Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS E14 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 E14 Sequence. The information in this summary is derived from the E14 SEFs (Spacecraft Event File) and PBTs (Playback Tables) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are twelve columns of information in this table:

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

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

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

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS E14 data. It is also derived from the E14 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: E14A-AR Created: 05/07/98 Begin: 98-087/13:00:00 Finish: 98-090/02:15:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	98	87	12:59:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	4,408,045:22:0	
2	98	87	13:00:00.000	20A3EW	37A	Initial Condition	NIMS Power ON	2O0	4	0	4,408,045:22:3	
3	98	87	13:00:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	2O0	4	0	4,408,045:22:3	
4	98	87	13:00:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	2O0	4	0	4,408,045:22:3	
5	98	87	13:00:00.000	20A3FF	40T2	Initial Condition	PCT Heater 2 ON	2O0	4	0	4,408,045:22:3	
6	98	87	13:00:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	2O0	4	0	4,408,045:22:3	
7	98	87	13:00:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	2O0	4	0	4,408,045:22:3	
8	98	87	13:00:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	2O0	4	0	4,408,045:22:3	
9	98	87	13:00:00.000	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	2O0	4	0	4,408,045:22:3	
10	98	87	13:00:00.000	20A3FE	40T1P	Initial Condition	PCT Heater 1 ON (primary relay)	2O0	4	0	4,408,045:22:3	
11	98	87	13:00:44.466	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2O0	4	0	4,408,045:89:0	
12	98	87	13:00:45.133	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	4,408,045:90:0	
13	98	87	13:00:45.800	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	2O0	4	0	4,408,046:00:0	
14	98	87	13:00:45.800	432JA6C	6RTSL1		R/T Select of DDS and	2O0	4	0	4,408,046:00:0	
15	98	87	13:00:59.800	20OA6A	6HICON			2O0	4	0	4,408,046:21:0	
16	98	87	13:02:16.466	488AA6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	4,408,047:45:0	
17	98	87	13:03:59.800	20AC4A	7SCAN	NORM,233.8,-20.9	Check S/P Position	2O0	4	0	4,408,049:18:0	
18	98	87	13:21:28.466	488AA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,408,066:44:0	
19	98	87	13:26:01.800	165CA4A	7SCAN	NORM,233.799999,	Check S/P Position	2O0	4	0	4,408,070:90:0	
20	98	87	13:30:03.800	165CA4B	7VECT		Inert vect update UTC	2O0	4	0	4,408,074:89:0	
21	98	87	13:41:59.800	41AA99A	POWER	PWR MODE change	Change to Data Taking Mode	2O0	4	0	4,408,086:71:0	
22	98	87	13:42:03.800	41AA3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	2O0	4	0	4,408,086:77:0	
23	98	87	13:42:13.800	41AA3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	2O0	4	0	4,408,087:01:0	
24	98	87	13:42:23.800	41AA3C	40T2R	1	PCT Heater 2 OFF	2O0	4	0	4,408,087:16:0	
25	98	87	13:42:33.800	41AA3D	40T2R	2	PCT Heater 2 OFF	2O0	4	0	4,408,087:31:0	
26	98	87	14:15:31.800	165CA4C	7VECT		Inert vect update UTC	2O0	4	0	4,408,119:86:0	
27	98	87	14:15:36.466	488AA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,408,120:02:0	
28	98	87	14:49:15.133	488AA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	4,408,153:27:0	
29	98	87	15:04:06.466	165CB4A	7SCAN	NORM,231.435999,	Check S/P Position	2O0	4	0	4,408,167:90:0	
30	98	87	15:05:06.466	165CB4B	7VECT		Inert vect update UTC	2O0	4	0	4,408,168:89:0	
31	98	87	15:38:29.133	165CC4A	7SCAN	NORM,230.91,-20.	Check S/P Position	2O0	4	0	4,408,201:90:0	
32	98	87	15:39:29.133	165CC4B	7VECT		Inert vect update UTC	2O0	4	0	4,408,202:89:0	
33	98	87	17:31:44.466	465KA6A	6DMST	5800	DMS Slew to TIC	2O0	4	0	4,408,314:00:0	
34	98	87	17:31:44.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	4,408,314:00:0	
35	98	87	17:31:44.466		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	4,408,314:00:0	
36	98	87	17:31:44.466		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	4,408,314:00:0	
37	98	87	17:31:51.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	4,408,314:10:0	
38	98	87	17:31:52.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	2O0	4	0	4,408,314:12:1	
39	98	87	18:20:13.800	176DA6A	6TMREC	NRC	NO RECORD Record Mode Change	2O0	4	0	4,408,361:87:0	
40	98	87	18:20:20.400	14NNJUPRTS01-		-----START------		2O0	4	0	: :	
41	98	87	18:21:21.133	20DA5A	37PL		Program Load (halts microprocessor & unwri	260	4	0	4,408,363:06:0	
42	98	87	18:21:22.466	20DA5B	37MRL		Memory Realocate (software operates from R	260	4	0	4,408,363:08:0	
43	98	87	18:21:23.800	20DA6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	260	4	0	4,408,363:10:0	
44	98	87	18:21:33.800	20DA6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	260	4	0	4,408,363:25:0	
45	98	87	18:21:43.800	20DA5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,408,363:40:0	
46	98	87	18:22:03.800	20DA5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,408,363:70:0	
47	98	87	18:22:26.466	20DA4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,408,364:13:0	
48	98	87	18:23:27.133	20DA4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,408,365:13:0	
49	98	87	18:24:18.466	165DA4A	7SCAN	NORM,277.432999,	Check S/P Position	2R3	4	0	4,408,365:90:0	
50	98	87	18:24:23.067	14NNJUPRTS01-		-----STOP-------		2R3	4	0	: :	
51	98	87	18:28:17.133	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,408,369:84:0	
52	98	87	18:28:17.133	127DA4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,408,369:84:0	
53	98	87	18:28:17.800	127DA4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	4,408,369:85:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	**98**	**87**	**18:28:25.734**	**14JNJUPRTS01***		**-----START------**		**2R3**	**4**	**0**	**: :**
55	98	87	18:28:25.800	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,408,370:06:0
56	98	87	18:29:17.800	125DA	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,408,370:84:0
57	**98**	**87**	**18:29:17.800**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,408,370:84:0**
58	98	87	18:30:18.466	125DA11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,408,371:84:0
59	**98**	**87**	**18:30:18.466**	**125DA4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,408,371:84:0**
60	**98**	**87**	**18:33:45.133**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R3**	**4**	**0**	**4,408,375:30:0**
61	98	87	18:34:16.466	117DA	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,408,375:77:0
62	98	87	18:34:24.466	165DA4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,375:89:0
63	98	87	18:34:25.800	117DA105A106A4A	**7STRP**	**-0.036016,0.0,0,**	**Slew =,0.06**	2R3	4	0	4,408,376:00:0
64	**98**	**87**	**18:43:50.466**	**432DZ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R3**	**4**	**0**	**4,408,385:28:0**
65	98	87	18:44:32.466	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,408,386:00:0
66	**98**	**87**	**18:44:36.400**	**14JNJUPRTS01***		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
67	98	87	19:38:07.133	165CE4A	7SCAN	NORM,300.045998,	Check S/P Position	2R3	4	0	4,408,438:90:0
68	98	87	19:42:09.133	165CE4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,442:89:0
69	98	87	19:50:35.133	488AB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	4,408,451:29:0
70	98	87	20:24:14.466	488AB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	4,408,484:55:0
71	98	87	20:25:35.800	165CE4C	7VECT		Inert vect update UTC	2R3	4	0	4,408,485:86:0
72	98	87	21:12:09.066	165CF4A	7SCAN	NORM,302.223999,	Check S/P Position	2R3	4	0	4,408,531:90:0
73	98	87	21:13:09.066	165CF4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,532:89:0
74	98	87	21:58:07.066	165CF4C	7VECT		Inert vect update UTC	2R3	4	0	4,408,577:41:0
75	98	87	22:43:09.066	165CG4A	7SCAN	NORM,302.421997,	Check S/P Position	2R3	4	0	4,408,621:90:0
76	98	87	22:44:09.066	165CG4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,622:89:0
77	98	87	23:13:29.066	165CH4A	7SCAN	NORM,303.966,-19	Check S/P Position	2R3	4	0	4,408,651:90:0
78	98	87	23:14:29.066	165CH4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,652:89:0
79	98	87	23:43:49.066	165CI4A	7SCAN	NORM,309.210999,	Check S/P Position	2R3	4	0	4,408,681:90:0
80	98	87	23:44:49.066	165CI4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,682:89:0
81	98	87	23:59:27.066	165CI4C	7VECT		Inert vect update UTC	2R3	4	0	4,408,697:41:0
82	98	87	23:59:59.733	481UA4A	7VECT		Inert vect update UTC	2R3	4	0	4,408,697:90:0
83	98	88	00:09:46.533		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC *5797.94 +/-	2R3	4	0	4,408,707:60:2
84	98	88	00:09:47.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5798.00 +/-	2R3	4	0	4,408,707:62:0
85	98	88	00:14:09.733		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5798.00 +/-	2R3	4	0	4,408,712:00:0
86	98	88	00:14:09.733	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	2R3	4	0	4,408,712:00:0
87	98	88	00:33:47.733	165IK4A	7SCAN	NORM,303.160999,	Check S/P Position	2R3	4	0	4,408,731:38:0
88	98	88	00:37:39.733	175IK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,408,735:22:0
89	98	88	00:37:39.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5798.00 +/-	2R3	4	0	4,408,735:22:0
90	98	88	00:37:41.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5798.12 +/-	2R3	4	0	4,408,735:24:1
91	98	88	00:37:46.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5799.35 +/-	2R3	4	0	4,408,735:32:0
92	98	88	00:37:47.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5799.41 +/-	2R3	4	0	4,408,735:33:8
93	98	88	00:37:49.733	165IK4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,735:37:0
94	98	88	00:37:52.400	175IK176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,408,735:41:0
95	98	88	00:37:52.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5733.41 +/-	2R3	4	0	4,408,735:41:7
96	98	88	00:37:52.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5733.41 +/-	2R3	4	0	4,408,735:41:7
97	98	88	00:38:26.400	118IK	**SMOS**	GS		2R3	4	0	4,408,736:01:0
98	98	88	00:38:36.400	118IK110A111A4A	7STRP	0.0,0.0065,156,0	Slew =,3.91	2R3	4	0	4,408,736:16:0
99	98	88	00:39:28.400	118IK11A	**SMOS**	GE		2R3	4	0	4,408,737:03:0
100	98	88	00:39:35.066	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,408,737:13:0
101	98	88	00:39:35.066		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *3218.34 +/-	2R3	4	0	4,408,737:13:0
102	98	88	00:39:37.800		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3206.84 +/-	2R3	4	0	4,408,737:17:1
103	98	88	02:58:57.733	165IL4A	7SCAN	NORM,303.109997,	Check S/P Position	2R3	4	0	4,408,874:90:0
104	98	88	03:02:49.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3206.84 +/-	2R3	4	0	4,408,878:74:0
105	98	88	03:02:49.733	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,408,878:74:0
106	98	88	03:02:51.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3206.96 +/-	2R3	4	0	4,408,878:76:1
107	98	88	03:02:56.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3208.19 +/-	2R3	4	0	4,408,878:84:0
108	98	88	03:02:57.600		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *3208.25 +/-	2R3	4	0	4,408,878:85:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	98	88	03:02:59.733	165IL4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,878:89:0	
110	98	88	03:03:02.400	175IL176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,408,879:02:0	
111	98	88	03:03:02.866		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *3142.25 +/-	2R3	4	0	4,408,879:02:7	
112	98	88	03:03:02.866		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 3142.25 +/-	2R3	4	0	4,408,879:02:7	
113	98	88	03:03:09.733	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,408,879:13:0	
114	98	88	03:03:09.733		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *2973.27 +/-	2R3	4	0	4,408,879:13:0	
115	98	88	03:03:12.466		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2961.77 +/-	2R3	4	0	4,408,879:17:1	
116	98	88	03:19:52.400	488AC6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,408,895:61:0	
117	98	88	03:51:32.400	165GB4A	7SCAN	NORM,303.865997,	Check S/P Position	2R3	4	0	4,408,926:90:0	
118	98	88	03:56:36.400	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,408,932:00:0	
119	98	88	03:57:27.733	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,408,932:77:0	
120	98	88	03:57:37.066	117GB105A106A4A	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,933:00:0	
121	98	88	03:59:11.733	117GB105A106A4B	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,934:51:0	
122	98	88	03:59:26.400	117GB105A106A4C	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,934:73:0	
123	98	88	04:01:01.066	117GB105A106A4D	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,936:33:0	
124	98	88	04:01:15.733	117GB105A106A4E	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,936:55:0	
125	98	88	04:02:50.400	117GB105A106A4F	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,938:15:0	
126	98	88	04:03:05.066	117GB105A106A4G	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,938:37:0	
127	98	88	04:04:39.733	117GB105A106A4H	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,939:88:0	
128	98	88	04:04:54.400	117GB105A106A4I	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,940:19:0	
129	98	88	04:06:29.066	117GB105A106A4J	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,941:70:0	
130	98	88	04:06:43.733	117GB105A106A4K	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,942:01:0	
131	98	88	04:08:18.400	117GB105A106A4L	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,943:52:0	
132	98	88	04:08:33.066	117GB105A106A4M	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,943:74:0	
133	98	88	04:10:07.733	117GB105A106A4N	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,945:34:0	
134	98	88	04:10:22.400	117GB105A106A4O	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,945:56:0	
135	98	88	04:10:30.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2961.77 +/-	2R3	4	0	4,408,945:68:0	
136	98	88	04:10:30.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,408,945:68:0	
137	98	88	04:10:31.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2961.89 +/-	2R3	4	0	4,408,945:70:1	
138	98	88	04:10:37.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2963.12 +/-	2R3	4	0	4,408,945:78:0	
139	98	88	04:10:38.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2963.18 +/-	2R3	4	0	4,408,945:79:8	
140	98	88	04:10:39.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2963.06 +/-	2R3	4	0	4,408,945:81:9	
141	98	88	04:10:58.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2958.67 +/-	2R3	4	0	4,408,946:19:0	
142	98	88	04:11:21.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2953.36 +/-	2R3	4	0	4,408,946:53:0	
143	98	88	04:11:21.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,408,946:53:0	
144	98	88	04:11:22.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2953.30 +/-	2R3	4	0	4,408,946:54:8	
145	98	88	04:11:57.066	117GB105A106A4P	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,947:16:0	
146	98	88	04:12:11.733	117GB105A106A4Q	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,947:38:0	
147	98	88	04:13:46.400	117GB105A106A4R	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,948:89:0	
148	98	88	04:14:01.066	117GB105A106A4S	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,949:20:0	
149	98	88	04:15:35.733	117GB105A106A4T	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,950:71:0	
150	98	88	04:15:50.400	117GB105A106A4U	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,951:02:0	
151	98	88	04:17:25.066	117GB105A106A4V	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,952:53:0	
152	98	88	04:17:39.733	117GB105A106A4W	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,952:75:0	
153	98	88	04:19:14.400	117GB105A106A4X	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,954:35:0	
154	98	88	04:19:29.066	117GB105A106A4Y	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,954:57:0	
155	98	88	04:21:03.733	117GB105A106A4Z	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,956:17:0	
156	98	88	04:21:18.400	117GB105A106A4AA	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,956:39:0	
157	98	88	04:22:53.066	117GB105A106A4AB	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,957:90:0	
158	98	88	04:23:07.733	117GB105A106A4AC	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,958:21:0	
159	98	88	04:24:42.400	117GB105A106A4AD	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,959:72:0	
160	98	88	04:24:54.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2953.30 +/-	2R3	4	0	4,408,959:90:0	
161	98	88	04:24:54.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,408,959:90:0	
162	98	88	04:24:55.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2953.42 +/-	2R3	4	0	4,408,960:01:1	
163	98	88	04:24:57.066	117GB105A106A4AE	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,960:03:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	88	04:25:01.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2954.65 +/-	2R3	4	0	4,408,960:09:0	
165	98	88	04:25:02.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2954.71 +/-	2R3	4	0	4,408,960:10:8	
166	98	88	04:25:03.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2954.59 +/-	2R3	4	0	4,408,960:12:9	
167	98	88	04:25:22.400		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2950.20 +/-	2R3	4	0	4,408,960:41:0	
168	98	88	04:25:45.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,408,960:75:0	
169	98	88	04:25:45.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2944.89 +/-	2R3	4	0	4,408,960:75:0	
170	98	88	04:25:46.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2944.83 +/-	2R3	4	0	4,408,960:76:8	
171	98	88	04:26:31.733	117GB105A106A4AF	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,961:54:0	
172	98	88	04:26:46.400	117GB105A106A4AG	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,961:76:0	
173	98	88	04:28:21.066	117GB105A106A4AH	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,963:36:0	
174	98	88	04:28:35.733	117GB105A106A4AI	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,963:58:0	
175	98	88	04:30:10.400	117GB105A106A4AJ	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,965:18:0	
176	98	88	04:30:25.066	117GB105A106A4AK	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,965:40:0	
177	98	88	04:31:59.733	117GB105A106A4AL	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,967:00:0	
178	98	88	04:32:14.400	117GB105A106A4AM	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,967:22:0	
179	98	88	04:33:49.066	117GB105A106A4AN	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,968:73:0	
180	98	88	04:34:03.733	117GB105A106A4AO	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,969:04:0	
181	98	88	04:35:38.400	117GB105A106A4AP	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,970:55:0	
182	98	88	04:35:53.066	117GB105A106A4AQ	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,970:77:0	
183	98	88	04:37:27.733	117GB105A106A4AR	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,972:37:0	
184	98	88	04:37:42.400	117GB105A106A4AS	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,972:59:0	
185	98	88	04:39:17.066	117GB105A106A4AT	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,974:19:0	
186	98	88	04:39:19.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,408,974:22:0	
187	98	88	04:39:19.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2944.83 +/-	2R3	4	0	4,408,974:22:0	
188	98	88	04:39:20.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2944.95 +/-	2R3	4	0	4,408,974:24:1	
189	98	88	04:39:25.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2946.18 +/-	2R3	4	0	4,408,974:32:0	
190	98	88	04:39:26.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2946.24 +/-	2R3	4	0	4,408,974:33:8	
191	98	88	04:39:28.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2946.12 +/-	2R3	4	0	4,408,974:35:9	
192	98	88	04:39:31.733	117GB105A106A4AU	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,974:41:0	
193	98	88	04:39:47.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2941.73 +/-	2R3	4	0	4,408,974:64:0	
194	98	88	04:40:09.733	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,408,975:07:0	
195	98	88	04:40:09.733		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2936.42 +/-	2R3	4	0	4,408,975:07:0	
196	98	88	04:40:10.933		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2936.36 +/-	2R3	4	0	4,408,975:08:8	
197	98	88	04:41:06.400	117GB105A106A4AV	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,976:01:0	
198	98	88	04:41:21.066	117GB105A106A4AW	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,976:23:0	
199	**98**	**88**	**04:42:10.400**	**14NNHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
200	98	88	04:42:55.733	117GB105A106A4AX	7STRP	0.00063,-0.00068	Slew =17.01	2R3	4	0	4,408,977:74:0	
201	98	88	04:43:10.400	117GB105A106A4AY	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R3	4	0	4,408,978:05:0	
202	**98**	**88**	**04:43:11.066**	**20DB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,408,978:06:0**	
203	**98**	**88**	**04:43:12.400**	**20DB5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,408,978:08:0**	
204	**98**	**88**	**04:43:13.733**	**20DB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,408,978:10:0**	
205	**98**	**88**	**04:43:23.733**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,408,978:25:0**	
206	**98**	**88**	**04:43:33.733**	**20DB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,408,978:40:0**	
207	**98**	**88**	**04:43:53.733**	**20DB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,408,978:70:0**	
208	**98**	**88**	**04:44:16.400**	**20DB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,408,979:13:0**	
209	98	88	04:44:45.066	117GB105A106A4AZ	7STRP	0.00063,-0.00068	Slew =17.01	2R0	4	0	4,408,979:56:0	
210	98	88	04:44:59.733	117GB105A106A4BA	7STRP	-0.021003,0.0,0,	Slew =,0.23	2R0	4	0	4,408,979:78:0	
211	98	88	04:45:11.733	488AC6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R0	4	0	4,408,980:05:0	
212	**98**	**88**	**04:45:17.066**	**20DB4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,408,980:13:0**	
213	**98**	**88**	**04:46:13.067**	**14NNHRSPEC01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
214	**98**	**88**	**04:46:13.067**	**14INHRSPEC01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
215	98	88	04:46:34.400	117GB105A106B4A	7STRP	-0.004,0.0,0,0,0	Slew =17.01	2R3	4	0	4,408,981:38:0	
216	98	88	04:46:47.066	117GB105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.23	2R3	4	0	4,408,981:57:0	
217	98	88	04:47:05.066	125DB	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,408,981:84:0	
218	**98**	**88**	**04:47:05.066**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,408,981:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
219	98	88	04:47:47.733	117GB11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,408,982:57:0
220	98	88	04:48:05.733	125DB4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	4,408,982:84:0
221	98	88	04:48:05.733	125DB11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,408,982:84:0
222	98	88	04:48:09.733	165DB4A	7SCAN	NORM,304.907997,	Check S/P Position	2R3	4	0	4,408,982:90:0
223	98	88	04:48:10.400	176GB6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	4,408,983:00:0
224	98	88	04:48:12.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,408,983:03:0
