42.000	488DW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,381,202:61:0
1063	0	40	21:41:31.333	488DW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,381,273:64:0
1064	0	40	21:44:22.000	488DW6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,381,276:47:0
1065	0	40	21:55:02.600	488DW6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,381,287:07:0
1066	0	41	01:36:26.600	488DX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,381,506:04:0
1067	0	41	01:47:34.600	488DX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,381,517:05:0
1068	0	41	02:43:02.600	488DX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,381,571:83:0
1069	0	41	08:54:13.933	488DY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,381,939:02:0
1070	0	41	09:20:31.266	488DY6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,381,965:02:0
1071	0	41	16:49:35.933	488DZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,382,409:15:0
1072	0	41	20:23:17.933	488DZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,382,620:47:0
1073	0	41	21:40:05.933	488DZ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,382,696:43:0
1074	0	41	21:45:36.600	488DZ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,382,701:84:0
1075	0	41	21:57:09.933	488DZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,382,713:32:0
1076	0	42	02:21:19.266	488EA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,382,974:55:0
1077	0	42	03:45:41.933	488EA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,383,058:05:0
1078	0	42	04:19:21.266	488EA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,383,091:31:0
1079	0	42	04:27:33.933	488EA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,383,099:42:0
1080	0	42	07:03:18.533	488EA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,383,253:45:0
1081	0	42	10:08:54.533	488EB6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,383,437:05:0
1082	0	42	10:15:32.533	488EB6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,383,443:56:0
1083	0	42	10:25:58.533	488EB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,383,453:85:0
1084	0	43	19:34:20.466	488EC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,385,420:41:0
1085	0	43	21:27:18.466	488EC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,385,532:16:0
1086	0	43	23:06:10.466	488EC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,385,629:87:0
1087	0	43	23:09:41.800	488EC6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,385,633:40:0
1088	0	44	10:12:23.800	488ED6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,386,288:78:0
1089	0	44	10:21:41.800	488ED6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,386,298:05:0
1090	0	44	11:42:45.800	488ED6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,386,378:21:0
1091	0	44	19:59:49.800	488EE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,386,869:76:0
1092	0	44	21:08:05.800	488EE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,386,937:32:0
1093	0	44	22:38:47.733	488EE6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,387,027:05:0
1094	0	44	23:07:53.733	488EE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,387,055:76:0
1095	0	45	02:13:10.400	488EF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,387,239:07:0
1096	0	45	04:48:54.400	488EF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,387,393:09:0
1097	0	45	04:50:14.400	488EF6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,387,394:38:0
1098	0	45	05:01:42.400	488EF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,387,405:69:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1099	0	45	11:35:56.400	488EG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,387,795:60:0
1100	0	45	13:01:05.066	488EG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,387,879:79:0
1101	0	45	13:34:44.400	488EG6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,387,913:14:0
1102	0	45	20:59:33.733	488EH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,388,353:08:0
1103	0	45	21:24:35.066	488EH6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,388,377:76:0
1104	0	45	21:33:41.733	488EH6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,388,386:77:0
1105	0	45	21:48:37.733	488EH6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,388,401:56:0
1106	0	46	06:18:11.000	488EI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,388,905:52:0
1107	0	46	07:58:46.333	488EI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,389,005:05:0
1108	0	46	09:34:46.333	488EI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,389,100:00:0
1109	0	46	10:06:33.000	488EI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,389,131:39:0
1110	0	46	10:08:54.333	488EI6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,389,133:69:0
1111	0	46	10:23:50.333	488EJ6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,389,148:48:0
1112	0	46	17:37:08.333	488EK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,389,577:06:0
1113	0	46	17:51:49.666	488EK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,389,591:54:0
1114	0	46	19:01:13.000	488EK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,389,660:20:0
1115	0	46	19:34:52.333	488EK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,389,693:46:0