225	98	88	04:48:12.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2936.36 +/-	2R3	4	0	4,408,983:03:0
226	98	88	04:48:13.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2936.48 +/-	2R3	4	0	4,408,983:05:1
227	98	88	04:48:19.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2937.71 +/-	2R3	4	0	4,408,983:13:0
228	98	88	04:48:20.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2937.77 +/-	2R3	4	0	4,408,983:14:8
229	98	88	04:48:21.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2937.65 +/-	2R3	4	0	4,408,983:16:9
230	98	88	04:48:22.400		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *2937.48 +/-	2R3	4	0	4,408,983:18:0
231	98	88	04:48:39.066		DMS:	: *RUNDOWN	R7, TRACK 2, REV, TIC *2933.58 +/-	2R3	4	0	4,408,983:43:0
232	98	88	04:48:39.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,408,983:43:0
233	98	88	04:48:40.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2933.52 +/-	2R3	4	0	4,408,983:44:8
234	98	88	04:50:07.066	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,408,984:84:0
235	98	88	04:50:07.066	127DB4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,408,984:84:0
236	98	88	04:50:07.733	127DB4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	4,408,984:85:0
237	98	88	04:50:15.733	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,408,985:06:0
238	98	88	04:51:58.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2933.52 +/-	2R3	4	0	4,408,986:69:0
239	98	88	04:51:58.400	175DB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	4,408,986:69:0
240	98	88	04:51:59.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2933.64 +/-	2R3	4	0	4,408,986:71:1
241	98	88	04:52:03.733	117DB	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,408,986:77:0
242	98	88	04:52:05.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2934.87 +/-	2R3	4	0	4,408,986:79:0
243	98	88	04:52:06.266		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *2934.93 +/-	2R3	4	0	4,408,986:80:8
244	98	88	04:52:09.733	175DB176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,408,986:86:0
245	98	88	04:52:10.266		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 2933.43 +/- 1	2R3	4	0	4,408,986:86:8
246	98	88	04:52:10.266		DMS:	: *RECORD	R28, TRACK 2, REV, TIC *2933.43 +/-	2R3	4	0	4,408,986:86:8
247	98	88	04:52:11.733	165DB4B	7VECT		Inert vect update UTC	2R3	4	0	4,408,986:89:0
248	98	88	04:52:13.066	14INHRSPEC01-	NIMPBK	301DA	IO MONITORING AT HIGH SPECTRAL R	2R3	4	0	: :
249	98	88	04:52:13.066	117DB105A106A4A	7STRP	-0.014351,0.0,0,	Slew =,0.03	2R3	4	0	4,408,987:00:0
250	98	88	04:52:13.066	14INHRSPEC01-	NIMPBK	301EA	IO MONITORING AT HIGH SPECTRAL R	2R3	4	0	: :
251	98	88	04:59:30.400	488AC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,408,994:19:0
252	98	88	05:00:13.733	14INHRSPEC01-	DESELC	300EA	IO MONITORING AT HIGH SPECTRAL R	2R3	4	0	: :
253	98	88	05:00:13.733	14INHRSPEC01-	DESELC	300DA	IO MONITORING AT HIGH SPECTRAL R	2R3	4	0	: :
254	98	88	05:00:13.733	117DB105A106A4B	7STRP	0.014301,-0.0065	Slew =12.01	2R3	4	0	4,408,994:84:0
255	98	88	05:00:18.400	14INHRSPEC01-	NIMPBK	301EB	IO MONITORING AT HIGH SPECTRAL R	2R3	4	0	: :
256	98	88	05:00:21.733	117DB105A106A4C	7STRP	-0.014351,0.0,0,	Slew =,0.03	2R3	4	0	4,408,995:05:0
257	98	88	05:08:22.400	117DB11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,409,002:89:0
258	98	88	05:08:22.400	14INHRSPEC01-	DESELC	300EB	IO MONITORING AT HIGH SPECTRAL R	2R3	4	0	: :
259	98	88	05:10:46.400		DMS:	: *RUNDOWN	R28, TRACK 2, REV, TIC *1952.45 +/- 1	2R3	4	0	4,409,005:32:0
260	98	88	05:10:46.400	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,005:32:0
261	98	88	05:10:47.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1952.15 +/- 1	2R3	4	0	4,409,005:33:8
262	98	88	05:11:29.733	14INHRSPEC01-		-----STOP-------		2R3	4	0	: :
263	98	88	05:26:49.733	488AC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,409,021:21:0
264	98	88	06:17:48.400	488AC6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,409,071:59:0
265	98	88	06:38:27.733	488AD6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,409,092:07:0
266	98	88	07:30:31.733	488AD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,409,143:52:0
267	98	88	11:02:16.400	165GC4A	7SCAN	NORM,236.393999,	Check S/P Position	2R3	4	0	4,409,352:90:0
268	98	88	11:09:21.733	176GC6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,409,360:00:0
269	98	88	11:10:13.066	117GC	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,409,360:77:0
270	98	88	11:10:22.400	117GC105A106A4A	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,361:00:0
271	98	88	11:11:26.400	117GC105A106A4B	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,362:05:0
272	98	88	11:11:39.066	117GC105A106A4C	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,362:24:0
273	98	88	11:12:43.066	117GC105A106A4D	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,363:29:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	98	88	11:12:55.733	117GC105A106A4E	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,363:48:0
275	98	88	11:13:59.733	117GC105A106A4F	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,364:53:0
276	98	88	11:14:12.400	117GC105A106A4G	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,364:72:0
277	98	88	11:15:16.400	117GC105A106A4H	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,365:77:0
278	98	88	11:15:29.066	117GC105A106A4I	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,366:05:0
279	98	88	11:16:33.066	117GC105A106A4J	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,367:10:0
280	98	88	11:16:45.733	117GC105A106A4K	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,367:29:0
281	98	88	11:17:49.733	117GC105A106A4L	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,368:34:0
282	98	88	11:18:02.400	117GC105A106A4M	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,368:53:0
283	98	88	11:19:06.400	117GC105A106A4N	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,369:58:0
284	98	88	11:19:19.066	117GC105A106A4O	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,369:77:0
285	98	88	11:20:23.066	117GC105A106A4P	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,370:82:0
286	98	88	11:20:35.733	117GC105A106A4Q	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,371:10:0
287	98	88	11:21:39.733	117GC105A106A4R	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,372:15:0
288	98	88	11:21:52.400	117GC105A106A4S	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,372:34:0
289	98	88	11:21:56.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,409,372:40:0
290	98	88	11:21:56.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1952.15 +/- 1	2R3	4	0	4,409,372:40:0
291	98	88	11:21:57.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1952.27 +/- 1	2R3	4	0	4,409,372:42:1
292	98	88	11:22:03.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1953.51 +/- 1	2R3	4	0	4,409,372:50:0
293	98	88	11:22:04.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1953.57 +/- 1	2R3	4	0	4,409,372:51:8
294	98	88	11:22:05.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1953.45 +/- 1	2R3	4	0	4,409,372:53:9
295	98	88	11:22:21.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1949.68 +/- 1	2R3	4	0	4,409,372:78:0
296	98	88	11:22:44.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,373:21:0
297	98	88	11:22:44.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1944.37 +/- 1	2R3	4	0	4,409,373:21:0
298	98	88	11:22:45.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1944.31 +/- 1	2R3	4	0	4,409,373:22:8
299	98	88	11:22:56.400	117GC105A106A4T	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,373:39:0
300	98	88	11:23:09.066	117GC105A106A4U	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,373:58:0
301	98	88	11:24:13.066	117GC105A106A4V	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,374:63:0
302	98	88	11:24:25.733	117GC105A106A4W	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,374:82:0
303	98	88	11:25:29.733	117GC105A106A4X	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,375:87:0
304	98	88	11:25:42.400	117GC105A106A4Y	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,376:15:0
305	98	88	11:26:46.400	117GC105A106A4Z	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,377:20:0
306	98	88	11:26:59.066	117GC105A106A4AA	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,377:39:0
307	98	88	11:28:03.066	117GC105A106A4AB	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,378:44:0
308	98	88	11:28:15.733	117GC105A106A4AC	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,378:63:0
309	98	88	11:29:19.733	117GC105A106A4AD	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,379:68:0
310	98	88	11:29:32.400	117GC105A106A4AE	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,379:87:0
311	98	88	11:30:36.400	117GC105A106A4AF	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,381:01:0
312	98	88	11:30:49.066	117GC105A106A4AG	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,381:20:0
313	98	88	11:31:53.066	117GC105A106A4AH	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,382:25:0
314	98	88	11:32:05.733	117GC105A106A4AI	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,382:44:0
315	98	88	11:33:09.733	117GC105A106A4AJ	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,383:49:0
316	98	88	11:33:22.400	117GC105A106A4AK	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,383:68:0
317	98	88	11:34:26.400	117GC105A106A4AL	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,384:73:0
318	98	88	11:34:39.066	117GC105A106A4AM	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,385:01:0
319	98	88	11:34:58.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1944.31 +/- 1	2R3	4	0	4,409,385:30:0
320	98	88	11:34:58.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,409,385:30:0
321	98	88	11:34:59.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1944.43 +/- 1	2R3	4	0	4,409,385:32:1
322	98	88	11:35:05.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1945.66 +/- 1	2R3	4	0	4,409,385:40:0
323	98	88	11:35:06.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1945.72 +/- 1	2R3	4	0	4,409,385:41:8
324	98	88	11:35:07.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1945.60 +/- 1	2R3	4	0	4,409,385:43:9
325	98	88	11:35:23.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1941.84 +/- 1	2R3	4	0	4,409,385:68:0
326	98	88	11:35:43.066	117GC105A106A4AN	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,386:06:0
327	98	88	11:35:46.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1936.53 +/- 1	2R3	4	0	4,409,386:11:0
328	98	88	11:35:46.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,386:11:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	98	88	11:35:47.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1936.47 +/- 1	2R3	4	0	4,409,386:12:8	
330	98	88	11:35:55.733	117GC105A106A4AO	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,386:25:0	
331	98	88	11:36:59.733	117GC105A106A4AP	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,387:30:0	
332	98	88	11:37:12.400	117GC105A106A4AQ	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,387:49:0	
333	98	88	11:38:16.400	117GC105A106A4AR	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,388:54:0	
334	98	88	11:38:29.066	117GC105A106A4AS	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,388:73:0	
335	98	88	11:39:33.066	117GC105A106A4AT	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,389:78:0	
336	98	88	11:39:45.733	117GC105A106A4AU	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,390:06:0	
337	98	88	11:40:49.733	117GC105A106A4AV	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,391:11:0	
338	98	88	11:41:02.400	117GC105A106A4AW	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,391:30:0	
339	98	88	11:42:06.400	117GC105A106A4AX	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,392:35:0	
340	98	88	11:42:19.066	117GC105A106A4AY	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,392:54:0	
341	98	88	11:43:23.066	117GC105A106A4AZ	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,393:59:0	
342	98	88	11:43:35.733	117GC105A106A4BA	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,393:78:0	
343	98	88	11:44:39.733	117GC105A106A4BB	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,394:83:0	
344	98	88	11:44:52.400	117GC105A106A4BC	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,395:11:0	
345	98	88	11:45:56.400	117GC105A106A4BD	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,396:16:0	
346	98	88	11:46:09.066	117GC105A106A4BE	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,396:35:0	
347	98	88	11:47:13.066	117GC105A106A4BF	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,397:40:0	
348	98	88	11:47:25.733	117GC105A106A4BG	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,397:59:0	
349	98	88	11:48:00.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1936.47 +/- 1	2R3	4	0	4,409,398:20:0	
350	98	88	11:48:00.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,409,398:20:0	
351	98	88	11:48:01.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1936.59 +/- 1	2R3	4	0	4,409,398:22:1	
352	98	88	11:48:07.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1937.82 +/- 1	2R3	4	0	4,409,398:30:0	
353	98	88	11:48:08.266		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1937.88 +/- 1	2R3	4	0	4,409,398:31:8	
354	98	88	11:48:09.666		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1937.76 +/- 1	2R3	4	0	4,409,398:33:9	
355	98	88	11:48:25.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1934.00 +/- 1	2R3	4	0	4,409,398:58:0	
356	98	88	11:48:29.733	117GC105A106A4BH	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,398:64:0	
357	98	88	11:48:42.400	117GC105A106A4BI	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,398:83:0	
358	98	88	11:48:48.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1928.68 +/- 1	2R3	4	0	4,409,399:01:0	
359	98	88	11:48:48.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,399:01:0	
360	98	88	11:48:49.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1928.62 +/- 1	2R3	4	0	4,409,399:02:8	
361	98	88	11:49:46.400	117GC105A106A4BJ	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,399:88:0	
362	98	88	11:49:59.066	117GC105A106A4BK	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,400:16:0	
363	98	88	11:51:03.066	117GC105A106A4BL	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,401:21:0	
364	98	88	11:51:15.733	117GC105A106A4BM	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,401:40:0	
365	98	88	11:52:19.733	117GC105A106A4BN	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,402:45:0	
366	98	88	11:52:32.400	117GC105A106A4BO	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,402:64:0	
367	98	88	11:53:36.400	117GC105A106A4BP	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,403:69:0	
368	98	88	11:53:49.066	117GC105A106A4BQ	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,403:88:0	
369	98	88	11:54:53.066	117GC105A106A4BR	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,405:02:0	
370	98	88	11:55:05.733	117GC105A106A4BS	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,405:21:0	
371	98	88	11:56:09.733	117GC105A106A4BT	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,406:26:0	
372	98	88	11:56:22.400	117GC105A106A4BU	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,406:45:0	
373	98	88	11:57:26.400	117GC105A106A4BV	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,407:50:0	
374	98	88	11:57:39.066	117GC105A106A4BW	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,407:69:0	
375	98	88	11:58:43.066	117GC105A106A4BX	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,408:74:0	
376	98	88	11:58:55.733	117GC105A106A4BY	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,409:02:0	
377	**98**	**88**	**11:59:59.067**	**14NNICERAF01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
378	98	88	11:59:59.733	117GC105A106A4BZ	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,410:07:0	
379	98	88	12:00:12.400	117GC105A106A4CA	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R3	4	0	4,409,410:26:0	
380	**98**	**88**	**12:00:59.733**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,409,411:06:0**	
381	**98**	**88**	**12:01:01.066**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,409,411:08:0**	
382	**98**	**88**	**12:01:02.400**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,409,411:10:0**	
383	98	88	12:01:03.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,409,411:11:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	88	12:01:03.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1928.62 +/- 1	2R3	4	0	4,409,411:11:0	
385	98	88	12:01:04.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1928.74 +/- 1	2R3	4	0	4,409,411:13:1	
386	98	88	12:01:09.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1929.98 +/- 1	2R3	4	0	4,409,411:21:0	
387	98	88	12:01:10.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1930.04 +/- 1	2R3	4	0	4,409,411:22:8	
388	98	88	12:01:12.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1929.92 +/- 1	2R3	4	0	4,409,411:24:9	
389	**98**	**88**	**12:01:12.400**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,409,411:25:0**	
390	98	88	12:01:16.400	117GC105A106A4CB	7STRP	0.001,0.00092,0,	Slew =17.01	2R3	4	0	4,409,411:31:0	
391	**98**	**88**	**12:01:22.400**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,409,411:40:0**	
392	98	88	12:01:27.733		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1926.31 +/- 1	260	4	0	4,409,411:48:0	
393	98	88	12:01:29.066	117GC105A106A4CC	7STRP	-0.032011,0.0,0,	Slew =,0.53	260	4	0	4,409,411:50:0	
394	**98**	**88**	**12:01:42.400**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,409,411:70:0**	
395	98	88	12:01:50.400		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1921.00 +/- 1	260	4	0	4,409,411:82:0	
396	98	88	12:01:50.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	4,409,411:82:0	
397	98	88	12:01:51.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1920.94 +/- 1	260	4	0	4,409,411:83:8	
398	**98**	**88**	**12:02:05.066**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,409,412:13:0**	
399	98	88	12:02:33.066	117GC105A106A4CD	7STRP	0.001,0.00092,0,	Slew =17.01	2R0	4	0	4,409,412:55:0	
400	98	88	12:02:45.733	117GC105A106A4CE	7STRP	-0.032011,0.0,0,	Slew =,0.53	2R0	4	0	4,409,412:74:0	
401	**98**	**88**	**12:03:05.733**	**20DC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,409,413:13:0**	
402	98	88	12:03:49.733	117GC105A106B4A	7STRP	0.04503,0.0,0,0,	Slew =17.01	2R3	4	0	4,409,413:79:0	
403	98	88	12:04:00.400	117GC105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.53	2R3	4	0	4,409,414:04:0	
404	**98**	**88**	**12:04:01.734**	**14NNICERAF01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
405	98	88	12:05:03.066	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,409,415:07:0	
406	98	88	12:05:59.066	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,409,416:00:0	
407	98	88	12:06:01.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,409,416:03:0	
408	98	88	12:06:01.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1920.94 +/- 1	2R3	4	0	4,409,416:03:0	
409	98	88	12:06:02.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1921.06 +/- 1	2R3	4	0	4,409,416:05:1	
410	98	88	12:06:07.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1922.29 +/- 1	2R3	4	0	4,409,416:13:0	
411	98	88	12:06:08.933		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *1922.35 +/- 1	2R3	4	0	4,409,416:14:8	
412	98	88	12:06:10.333		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *1922.23 +/- 1	2R3	4	0	4,409,416:16:9	
413	98	88	12:06:11.066		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *1922.06 +/- 1	2R3	4	0	4,409,416:18:0	
414	98	88	12:06:25.066		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *1918.78 +/- 1	2R3	4	0	4,409,416:39:0	
415	98	88	12:06:25.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,416:39:0	
416	98	88	12:06:26.266		DMS:	: *READY	RDY, TRACK 2, REV, TIC *1918.72 +/- 1	2R3	4	0	4,409,416:40:8	
417	98	88	12:06:55.066	125DC	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,409,416:84:0	
418	**98**	**88**	**12:06:55.066**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,409,416:84:0**	
419	98	88	12:06:59.066	165DC4A	7SCAN	NORM,237.568998,	Check S/P Position	2R3	4	0	4,409,416:90:0	
420	**98**	**88**	**12:07:03.734**	**14ENICERAF01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
421	98	88	12:07:55.733	125DC11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,409,417:84:0	
422	**98**	**88**	**12:07:55.733**	**125DC4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,409,417:84:0**	
423	98	88	12:08:56.400	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,409,418:84:0	
424	**98**	**88**	**12:08:56.400**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,409,418:84:0**	
425	**98**	**88**	**12:08:57.066**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,409,418:85:0**	
426	98	88	12:09:05.066	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,409,419:06:0	
427	98	88	12:10:47.733	175DC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	4,409,420:69:0	
428	98	88	12:10:47.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1918.72 +/- 1	2R3	4	0	4,409,420:69:0	
429	98	88	12:10:49.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1918.84 +/- 1	2R3	4	0	4,409,420:71:1	
430	98	88	12:10:53.066	117DC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,409,420:77:0	
431	98	88	12:10:54.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1920.07 +/- 1	2R3	4	0	4,409,420:79:0	
432	98	88	12:10:55.600		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *1920.13 +/- 1	2R3	4	0	4,409,420:80:8	
433	98	88	12:10:59.066	175DC176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,409,420:86:0	
434	98	88	12:10:59.600		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *1918.63 +/- 1	2R3	4	0	4,409,420:86:8	
435	98	88	12:10:59.600		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 1918.63 +/- 1	2R3	4	0	4,409,420:86:8	
436	98	88	12:11:01.066	165DC4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,420:89:0	
437	98	88	12:11:02.400	117DC105A106A4A	**7STRP**	**-0.018302,0.0,0,**	**Slew =,0.04**	2R3	4	0	4,409,421:00:0	
438	**98**	**88**	**12:14:17.066**	**14ENICERAF01-**	**NIMPBK**	**301DB**	**EUROPA ICE RIFT**	**2R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	**98**	**88**	**12:16:19.733**	**14ENICERAF01-**	**DESELC**	**300DB**	**EUROPA ICE RIFT**	**2R3**	**4**	**0**	**: :**	
440	98	88	12:18:47.066	117DC105A106A4B	**7STRP**	**0.016501,-0.009,**	**Slew =12.01**	2R3	4	0	4,409,428:60:0	
441	98	88	12:18:53.733	117DC105A106A4C	**7STRP**	**-0.018302,0.0,0,**	**Slew =,0.04**	2R3	4	0	4,409,428:70:0	
442	98	88	12:26:38.400	117DC105A106A4D	**7STRP**	**0.016501,-0.009,**	**Slew =12.01**	2R3	4	0	4,409,436:39:0	
443	98	88	12:26:45.066	117DC105A106A4E	**7STRP**	**-0.018302,0.0,0,**	**Slew =,0.04**	2R3	4	0	4,409,436:49:0	
444	98	88	12:34:29.733	117DC105A106A4F	**7STRP**	**0.016501,-0.009,**	**Slew =12.01**	2R3	4	0	4,409,444:18:0	
445	98	88	12:34:36.400	117DC105A106A4G	**7STRP**	**-0.018302,0.0,0,**	**Slew =,0.04**	2R3	4	0	4,409,444:28:0	
446	98	88	12:42:21.066	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,409,451:88:0	
447	98	88	12:42:26.400	175DC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,452:05:0	
448	98	88	12:42:26.400		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC * 260.31 +/- 1	2R3	4	0	4,409,452:05:0	
449	98	88	12:42:27.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 260.01 +/- 1	2R3	4	0	4,409,452:06:8	
450	98	88	12:44:17.733	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	2R3	4	0	4,409,453:81:0	
451	98	88	12:44:17.733		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 260.01 +/- 1	2R3	4	0	4,409,453:81:0	
452	98	88	12:44:17.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 260.01 +/- 1	2R3	4	0	4,409,453:81:0	
453	98	88	12:44:19.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 260.13 +/- 1	2R3	4	0	4,409,453:83:1	
454	98	88	12:44:24.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 261.37 +/- 1	2R3	4	0	4,409,454:00:0	
455	98	88	12:44:25.600		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 261.43 +/- 1	2R3	4	0	4,409,454:01:8	
456	98	88	12:44:27.000		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 261.31 +/- 1	2R3	4	0	4,409,454:03:9	
457	98	88	12:48:49.066		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/- 1	2R3	4	0	4,409,458:33:0	
458	98	88	12:48:50.266		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/- 1	2R3	4	0	4,409,458:34:8	
459	98	88	12:48:50.266		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/- 1	2R3	4	0	4,409,458:34:8	
460	98	88	12:48:51.666		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	2R3	4	0	4,409,458:36:9	
461	98	88	12:49:03.666		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	2R3	4	0	4,409,458:54:9	
462	98	88	12:49:04.866		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	2R3	4	0	4,409,458:56:7	
463	**98**	**88**	**12:51:33.067**	**14ENICERAF01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
464	98	88	12:51:36.400	488AE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	2R3	4	0	4,409,461:11:0	
465	98	88	13:01:35.066	165IA4A	7SCAN	NORM,254.924,-31	Check S/P Position	2R3	4	0	4,409,470:90:0	
466	98	88	13:02:28.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	2R3	4	0	4,409,471:79:0	
467	98	88	13:02:28.400	465KD6A	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	2R3	4	0	4,409,471:79:0	
468	98	88	13:02:35.066		DMS:	: *RUNUP	P7, TRACK *3, FWD, TIC 202.12 +/-	2R3	4	0	4,409,471:89:0	
469	98	88	13:02:36.466		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC 202.24 +/-	2R3	4	0	4,409,472:00:1	
470	98	88	13:02:36.466		DMS:	: *P_SLEW	P7, TRACK 3, FWD, TIC * 202.24 +/-	2R3	4	0	4,409,472:00:1	
471	98	88	13:03:37.066		DMS:	**: *RUNDOWN**	P7, TRACK 3, FWD, TIC * 216.45 +/-	2R3	4	0	4,409,473:00:0	
472	98	88	13:03:37.066	465KD6B	6DMSC	RDY,3	DMS Control Tape stop	2R3	4	0	4,409,473:00:0	
473	98	88	13:03:38.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 216.51 +/-	2R3	4	0	4,409,473:01:8	
474	98	88	13:05:27.733	175TA422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,474:75:0	
475	98	88	13:05:27.733		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 216.51 +/-	2R3	4	0	4,409,474:75:0	
476	98	88	13:05:32.400	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	2R3	4	0	4,409,474:82:0	
477	98	88	13:05:34.400		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 216.51 +/-	2R3	4	0	4,409,474:85:0	
478	98	88	13:05:35.733	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,474:87:0	
479	98	88	13:05:35.800		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 216.63 +/-	2R3	4	0	4,409,474:87:1	
480	98	88	13:05:35.800		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 216.63 +/-	2R3	4	0	4,409,474:87:1	
481	98	88	13:05:38.400	431OA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	4,409,475:00:0	
482	98	88	13:06:32.400	488AE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,409,475:81:0	
483	98	88	13:06:38.400	428JA6A	6RCCLR			2R3	4	0	4,409,475:90:0	
484	98	88	13:06:39.066	428JA6B	6RCSET	14		2R3	4	0	4,409,476:00:0	
485	98	88	13:09:39.733	165IA4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,478:89:0	
486	98	88	13:10:35.733	175JA422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,479:82:0	
487	98	88	13:10:35.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 286.92 +/-	2R3	4	0	4,409,479:82:0	
488	98	88	13:10:36.933		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC * 286.98 +/-	2R3	4	0	4,409,479:83:8	
489	98	88	13:10:41.733	175JA176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	4,409,480:00:0	
490	98	88	13:10:42.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 352.98 +/-	2R3	4	0	4,409,480:00:7	
491	98	88	13:10:42.200		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 352.98 +/-	2R3	4	0	4,409,480:00:7	
492	98	88	13:10:44.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC * 407.12 +/-	2R3	4	0	4,409,480:04:0	
493	98	88	13:10:44.400	175TB422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,480:04:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	88	13:10:47.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 418.62 +/-	2R3	4	0	4,409,480:08:1	
495	98	88	13:10:48.400	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,480:10:0	
496	98	88	13:10:48.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 418.74 +/-	2R3	4	0	4,409,480:10:2	
497	98	88	13:10:48.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 418.74 +/-	2R3	4	0	4,409,480:10:2	
498	98	88	13:10:54.400	175IA422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,480:19:0	
499	98	88	13:10:54.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 420.12 +/-	2R3	4	0	4,409,480:19:0	
500	98	88	13:10:55.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC * 420.18 +/-	2R3	4	0	4,409,480:20:8	
501	98	88	13:11:00.400	175IA176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	4,409,480:28:0	
502	98	88	13:11:00.866		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 486.18 +/-	2R3	4	0	4,409,480:28:7	
503	98	88	13:11:00.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 486.18 +/-	2R3	4	0	4,409,480:28:7	
504	98	88	13:11:07.733	175TC422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,480:39:0	
505	98	88	13:11:07.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC * 655.16 +/-	2R3	4	0	4,409,480:39:0	
506	98	88	13:11:10.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 666.66 +/-	2R3	4	0	4,409,480:43:1	
507	98	88	13:11:11.733	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,480:45:0	
508	98	88	13:11:11.866		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 666.78 +/-	2R3	4	0	4,409,480:45:2	
509	98	88	13:11:11.866		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 666.78 +/-	2R3	4	0	4,409,480:45:2	
510	98	88	13:13:08.400	165IB4A	7SCAN	NORM,292.924,-39	Check S/P Position	2R3	4	0	4,409,482:38:0	
511	98	88	13:16:49.733	118IB	**SMOS**	GS		2R3	4	0	4,409,486:06:0	
512	98	88	13:17:07.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 750.03 +/-	2R3	4	0	4,409,486:32:0	
513	98	88	13:17:07.066	175IB422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,486:32:0	
514	98	88	13:17:08.266		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC * 750.09 +/-	2R3	4	0	4,409,486:33:8	
515	98	88	13:17:10.400	165IB4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,486:37:0	
516	98	88	13:17:13.066	175IB176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,409,486:41:0	
517	98	88	13:17:13.533		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 816.09 +/- 1	2R3	4	0	4,409,486:41:7	
518	98	88	13:17:13.533		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 816.09 +/-	2R3	4	0	4,409,486:41:7	
519	98	88	13:17:13.733	118IB110A111A4A	7STRP	0.00732,-0.0027,	Slew =,3.71	2R3	4	0	4,409,486:42:0	
520	98	88	13:17:33.733	428JF6A	6RCCLR			2R3	4	0	4,409,486:72:0	
521	98	88	13:17:34.400	428JF6B	6RCSET	11		2R3	4	0	4,409,486:73:0	
522	98	88	13:17:48.400	118IB11A	**SMOS**	GE		2R3	4	0	4,409,487:03:0	
523	98	88	13:17:50.400	118IC	**SMOS**	GS		2R3	4	0	4,409,487:06:0	
524	98	88	13:17:51.066	165IC4A	7SCAN	NORM,300.876999,	Check S/P Position	2R3	4	0	4,409,487:07:0	
525	98	88	13:17:55.066	175TD422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,487:13:0	
526	98	88	13:17:55.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *1838.20 +/- 1	2R3	4	0	4,409,487:13:0	
527	98	88	13:17:57.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1849.70 +/- 1	2R3	4	0	4,409,487:17:1	
528	98	88	13:17:59.066	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,487:19:0	
529	98	88	13:17:59.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1849.82 +/- 1	2R3	4	0	4,409,487:19:2	
530	98	88	13:17:59.200		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *1849.82 +/- 1	2R3	4	0	4,409,487:19:2	
531	98	88	13:18:15.733	428JG6A	6RCCLR			2R3	4	0	4,409,487:44:0	
532	98	88	13:18:16.400	428JG6B	6RCSET	14		2R3	4	0	4,409,487:45:0	
533	98	88	13:18:33.733	175IC422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,487:71:0	
534	98	88	13:18:33.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *1857.92 +/- 1	2R3	4	0	4,409,487:71:0	
535	98	88	13:18:34.933		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1857.98 +/- 1	2R3	4	0	4,409,487:72:8	
536	98	88	13:18:37.066	165IC4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,487:76:0	
537	98	88	13:18:39.733	175IC176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,409,487:80:0	
538	98	88	13:18:40.200		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *1923.98 +/- 1	2R3	4	0	4,409,487:80:7	
539	98	88	13:18:40.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1923.98 +/- 1	2R3	4	0	4,409,487:80:7	
540	98	88	13:18:40.400	118IC110A111A4A	7STRP	-0.0023,0.00725,	Slew =,4.31	2R3	4	0	4,409,487:81:0	
541	98	88	13:19:04.400	428JH6A	6RCCLR			2R3	4	0	4,409,488:26:0	
542	98	88	13:19:05.066	428JH6B	6RCSET	11		2R3	4	0	4,409,488:27:0	
543	98	88	13:19:23.733	118IC11A	**SMOS**	GE		2R3	4	0	4,409,488:55:0	
544	98	88	13:19:28.400	165ID4A	7SCAN	NORM,338.537998,	Check S/P Position	2R3	4	0	4,409,488:62:0	
545	98	88	13:19:30.400	175TE422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,488:65:0	
546	98	88	13:19:30.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3159.37 +/- 1	2R3	4	0	4,409,488:65:0	
547	98	88	13:19:33.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3170.87 +/- 1	2R3	4	0	4,409,488:69:1	
548	98	88	13:19:34.400	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,488:71:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	88	13:19:34.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3170.99 +/- 1	2R3	4	0	4,409,488:71:2	
550	98	88	13:19:34.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3170.99 +/- 1	2R3	4	0	4,409,488:71:2	
551	98	88	13:20:41.733	428JI6A	6RCCLR			2R3	4	0	4,409,489:81:0	
552	98	88	13:20:42.400	428JI6B	6RCSET	14		2R3	4	0	4,409,489:82:0	
553	98	88	13:21:49.733	175ID422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,491:01:0	
554	98	88	13:21:49.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3202.67 +/- 1	2R3	4	0	4,409,491:01:0	
555	98	88	13:21:50.933		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3202.73 +/- 1	2R3	4	0	4,409,491:02:8	
556	98	88	13:21:52.400	165ID4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,491:05:0	
557	98	88	13:21:55.733	175ID176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	4,409,491:10:0	
558	98	88	13:21:56.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3268.73 +/- 2	2R3	4	0	4,409,491:10:7	
559	98	88	13:21:56.200		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3268.73 +/- 1	2R3	4	0	4,409,491:10:7	
560	98	88	13:22:03.066	428JL6A	6RCCLR			2R3	4	0	4,409,491:21:0	
561	98	88	13:22:03.733	428JL6B	6RCSET	11		2R3	4	0	4,409,491:22:0	
562	98	88	13:22:12.400	175TF422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,491:35:0	
563	98	88	13:22:12.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3667.41 +/- 2	2R3	4	0	4,409,491:35:0	
564	98	88	13:22:15.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3678.91 +/- 2	2R3	4	0	4,409,491:39:1	
565	98	88	13:22:16.400	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,491:41:0	
566	98	88	13:22:16.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3679.03 +/- 2	2R3	4	0	4,409,491:41:2	
567	98	88	13:22:16.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3679.03 +/- 2	2R3	4	0	4,409,491:41:2	
568	98	88	13:22:17.066	165IE4A	7SCAN	NORM,23.406,-5.2	Check S/P Position	2R3	4	0	4,409,491:42:0	
569	98	88	13:24:31.066	428JM6A	6RCCLR			2R3	4	0	4,409,493:61:0	
570	98	88	13:24:31.733	428JM6B	6RCSET	14		2R3	4	0	4,409,493:62:0	
571	**98**	**88**	**13:25:37.066**	**20DD5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,409,494:69:0**	
572	**98**	**88**	**13:25:44.400**	**20DD5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,409,494:80:0**	
573	**98**	**88**	**13:25:45.733**	**20DD6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,409,494:82:0**	
574	**98**	**88**	**13:25:55.733**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,409,495:06:0**	
575	**98**	**88**	**13:25:55.733**	**14NNSUCOMP01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
576	**98**	**88**	**13:26:05.733**	**20DD5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,409,495:21:0**	
577	**98**	**88**	**13:26:07.066**	**20DD5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,409,495:23:0**	
578	98	88	13:26:42.400	165IE4B	7VECT		Inert vect update UTC	260	4	0	4,409,495:76:0	
579	**98**	**88**	**13:26:45.066**	**20DD4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,409,495:80:0**	
580	98	88	13:26:46.400	175JE422A6A	6DMSC	R806,3	DMS Control	2R0	4	0	4,409,495:82:0	
581	98	88	13:26:46.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3742.28 +/- 2	2R0	4	0	4,409,495:82:0	
582	98	88	13:26:47.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3742.34 +/- 2	2R0	4	0	4,409,495:83:8	
583	98	88	13:26:52.400	175JE176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R0	4	0	4,409,496:00:0	
584	98	88	13:26:52.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3808.34 +/- 2	2R0	4	0	4,409,496:00:7	
585	98	88	13:26:52.866		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3808.34 +/- 2	2R0	4	0	4,409,496:00:7	
586	98	88	13:26:55.066	175TG422A6A	6DMSC	R7,3	DMS Control	2R0	4	0	4,409,496:04:0	
587	98	88	13:26:55.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3862.48 +/- 2	2R0	4	0	4,409,496:04:0	
588	98	88	13:26:57.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3873.98 +/- 2	2R0	4	0	4,409,496:08:1	
589	98	88	13:26:59.066	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R0	4	0	4,409,496:10:0	
590	98	88	13:26:59.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3874.10 +/- 2	2R0	4	0	4,409,496:10:2	
591	98	88	13:26:59.200		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3874.10 +/- 2	2R0	4	0	4,409,496:10:2	
592	98	88	13:27:05.066	175IE422A6A	6DMSC	R806,3	DMS Control	2R0	4	0	4,409,496:19:0	
593	98	88	13:27:05.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3875.47 +/- 2	2R0	4	0	4,409,496:19:0	
594	98	88	13:27:06.266		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3875.53 +/- 2	2R0	4	0	4,409,496:20:8	
595	98	88	13:27:11.066	175IE176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R0	4	0	4,409,496:28:0	
596	98	88	13:27:11.533		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3941.53 +/- 3	2R0	4	0	4,409,496:28:7	
597	98	88	13:27:11.533		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3941.53 +/- 2	2R0	4	0	4,409,496:28:7	
598	98	88	13:27:18.400	175TH422A6A	6DMSC	R7,3	DMS Control	2R0	4	0	4,409,496:39:0	
599	98	88	13:27:18.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4110.52 +/- 3	2R0	4	0	4,409,496:39:0	
600	98	88	13:27:21.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4122.02 +/- 3	2R0	4	0	4,409,496:43:1	
601	98	88	13:27:22.400	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R0	4	0	4,409,496:45:0	
602	98	88	13:27:22.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4122.14 +/- 3	2R0	4	0	4,409,496:45:2	
603	98	88	13:27:22.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4122.14 +/- 3	2R0	4	0	4,409,496:45:2	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	98	88	13:27:23.066	165IF4A	7SCAN	NORM,24.001,9.66	Check S/P Position	2R0	4	0	4,409,496:46:0	
605	**98**	**88**	**13:27:45.733**	**20DD4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,409,496:80:0**	
606	**98**	**88**	**13:28:49.066**	**125DD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,409,497:84:0**	
607	98	88	13:28:49.066	125DD	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,409,497:84:0	
608	**98**	**88**	**13:28:57.733**	**14NNSUCOMP01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
609	98	88	13:28:57.733	117IF	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,409,498:06:0	
610	98	88	13:29:15.733	175JF422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,498:33:0	
611	98	88	13:29:15.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4148.67 +/- 3	2R3	4	0	4,409,498:33:0	
612	98	88	13:29:16.400	165IF4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,498:34:0	
613	98	88	13:29:16.933		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4148.73 +/- 3	2R3	4	0	4,409,498:34:8	
614	98	88	13:29:19.733	117IF105A106A4A	7STRP	0.028007,0.0,0,0	Slew =,3.27	2R3	4	0	4,409,498:39:0	
615	98	88	13:29:21.733	175JF176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	4,409,498:42:0	
616	98	88	13:29:22.200		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4214.73 +/- 3	2R3	4	0	4,409,498:42:7	
617	98	88	13:29:22.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4214.73 +/- 3	2R3	4	0	4,409,498:42:7	
618	98	88	13:29:31.066	175TI422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,498:56:0	
619	98	88	13:29:31.066		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4432.93 +/- 3	2R3	4	0	4,409,498:56:0	
620	98	88	13:29:33.066	117IF105A106A4B	7STRP	-0.027807,0.0073	Slew =12.01	2R3	4	0	4,409,498:59:0	
621	98	88	13:29:33.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4444.43 +/- 3	2R3	4	0	4,409,498:60:1	
622	98	88	13:29:35.066	175TI176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,498:62:0	
623	98	88	13:29:35.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4444.55 +/- 3	2R3	4	0	4,409,498:62:2	
624	98	88	13:29:35.200		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4444.55 +/- 3	2R3	4	0	4,409,498:62:2	
625	98	88	13:29:39.066	175IF422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	4,409,498:68:0	
626	98	88	13:29:39.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4445.46 +/- 3	2R3	4	0	4,409,498:68:0	
627	98	88	13:29:40.266		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4445.52 +/- 3	2R3	4	0	4,409,498:69:8	
628	98	88	13:29:43.066	117IF105A106A4C	7STRP	0.028007,0.0,0,0	Slew =,3.27	2R3	4	0	4,409,498:74:0	
629	98	88	13:29:45.066	175IF176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	4,409,498:77:0	
630	98	88	13:29:45.533		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4511.52 +/- 3	2R3	4	0	4,409,498:77:7	
631	98	88	13:29:45.533		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4511.52 +/- 3	2R3	4	0	4,409,498:77:7	
632	98	88	13:29:49.733	428JR6A	6RCCLR			2R3	4	0	4,409,498:84:0	
633	**98**	**88**	**13:29:49.733**	**125DD4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,409,498:84:0**	
634	98	88	13:29:49.733	125DD11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,409,498:84:0	
635	98	88	13:29:50.400	428JR6B	6RCSET	11		2R3	4	0	4,409,498:85:0	
636	98	88	13:29:54.400	175TJ422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,499:00:0	
637	98	88	13:29:54.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4729.72 +/- 3	2R3	4	0	4,409,499:00:0	
638	98	88	13:29:56.400	117IF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,409,499:03:0	
639	98	88	13:29:57.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4741.22 +/- 4	2R3	4	0	4,409,499:04:1	
640	**98**	**88**	**13:29:58.400**	**14ENSUCOMP01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
641	98	88	13:29:58.400	175TJ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,499:06:0	
642	98	88	13:29:58.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4741.34 +/- 4	2R3	4	0	4,409,499:06:2	
643	98	88	13:29:58.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4741.34 +/- 4	2R3	4	0	4,409,499:06:2	
644	98	88	13:30:23.733	428JW6A	6RCCLR			2R3	4	0	4,409,499:44:0	
645	98	88	13:30:24.400	428JW6B	6RCSET	12		2R3	4	0	4,409,499:45:0	
646	**98**	**88**	**13:30:50.400**	**127DD4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,409,499:84:0**	
647	98	88	13:30:50.400	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,409,499:84:0	
648	**98**	**88**	**13:30:51.066**	**127DD4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,409,499:85:0**	
649	98	88	13:30:54.400	165DD4A	7SCAN	NORM,28.542,-8.2	Check S/P Position	2R3	4	0	4,409,499:90:0	
650	98	88	13:30:59.066	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,409,500:06:0	
651	98	88	13:31:46.400	117DD	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,409,500:77:0	
652	98	88	13:31:47.066		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4766.78 +/- 4	2R3	4	0	4,409,500:78:0	
653	98	88	13:31:47.066	175DD422A6A	6DMSC	R28,3	DMS Control	2R3	4	0	4,409,500:78:0	
654	98	88	13:31:48.266		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *4766.84 +/- 4	2R3	4	0	4,409,500:79:8	
655	98	88	13:31:52.266		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 4768.34 +/- 4	2R3	4	0	4,409,500:85:8	
656	98	88	13:31:52.266		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4768.34 +/- 4	2R3	4	0	4,409,500:85:8	
657	98	88	13:31:52.400	175DD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,409,500:86:0	
658	98	88	13:31:54.400	165DD4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,500:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	98	88	13:31:55.733	117DD105A106A4A	7STRP	0.046032,0.0,0,0	Slew =,0.04	2R3	4	0	4,409,501:00:0	
660	98	88	13:31:55.733	14ENSUCOMP01-	NIMPBK	301DC	EUROPA SURFACE COMPOSITION	2R3	4	0	: :	
661	98	88	13:39:35.733	14ENSUCOMP01-	DESELC	300DC	EUROPA SURFACE COMPOSITION	2R3	4	0	: :	
662	98	88	13:39:35.733	14ENSUCOMP01-	NIMPBK	301FC	EUROPA SURFACE COMPOSITION	2R3	4	0	: :	
663	98	88	13:43:02.400	428JX6A	6RCCLR			2R3	4	0	4,409,511:90:0	
664	98	88	13:43:03.066	428JX6B	6RCSET	8		2R3	4	0	4,409,512:00:0	
665	98	88	13:47:23.066	14ENSUCOMP01-	DESELC	300FC	EUROPA SURFACE COMPOSITION	2R3	4	0	: :	
666	98	88	13:51:08.400	117DD11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,409,520:00:0	
667	98	88	13:51:12.400	14ENSUCOMP01-		-----STOP-------		2R3	4	0	: :	
668	98	88	13:51:27.066	175TK422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	4,409,520:28:0	
669	98	88	13:51:27.066		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *5800.88 +/- 4	2R3	4	0	4,409,520:28:0	
670	98	88	13:51:28.266		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5801.18 +/- 4	2R3	4	0	4,409,520:29:8	
671	98	88	13:51:29.666		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5801.30 +/- 4	2R3	4	0	4,409,520:31:9	
672	98	88	13:51:29.666		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5801.30 +/- 4	2R3	4	0	4,409,520:31:9	
673	98	88	13:51:29.733	175TK176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	4,409,520:32:0	
674	98	88	13:57:12.400	428JZ6A	6RCCLR			2R3	4	0	4,409,526:00:0	
675	98	88	14:01:13.066	432MA431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	4,409,529:88:0	
676	98	88	14:01:13.733	432MA6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,409,529:89:0	
677	98	88	14:01:17.066		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5938.97 +/- 4	2R3	4	0	4,409,530:03:0	
678	98	88	14:01:17.066	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	4,409,530:03:0	
679	98	88	14:01:17.066	175TK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,530:03:0	