1116	0	46	21:50:45.666	488EK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,389,827:82:0
1117	0	47	00:13:41.666	488EL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,389,969:24:0
1118	0	47	00:47:07.000	488EL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,390,002:29:0
1119	0	47	00:56:21.666	488EL6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,390,011:42:0
1120	0	47	16:33:55.600	488EM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,390,938:66:0
1121	0	47	19:08:38.266	488EM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,391,091:67:0
1122	0	47	21:14:30.266	488EM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,391,216:20:0
1123	0	47	21:24:26.933	488EM6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,391,226:05:0
1124	0	47	21:33:42.266	488EM6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,391,235:19:0
1125	0	47	21:48:37.600	488EN6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,391,249:88:0
1126	0	48	15:03:49.600	488EO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,392,273:72:0
1127	0	48	17:28:21.600	488EO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,392,416:67:0
1128	0	48	17:51:49.600	488EO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,392,439:86:0
1129	0	48	19:01:24.933	488EO6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,392,508:70:0
1130	0	48	19:35:04.266	488EO6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,392,542:05:0
1131	0	49	01:07:02.200	488EP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,392,870:34:0
1132	0	49	01:21:58.200	488EP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,392,885:13:0
1133	0	49	02:11:27.533	488EP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,392,934:08:0
1134	0	49	02:50:06.200	488EP6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,392,972:28:0
1135	0	49	09:24:05.533	488EQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,393,361:88:0
1136	0	49	09:56:05.533	488EQ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,393,393:56:0
1137	0	49	10:11:01.533	488EQ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,393,408:35:0
1138	0	49	10:47:17.533	488EQ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,393,444:23:0
1139	0	49	11:11:29.533	488EQ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,393,468:17:0
1140	0	49	11:50:08.200	488ER6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,393,506:37:0
1141	0	49	15:53:00.200	488ER6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,393,746:55:0
1142	0	49	15:55:25.533	176QH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,393,749:00:0
1143	0	49	20:23:17.533	488ES6A	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	2O0	4	0	5,394,013:84:0
1144	0	49	21:01:00.200	488ES6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,394,051:20:0
1145	0	49	21:01:47.533	176QJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,394,052:00:0
1146	0	49	21:08:05.533	488ES6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,394,058:21:0
1147	0	49	21:25:09.533	488ES6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,394,075:10:0
1148	0	49	22:16:32.200	488ES6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,394,125:84:0
1149	0	49	23:20:11.533	488ET6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,394,188:80:0
1150	0	50	03:54:19.533	176SB6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	2O0	4	0	5,394,460:00:0
1151	0	50	04:08:21.533	488ET6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,394,473:80:0
1152	0	50	04:40:06.866	488ET6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,394,505:26:0
1153	0	50	04:42:29.533	488ET6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,394,507:58:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	0	50	04:57:25.533	488ET6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,394,522:37:0	
1155	0	50	10:06:46.800	488EU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,394,828:33:0	
1156	0	50	10:51:34.133	488EU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,394,872:60:0	
1157	0	50	11:31:35.466	488EU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,394,912:22:0	
1158	0	50	12:00:38.133	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,394,940:88:0	
1159	0	50	12:00:38.800	432MC6A	6RTSL1		R/T Select of DDS and	2O0	4	0	5,394,940:89:0	
1160	0	50	12:05:14.133	488EU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,394,945:47:0	
1161	0	50	15:31:46.133	488EU6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,395,149:71:0	
1162	0	50	15:41:41.466	488EV6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,395,159:54:0	
1163	0	50	16:07:22.800	465WA6A	6DMST	5000	DMS Slew to TIC	2O0	4	0	5,395,185:00:0	
1164	0	50	16:07:22.800		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,185:00:0	
1165	0	50	16:07:22.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,185:00:0	
1166	0	50	16:07:22.800		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,185:00:0	
1167	0	50	16:07:29.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,185:10:0	
1168	0	50	16:07:30.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	2O0	4	0	5,395,185:12:1	
1169	0	50	21:48:31.600		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *4997.94 +/-	2O0	4	0	5,395,522:36:2	