680	98	88	14:01:17.733	432OA6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,409,530:04:0	
681	98	88	14:01:18.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5939.03 +/- 4	2R3	4	0	4,409,530:04:8	
682	98	88	14:01:19.066	14NNSUCOMP02-		-----START------		2R3	4	0	: :	
683	98	88	14:01:21.066	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	4,409,530:09:0	
684	98	88	14:02:01.066	20DE5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,409,530:69:0	
685	98	88	14:02:08.400	20DE5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,409,530:80:0	
686	98	88	14:02:09.733	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	4,409,530:82:0	
687	98	88	14:02:09.733	20DE6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,409,530:82:0	
688	98	88	14:02:10.400	282NB432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,409,530:83:0	
689	98	88	14:02:19.733	20DE6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,409,531:06:0	
690	98	88	14:02:29.733	20DE5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,409,531:21:0	
691	98	88	14:02:31.066	20DE5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,409,531:23:0	
692	98	88	14:03:07.066	165IG4A	7SCAN	NORM,43.716,20.0	Check S/P Position	260	4	0	4,409,531:77:0	
693	98	88	14:03:09.066	20DE4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,409,531:80:0	
694	98	88	14:04:09.733	20DE4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,409,532:80:0	
695	98	88	14:05:17.733		DMS:	: READY	RDY, TRACK *4, *REV, TIC 5939.03 +/- 4	2R3	4	0	4,409,534:00:0	
696	98	88	14:05:17.733	465KE6A	6DMSC	RDY,4	DMS Control Tape stop	2R3	4	0	4,409,534:00:0	
697	98	88	14:05:21.733	14NNSUCOMP02-		-----STOP-------		2R3	4	0	: :	
698	98	88	14:05:21.733	14ENSUCOMP02-		-----START------		2R3	4	0	: :	
699	98	88	14:06:13.733	125DE4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	4,409,534:84:0	
700	98	88	14:06:13.733	125DE	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,409,534:84:0	
701	98	88	14:06:22.400	118IG	SMOS	GS		2R3	4	0	4,409,535:06:0	
702	98	88	14:06:59.066	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,409,535:61:0	
703	98	88	14:06:59.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5939.03 +/- 4	2R3	4	0	4,409,535:61:0	
704	98	88	14:07:00.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5939.15 +/- 4	2R3	4	0	4,409,535:63:1	
705	98	88	14:07:05.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5940.38 +/- 4	2R3	4	0	4,409,535:71:0	
706	98	88	14:07:06.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5940.44 +/- 4	2R3	4	0	4,409,535:72:8	
707	98	88	14:07:09.066	165IG4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,535:76:0	
708	98	88	14:07:11.733	175IG176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,409,535:80:0	
709	98	88	14:07:12.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *5874.44 +/- 4	2R3	4	0	4,409,535:80:7	
710	98	88	14:07:12.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5874.44 +/- 4	2R3	4	0	4,409,535:80:7	
711	98	88	14:07:12.400	118IG110A111A4A	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R3	4	0	4,409,535:81:0	
712	98	88	14:07:14.400	125DE11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,409,535:84:0	
713	98	88	14:07:14.400	125DE4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	4,409,535:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	88	14:07:29.733	118IG110A111A4B	7STRP	-0.014281,0.0076	Slew =0,5.5	2R3	4	0	4,409,536:16:0	
715	98	88	14:07:38.400	118IG110A111A4C	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R3	4	0	4,409,536:29:0	
716	98	88	14:07:55.733	118IG110A111A4D	7STRP	-0.014281,0.0076	Slew =0,5.5	2R3	4	0	4,409,536:55:0	
717	98	88	14:08:04.400	118IG110A111A4E	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R3	4	0	4,409,536:68:0	
718	98	88	14:08:21.733	118IG11A	**SMOS**	GE		2R3	4	0	4,409,537:03:0	
719	98	88	14:08:27.733	488AE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	4,409,537:12:0	
720	98	88	14:08:28.400	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,537:13:0	
721	98	88	14:08:28.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3999.21 +/- 4	2R3	4	0	4,409,537:13:0	
722	98	88	14:08:31.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3987.71 +/- 4	2R3	4	0	4,409,537:17:1	
723	98	88	14:09:15.733	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,409,537:84:0	
724	**98**	**88**	**14:09:15.733**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,409,537:84:0**	
725	**98**	**88**	**14:09:16.400**	**127DE4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,409,537:85:0**	
726	98	88	14:09:19.733	165DE4A	7SCAN	NORM,48.419,16.5	Check S/P Position	2R3	4	0	4,409,537:90:0	
727	98	88	14:09:24.400	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,409,538:06:0	
728	98	88	14:10:06.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3987.71 +/- 4	2R3	4	0	4,409,538:69:0	
729	98	88	14:10:06.400	175DE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	4,409,538:69:0	
730	98	88	14:10:07.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3987.83 +/- 4	2R3	4	0	4,409,538:71:1	
731	98	88	14:10:11.733	117DE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,409,538:77:0	
732	98	88	14:10:13.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3989.06 +/- 4	2R3	4	0	4,409,538:79:0	
733	98	88	14:10:14.266		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *3989.12 +/- 4	2R3	4	0	4,409,538:80:8	
734	98	88	14:10:17.733	175DE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,409,538:86:0	
735	98	88	14:10:18.266		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 3987.62 +/- 4	2R3	4	0	4,409,538:86:8	
736	98	88	14:10:18.266		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *3987.62 +/- 4	2R3	4	0	4,409,538:86:8	
737	98	88	14:10:19.733	165DE4B	7VECT		Inert vect update UTC	2R3	4	0	4,409,538:89:0	
738	98	88	14:10:21.066	117DE105A106A4A	**7STRP**	**0.019903,0.0,0,0**	**Slew =,0.03**	2R3	4	0	4,409,539:00:0	
739	**98**	**88**	**14:20:31.733**	**14NNSUCOMP03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
740	**98**	**88**	**14:20:31.733**	**14ENSUCOMP02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
741	**98**	**88**	**14:21:13.733**	**20DF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,409,549:69:0**	
742	98	88	14:21:18.400	175DE422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,549:76:0	
743	98	88	14:21:18.400		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *3407.43 +/- 4	2R3	4	0	4,409,549:76:0	
744	98	88	14:21:19.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3407.13 +/- 4	2R3	4	0	4,409,549:77:8	
745	**98**	**88**	**14:21:21.066**	**20DF5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,409,549:80:0**	
746	**98**	**88**	**14:21:22.400**	**20DF6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,409,549:82:0**	
747	98	88	14:21:28.400	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,409,550:00:0	
748	**98**	**88**	**14:21:32.400**	**20DF6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,409,550:06:0**	
749	98	88	14:21:34.400	165IH4A	7SCAN	NORM,49.925,17.6	Check S/P Position	2R3	4	0	4,409,550:09:0	
750	**98**	**88**	**14:21:42.400**	**20DF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,409,550:21:0**	
751	**98**	**88**	**14:21:43.733**	**20DF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,409,550:23:0**	
752	**98**	**88**	**14:22:21.733**	**20DF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,409,550:80:0**	
753	98	88	14:22:33.066	118IH	**SMOS**	GS		2R0	4	0	4,409,551:06:0	
754	98	88	14:23:01.066	175IH422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	4,409,551:48:0	
755	98	88	14:23:01.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3407.13 +/- 4	2R0	4	0	4,409,551:48:0	
756	98	88	14:23:02.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3407.25 +/- 4	2R0	4	0	4,409,551:50:1	
757	98	88	14:23:07.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3408.48 +/- 4	2R0	4	0	4,409,551:58:0	
758	98	88	14:23:08.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3408.54 +/- 4	2R0	4	0	4,409,551:59:8	
759	98	88	14:23:11.066	165IH4B	7VECT		Inert vect update UTC	2R0	4	0	4,409,551:63:0	
760	98	88	14:23:13.733	175IH176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	4,409,551:67:0	
761	98	88	14:23:14.200		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3342.54 +/- 4	2R0	4	0	4,409,551:67:7	
762	98	88	14:23:14.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3342.54 +/- 4	2R0	4	0	4,409,551:67:7	
763	98	88	14:23:14.400	118IH110A111A4A	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R0	4	0	4,409,551:68:0	
764	**98**	**88**	**14:23:22.400**	**20DF4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,409,551:80:0**	
765	98	88	14:23:31.733	118IH110A111A4B	7STRP	-0.013281,0.0076	Slew =,3.81	2R3	4	0	4,409,552:03:0	
766	98	88	14:23:40.400	118IH110A111A4C	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R3	4	0	4,409,552:16:0	
767	98	88	14:23:57.733	118IH110A111B4A	7STRP	-0.00564,0.00764	Slew =,3.81	2R3	4	0	4,409,552:42:0	
768	98	88	14:24:06.400	118IH110A111B4B	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R3	4	0	4,409,552:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	98	88	14:24:15.066	118IH110A111C4A	7STRP	-0.00764,0.00764	Slew =,3.81	2R3	4	0	4,409,552:68:0	
770	98	88	14:24:23.733	118IH110A111C4B	7STRP	0.00764,0.0,26,0	Slew =,3.91	2R3	4	0	4,409,552:81:0	
771	98	88	14:24:32.400	118IH11A	**SMOS**	GE		2R3	4	0	4,409,553:03:0	
772	**98**	**88**	**14:24:34.400**	**14NNSUCOMP03-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
773	98	88	14:24:34.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *1368.87 +/- 4	2R3	4	0	4,409,553:06:0	
774	**98**	**88**	**14:24:34.400**	**14ENSUCOMP03-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
775	98	88	14:24:34.400	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,409,553:06:0	
776	98	88	14:24:37.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1357.37 +/- 5	2R3	4	0	4,409,553:10:1	
777	98	88	14:24:37.733	165DF4A	7SCAN	NORM,48.839,19.8	Check S/P Position	2R3	4	0	4,409,553:11:0	
778	**98**	**88**	**14:25:26.400**	**125DF4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R3**	**4**	**0**	**4,409,553:84:0**	
779	98	88	14:25:26.400	125DF	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,409,553:84:0	
780	**98**	**88**	**14:26:27.066**	**125DF4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R3**	**4**	**0**	**4,409,554:84:0**	
781	98	88	14:26:27.066	125DF11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,409,554:84:0	
782	**98**	**88**	**14:27:27.733**	**127DF4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**	**2R4**	**4**	**0**	**4,409,555:84:0**	
783	98	88	14:27:27.733	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	2R4	4	0	4,409,555:84:0	
784	**98**	**88**	**14:27:28.400**	**127DF4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R4**	**4**	**0**	**4,409,555:85:0**	
785	98	88	14:27:36.400	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R4	4	0	4,409,556:06:0	
786	98	88	14:28:18.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1357.37 +/- 5	2R4	4	0	4,409,556:69:0	
787	98	88	14:28:18.400	175DF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R4	4	0	4,409,556:69:0	
788	98	88	14:28:19.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1357.49 +/- 5	2R4	4	0	4,409,556:71:1	
789	98	88	14:28:23.733	117DF	**CSMOS**	GS	***** GROUP START CSMOS	2R4	4	0	4,409,556:77:0	
790	98	88	14:28:25.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1358.72 +/- 5	2R4	4	0	4,409,556:79:0	
791	98	88	14:28:26.266		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *1358.78 +/- 5	2R4	4	0	4,409,556:80:8	
792	98	88	14:28:29.733	175DF176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R4	4	0	4,409,556:86:0	
793	98	88	14:28:30.266		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 1357.28 +/- 5	2R4	4	0	4,409,556:86:8	
794	98	88	14:28:30.266		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *1357.28 +/- 5	2R4	4	0	4,409,556:86:8	
795	98	88	14:28:31.733	165DF4B	7VECT		Inert vect update UTC	2R4	4	0	4,409,556:89:0	
796	98	88	14:28:33.066	117DF105A106A4A	**7STRP**	**-0.028908,0.0,0,**	**Slew =,0.03**	2R4	4	0	4,409,557:00:0	
797	98	88	14:34:00.400	488AE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R4	4	0	4,409,562:36:0	
798	**98**	**88**	**14:40:36.400**	**14ENSUCOMP03-**	**NIMPBK**	**301DE**	**EUROPA SURFACE COMPOSITION**	**2R4**	**4**	**0**	**: :**	
799	**98**	**88**	**14:43:38.400**	**14ENSUCOMP03-**	**DESELC**	**300DE**	**EUROPA SURFACE COMPOSITION**	**2R4**	**4**	**0**	**: :**	
800	98	88	14:44:40.400	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	2R4	4	0	4,409,572:86:0	
801	98	88	14:44:43.066	165GD4A	7SCAN	NORM,49.927,22.1	Check S/P Position	2R4	4	0	4,409,572:90:0	
802	98	88	14:47:17.066	488AE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R4	4	0	4,409,575:48:0	
803	98	88	14:47:33.066	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,575:72:0	
804	98	88	14:47:33.066		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC * 352.87 +/- 5	2R4	4	0	4,409,575:72:0	
805	98	88	14:47:34.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 352.57 +/- 5	2R4	4	0	4,409,575:73:8	
806	**98**	**88**	**14:47:49.733**	**14ENSUCOMP03-**		**-----STOP-------**		**2R4**	**4**	**0**	**: :**	
807	98	88	14:50:47.733	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R4	4	0	4,409,579:00:0	
808	98	88	14:51:39.066	117GD	**CSMOS**	GS	***** GROUP START CSMOS	2R4	4	0	4,409,579:77:0	
809	98	88	14:51:48.400	117GD105A106A4A	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,580:00:0	
810	98	88	14:52:19.733	117GD105A106A4B	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,580:47:0	
811	98	88	14:52:34.400	117GD105A106A4C	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,580:69:0	
812	98	88	14:53:05.733	117GD105A106A4D	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,581:25:0	
813	98	88	14:53:20.400	117GD105A106A4E	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,581:47:0	
814	98	88	14:53:51.733	117GD105A106A4F	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,582:03:0	
815	98	88	14:54:06.400	117GD105A106A4G	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,582:25:0	
816	98	88	14:54:37.733	117GD105A106A4H	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,582:72:0	
817	98	88	14:54:52.400	117GD105A106A4I	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,583:03:0	
818	98	88	14:55:23.733	117GD105A106A4J	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,583:50:0	
819	98	88	14:55:38.400	117GD105A106A4K	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,583:72:0	
820	98	88	14:56:09.733	117GD105A106A4L	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,584:28:0	
821	98	88	14:56:24.400	117GD105A106A4M	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,584:50:0	
822	98	88	14:56:55.733	117GD105A106A4N	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,585:06:0	
823	98	88	14:57:10.400	117GD105A106A4O	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,585:28:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	88	14:57:41.733	117GD105A106A4P	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,585:75:0	
825	98	88	14:57:56.400	117GD105A106A4Q	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,586:06:0	
826	98	88	14:58:27.733	117GD105A106A4R	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,586:53:0	
827	98	88	14:58:42.400	117GD105A106A4S	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,586:75:0	
828	98	88	14:59:13.733	117GD105A106A4T	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,587:31:0	
829	98	88	14:59:28.400	117GD105A106A4U	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,587:53:0	
830	98	88	14:59:59.733	117GD105A106A4V	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,588:09:0	
831	98	88	15:00:14.400	117GD105A106A4W	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,588:31:0	
832	98	88	15:00:45.733	117GD105A106A4X	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,588:78:0	
833	98	88	15:01:00.400	117GD105A106A4Y	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,589:09:0	
834	98	88	15:01:31.733	117GD105A106A4Z	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,589:56:0	
835	98	88	15:01:46.400	117GD105A106A4AA	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,589:78:0	
836	98	88	15:02:17.733	117GD105A106A4AB	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,590:34:0	
837	98	88	15:02:32.400	117GD105A106A4AC	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,590:56:0	
838	98	88	15:03:03.733	117GD105A106A4AD	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,591:12:0	
839	98	88	15:03:18.400	117GD105A106A4AE	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,591:34:0	
840	98	88	15:03:22.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,591:40:0	
841	98	88	15:03:22.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 352.57 +/- 5	2R4	4	0	4,409,591:40:0	
842	98	88	15:03:23.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 352.69 +/- 5	2R4	4	0	4,409,591:42:1	
843	98	88	15:03:29.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 353.92 +/- 5	2R4	4	0	4,409,591:50:0	
844	98	88	15:03:30.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 353.98 +/- 5	2R4	4	0	4,409,591:51:8	
845	98	88	15:03:31.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 353.86 +/- 5	2R4	4	0	4,409,591:53:9	
846	98	88	15:03:47.733		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 350.10 +/- 5	2R4	4	0	4,409,591:78:0	
847	98	88	15:03:49.733	117GD105A106A4AF	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,591:81:0	
848	98	88	15:04:04.400	117GD105A106A4AG	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,592:12:0	
849	98	88	15:04:10.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,592:21:0	
850	98	88	15:04:10.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 344.79 +/- 5	2R4	4	0	4,409,592:21:0	
851	98	88	15:04:11.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 344.73 +/- 5	2R4	4	0	4,409,592:22:8	
852	98	88	15:04:35.733	117GD105A106A4AH	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,592:59:0	
853	98	88	15:04:50.400	117GD105A106A4AI	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,592:81:0	
854	98	88	15:05:21.733	117GD105A106A4AJ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,593:37:0	
855	98	88	15:05:36.400	117GD105A106A4AK	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,593:59:0	
856	98	88	15:06:07.733	117GD105A106A4AL	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,594:15:0	
857	98	88	15:06:22.400	117GD105A106A4AM	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,594:37:0	
858	98	88	15:06:53.733	117GD105A106A4AN	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,594:84:0	
859	98	88	15:07:08.400	117GD105A106A4AO	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,595:15:0	
860	98	88	15:07:39.733	117GD105A106A4AP	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,595:62:0	
861	98	88	15:07:54.400	117GD105A106A4AQ	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,595:84:0	
862	98	88	15:08:25.733	117GD105A106A4AR	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,596:40:0	
863	98	88	15:08:40.400	117GD105A106A4AS	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,596:62:0	
864	98	88	15:09:11.733	117GD105A106A4AT	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,597:18:0	
865	98	88	15:09:26.400	117GD105A106A4AU	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,597:40:0	
866	98	88	15:09:57.733	117GD105A106A4AV	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,597:87:0	
867	98	88	15:10:12.400	117GD105A106A4AW	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,598:18:0	
868	98	88	15:10:43.733	117GD105A106A4AX	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,598:65:0	
869	98	88	15:10:58.400	117GD105A106A4AY	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,598:87:0	
870	98	88	15:11:29.733	117GD105A106A4AZ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,599:43:0	
871	98	88	15:11:44.400	117GD105A106A4BA	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,599:65:0	
872	98	88	15:12:15.733	117GD105A106A4BB	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,600:21:0	
873	98	88	15:12:30.400	117GD105A106A4BC	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,600:43:0	
874	98	88	15:13:01.733	117GD105A106A4BD	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,600:90:0	
875	98	88	15:13:16.400	117GD105A106A4BE	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,601:21:0	
876	98	88	15:13:47.733	117GD105A106A4BF	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,601:68:0	
877	98	88	15:14:02.400	117GD105A106A4BG	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,601:90:0	
878	98	88	15:14:33.733	117GD105A106A4BH	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,602:46:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
879	98	88	15:14:48.400	117GD105A106A4BI	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,602:68:0
880	98	88	15:15:19.733	117GD105A106A4BJ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,603:24:0
881	98	88	15:15:34.400	117GD105A106A4BK	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,603:46:0
882	98	88	15:16:05.733	117GD105A106A4BL	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,604:02:0
883	98	88	15:16:20.400	117GD105A106A4BM	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,604:24:0
884	98	88	15:16:24.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 344.73 +/- 5	2R4	4	0	4,409,604:30:0
885	98	88	15:16:24.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,604:30:0
886	98	88	15:16:25.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 344.85 +/- 5	2R4	4	0	4,409,604:32:1
887	98	88	15:16:31.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 346.08 +/- 5	2R4	4	0	4,409,604:40:0
888	98	88	15:16:32.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 346.14 +/- 5	2R4	4	0	4,409,604:41:8
889	98	88	15:16:33.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 346.02 +/- 5	2R4	4	0	4,409,604:43:9
890	98	88	15:16:49.733		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 342.26 +/- 5	2R4	4	0	4,409,604:68:0
891	98	88	15:16:51.733	117GD105A106A4BN	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,604:71:0
892	98	88	15:17:06.400	117GD105A106A4BO	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,605:02:0
893	98	88	15:17:12.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 336.94 +/- 5	2R4	4	0	4,409,605:11:0
894	98	88	15:17:12.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,605:11:0
895	98	88	15:17:13.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 336.88 +/- 5	2R4	4	0	4,409,605:12:8
896	98	88	15:17:37.733	117GD105A106A4BP	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,605:49:0
897	98	88	15:17:52.400	117GD105A106A4BQ	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,605:71:0
898	98	88	15:18:23.733	117GD105A106A4BR	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,606:27:0
899	98	88	15:18:38.400	117GD105A106A4BS	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,606:49:0
900	98	88	15:19:09.733	117GD105A106A4BT	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,607:05:0
901	98	88	15:19:24.400	117GD105A106A4BU	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,607:27:0
902	98	88	15:19:55.733	117GD105A106A4BV	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,607:74:0
903	98	88	15:20:10.400	117GD105A106A4BW	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,608:05:0
904	98	88	15:20:41.733	117GD105A106A4BX	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,608:52:0
905	98	88	15:20:56.400	117GD105A106A4BY	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,608:74:0
906	98	88	15:21:27.733	117GD105A106A4BZ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,609:30:0
907	98	88	15:21:42.400	117GD105A106A4CA	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,609:52:0
908	98	88	15:22:13.733	117GD105A106A4CB	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,610:08:0
909	98	88	15:22:28.400	117GD105A106A4CC	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,610:30:0
910	98	88	15:22:59.733	117GD105A106A4CD	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,610:77:0
911	98	88	15:23:14.400	117GD105A106A4CE	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,611:08:0
912	98	88	15:23:45.733	117GD105A106A4CF	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,611:55:0
913	98	88	15:24:00.400	117GD105A106A4CG	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,611:77:0
914	98	88	15:24:31.733	117GD105A106A4CH	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,612:33:0
915	98	88	15:24:46.400	117GD105A106A4CI	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,612:55:0
916	98	88	15:25:17.733	117GD105A106A4CJ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,613:11:0
917	98	88	15:25:32.400	117GD105A106A4CK	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,613:33:0
918	98	88	15:26:03.733	117GD105A106A4CL	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,613:80:0
919	98	88	15:26:18.400	117GD105A106A4CM	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,614:11:0
920	98	88	15:26:49.733	117GD105A106A4CN	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,614:58:0
921	98	88	15:27:04.400	117GD105A106A4CO	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,614:80:0
922	98	88	15:27:35.733	117GD105A106A4CP	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,615:36:0
923	98	88	15:27:50.400	117GD105A106A4CQ	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,615:58:0
924	98	88	15:28:21.733	117GD105A106A4CR	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,616:14:0
925	98	88	15:28:36.400	117GD105A106A4CS	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,616:36:0
926	98	88	15:29:07.733	117GD105A106A4CT	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,616:83:0
927	98	88	15:29:22.400	117GD105A106A4CU	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,617:14:0
928	98	88	15:29:26.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 336.88 +/- 5	2R4	4	0	4,409,617:20:0
929	98	88	15:29:26.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,617:20:0
930	98	88	15:29:27.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 337.00 +/- 5	2R4	4	0	4,409,617:22:1
931	98	88	15:29:33.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 338.24 +/- 5	2R4	4	0	4,409,617:30:0
932	98	88	15:29:34.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 338.30 +/- 5	2R4	4	0	4,409,617:31:8
933	98	88	15:29:35.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 338.18 +/- 5	2R4	4	0	4,409,617:33:9

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	98	88	15:29:51.733		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 334.41 +/- 5	2R4	4	0	4,409,617:58:0	
935	98	88	15:29:53.733	117GD105A106A4CV	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,617:61:0	
936	98	88	15:30:08.400	117GD105A106A4CW	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,617:83:0	
937	98	88	15:30:14.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 329.10 +/- 5	2R4	4	0	4,409,618:01:0	
938	98	88	15:30:14.400	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,618:01:0	
939	98	88	15:30:15.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 329.04 +/- 5	2R4	4	0	4,409,618:02:8	
940	98	88	15:30:39.733	117GD105A106A4CX	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,618:39:0	
941	98	88	15:30:54.400	117GD105A106A4CY	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,618:61:0	
942	98	88	15:31:25.733	117GD105A106A4CZ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,619:17:0	
943	98	88	15:31:40.400	117GD105A106A4DA	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,619:39:0	
944	98	88	15:32:11.733	117GD105A106A4DB	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,619:86:0	
945	98	88	15:32:26.400	117GD105A106A4DC	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,620:17:0	
946	98	88	15:32:57.733	117GD105A106A4DD	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,620:64:0	
947	98	88	15:33:12.400	117GD105A106A4DE	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,620:86:0	
948	98	88	15:33:43.733	117GD105A106A4DF	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,621:42:0	
949	98	88	15:33:58.400	117GD105A106A4DG	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,621:64:0	
950	98	88	15:34:29.733	117GD105A106A4DH	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,622:20:0	
951	98	88	15:34:44.400	117GD105A106A4DI	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,622:42:0	
952	98	88	15:35:15.733	117GD105A106A4DJ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,622:89:0	
953	98	88	15:35:30.400	117GD105A106A4DK	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,623:20:0	
954	98	88	15:36:01.733	117GD105A106A4DL	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,623:67:0	
955	98	88	15:36:16.400	117GD105A106A4DM	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,623:89:0	
956	98	88	15:36:47.733	117GD105A106A4DN	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,624:45:0	
957	98	88	15:37:02.400	117GD105A106A4DO	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,624:67:0	
958	98	88	15:37:33.733	117GD105A106A4DP	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,625:23:0	
959	98	88	15:37:48.400	117GD105A106A4DQ	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,625:45:0	
960	98	88	15:38:19.733	117GD105A106A4DR	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,626:01:0	
961	98	88	15:38:34.400	117GD105A106A4DS	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,626:23:0	
962	98	88	15:39:05.733	117GD105A106A4DT	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,626:70:0	
963	98	88	15:39:20.400	117GD105A106A4DU	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,627:01:0	
964	98	88	15:39:51.733	117GD105A106A4DV	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,627:48:0	
965	98	88	15:40:06.400	117GD105A106A4DW	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,627:70:0	
966	98	88	15:40:37.733	117GD105A106A4DX	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,628:26:0	
967	98	88	15:40:52.400	117GD105A106A4DY	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,628:48:0	
968	98	88	15:41:23.733	117GD105A106A4DZ	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,629:04:0	
969	98	88	15:41:38.400	117GD105A106A4EA	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,629:26:0	
970	98	88	15:42:09.733	117GD105A106A4EB	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,629:73:0	
971	98	88	15:42:24.400	117GD105A106A4EC	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,630:04:0	
972	98	88	15:42:29.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 329.04 +/- 5	2R4	4	0	4,409,630:11:0	
973	98	88	15:42:29.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,630:11:0	
974	98	88	15:42:30.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 329.16 +/- 5	2R4	4	0	4,409,630:13:1	
975	98	88	15:42:35.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 330.39 +/- 5	2R4	4	0	4,409,630:21:0	
976	98	88	15:42:36.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 330.45 +/- 5	2R4	4	0	4,409,630:22:8	
977	98	88	15:42:38.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 330.33 +/- 5	2R4	4	0	4,409,630:24:9	
978	98	88	15:42:53.733		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 326.72 +/- 5	2R4	4	0	4,409,630:48:0	
979	98	88	15:42:55.733	117GD105A106A4ED	7STRP	-0.00039,0.00105	Slew =17.01	2R4	4	0	4,409,630:51:0	
980	98	88	15:43:10.400	117GD105A106A4EE	7STRP	0.027807,0.0,0,0	Slew =,0.98	2R4	4	0	4,409,630:73:0	
981	98	88	15:43:16.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 321.41 +/- 5	2R4	4	0	4,409,630:82:0	
982	98	88	15:43:16.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,630:82:0	
983	98	88	15:43:17.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 321.35 +/- 5	2R4	4	0	4,409,630:83:8	
984	98	88	15:43:41.733	117GD105A106B4A	7STRP	-0.015001,0.0,0,	Slew =17.01	2R4	4	0	4,409,631:29:0	
985	98	88	15:43:52.400	117GD105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.98	2R4	4	0	4,409,631:45:0	
986	98	88	15:44:55.066	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R4	4	0	4,409,632:48:0	
987	98	88	15:46:23.733	165GE4A	7SCAN	NORM,51.082,21.6	Check S/P Position	2R4	4	0	4,409,633:90:0	
988	98	88	15:46:24.400	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R4	4	0	4,409,634:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
989	98	88	15:46:26.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 321.35 +/- 5	2R4	4	0	4,409,634:03:0
990	98	88	15:46:26.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,634:03:0
991	98	88	15:46:27.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 321.47 +/- 5	2R4	4	0	4,409,634:05:1
992	98	88	15:46:33.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 322.71 +/- 5	2R4	4	0	4,409,634:13:0
993	98	88	15:46:34.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 322.77 +/- 5	2R4	4	0	4,409,634:14:8
994	98	88	15:46:35.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 322.65 +/- 5	2R4	4	0	4,409,634:16:9
995	98	88	15:46:36.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 322.47 +/- 5	2R4	4	0	4,409,634:18:0
996	98	88	15:46:49.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,634:37:0
997	98	88	15:46:49.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 319.51 +/- 5	2R4	4	0	4,409,634:37:0
998	98	88	15:46:50.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 319.45 +/- 5	2R4	4	0	4,409,634:38:8
999	98	88	15:52:28.400	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R4	4	0	4,409,640:00:0
1000	98	88	15:53:19.733	117GE	**CSMOS**	GS	***** GROUP START CSMOS	2R4	4	0	4,409,640:77:0
1001	98	88	15:53:29.066	117GE105A106A4A	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,641:00:0
1002	98	88	15:54:22.400	117GE105A106A4B	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,641:80:0
1003	98	88	15:54:35.733	117GE105A106A4C	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,642:09:0
1004	98	88	15:55:29.066	117GE105A106A4D	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,642:89:0
1005	98	88	15:55:42.400	117GE105A106A4E	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,643:18:0
1006	98	88	15:56:35.733	117GE105A106A4F	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,644:07:0
1007	98	88	15:56:49.066	117GE105A106A4G	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,644:27:0
1008	98	88	15:57:42.400	117GE105A106A4H	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,645:16:0
1009	98	88	15:57:55.733	117GE105A106A4I	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,645:36:0
1010	98	88	15:58:49.066	117GE105A106A4J	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,646:25:0
1011	98	88	15:59:02.400	117GE105A106A4K	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,646:45:0
1012	98	88	15:59:55.733	117GE105A106A4L	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,647:34:0
1013	98	88	16:00:09.066	117GE105A106A4M	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,647:54:0
1014	98	88	16:01:02.400	117GE105A106A4N	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,648:43:0
1015	98	88	16:01:15.733	117GE105A106A4O	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,648:63:0
1016	98	88	16:02:09.066	117GE105A106A4P	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,649:52:0
1017	98	88	16:02:22.400	117GE105A106A4Q	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,649:72:0
1018	98	88	16:03:15.733	117GE105A106A4R	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,650:61:0
1019	98	88	16:03:29.066	117GE105A106A4S	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,650:81:0
1020	98	88	16:04:22.400	117GE105A106A4T	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,651:70:0
1021	98	88	16:04:35.733	117GE105A106A4U	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,651:90:0
1022	98	88	16:05:03.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 319.45 +/- 5	2R4	4	0	4,409,652:40:0
1023	98	88	16:05:03.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,652:40:0
1024	98	88	16:05:04.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 319.57 +/- 5	2R4	4	0	4,409,652:42:1
1025	98	88	16:05:09.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 320.80 +/- 5	2R4	4	0	4,409,652:50:0
1026	98	88	16:05:10.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 320.86 +/- 5	2R4	4	0	4,409,652:51:8
1027	98	88	16:05:12.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 320.74 +/- 5	2R4	4	0	4,409,652:53:9
1028	98	88	16:05:28.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 316.97 +/- 5	2R4	4	0	4,409,652:78:0
1029	98	88	16:05:29.066	117GE105A106A4V	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,652:79:0
1030	98	88	16:05:42.400	117GE105A106A4W	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,653:08:0
1031	98	88	16:05:51.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,653:21:0
1032	98	88	16:05:51.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 311.66 +/- 5	2R4	4	0	4,409,653:21:0
1033	98	88	16:05:52.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 311.60 +/- 5	2R4	4	0	4,409,653:22:8
1034	98	88	16:06:35.733	117GE105A106A4X	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,653:88:0
1035	98	88	16:06:49.066	117GE105A106A4Y	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,654:17:0
1036	98	88	16:07:42.400	117GE105A106A4Z	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,655:06:0
1037	98	88	16:07:55.733	117GE105A106A4AA	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,655:26:0
1038	98	88	16:08:49.066	117GE105A106A4AB	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,656:15:0
1039	98	88	16:09:02.400	117GE105A106A4AC	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,656:35:0
1040	98	88	16:09:55.733	117GE105A106A4AD	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,657:24:0
1041	98	88	16:10:09.066	117GE105A106A4AE	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,657:44:0
1042	98	88	16:11:02.400	117GE105A106A4AF	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,658:33:0
1043	98	88	16:11:15.733	117GE105A106A4AG	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,658:53:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	98	88	16:12:09.066	117GE105A106A4AH	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,659:42:0	
1045	98	88	16:12:22.400	117GE105A106A4AI	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,659:62:0	
1046	98	88	16:13:15.733	117GE105A106A4AJ	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,660:51:0	
1047	98	88	16:13:29.066	117GE105A106A4AK	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,660:71:0	
1048	98	88	16:14:22.400	117GE105A106A4AL	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,661:60:0	
1049	98	88	16:14:35.733	117GE105A106A4AM	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,661:80:0	
1050	98	88	16:15:29.066	117GE105A106A4AN	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,662:69:0	
1051	98	88	16:15:42.400	117GE105A106A4AO	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,662:89:0	
1052	98	88	16:16:35.733	117GE105A106A4AP	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,663:78:0	
1053	98	88	16:16:49.066	117GE105A106A4AQ	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,664:07:0	
1054	98	88	16:17:42.400	117GE105A106A4AR	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,664:87:0	
1055	98	88	16:17:55.733	117GE105A106A4AS	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,665:16:0	
1056	98	88	16:18:05.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 311.60 +/- 5	2R4	4	0	4,409,665:30:0	
1057	98	88	16:18:05.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,665:30:0	
1058	98	88	16:18:06.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 311.72 +/- 5	2R4	4	0	4,409,665:32:1	
1059	98	88	16:18:11.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 312.96 +/- 5	2R4	4	0	4,409,665:40:0	
1060	98	88	16:18:12.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 313.02 +/- 5	2R4	4	0	4,409,665:41:8	
1061	98	88	16:18:14.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 312.90 +/- 5	2R4	4	0	4,409,665:43:9	
1062	98	88	16:18:30.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 309.13 +/- 5	2R4	4	0	4,409,665:68:0	
1063	98	88	16:18:49.066	117GE105A106A4AT	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,666:05:0	
1064	98	88	16:18:53.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,666:11:0	
1065	98	88	16:18:53.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 303.82 +/- 5	2R4	4	0	4,409,666:11:0	
1066	98	88	16:18:54.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 303.76 +/- 5	2R4	4	0	4,409,666:12:8	
1067	98	88	16:19:02.400	117GE105A106A4AU	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,666:25:0	
1068	98	88	16:19:55.733	117GE105A106A4AV	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,667:14:0	
1069	98	88	16:20:09.066	117GE105A106A4AW	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,667:34:0	
1070	98	88	16:21:02.400	117GE105A106A4AX	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,668:23:0	
1071	98	88	16:21:15.733	117GE105A106A4AY	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,668:43:0	
1072	98	88	16:22:09.066	117GE105A106A4AZ	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,669:32:0	
1073	98	88	16:22:22.400	117GE105A106A4BA	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,669:52:0	
1074	98	88	16:23:15.733	117GE105A106A4BB	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,670:41:0	
1075	98	88	16:23:29.066	117GE105A106A4BC	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,670:61:0	
1076	98	88	16:24:22.400	117GE105A106A4BD	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,671:50:0	
1077	98	88	16:24:35.733	117GE105A106A4BE	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,671:70:0	
1078	98	88	16:25:29.066	117GE105A106A4BF	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,672:59:0	
1079	98	88	16:25:42.400	117GE105A106A4BG	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,672:79:0	
1080	98	88	16:26:35.733	117GE105A106A4BH	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,673:68:0	
1081	98	88	16:26:49.066	117GE105A106A4BI	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,673:88:0	
1082	98	88	16:27:42.400	117GE105A106A4BJ	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,674:77:0	
1083	98	88	16:27:55.733	117GE105A106A4BK	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,675:06:0	
1084	98	88	16:28:49.066	117GE105A106A4BL	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,675:86:0	
1085	98	88	16:29:02.400	117GE105A106A4BM	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,676:15:0	
1086	98	88	16:29:55.733	117GE105A106A4BN	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,677:04:0	
1087	98	88	16:30:09.066	117GE105A106A4BO	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,677:24:0	
1088	98	88	16:31:02.400	117GE105A106A4BP	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,678:13:0	
1089	98	88	16:31:07.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 303.76 +/- 5	2R4	4	0	4,409,678:20:0	
1090	98	88	16:31:07.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,678:20:0	
1091	98	88	16:31:08.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 303.88 +/- 5	2R4	4	0	4,409,678:22:1	
1092	98	88	16:31:13.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 305.11 +/- 5	2R4	4	0	4,409,678:30:0	
1093	98	88	16:31:14.933		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 305.17 +/- 5	2R4	4	0	4,409,678:31:8	
1094	98	88	16:31:15.733	117GE105A106A4BQ	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,678:33:0	
1095	98	88	16:31:16.333		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 305.05 +/- 5	2R4	4	0	4,409,678:33:9	
1096	98	88	16:31:32.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 301.29 +/- 5	2R4	4	0	4,409,678:58:0	
1097	98	88	16:31:55.066	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,679:01:0	
1098	98	88	16:31:55.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 295.97 +/- 5	2R4	4	0	4,409,679:01:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	88	16:31:56.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 295.91 +/- 5	2R4	4	0	4,409,679:02:8	
1100	98	88	16:32:09.066	117GE105A106A4BR	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,679:22:0	
1101	98	88	16:32:22.400	117GE105A106A4BS	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,679:42:0	
1102	98	88	16:33:15.733	117GE105A106A4BT	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,680:31:0	
1103	98	88	16:33:29.066	117GE105A106A4BU	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,680:51:0	
1104	98	88	16:34:22.400	117GE105A106A4BV	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,681:40:0	
1105	98	88	16:34:35.733	117GE105A106A4BW	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,681:60:0	
1106	98	88	16:35:29.066	117GE105A106A4BX	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,682:49:0	
1107	98	88	16:35:42.400	117GE105A106A4BY	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,682:69:0	
1108	98	88	16:36:35.733	117GE105A106A4BZ	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,683:58:0	
1109	98	88	16:36:49.066	117GE105A106A4CA	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,683:78:0	
1110	98	88	16:37:42.400	117GE105A106A4CB	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,684:67:0	
1111	98	88	16:37:55.733	117GE105A106A4CC	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,684:87:0	
1112	98	88	16:38:49.066	117GE105A106A4CD	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,685:76:0	
1113	98	88	16:39:02.400	117GE105A106A4CE	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,686:05:0	
1114	98	88	16:39:55.733	117GE105A106A4CF	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,686:85:0	
1115	98	88	16:40:09.066	117GE105A106A4CG	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,687:14:0	
1116	98	88	16:41:02.400	117GE105A106A4CH	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,688:03:0	
1117	98	88	16:41:15.733	117GE105A106A4CI	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,688:23:0	
1118	98	88	16:42:09.066	117GE105A106A4CJ	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,689:12:0	
1119	98	88	16:42:22.400	117GE105A106A4CK	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,689:32:0	
1120	98	88	16:43:15.733	117GE105A106A4CL	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,690:21:0	
1121	98	88	16:43:29.066	117GE105A106A4CM	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,690:41:0	
1122	98	88	16:44:09.733	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,691:11:0	
1123	98	88	16:44:09.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 295.91 +/- 5	2R4	4	0	4,409,691:11:0	
1124	98	88	16:44:11.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 296.03 +/- 5	2R4	4	0	4,409,691:13:1	
1125	98	88	16:44:16.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 297.27 +/- 5	2R4	4	0	4,409,691:21:0	