1170	0	50	21:48:32.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	2O0	4	0	5,395,522:38:0	
1171	0	50	22:01:04.133	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,395,534:73:0	
1172	0	50	22:01:04.133		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	2O0	4	0	5,395,534:73:0	
1173	0	50	22:01:05.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	2O0	4	0	5,395,534:75:1	
1174	0	50	22:01:10.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	2O0	4	0	5,395,534:83:0	
1175	0	50	22:01:12.000		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	2O0	4	0	5,395,534:84:8	
1176	0	50	22:01:15.866		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	2O0	4	0	5,395,534:90:6	
1177	0	50	22:01:15.866		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	2O0	4	0	5,395,534:90:6	
1178	0	50	22:18:36.800	488EW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,395,552:14:0	
1179	0	50	22:26:56.133		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 255.79 +/-	2O0	4	0	5,395,560:35:0	
1180	0	50	22:26:56.133	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	2O0	4	0	5,395,560:35:0	
1181	0	50	22:26:57.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	2O0	4	0	5,395,560:36:8	
1182	0	51	00:25:44.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	2O0	4	0	5,395,677:81:0	
1183	0	51	00:25:44.800	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	2O0	4	0	5,395,677:81:0	
1184	0	51	00:25:44.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	2O0	4	0	5,395,677:81:0	
1185	0	51	00:25:46.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	2O0	4	0	5,395,677:83:1	
1186	0	51	00:25:51.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	2O0	4	0	5,395,678:00:0	
1187	0	51	00:25:52.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	2O0	4	0	5,395,678:01:8	
1188	0	51	00:25:54.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	2O0	4	0	5,395,678:03:9	
1189	0	51	00:29:09.466	488EW6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,395,681:24:0	
1190	0	51	00:29:54.733		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2O0	4	0	5,395,682:00:9	
1191	0	51	00:29:55.933		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2O0	4	0	5,395,682:02:7	
1192	0	51	00:29:55.933		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2O0	4	0	5,395,682:02:7	
1193	0	51	00:29:57.333		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2O0	4	0	5,395,682:04:8	
1194	0	51	00:30:09.333		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2O0	4	0	5,395,682:22:8	
1195	0	51	00:30:10.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2O0	4	0	5,395,682:24:6	
1196	0	51	00:35:47.466	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,395,687:75:0	
1197	0	51	00:35:47.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,687:75:0	
1198	0	51	00:35:54.133		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,687:85:0	
1199	0	51	00:35:58.000		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	2O0	4	0	5,395,687:90:8	
1200	0	51	00:35:58.000		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	2O0	4	0	5,395,687:90:8	
1201	0	51	01:07:41.466		DMS:	**: *RUNDOWN**	P100, TRACK 1, FWD, TIC *6063.01 +/-	2O0	4	0	5,395,719:34:0	
1202	0	51	01:07:41.466	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	2O0	4	0	5,395,719:34:0	
1203	0	51	01:07:42.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	2O0	4	0	5,395,719:35:8	
1204	0	51	01:23:17.466	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,395,734:73:0	
1205	0	51	01:23:17.466		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	2O0	4	0	5,395,734:73:0	
1206	0	51	01:23:18.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	2O0	4	0	5,395,734:75:1	
1207	0	51	01:23:24.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	2O0	4	0	5,395,734:83:0	
1208	0	51	01:23:25.333		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	2O0	4	0	5,395,734:84:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	0	51	01:23:29.200		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	2O0	4	0	5,395,734:90:6	
1210	0	51	01:23:29.200		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	2O0	4	0	5,395,734:90:6	
1211	0	51	01:55:25.466	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,395,766:53:0	
1212	0	51	01:55:25.466		DMS:	**: *RUNDOWN**	P100, TRACK 2, REV, TIC * 164.96 +/-	2O0	4	0	5,395,766:53:0	
1213	0	51	01:55:26.666		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	2O0	4	0	5,395,766:54:8	
1214	0	51	01:55:30.533		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	2O0	4	0	5,395,766:60:6	
1215	0	51	01:55:30.533		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	2O0	4	0	5,395,766:60:6	
1216	0	51	02:17:25.466	488EW6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	2O0	4	0	5,395,788:31:0	
1217	0	51	02:27:26.133		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC *6062.38 +/-	2O0	4	0	5,395,798:22:0	
1218	0	51	02:27:26.133	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	2O0	4	0	5,395,798:22:0	
1219	0	51	02:27:27.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	2O0	4	0	5,395,798:23:8	
1220	0	51	02:42:09.466		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	2O0	4	0	5,395,812:73:0	
1221	0	51	02:42:09.466	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,395,812:73:0	