1126	98	88	16:44:17.600		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 297.33 +/- 5	2R4	4	0	4,409,691:22:8	
1127	98	88	16:44:19.000		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 297.21 +/- 5	2R4	4	0	4,409,691:24:9	
1128	98	88	16:44:22.400	117GE105A106A4CN	7STRP	-0.00015,0.00093	Slew =17.01	2R4	4	0	4,409,691:30:0	
1129	98	88	16:44:34.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 293.60 +/- 5	2R4	4	0	4,409,691:48:0	
1130	98	88	16:44:35.733	117GE105A106A4CO	7STRP	0.025506,0.0,0,0	Slew =,0.51	2R4	4	0	4,409,691:50:0	
1131	98	88	16:44:57.066		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 288.29 +/- 5	2R4	4	0	4,409,691:82:0	
1132	98	88	16:44:57.066	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,691:82:0	
1133	98	88	16:44:58.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 288.23 +/- 5	2R4	4	0	4,409,691:83:8	
1134	98	88	16:45:29.066	117GE105A106B4A	7STRP	0.035014,0.0,0,0	Slew =17.01	2R4	4	0	4,409,692:39:0	
1135	98	88	16:45:34.400	117GE105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.51	2R4	4	0	4,409,692:47:0	
1136	98	88	16:46:35.066	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	2R4	4	0	4,409,693:47:0	
1137	98	88	16:47:04.400	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R4	4	0	4,409,694:00:0	
1138	98	88	16:47:06.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 288.23 +/- 5	2R4	4	0	4,409,694:03:0	
1139	98	88	16:47:06.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R4	4	0	4,409,694:03:0	
1140	98	88	16:47:07.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 288.35 +/- 5	2R4	4	0	4,409,694:05:1	
1141	98	88	16:47:13.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 289.58 +/- 5	2R4	4	0	4,409,694:13:0	
1142	98	88	16:47:14.266		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 289.64 +/- 5	2R4	4	0	4,409,694:14:8	
1143	98	88	16:47:15.666		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 289.52 +/- 5	2R4	4	0	4,409,694:16:9	
1144	98	88	16:47:16.400		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 289.35 +/- 5	2R4	4	0	4,409,694:18:0	
1145	98	88	16:47:28.400	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,694:36:0	
1146	98	88	16:47:28.400		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 286.54 +/- 5	2R4	4	0	4,409,694:36:0	
1147	98	88	16:47:29.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 286.48 +/- 5	2R4	4	0	4,409,694:37:8	
1148	98	88	16:49:59.733	465KF6A	6DTRN	CMD,6DTRN,465KF6	DMS TRACK TURNAROUND	2R4	4	0	4,409,696:81:0	
1149	98	88	16:49:59.733		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 286.48 +/- 5	2R4	4	0	4,409,696:81:0	
1150	98	88	16:49:59.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 286.48 +/- 5	2R4	4	0	4,409,696:81:0	
1151	98	88	16:50:01.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 286.60 +/- 5	2R4	4	0	4,409,696:83:1	
1152	98	88	16:50:06.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 287.83 +/- 5	2R4	4	0	4,409,697:00:0	
1153	98	88	16:50:07.600		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 287.89 +/- 5	2R4	4	0	4,409,697:01:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	98	88	16:50:09.000		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 287.77 +/- 5	2R4	4	0	4,409,697:03:9	
1155	98	88	16:56:24.000		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 5	2R4	4	0	4,409,703:20:4	
1156	98	88	16:56:25.200		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 5	2R4	4	0	4,409,703:22:2	
1157	98	88	16:56:25.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 5	2R4	4	0	4,409,703:22:2	
1158	98	88	16:56:26.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2R4	4	0	4,409,703:24:3	
1159	98	88	16:56:38.600		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2R4	4	0	4,409,703:42:3	
1160	98	88	16:56:39.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2R4	4	0	4,409,703:44:1	
1161	98	88	19:20:37.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2R4	4	0	4,409,845:79:0	
1162	98	88	19:20:37.733	465KG6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2R4	4	0	4,409,845:79:0	
1163	98	88	19:20:44.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2R4	4	0	4,409,845:89:0	
1164	98	88	19:20:45.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	2R4	4	0	4,409,846:00:1	
1165	98	88	19:20:45.800		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	2R4	4	0	4,409,846:00:1	
1166	98	88	19:20:59.733	165II4A	7SCAN	NORM,51.572,20.2	Check S/P Position	2R4	4	0	4,409,846:21:0	
1167	98	88	19:21:46.400	465KG6B	6DMSC	RDY,1	DMS Control Tape stop	2R4	4	0	4,409,847:00:0	
1168	98	88	19:21:46.400		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 216.45 +/-	2R4	4	0	4,409,847:00:0	
1169	98	88	19:21:47.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	2R4	4	0	4,409,847:01:8	
1170	98	88	19:22:51.066	118II	**SMOS**	GS		2R4	4	0	4,409,848:06:0	
1171	98	88	19:23:11.733	175JI422A6A	6DMSC	R806,1	DMS Control	2R4	4	0	4,409,848:37:0	
1172	98	88	19:23:11.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 216.51 +/-	2R4	4	0	4,409,848:37:0	
1173	98	88	19:23:18.400		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 216.51 +/-	2R4	4	0	4,409,848:47:0	
1174	98	88	19:23:20.400	165II4B	7VECT		Inert vect update UTC	2R4	4	0	4,409,848:50:0	
1175	98	88	19:23:23.066	175JI176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R4	4	0	4,409,848:54:0	
1176	98	88	19:23:23.666		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 282.51 +/-	2R4	4	0	4,409,848:54:9	
1177	98	88	19:23:23.666		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC * 282.51 +/-	2R4	4	0	4,409,848:54:9	
1178	98	88	19:23:23.733	118II110A111A4A	7STRP	0.0,-0.00764,26,	Slew =,3.91	2R4	4	0	4,409,848:55:0	
1179	98	88	19:23:41.066	118II110A111B4A	7STRP	-0.00764,0.01392	Slew =0,4.4	2R4	4	0	4,409,848:81:0	
1180	98	88	19:23:49.733	118II110A111B4B	7STRP	0.0,-0.00764,26,	Slew =,3.91	2R4	4	0	4,409,849:03:0	
1181	98	88	19:23:58.400	118II110A111A4B	7STRP	0.00764,0.009,0,	Slew =0,4.4	2R4	4	0	4,409,849:16:0	
1182	98	88	19:24:07.066	118II110A111A4C	7STRP	0.0,-0.00764,26,	Slew =,3.91	2R4	4	0	4,409,849:29:0	
1183	98	88	19:24:24.400	118II110A111B4C	7STRP	-0.00764,0.01392	Slew =0,4.4	2R4	4	0	4,409,849:55:0	
1184	98	88	19:24:33.066	118II110A111B4D	7STRP	0.0,-0.00764,26,	Slew =,3.91	2R4	4	0	4,409,849:68:0	
1185	98	88	19:24:41.733	118II110A111A4D	7STRP	0.00764,0.009,0,	Slew =0,4.4	2R4	4	0	4,409,849:81:0	
1186	98	88	19:24:50.400	118II110A111A4E	7STRP	0.0,-0.00764,26,	Slew =,3.91	2R4	4	0	4,409,850:03:0	
1187	98	88	19:25:07.733	118II110A111B4E	7STRP	-0.00764,0.01392	Slew =0,4.4	2R4	4	0	4,409,850:29:0	
1188	98	88	19:25:16.400	118II110A111B4F	7STRP	0.0,-0.00764,26,	Slew =,3.91	2R4	4	0	4,409,850:42:0	
1189	98	88	19:25:25.066	118II11A	**SMOS**	GE		2R4	4	0	4,409,850:55:0	
1190	98	88	19:25:31.733	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,850:65:0	
1191	98	88	19:25:31.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *3434.15 +/-	2R4	4	0	4,409,850:65:0	
1192	98	88	19:25:34.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3445.65 +/-	2R4	4	0	4,409,850:69:1	
1193	98	88	19:25:41.066	118JI	**SMOS**	GS		2R4	4	0	4,409,850:79:0	
1194	98	88	19:25:47.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3445.65 +/-	2R4	4	0	4,409,850:89:0	
1195	98	88	19:25:47.733	175II422A6A	6DMSC	R806,1	DMS Control	2R4	4	0	4,409,850:89:0	
1196	98	88	19:25:51.066	118JI110A111A4A	7STRP	0.0,0.00764,26,0	Slew =,3.91	2R4	4	0	4,409,851:03:0	
1197	98	88	19:25:54.400		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 3445.65 +/-	2R4	4	0	4,409,851:08:0	
1198	98	88	19:25:59.066	175II176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R4	4	0	4,409,851:15:0	
1199	98	88	19:25:59.666		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *3511.65 +/-	2R4	4	0	4,409,851:15:9	
1200	98	88	19:25:59.666		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 3511.65 +/-	2R4	4	0	4,409,851:15:9	
1201	98	88	19:25:59.733	118JI110A111A4B	7STRP	0.00764,-0.00628	Slew =,3.91	2R4	4	0	4,409,851:16:0	
1202	98	88	19:26:08.400	118JI110A111A4C	7STRP	0.0,0.00764,26,0	Slew =,3.91	2R4	4	0	4,409,851:29:0	
1203	98	88	19:26:17.066	118JI11A	**SMOS**	GE		2R4	4	0	4,409,851:42:0	
1204	98	88	19:26:23.733	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,409,851:52:0	
1205	98	88	19:26:23.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *4103.91 +/-	2R4	4	0	4,409,851:52:0	
1206	98	88	19:26:26.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4115.41 +/-	2R4	4	0	4,409,851:56:1	
1207	98	88	19:40:31.066	488AF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R4	4	0	4,409,865:49:0	
1208	98	88	20:19:10.400	488AF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R4	4	0	4,409,903:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1209	98	88	22:44:07.733	20MC6A	6CKSUM	MAG,4040,46F0		2R4	4	0	4,410,047:12:0
1210	98	88	22:45:04.400	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	2R4	4	0	4,410,048:06:0
1211	98	88	22:45:04.400	480MB6	6MROH	12	read from LLM1A12,2282,0,A2	2R4	4	0	4,410,048:06:0
1212	98	88	23:58:39.733	165IJ4A	7SCAN	NORM,348.296997,	Check S/P Position	2R4	4	0	4,410,120:77:0
1213	98	89	00:08:37.066	175JJ422A6A	6DMSC	R806,1	DMS Control	2R4	4	0	4,410,130:63:0
1214	98	89	00:08:37.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4115.41 +/-	2R4	4	0	4,410,130:63:0
1215	98	89	00:08:43.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 4115.41 +/-	2R4	4	0	4,410,130:73:0
1216	98	89	00:08:45.733	165IJ4B	7VECT		Inert vect update UTC	2R4	4	0	4,410,130:76:0
1217	98	89	00:08:48.400	175JJ176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R4	4	0	4,410,130:80:0
1218	98	89	00:08:49.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4181.41 +/- 1	2R4	4	0	4,410,130:80:9
1219	98	89	00:08:49.000		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *4181.41 +/-	2R4	4	0	4,410,130:80:9
1220	98	89	00:08:55.733		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *4347.12 +/- 1	2R4	4	0	4,410,131:00:0
1221	98	89	00:08:55.733	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,410,131:00:0
1222	98	89	00:08:58.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4358.62 +/- 1	2R4	4	0	4,410,131:04:1
1223	98	89	00:09:17.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4358.62 +/- 1	2R4	4	0	4,410,131:32:0
1224	98	89	00:09:17.066	175IJ422A6A	6DMSC	R115,1	DMS Control	2R4	4	0	4,410,131:32:0
1225	98	89	00:09:23.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4358.62 +/- 1	2R4	4	0	4,410,131:42:0
1226	98	89	00:09:27.066	175IJ176A6A	6TMREC	HIS	115.2 KBPS SSI + NIMS RECORD Record Mode	2R4	4	0	4,410,131:47:0
1227	98	89	00:09:27.733		DMS:	: *RECORD	R115, TRACK 1, FWD, TIC *4364.92 +/- 1	2R4	4	0	4,410,131:48:0
1228	98	89	00:09:27.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4364.92 +/- 1	2R4	4	0	4,410,131:48:0
1229	98	89	00:09:56.400		DMS:	: *RUNDOWN	R115, TRACK 1, FWD, TIC *4465.70 +/- 1	2R4	4	0	4,410,132:00:0
1230	98	89	00:09:56.400	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,410,132:00:0
1231	98	89	00:09:57.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4466.70 +/- 1	2R4	4	0	4,410,132:01:8
1232	98	89	01:59:59.733	481UB4A	7VECT	BB1	Inert vect update UTC	2R4	4	0	4,410,240:77:0
1233	98	89	02:22:30.400	165IM4A	7SCAN	NORM,38.089,16.6	Check S/P Position	2R4	4	0	4,410,263:10:0
1234	98	89	02:26:25.066	165IM4B	7VECT		Inert vect update UTC	2R4	4	0	4,410,266:89:0
1235	98	89	02:26:30.400	118IM	**SMOS**	GS		2R4	4	0	4,410,267:06:0
1236	98	89	02:26:59.733	175IM422A6A	6DMSC	R806,1	DMS Control	2R4	4	0	4,410,267:50:0
1237	98	89	02:26:59.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4466.70 +/- 1	2R4	4	0	4,410,267:50:0
1238	98	89	02:27:03.066	118IM110A111A4A	7STRP	0.0036,0.0,20,0,	Slew =,1.61	2R4	4	0	4,410,267:55:0
1239	98	89	02:27:06.400		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 4466.70 +/- 1	2R4	4	0	4,410,267:60:0
1240	98	89	02:27:09.733	118IM11A	**SMOS**	GE		2R4	4	0	4,410,267:65:0
1241	98	89	02:27:11.066	175IM176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R4	4	0	4,410,267:67:0
1242	98	89	02:27:11.666		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4532.70 +/- 1	2R4	4	0	4,410,267:67:9
1243	98	89	02:27:11.666		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *4532.70 +/- 1	2R4	4	0	4,410,267:67:9
1244	98	89	02:27:15.066	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,410,267:73:0
1245	98	89	02:27:15.066		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *4616.37 +/- 1	2R4	4	0	4,410,267:73:0
1246	98	89	02:27:17.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4627.87 +/- 1	2R4	4	0	4,410,267:77:1
1247	98	89	02:27:27.733	118JM	**SMOS**	GS		2R4	4	0	4,410,268:01:0
1248	98	89	02:27:34.400	175IN422A6A	6DMSC	R806,1	DMS Control	2R4	4	0	4,410,268:11:0
1249	98	89	02:27:34.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4627.87 +/- 1	2R4	4	0	4,410,268:11:0
1250	98	89	02:27:37.733	118JM110A111A4A	7STRP	-0.0036,0.0,20,0	Slew =,1.61	2R4	4	0	4,410,268:16:0
1251	98	89	02:27:41.066		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 4627.87 +/- 1	2R4	4	0	4,410,268:21:0
1252	98	89	02:27:44.400	118JM11A	**SMOS**	GE		2R4	4	0	4,410,268:26:0
1253	98	89	02:27:45.733	175IN176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R4	4	0	4,410,268:28:0
1254	98	89	02:27:46.333		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4693.87 +/- 2	2R4	4	0	4,410,268:28:9
1255	98	89	02:27:46.333		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *4693.87 +/- 1	2R4	4	0	4,410,268:28:9
1256	98	89	02:27:49.733	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,410,268:34:0
1257	98	89	02:27:49.733		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *4777.54 +/- 2	2R4	4	0	4,410,268:34:0
1258	98	89	02:27:52.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4789.04 +/- 2	2R4	4	0	4,410,268:38:1
1259	98	89	03:34:48.400	488AG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2R4	4	0	4,410,334:56:0
1260	**98**	**89**	**04:10:39.066**	**14NNEUR15H01-**		**-----START------**		**2R4**	**4**	**0**	**: :**
1261	**98**	**89**	**04:11:21.000**	**20DI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R4**	**4**	**0**	**4,410,370:69:0**
1262	**98**	**89**	**04:11:28.333**	**20DI5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R4**	**4**	**0**	**4,410,370:80:0**
1263	**98**	**89**	**04:11:39.666**	**20DI6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R4**	**4**	**0**	**4,410,371:06:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1264	98	89	04:11:59.666	20DI6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R4	4	0	4,410,371:36:0
1265	98	89	04:12:17.666	20DI5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,410,371:63:0
1266	98	89	04:12:23.000	20DI5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,410,371:71:0
1267	98	89	04:12:29.000	20DI4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,410,371:80:0
1268	98	89	04:13:29.666	20DI4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,410,372:80:0
1269	98	89	04:14:33.000	125DI	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,410,373:84:0
1270	98	89	04:14:33.000	125DI4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R3	4	0	4,410,373:84:0
1271	98	89	04:14:41.733	14NNEUR15H01-		-----STOP-------		3R3	4	0	: :
1272	98	89	04:14:41.733	14ENEUR15H01-		-----START------		3R3	4	0	: :
1273	98	89	04:15:33.666	125DI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,410,374:84:0
1274	98	89	04:15:33.666	125DI4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	3R3	4	0	4,410,374:84:0
1275	98	89	04:16:34.333	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,410,375:84:0
1276	98	89	04:16:35.000	127DI4A	37ETB	07,C7,31,BD,C8,0	Loads wavelength edit table	3R3	4	0	4,410,375:85:0
1277	98	89	04:16:43.000	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,410,376:06:0
1278	98	89	04:20:41.000	165DI4A	7SCAN	NORM,50.138,20.4	Check S/P Position	3R3	4	0	4,410,379:90:0
1279	98	89	04:24:33.000	175DI422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	4,410,383:74:0
1280	98	89	04:24:33.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4789.04 +/- 2	3R3	4	0	4,410,383:74:0
1281	98	89	04:24:35.000	117DI	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	4,410,383:77:0
1282	98	89	04:24:39.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4789.04 +/- 2	3R3	4	0	4,410,383:84:0
1283	98	89	04:24:41.000	175DI176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,410,383:86:0
1284	98	89	04:24:41.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4789.16 +/- 2	3R3	4	0	4,410,383:86:1
1285	98	89	04:24:41.066		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *4789.16 +/- 2	3R3	4	0	4,410,383:86:1
1286	98	89	04:24:43.000	165DI4B	7VECT		Inert vect update UTC	3R3	4	0	4,410,383:89:0
1287	98	89	04:24:44.333	14ENEUR15H01-	NIMPBK	301DF	14ENEUR15H01	3R3	4	0	: :
1288	98	89	04:24:44.333	117DI105A106A4A	7STRP	-0.0057,0.0,0,0,	Slew =,0.02	3R3	4	0	4,410,384:00:0
1289	98	89	04:29:29.666	14ENEUR15H01-	DESELC	300DF	14ENEUR15H01	3R3	4	0	: :
1290	98	89	04:29:31.666	117DI105A106A4B	7STRP	0.00569,0.0,0,0,	Slew =12.01	3R3	4	0	4,410,388:67:0
1291	98	89	04:29:31.666		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *4857.27 +/- 2	3R3	4	0	4,410,388:67:0
1292	98	89	04:29:31.666	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,410,388:67:0
1293	98	89	04:29:31.666	175DI6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	4,410,388:67:0
1294	98	89	04:29:32.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4857.33 +/- 2	3R3	4	0	4,410,388:68:8
1295	98	89	04:30:43.666	125EI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,410,389:84:0
1296	98	89	04:30:43.666	125EI4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,410,389:84:0
1297	98	89	04:30:43.666	127EI	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,410,389:84:0
1298	98	89	04:30:43.666	125EI	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,410,389:84:0
1299	98	89	04:30:44.333	127EI4A	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	4,410,389:85:0
1300	98	89	04:30:52.333	127EI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,410,390:06:0
1301	98	89	04:31:00.333	175EI422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	4,410,390:18:0
1302	98	89	04:31:00.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4857.33 +/- 2	4R3	4	0	4,410,390:18:0
1303	98	89	04:31:07.000		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4857.33 +/- 2	4R3	4	0	4,410,390:28:0
1304	98	89	04:31:10.333	175EI176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,410,390:33:0
1305	98	89	04:31:11.000	14ENEUR15H01-	NIMPBK	301EF	14ENEUR15H01	4R3	4	0	: :
1306	98	89	04:31:11.000		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4858.83 +/- 2	4R3	4	0	4,410,390:34:0
1307	98	89	04:31:11.000		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *4858.83 +/- 2	4R3	4	0	4,410,390:34:0
1308	98	89	04:31:41.000	117DI105A106A4C	7STRP	-0.0057,0.0,0,0,	Slew =,0.02	4R3	4	0	4,410,390:79:0
1309	98	89	04:35:54.333	14ENEUR15H01-	DESELC	300EF	14ENEUR15H01	4R3	4	0	: :
1310	98	89	04:35:55.000		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *5108.44 +/- 2	4R3	4	0	4,410,395:05:0
1311	98	89	04:35:55.000	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,410,395:05:0
1312	98	89	04:35:56.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5108.74 +/- 2	4R3	4	0	4,410,395:06:8
1313	98	89	04:36:28.333	117DI11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,410,395:55:0
1314	98	89	04:41:59.733	14ENEUR15H01-		-----STOP-------		4R3	4	0	: :
1315	98	89	04:49:28.333	488AG6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4R3	4	0	4,410,408:42:0
1316	98	89	05:57:44.333	488AG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,410,475:89:0
1317	98	89	06:33:26.333	488AG6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,410,511:26:0
1318	98	89	07:10:37.733	14NNEUR17H01-		-----START------		4R3	4	0	: :

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1319	98	89	07:11:19.666	20DJ5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,410,548:69:0
1320	98	89	07:11:27.000	20DJ5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,410,548:80:0
1321	98	89	07:11:38.333	20DJ6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,410,549:06:0
1322	98	89	07:11:48.333	20DJ6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,410,549:21:0
1323	98	89	07:12:05.000	20DJ5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,410,549:46:0
1324	98	89	07:12:11.666	20DJ5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,410,549:56:0
1325	98	89	07:12:27.666	20DJ4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,410,549:80:0
1326	98	89	07:13:28.333	20DJ4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,410,550:80:0
1327	98	89	07:14:40.400	14NNEUR17H01-		-----STOP-------		2R3	4	0	: :
1328	98	89	07:15:32.333	125DJ	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,410,552:84:0
1329	98	89	07:15:32.333	125DJ4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R3	4	0	4,410,552:84:0
1330	98	89	07:15:41.066	14ENEUR17H01-		-----START------		3R3	4	0	: :
1331	98	89	07:16:33.000	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,410,553:84:0
1332	98	89	07:16:33.000	125DJ4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	3R3	4	0	4,410,553:84:0
1333	98	89	07:18:34.333	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,410,555:84:0
1334	98	89	07:18:35.000	127DJ4A	37ETB	07,C7,31,BD,C8,0	Loads wavelength edit table	3R3	4	0	4,410,555:85:0
1335	98	89	07:18:43.000	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,410,556:06:0
1336	98	89	07:20:39.666	165DJ4A	7SCAN	NORM,51.367,20.7	Check S/P Position	3R3	4	0	4,410,557:90:0
1337	98	89	07:24:31.666	175DJ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	4,410,561:74:0
1338	98	89	07:24:31.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5108.74 +/- 2	3R3	4	0	4,410,561:74:0
1339	98	89	07:24:33.666	117DJ	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	4,410,561:77:0
1340	98	89	07:24:38.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5108.74 +/- 2	3R3	4	0	4,410,561:84:0
1341	98	89	07:24:39.666	175DJ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,410,561:86:0
1342	98	89	07:24:39.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5108.86 +/- 2	3R3	4	0	4,410,561:86:1
1343	98	89	07:24:39.733		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5108.86 +/- 2	3R3	4	0	4,410,561:86:1
1344	98	89	07:24:41.666	165DJ4B	7VECT		Inert vect update UTC	3R3	4	0	4,410,561:89:0
1345	98	89	07:24:43.000	117DJ105A106A4A	7STRP	-0.0048,0.0,0,0,	Slew =,0.02	3R3	4	0	4,410,562:00:0
1346	98	89	07:25:30.333	488AG6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3R3	4	0	4,410,562:71:0
1347	98	89	07:28:45.666	117DJ105A106A4B	7STRP	0.0048,0.0,0,0,0	Slew =12.01	3R3	4	0	4,410,566:00:0
1348	98	89	07:28:55.000	175DJ6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	4,410,566:14:0
1349	98	89	07:28:55.000	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,410,566:14:0
1350	98	89	07:28:55.000		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5168.69 +/- 2	3R3	4	0	4,410,566:14:0
1351	98	89	07:28:56.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5168.75 +/- 2	3R3	4	0	4,410,566:15:8
1352	98	89	07:29:41.666	125EJ4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,410,566:84:0
1353	98	89	07:29:41.666	127EJ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,410,566:84:0
1354	98	89	07:29:41.666	125EJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,410,566:84:0