1222	0	51	02:42:10.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	2O0	4	0	5,395,812:75:1	
1223	0	51	02:42:16.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	2O0	4	0	5,395,812:83:0	
1224	0	51	02:42:17.333		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	2O0	4	0	5,395,812:84:8	
1225	0	51	02:42:21.200		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	2O0	4	0	5,395,812:90:6	
1226	0	51	02:42:21.200		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	2O0	4	0	5,395,812:90:6	
1227	0	51	03:14:16.800	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	2O0	4	0	5,395,844:52:0	
1228	0	51	03:14:16.800		DMS:	**: *RUNDOWN**	P100, TRACK 4, REV, TIC * 166.38 +/-	2O0	4	0	5,395,844:52:0	
1229	0	51	03:14:18.000		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	2O0	4	0	5,395,844:53:8	
1230	0	51	03:14:21.866		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	2O0	4	0	5,395,844:59:6	
1231	0	51	03:14:21.866		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	2O0	4	0	5,395,844:59:6	
1232	0	51	03:15:22.800		DMS:	**: *RUNDOWN**	P100, TRACK 3, FWD, TIC * 358.52 +/-	2O0	4	0	5,395,845:60:0	
1233	0	51	03:15:22.800	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	2O0	4	0	5,395,845:60:0	
1234	0	51	03:15:24.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	2O0	4	0	5,395,845:61:8	
1235	0	51	03:15:59.466	488EW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,395,846:24:0	
1236	**0**	**51**	**03:29:51.466**	**432JZ6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2O0**	**4**	**0**	**5,395,859:89:0**	
1237	0	51	03:29:52.133	432JZ431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	5,395,859:90:0	
1238	0	51	03:29:52.800	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	2O0	4	0	5,395,860:00:0	
1239	**0**	**51**	**03:29:52.800**	**432JZ6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**2O0**	**4**	**0**	**5,395,860:00:0**	
1240	0	51	03:29:52.800	432JZ6C	6RTSL1		R/T Select of DDS and	2O0	4	0	5,395,860:00:0	
1241	0	51	03:29:52.800		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	2O0	4	0	5,395,860:00:0	
1242	0	51	03:30:46.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	2O0	4	0	5,395,860:81:0	
1243	0	51	03:30:46.800		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	2O0	4	0	5,395,860:81:0	
1244	0	51	03:30:46.800	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	2O0	4	0	5,395,860:81:0	
1245	0	51	03:30:48.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	2O0	4	0	5,395,860:83:1	
1246	0	51	03:30:53.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	2O0	4	0	5,395,861:00:0	
1247	0	51	03:30:54.666		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	2O0	4	0	5,395,861:01:8	
1248	0	51	03:30:56.066		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	2O0	4	0	5,395,861:03:9	
1249	0	51	03:31:56.800	20PA6A	6HICON			2O0	4	0	5,395,862:04:0	
1250	0	51	03:42:21.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2O0	4	0	5,395,872:31:6	
1251	0	51	03:42:23.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2O0	4	0	5,395,872:33:4	
1252	0	51	03:42:23.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2O0	4	0	5,395,872:33:4	
1253	0	51	03:42:24.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2O0	4	0	5,395,872:35:5	
1254	0	51	03:42:36.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2O0	4	0	5,395,872:53:5	
1255	0	51	03:42:37.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2O0	4	0	5,395,872:55:3	
1256	**0**	**51**	**04:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1257	**0**	**51**	**04:00:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1258	**0**	**51**	**04:00:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1259	**0**	**51**	**04:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1260	**0**	**51**	**04:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1261	**0**	**51**	**04:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1262	**0**	**51**	**04:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1263	**0**	**51**	**04:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,395,889:71:8**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	**0**	**51**	**04:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**5,395,889:71:8**	
1265	0	51	04:00:00.133		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,395,889:72:0	

26INHSLOKI01

OAPEL:	26INHSLOKI01	ALIAS:	26INHSLOKI01
EXT:	A	PSID:	DA
SCLK1:	05329386:87:0	SCLK2:	05329393:48:0
SCET1:	00-004/11:18:17.133	SCET2:	00-004/11:24:56.466
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:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

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

NIMS E26 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E26 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.)
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.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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26INHSLOKI0126INHSLOKI01ADA05329386:87:005329393:48:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  00-004/11:18:17.133  00-004/11:24:56.466
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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