1355	98	89	07:29:41.666	125EJ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,410,566:84:0
1356	98	89	07:29:42.333	127EJ4A	37ETB	07,C7,30,05,FF,0	Loads wavelength edit table	4R3	4	0	4,410,566:85:0
1357	98	89	07:29:50.333	127EJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,410,567:06:0
1358	98	89	07:30:55.000	117DJ105A106A4C	7STRP	-0.0048,0.0,0,0,	Slew =,0.02	4R3	4	0	4,410,568:12:0
1359	98	89	07:31:01.000	175EJ422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,410,568:21:0
1360	98	89	07:31:01.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5168.75 +/- 2	4R3	4	0	4,410,568:21:0
1361	98	89	07:31:07.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5168.75 +/- 2	4R3	4	0	4,410,568:31:0
1362	98	89	07:31:09.000	175EJ176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,410,568:33:0
1363	98	89	07:31:09.066		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5168.87 +/- 2	4R3	4	0	4,410,568:33:1
1364	98	89	07:31:09.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5168.87 +/- 2	4R3	4	0	4,410,568:33:1
1365	98	89	07:31:09.666	14ENEUR17H01-	NIMPBK	301EG	14ENEUR17H01	4R3	4	0	: :
1366	98	89	07:34:57.666	117DJ11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,410,572:12:0
1367	98	89	07:35:10.333	14ENEUR17H01-	DESELC	300EG	14ENEUR17H01	4R3	4	0	: :
1368	98	89	07:35:12.333		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5225.88 +/- 2	4R3	4	0	4,410,572:34:0
1369	98	89	07:35:12.333	175EJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,410,572:34:0
1370	98	89	07:35:12.333	175EJ6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,410,572:34:0
1371	98	89	07:35:13.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5225.94 +/- 2	4R3	4	0	4,410,572:35:8
1372	98	89	07:41:58.400	14ENEUR17H01-		-----STOP-------		4R3	4	0	: :
1373	98	89	08:12:08.333	488AH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,410,608:82:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	98	89	09:10:57.066	14NNEUR20H01-		-----START------		4R3	4	0	: :	
1375	98	89	09:11:39.000	20DK5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	4,410,667:69:0	
1376	98	89	09:11:46.333	20DK5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	4,410,667:80:0	
1377	98	89	09:11:57.666	20DK6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	4,410,668:06:0	
1378	98	89	09:12:07.666	20DK6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	4,410,668:21:0	
1379	98	89	09:12:24.333	20DK5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,410,668:46:0	
1380	98	89	09:12:37.666	20DK5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,410,668:66:0	
1381	98	89	09:12:47.000	20DK4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,410,668:80:0	
1382	98	89	09:13:47.666	20DK4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,410,669:80:0	
1383	98	89	09:14:59.733	14ENEUR20H01-		-----START------		2R3	4	0	: :	
1384	98	89	09:14:59.733	14NNEUR20H01-		-----STOP-------		2R3	4	0	: :	
1385	98	89	09:15:51.666	125DK4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R3	4	0	4,410,671:84:0	
1386	98	89	09:15:51.666	125DK	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,410,671:84:0	
1387	98	89	09:16:52.333	125DK4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	3R3	4	0	4,410,672:84:0	
1388	98	89	09:16:52.333	125DK11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,410,672:84:0	
1389	98	89	09:19:54.333	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,410,675:84:0	
1390	98	89	09:19:55.000	127DK4A	37ETB	07,C7,31,BD,C8,0	Loads wavelength edit table	3R3	4	0	4,410,675:85:0	
1391	98	89	09:20:03.000	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,410,676:06:0	
1392	98	89	09:20:59.000	165DK4A	7SCAN	NORM,52.65,21.08	Check S/P Position	3R3	4	0	4,410,676:90:0	
1393	98	89	09:24:51.000	175DK422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	4,410,680:74:0	
1394	98	89	09:24:51.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5225.94 +/- 2	3R3	4	0	4,410,680:74:0	
1395	98	89	09:24:53.000	117DK	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	4,410,680:77:0	
1396	98	89	09:24:57.666		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5225.94 +/- 2	3R3	4	0	4,410,680:84:0	
1397	98	89	09:24:59.000	175DK176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,410,680:86:0	
1398	98	89	09:24:59.066		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5226.06 +/- 2	3R3	4	0	4,410,680:86:1	
1399	98	89	09:24:59.066		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5226.06 +/- 2	3R3	4	0	4,410,680:86:1	
1400	98	89	09:25:01.000	165DK4B	7VECT		Inert vect update UTC	3R3	4	0	4,410,680:89:0	
1401	98	89	09:25:02.333	117DK105A106A4A	7STRP	-0.004,0.0,0,0,0	Slew =,0.02	3R3	4	0	4,410,681:00:0	
1402	98	89	09:28:25.000	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,410,684:31:0	
1403	98	89	09:28:25.000		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5274.33 +/- 2	3R3	4	0	4,410,684:31:0	
1404	98	89	09:28:25.000	175DK6A	6TMREC	NRC	NO RECORD Record Mode Change	3R3	4	0	4,410,684:31:0	
1405	98	89	09:28:25.666	117DK105A106A4B	7STRP	0.004,0.0,0,0,0,	Slew =12.01	3R3	4	0	4,410,684:32:0	
1406	98	89	09:28:26.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5274.39 +/- 2	3R3	4	0	4,410,684:32:8	
1407	98	89	09:30:01.000	125EK	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,410,685:84:0	
1408	98	89	09:30:01.000	127EK	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,410,685:84:0	
1409	98	89	09:30:01.000	125EK11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,410,685:84:0	
1410	98	89	09:30:01.000	125EK4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,410,685:84:0	
1411	98	89	09:30:01.666	127EK4A	37ETB	07,C7,30,05,FF,0	Loads wavelength edit table	4R3	4	0	4,410,685:85:0	
1412	98	89	09:30:09.666	127EK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,410,686:06:0	
1413	98	89	09:30:19.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5274.39 +/- 2	4R3	4	0	4,410,686:21:0	
1414	98	89	09:30:19.666	175EK422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,410,686:21:0	
1415	98	89	09:30:26.333		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5274.39 +/- 2	4R3	4	0	4,410,686:31:0	
1416	98	89	09:30:27.666	175EK176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,410,686:33:0	
1417	98	89	09:30:27.733		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5274.51 +/- 2	4R3	4	0	4,410,686:33:1	
1418	98	89	09:30:27.733		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5274.51 +/- 2	4R3	4	0	4,410,686:33:1	
1419	98	89	09:30:35.000	14ENEUR20H01-	NIMPBK	301EH	14ENEUR20H01	4R3	4	0	: :	
1420	98	89	09:30:35.000	117DK105A106A4C	7STRP	-0.004,0.0,0,0,0	Slew =,0.02	4R3	4	0	4,410,686:44:0	
1421	98	89	09:33:51.666	14ENEUR20H01-	DESELC	300EH	14ENEUR20H01	4R3	4	0	: :	
1422	98	89	09:33:53.666	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,410,689:69:0	
1423	98	89	09:33:53.666	175EK6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,410,689:69:0	
1424	98	89	09:33:53.666		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5322.77 +/- 2	4R3	4	0	4,410,689:69:0	
1425	98	89	09:33:54.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5322.83 +/- 2	4R3	4	0	4,410,689:70:8	
1426	98	89	09:33:58.333	117DK11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,410,689:76:0	
1427	98	89	09:42:17.733	14ENEUR20H01-		-----STOP-------		4R3	4	0	: :	
1428	98	89	10:28:43.666	165AA4A	7SCAN	NORM,76.790999,2	Check S/P Position	4R3	4	0	4,410,743:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1429	98	89	10:32:45.666	165AA4B	7VECT		Inert vect update UTC	4R3	4	0	4,410,747:89:0	
1430	98	89	11:49:44.333	488AH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4R3	4	0	4,410,824:10:0	
1431	98	89	12:00:43.666	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R3	4	0	4,410,834:89:0	
1432	98	89	12:04:51.666	20ZM6A	6EUVON			4R3	4	0	4,410,839:06:0	
1433	98	89	12:05:48.333	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	4R3	4	0	4,410,840:00:0	
1434	98	89	12:15:55.000	192GA4A	**7CONE**	**17.4,0.0**	Check S/P Position	4R3	4	0	4,410,850:00:0	
1435	98	89	12:22:59.666	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,410,857:00:0	
1436	98	89	12:25:14.333	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,410,859:20:0	
1437	98	89	12:25:16.333	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,410,859:23:0	
1438	98	89	12:25:16.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5322.83 +/- 2	4R3	4	0	4,410,859:23:0	
1439	98	89	12:25:23.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5322.83 +/- 2	4R3	4	0	4,410,859:33:0	
1440	98	89	12:25:24.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *5322.95 +/- 2	4R3	4	0	4,410,859:35:1	
1441	98	89	12:25:26.333		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *5323.41 +/- 2	4R3	4	0	4,410,859:38:0	
1442	98	89	12:25:37.666		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *5326.06 +/- 2	4R3	4	0	4,410,859:55:0	
1443	98	89	12:25:37.666	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,410,859:55:0	
1444	98	89	12:25:38.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5326.12 +/- 2	4R3	4	0	4,410,859:56:8	
1445	98	89	12:26:01.666	192GA4B	**7CONE**	**17.4,90.0**	Check S/P Position	4R3	4	0	4,410,860:00:0	
1446	98	89	13:06:32.333	488AH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,410,900:06:0	
1447	**98**	**89**	**13:36:05.666**	**20FE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,410,929:27:0**	
1448	**98**	**89**	**13:36:07.000**	**20FE5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,410,929:29:0**	
1449	**98**	**89**	**13:36:17.000**	**20FE6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,410,929:44:0**	
1450	**98**	**89**	**13:36:29.000**	**20FE6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,410,929:62:0**	
1451	**98**	**89**	**13:36:45.666**	**20FE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,410,929:87:0**	
1452	**98**	**89**	**13:37:06.333**	**20FE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,410,930:27:0**	
1453	**98**	**89**	**13:38:07.000**	**20FE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,410,931:27:0**	
1454	98	89	13:38:09.666	444FB443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2R0	4	0	4,410,931:31:0	
1455	**98**	**89**	**13:39:07.666**	**20FE4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,410,932:27:0**	
1456	98	89	13:42:09.666	444FB443A4B	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2R3	4	0	4,410,935:27:0	
1457	98	89	13:51:09.666	444FB443A4C	**7CLK**	**17.45,0.0**	Check S/P Position	2R3	4	0	4,410,944:18:0	
1458	**98**	**89**	**13:53:55.000**	**125FB4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**263**	**4**	**0**	**4,410,946:84:0**	
1459	98	89	13:53:55.000	125FB	NIMSINIT	GS	##### GROUP START INIT	263	4	0	4,410,946:84:0	
1460	**98**	**89**	**13:54:55.666**	**125FB4B**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R3**	**4**	**0**	**4,410,947:84:0**	
1461	**98**	**89**	**13:55:56.333**	**125FB4C**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,410,948:84:0**	
1462	98	89	13:55:56.333	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,410,948:84:0	
1463	98	89	13:58:58.333	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,410,951:84:0	
1464	**98**	**89**	**13:58:58.333**	**127FB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,410,951:84:0**	
1465	**98**	**89**	**13:58:59.000**	**127FB4B**	**37ETB**	**0A,CA,19,FF,C0,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,410,951:85:0**	
1466	98	89	13:59:21.000	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,410,952:27:0	
1467	**98**	**89**	**13:59:23.000**	**432FB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,410,952:30:0**	
1468	**98**	**89**	**14:01:23.000**	**432FC6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,410,954:28:0**	
1469	98	89	14:02:05.000	192FC4A	**7CONE**	**17.0,54.88**	Check S/P Position	4R3	4	0	4,410,955:00:0	
1470	98	89	14:02:05.666	192FC4B	**7CLK**	**17.0,244.07**	Check S/P Position	4R3	4	0	4,410,955:01:0	
1471	**98**	**89**	**14:05:27.000**	**432FD6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,410,958:30:0**	
1472	**98**	**89**	**14:15:32.333**	**432FE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,410,968:28:0**	
1473	**98**	**89**	**14:16:09.666**	**127FE4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,410,968:84:0**	
1474	98	89	14:16:09.666	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,410,968:84:0	
1475	**98**	**89**	**14:16:10.333**	**127FE4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,410,968:85:0**	
1476	98	89	14:16:32.333	20FX4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R0	4	0	4,410,969:27:0	
1477	98	89	14:16:32.333	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,410,969:27:0	
1478	**98**	**89**	**14:18:11.000**	**125FE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,410,970:84:0**	
1479	98	89	14:18:11.000	125FE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,410,970:84:0	
1480	**98**	**89**	**14:19:11.666**	**125FE4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,410,971:84:0**	
1481	**98**	**89**	**14:20:12.333**	**125FE4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**4,410,972:84:0**	
1482	98	89	14:20:12.333	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,410,972:84:0	
1483	98	89	14:20:31.000	488AI6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,410,973:21:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1484	98	89	14:21:38.333	444FF443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,410,974:31:0
1485	98	89	14:25:38.333	444FF443A4B	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	4,410,978:27:0
1486	98	89	14:39:51.666	20FH4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,410,992:33:0
1487	98	89	14:40:41.666	20FH4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,410,993:17:0
1488	98	89	14:42:59.666	432OD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,410,995:42:0
1489	98	89	14:43:00.333	432OD6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,410,995:43:0
1490	98	89	14:54:10.333	488AI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,411,006:47:0
1491	98	89	16:29:27.666	20DG5A	37PL		Program Load (halts microprocessor & unwri	4O0	4	0	4,411,100:69:0
1492	98	89	16:29:35.000	20DG5B	37MRL		Memory Realocate (software operates from R	4O0	4	0	4,411,100:80:0
1493	98	89	16:29:36.333	20DG6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4O0	4	0	4,411,100:82:0
1494	98	89	16:29:46.333	20DG6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4O0	4	0	4,411,101:06:0
1495	98	89	16:29:56.333	20DG5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,411,101:21:0
1496	98	89	16:29:57.666	20DG5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,411,101:23:0
1497	98	89	16:30:35.666	20DG4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,411,101:80:0
1498	98	89	16:31:36.333	20DG4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,411,102:80:0
1499	98	89	16:31:43.000	165DG4A	7SCAN	NORM,84.761,25.0	Check S/P Position	2R3	4	0	4,411,102:90:0
1500	98	89	16:32:39.666	125DG	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,411,103:84:0
1501	98	89	16:32:39.666	125DG4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	4,411,103:84:0
1502	98	89	16:33:40.333	125DG11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	4,411,104:84:0
1503	98	89	16:33:40.333	125DG4B	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	2R3	4	0	4,411,104:84:0
1504	98	89	16:34:41.000	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,411,105:84:0
1505	98	89	16:34:41.000	127DG4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,411,105:84:0
1506	98	89	16:34:41.666	127DG4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	4,411,105:85:0
1507	98	89	16:34:49.666	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,411,106:06:0
1508	98	89	16:35:05.666	432DG6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	2R3	4	0	4,411,106:30:0
1509	98	89	16:35:37.000	117DG	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	4,411,106:77:0
1510	98	89	16:35:41.666	33E4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,411,106:84:0
1511	98	89	16:35:45.000	165DG4B	7VECT		Inert vect update UTC	4R3	4	0	4,411,106:89:0
1512	98	89	16:35:46.333	117DG105A106A4A	7STRP	-0.072125,0.0,0,	Slew =,0.06	4R3	4	0	4,411,107:00:0
1513	98	89	16:46:49.000	33F4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	4,411,117:84:0
1514	98	89	16:55:17.666	432DY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	2R3	4	0	4,411,126:28:0
1515	98	89	16:55:59.666	117DG11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	4,411,127:00:0
1516	98	89	17:06:05.666	165BA4A	7SCAN	NORM,70.176999,2	Check S/P Position	2R3	4	0	4,411,136:90:0
1517	98	89	17:49:39.066	14NNJUPRTS02-		-----START------		2R3	4	0	: :
1518	98	89	17:53:41.733	14NNJUPRTS02-		-----STOP-------		2R3	4	0	: :
1519	98	89	17:54:42.400	14JNJUPRTS02*		-----START------		2R3	4	0	: :
1520	98	89	18:20:59.733	14JNJUPRTS02*		-----STOP-------		2R3	4	0	: :
1521	98	89	18:22:16.333	488AI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	4,411,212:30:0
1522	98	89	19:49:40.333	488AI6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	4,411,298:70:0
1523	98	89	20:16:30.333	488AI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	4,411,325:28:0
1524	98	89	22:08:24.333	488AJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	4,411,435:89:0
1525	98	89	22:25:28.333	488AJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	4,411,452:78:0
1526	98	90	00:23:53.666	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	4,411,569:89:0
1527	98	90	00:27:03.666	20YC6A	6HICON			2R3	4	0	4,411,573:10:0
1528	98	90	00:27:57.666	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	4,411,574:00:0
1529	98	90	00:35:00.333	20OB6A	6HICON			2R3	4	0	4,411,580:88:0
1530	98	90	00:41:00.333	432OB6A	6RTSL1		R/T Select of DDS and	2R3	4	0	4,411,586:82:0
1531	98	90	00:57:16.333	165DH4A	7SCAN	NORM,333.568996,	Check S/P Position	2R3	4	0	4,411,602:90:0
1532	98	90	00:57:21.000	14NNGLOBAL01-		-----START------		2R3	4	0	: :
1533	98	90	00:58:21.666	20DH5A	37PL		Program Load (halts microprocessor & unwri	2R3	4	0	4,411,604:06:0
1534	98	90	00:58:23.000	20DH5B	37MRL		Memory Realocate (software operates from R	2R3	4	0	4,411,604:08:0
1535	98	90	00:58:24.333	20DH6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	2R3	4	0	4,411,604:10:0
1536	98	90	00:58:34.333	20DH6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	2R3	4	0	4,411,604:25:0
1537	98	90	00:58:44.333	20DH5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	4,411,604:40:0
1538	98	90	00:59:04.333	20DH5D	37MN		Memory Normal (software operates from ROM)	260	4	0	4,411,604:70:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	98	90	00:59:27.000	20DH4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	4,411,605:13:0	
1540	98	90	01:00:27.666	20DH4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	4,411,606:13:0	
1541	98	90	01:01:23.667	14NNGLOBAL01-		-----STOP-------		2R3	4	0	: :	
1542	98	90	01:03:16.333	125DH	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	4,411,608:84:0	
1543	98	90	01:03:16.333	125DH4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,411,608:84:0	
1544	98	90	01:04:17.000	125DH11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,411,609:84:0	
1545	98	90	01:04:17.000	125DH4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R3	4	0	4,411,609:84:0	
1546	98	90	01:06:18.333	127DH4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,411,611:84:0	
1547	98	90	01:06:18.333	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,411,611:84:0	
1548	98	90	01:06:19.000	127DH4B	37ETB	07,C7,2,0,F0,3,B	Loads wavelength edit table	4R3	4	0	4,411,611:85:0	
1549	98	90	01:06:27.000	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,411,612:06:0	
1550	98	90	01:06:27.000	14CNGLOBAL01*		-----START------		4R3	4	0	: :	
1551	98	90	01:07:12.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5326.12 +/- 2	4R3	4	0	4,411,612:74:0	
1552	98	90	01:07:12.333	175DH422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,411,612:74:0	
1553	98	90	01:07:14.333	117DH	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	4,411,612:77:0	
1554	98	90	01:07:19.000		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 5326.12 +/- 2	4R3	4	0	4,411,612:84:0	
1555	98	90	01:07:20.333	175DH176A6A	6TMREC	LPU	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,411,612:86:0	
1556	98	90	01:07:20.400		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 5326.24 +/- 2	4R3	4	0	4,411,612:86:1	
1557	98	90	01:07:20.400		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *5326.24 +/- 2	4R3	4	0	4,411,612:86:1	
1558	98	90	01:07:22.333	165DH4B	7VECT		Inert vect update UTC	4R3	4	0	4,411,612:89:0	
1559	98	90	01:07:23.666	14CNGLOBAL01-	NIMPBK	301EJ	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1560	98	90	01:07:23.666	117DH105A106A4A	7STRP	-0.022004,0.0,0,	Slew =,0.03	4R3	4	0	4,411,613:00:0	
1561	98	90	01:10:43.000	14CNGLOBAL01-	NIMPBK	301DI	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1562	98	90	01:16:17.000	14CNGLOBAL01-	DESELC	300DI	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1563	98	90	01:19:40.333	117DH105A106A4B	7STRP	0.022004,0.00820	Slew =12.01	4R3	4	0	4,411,625:13:0	
1564	98	90	01:19:53.666	117DH105A106A4C	7STRP	-0.022004,0.0,0,	Slew =,0.03	4R3	4	0	4,411,625:33:0	
1565	98	90	01:21:51.666	14CNGLOBAL01-	DESELC	300EJ	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1566	98	90	01:21:59.000	14CNGLOBAL01-	NIMPBK	301FJ	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1567	98	90	01:30:14.333	14CNGLOBAL01-	DESELC	300FJ	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1568	98	90	01:30:21.666	14CNGLOBAL01-	NIMPBK	301EZ	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1569	98	90	01:32:10.333	117DH105A106A4D	7STRP	0.022004,0.00820	Slew =12.01	4R3	4	0	4,411,637:46:0	
1570	98	90	01:32:23.666	117DH105A106A4E	7STRP	-0.022004,0.0,0,	Slew =,0.03	4R3	4	0	4,411,637:66:0	
1571	98	90	01:35:42.000	14CNGLOBAL01-	NIMPBK	301EI	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1572	98	90	01:41:16.000	14CNGLOBAL01-	DESELC	300EI	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1573	98	90	01:44:32.333	14CNGLOBAL01-	DESELC	300EZ	CALLISTO GLOBAL MAP	4R3	4	0	: :	
1574	98	90	01:44:40.333		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *5851.23 +/- 2	4R3	4	0	4,411,649:79:0	
1575	98	90	01:44:40.333	175DH6A	6TMREC	NRC	NO RECORD Record Mode Change	4R3	4	0	4,411,649:79:0	
1576	98	90	01:44:40.333	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,411,649:79:0	
1577	98	90	01:44:40.333	117DH11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	4,411,649:79:0	
1578	98	90	01:44:41.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5851.29 +/- 2	4R3	4	0	4,411,649:80:8	
1579	98	90	01:44:52.334	14CNGLOBAL01*		-----STOP-------		4R3	4	0	: :	
1580	98	90	01:50:45.666		DMS:	: *DMS-TURN	P7, TRACK 1, FWD, TIC 5851.29 +/- 2	4R3	4	0	4,411,655:81:0	
1581	98	90	01:50:45.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5851.29 +/- 2	4R3	4	0	4,411,655:81:0	
1582	98	90	01:50:45.666	465KH6A	6DTRN	CMD,6DTRN,465KH6	DMS TRACK TURNAROUND	4R3	4	0	4,411,655:81:0	
1583	98	90	01:50:52.333		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 5851.29 +/- 2	4R3	4	0	4,411,656:00:0	
1584	98	90	01:50:53.733		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *5851.41 +/- 2	4R3	4	0	4,411,656:02:1	
1585	98	90	01:52:49.000	127DL4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	4,411,657:84:0	
1586	98	90	01:52:49.000	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,411,657:84:0	
1587	98	90	01:52:49.666	127DL4B	37ETB	04,C4,2,0,00	Loads wavelength edit table	4R0	4	0	4,411,657:85:0	
1588	98	90	01:52:57.666	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,411,658:06:0	
1589	98	90	01:52:57.667	14NNCHOPOF01-		-----START------		4R0	4	0	: :	
1590	98	90	01:55:51.000	125DL4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	4,411,660:84:0	
1591	98	90	01:55:51.000	125DL	NIMSINIT	GS	##### GROUP START INIT	460	4	0	4,411,660:84:0	
1592	98	90	01:56:51.666	125DL4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	4,411,661:84:0	
1593	98	90	01:57:52.333	125DL4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4O0	4	0	4,411,662:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	98	90	01:57:52.333	125DL11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	4,411,662:84:0	
1595	**98**	**90**	**01:59:01.667**	**14NNCHOPOF01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
1596	98	90	02:00:05.666	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,411,665:11:0	
1597	98	90	02:03:25.533		DMS:	: *REVERSE	P7, TRACK 1, FWD, TIC *6027.63 +/- 2	4O0	4	0	4,411,668:37:8	
1598	98	90	02:03:26.733		DMS:	: *RUNUP	P7, TRACK 2, REV, TIC 6027.69 +/- 2	4O0	4	0	4,411,668:39:6	
1599	98	90	02:03:26.733		DMS:	: *TURNARND	P7, TRACK *2, *REV, TIC *6027.69 +/- 2	4O0	4	0	4,411,668:39:6	
1600	98	90	02:03:28.133		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *6027.57 +/-	4O0	4	0	4,411,668:41:7	
1601	98	90	02:03:40.133		DMS:	: *AUTOSTOP	P7, TRACK 2, REV, TIC *6025.44 +/-	4O0	4	0	4,411,668:59:7	
1602	98	90	02:03:41.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6025.38 +/-	4O0	4	0	4,411,668:61:5	
1603	**98**	**90**	**02:10:03.666**	**432JB6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**4O0**	**4**	**0**	**4,411,674:89:0**	
1604	**98**	**90**	**02:15:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1605	**98**	**90**	**02:15:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1606	**98**	**90**	**02:15:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1607	**98**	**90**	**02:15:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1608	**98**	**90**	**02:15:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1609	**98**	**90**	**02:15:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1610	**98**	**90**	**02:15:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1611	**98**	**90**	**02:15:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1612	**98**	**90**	**02:15:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,411,679:78:5**	
1613	98	90	02:15:00.333		DMS:	: READY	RDY, TRACK 2, REV, TIC 6025.38 +/-	4O0	4	0	4,411,679:79:0	

Sequence: E14B-AR Created: 07/01/98 Begin: 98-090/02:15:00 Finish: 98-150/21:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	98	90	02:15:00.000	20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,411,679:78:5	
2	98	90	02:15:00.000	20A3EW	37A	Initial Condition	NIMS Power ON	4O0	4	0	4,411,679:78:5	
3	98	90	02:15:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF	4O0	4	0	4,411,679:78:5	
4	98	90	02:15:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)	4O0	4	0	4,411,679:78:5	
5	98	90	02:15:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)	4O0	4	0	4,411,679:78:5	
6	98	90	02:15:00.000	20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF	4O0	4	0	4,411,679:78:5	
7	98	90	02:15:00.000	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)	4O0	4	0	4,411,679:78:5	
8	98	90	02:15:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)	4O0	4	0	4,411,679:78:5	
9	98	90	02:15:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)	4O0	4	0	4,411,679:78:5	
10	98	90	02:15:00.333		DMS:	: READY	RDY, TRACK 2, REV, TIC 6025.38 +/-	4O0	4	0	4,411,679:79:0	
11	98	90	02:15:52.333	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,411,680:66:0	
12	98	90	02:16:07.666	432NA6B	6RTDS2	NIMDSL,AACDSL,RT	NIMS R/T DESELECTAACS DESELECT	4O0	4	0	4,411,680:89:0	
13	98	90	02:18:00.333	444UB443A4A	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	4,411,682:76:0	
14	98	90	02:25:07.000	41AB99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	4,411,689:79:0	
15	98	90	02:27:01.000	41AB3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	4,411,691:68:0	
16	98	90	02:27:11.000	41AB3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	4,411,691:83:0	
17	98	90	02:27:21.000	41AB3I	40T2	1	PCT Heater 2 ON	4O0	4	0	4,411,692:07:0	
18	98	90	02:27:31.000	41AB3J	40T2	2	PCT Heater 2 ON	4O0	4	0	4,411,692:22:0	
19	98	90	02:30:04.333	20WA4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,411,694:70:0	
20	98	90	02:30:54.333	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,411,695:54:0	
21	98	90	02:32:19.666	176SA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	4O0	4	0	4,411,697:00:0	
22	98	90	03:00:00.333	481UC4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,411,724:34:0	
23	98	90	03:49:44.333	488AA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,411,773:51:0	
24	98	90	04:40:46.333	488AA6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,411,824:03:0	
25	98	90	05:27:50.333	488AA6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,411,870:53:0	
26	98	90	06:02:00.333	488AA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,411,904:34:0	
27	98	90	06:30:30.333	488AB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,411,932:51:0	
28	98	90	07:04:09.666	488AB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,411,965:77:0	
29	98	90	09:12:38.333	488AB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,412,092:83:0	
30	98	90	09:20:24.333	488AB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,412,100:54:0	
31	98	90	12:31:51.600	488AC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,412,289:86:0	
32	98	90	12:51:36.266	488AC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,412,309:43:0	
33	98	90	13:47:04.266	488AC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,412,364:30:0	
34	98	90	14:10:30.266	488AC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,412,387:46:0	
35	98	90	14:44:09.600	488AC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,412,420:72:0	
36	98	90	15:05:00.266	488AD6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,412,441:37:0	
37	98	90	15:08:38.266	176NA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,412,445:00:0	
38	98	90	15:12:12.266	20NV6BA	6MROH	7,6CE0,1,A10	read from AACSA7,6CE0,1,A10	4O0	4	0	4,412,448:48:0	
39	98	90	15:18:56.266	20NV6F	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,412,455:17:0	
40	98	90	15:32:30.266	20NV6K	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,412,468:55:0	
41	98	90	15:46:38.266	20NV4I	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	4,412,482:53:0	
42	98	90	16:01:38.266	20NV4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,412,497:38:0	
43	98	90	16:13:38.266	20NV4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,412,509:26:0	
44	98	90	16:20:38.266	20NV4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,412,516:19:0	
45	98	90	16:32:38.266	20NV4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,412,528:07:0	
46	98	90	16:39:38.266	20NV4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,412,535:00:0	
47	98	90	16:51:38.266	20NV4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,412,546:79:0	
48	98	90	16:58:38.266	20NV4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,412,553:72:0	
49	98	90	17:10:38.266	20NV4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,412,565:60:0	
50	98	90	17:17:38.266	20NV4S	7CONE	17.45,0.0	Check S/P Position	4O0	4	0	4,412,572:53:0	
51	98	90	17:23:38.266	20NV4T	7CONE	17.45,180.0	Check S/P Position	4O0	4	0	4,412,578:47:0	
52	98	90	17:29:38.266	20NV4U	7CONE	4.36,0.0	Check S/P Position	4O0	4	0	4,412,584:41:0	
53	98	90	17:44:38.266	20NV4V	7CONE	4.36,153.0	Check S/P Position	4O0	4	0	4,412,599:26:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	90	18:21:42.266	20NV4AG	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,412,635:86:0	
55	98	90	18:25:42.266	20NV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,412,639:82:0	
56	98	90	18:34:22.266	20NV6U	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,412,648:43:0	
57	98	90	18:39:22.266	20NV4AM	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,412,653:38:0	
58	98	90	18:40:58.266	176NB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,412,655:00:0	
59	98	90	18:48:30.266	20NV6BB	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	4O0	4	0	4,412,662:41:0	
60	98	90	18:50:00.266	20NV6Y	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,412,663:85:0	
61	98	90	19:00:00.266	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,412,673:75:0	
62	98	90	19:58:49.600	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4O0	4	0	4,412,732:00:0	
63	98	90	21:00:08.266	488AD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,412,792:58:0	
64	98	90	21:53:28.266	488AE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,412,845:35:0	
65	98	90	22:04:33.600	488AE6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,412,856:32:0	
66	98	90	22:21:12.266	488AE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,412,872:74:0	
67	98	91	00:00:00.266	481UB4A	7VECT		Inert vect update UTC	4O0	4	0	4,412,970:48:0	
68	98	91	00:00:00.933	481UD4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,412,970:49:0	
69	98	91	10:00:00.266	481UE4A	7VECT	BB1	Inert vect update UTC	4O0	4	0	4,413,563:85:0	
70	98	91	12:32:52.266	488AF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,413,715:11:0	
71	98	91	12:51:36.266	488AF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,413,733:59:0	
72	98	91	15:58:00.266	176VX6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,413,918:00:0	
73	98	91	16:03:04.266	20NX4B	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,413,923:01:0	
74	98	91	16:07:04.266	20NX4C	7STAT	17.45,0.0,90.0	Stator inertial point	4O0	4	0	4,413,926:88:0	
75	98	91	16:22:48.266	488AF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,413,942:48:0	
76	98	91	18:13:44.200	488AF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,414,052:22:0	
77	98	91	20:42:40.200	20SL4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,414,199:49:0	
78	98	91	20:43:30.200	20SL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,414,200:33:0	
79	98	91	20:45:03.533	176NY6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,414,201:82:0	
80	98	91	21:44:56.200	488AG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,414,261:11:0	
81	98	91	22:03:00.866	488AG6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,414,279:00:0	
82	98	91	22:08:24.200	488AG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,414,284:30:0	
83	98	92	05:11:54.200	488AH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,414,703:16:0	
84	98	92	05:36:24.200	488AH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,414,727:37:0	
85	98	92	06:38:23.533	488AH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,414,788:65:0	
86	98	92	07:03:52.200	488AH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,414,813:83:0	
87	98	92	07:13:12.200	488AH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,414,823:13:0	
88	98	92	12:30:16.200	488AI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,415,136:66:0	
89	98	92	12:47:20.200	488AI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,415,153:55:0	
90	98	92	13:32:08.200	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,415,197:83:0	
91	98	92	13:55:27.533	488AI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,415,220:89:0	
92	98	92	14:34:06.200	488AI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,415,259:18:0	
93	98	92	16:23:00.200	488AJ6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,415,366:82:0	
94	98	92	16:27:08.866	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,415,371:00:0	
95	98	92	16:39:00.200	20AB4C	7STAT	17.45,262.9358,4	Stator inertial point	4O0	4	0	4,415,382:66:0	
96	98	92	17:00:00.200	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,415,403:45:0	
97	98	92	17:02:00.200	474AA416A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,415,405:43:0	
98	98	92	17:02:20.200	20AB4D	7STAT	17.45,262.9358,4	Stator inertial point	4O0	4	0	4,415,405:73:0	
99	98	92	17:06:14.200	474AA416A4E	7BURN	262.935799,48.56	ALERT -- Thruster fire	4O0	4	0	4,415,409:60:0	
100	98	92	17:22:22.200	20AB4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,415,425:56:0	
101	98	92	17:29:48.200	20AB4P	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,415,432:88:0	
102	98	92	18:34:46.200	20AE4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,415,497:20:0	
103	98	92	18:35:36.200	20AE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,415,498:04:0	
104	98	92	18:36:34.200	176AB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,415,499:00:0	
105	98	92	18:42:16.200	20AD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,415,504:58:0	
106	98	92	21:00:08.200	488AJ6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	4,415,640:90:0	
107	98	92	21:00:09.533	20AD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,415,641:01:0	
108	98	92	21:44:54.866	488AJ6C	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	4O0	4	0	4,415,685:25:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	98	92	21:44:56.200	20AD6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,415,685:27:0
110	98	92	21:49:12.200	488AJ6D	6TMSED	FILL,AH2	Sci, Eng, and D/L Chan	4O0	4	0	4,415,689:47:0
111	98	92	21:49:13.533	20AD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,415,689:49:0
112	98	92	22:26:54.866	488AK6A	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	4O0	4	0	4,415,726:74:0
113	98	92	22:26:56.200	20AD6E	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,415,726:76:0
114	98	92	22:31:52.200	488AK6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,415,731:65:0
115	98	92	22:31:53.533	20AD6F	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,415,731:67:0
116	98	93	03:45:28.133	488AK6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,416,041:79:0
117	98	93	03:45:29.466	20AD6G	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,416,041:81:0
118	98	93	04:53:44.133	488AL6A	6TMSED	NORM,AH2	Sci, Eng, and D/L Chan	4O0	4	0	4,416,109:35:0
119	98	93	04:53:45.466	20AD6H	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,416,109:37:0
120	98	93	05:30:00.133	488AL6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,416,145:23:0
121	98	93	05:32:08.133	488AL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,416,147:33:0
122	98	93	05:32:46.800	176SC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,416,148:00:0
123	98	93	06:38:21.466	488AL6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,416,212:78:0
124	98	93	07:03:52.133	488AL6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,416,238:08:0
125	98	93	07:13:10.800	488AM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,416,247:27:0
126	98	93	12:30:16.133	488AM6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,416,560:82:0
127	98	93	13:53:28.133	488AN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,416,643:17:0
128	98	93	14:15:55.466	488AN6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,416,665:36:0
129	98	93	14:29:44.133	488AN6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,416,679:05:0
130	98	93	15:06:00.133	488AN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,416,714:84:0
131	98	94	12:21:58.733	488AO6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,417,976:80:0
132	98	94	12:28:08.066	488AO6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,417,982:88:0
133	98	94	12:43:04.066	488AO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,417,997:67:0
134	98	94	15:27:20.066	488AO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,418,160:18:0
135	98	94	18:50:00.066	488AP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,418,360:58:0
136	98	94	21:38:32.066	488AP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,418,527:29:0
137	98	94	21:56:45.400	488AP6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,418,545:31:0
138	98	94	21:59:52.066	488AP6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,418,548:38:0
139	98	96	04:57:02.666	488AQ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,420,385:17:0
140	98	96	05:21:28.000	488AQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,420,409:31:0
141	98	96	06:23:14.666	488AQ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,420,470:40:0
142	98	96	06:48:56.000	488AQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,420,495:77:0
143	98	96	06:58:06.000	488AQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,420,504:83:0
144	98	96	12:07:42.666	488AR6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,420,811:11:0
145	98	96	12:15:20.000	488AR6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,420,818:60:0
146	98	97	12:12:06.600	488AS6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,422,239:59:0
147	98	97	12:17:27.933	488AS6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,422,244:86:0
148	98	97	12:36:39.933	488AS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,422,263:85:0
149	98	97	16:01:27.933	488AS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,422,466:44:0
150	98	97	17:54:31.933	488AS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,422,578:28:0
151	98	97	21:25:43.933	488AT6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,422,787:17:0
152	98	97	21:46:35.266	488AT6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,422,807:74:0
153	98	97	21:49:11.933	488AT6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,422,810:36:0
154	98	98	12:07:09.866	488AU6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,423,658:85:0
155	98	98	12:21:43.866	488AU6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,423,673:31:0
156	98	98	13:23:35.866	488AU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,423,734:48:0
157	98	98	13:40:12.533	488AU6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,423,750:87:0
158	98	98	14:13:51.200	488AU6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,423,784:21:0
159	98	98	20:30:15.866	488AV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,424,156:46:0
160	98	98	21:29:59.866	488AV6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,424,215:53:0
161	98	98	21:39:52.533	488AV6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,424,225:32:0
162	98	100	04:47:15.133	488AW6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,426,072:19:0
163	98	100	05:17:11.800	488AW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,426,101:75:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	100	06:13:01.800	488AW6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,426,157:04:0	
165	98	100	06:50:05.800	488AW6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,426,193:64:0	
166	98	100	07:12:23.800	488AW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,215:69:0	
167	98	100	11:30:31.800	488AX6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,426,471:05:0	
168	98	100	11:45:27.800	488AX6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,426,485:75:0	
169	98	100	12:13:11.800	488AX6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,426,513:23:0	
170	98	100	12:32:23.800	488AX6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,532:22:0	
171	98	100	13:30:05.133	488AX6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,589:27:0	
172	98	100	13:57:05.133	176TF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,426,616:00:0	
173	98	100	14:03:44.466	488AY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,622:53:0	
174	98	100	14:03:45.800	20J6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,622:55:0	
175	98	100	14:05:59.800	20UT4C	7STAT	17.45,167.81,6.2	Stator inertial point	4O0	4	0	4,426,624:74:0	
176	98	100	14:25:01.800	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,426,643:58:0	
177	98	100	14:29:59.800	490UA412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,426,648:50:0	
178	98	100	14:30:19.800	20UT4D	7STAT	17.45,167.81,6.2	Stator inertial point	4O0	4	0	4,426,648:80:0	
179	98	100	14:34:09.800	490UA412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,426,652:61:0	
180	98	100	14:34:13.800	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,426,652:67:0	
181	98	100	14:38:01.800	490UA412A406A4A	7STAR	1,3000,95.710999	Star catalog update	4O0	4	0	4,426,656:45:0	
182	98	100	14:38:03.800	490UA412A406A4B	7STAR	2,464,80.782,28.	Star catalog update	4O0	4	0	4,426,656:48:0	
183	98	100	14:38:05.800	490UA412A406A4C	7STAR	3,159,27.238,89.	Star catalog update	4O0	4	0	4,426,656:51:0	
184	98	100	14:38:07.800	490UA412A406A4D	7STAR	41,338,218.95	Star catalog update	4O0	4	0	4,426,656:54:0	
185	98	100	14:38:09.800	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,426,656:57:0	
186	98	100	14:38:11.800	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,426,656:60:0	
187	98	100	14:48:05.800	20UT4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,426,666:41:0	
188	98	100	14:56:09.800	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,426,674:39:0	
189	98	100	16:16:00.466	20J6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,753:36:0	
190	98	100	16:17:37.800	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,426,755:00:0	
191	98	100	16:21:59.800	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,426,759:29:0	
192	98	100	16:22:59.800	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,426,760:28:0	
193	98	100	16:24:59.800	20UQ4E	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,426,762:26:0	
194	98	100	16:30:29.800	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,426,767:66:0	
195	98	100	16:30:30.466	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,426,767:67:0	
196	98	100	16:30:50.466	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,426,768:06:0	
197	98	100	16:30:51.133	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,426,768:07:0	
198	98	100	16:31:11.133	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,426,768:37:0	
199	98	100	16:31:11.800	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,426,768:38:0	
200	98	100	16:31:21.800	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,426,768:53:0	
201	98	100	16:31:22.466	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,426,768:54:0	
202	98	100	16:31:32.466	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,426,768:69:0	
203	98	100	16:31:33.133	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,426,768:70:0	
204	98	100	16:33:19.800	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,426,770:48:0	
205	98	100	16:33:20.466	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,426,770:49:0	
206	98	100	16:33:40.466	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,426,770:79:0	
207	98	100	16:33:41.133	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,426,770:80:0	
208	98	100	16:34:01.133	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,426,771:19:0	
209	98	100	16:34:01.800	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,426,771:20:0	
210	98	100	16:34:11.800	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,426,771:35:0	
211	98	100	16:34:12.466	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,426,771:36:0	
212	98	100	16:34:22.466	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,426,771:51:0	
213	98	100	16:34:23.133	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,426,771:52:0	
214	98	100	16:35:19.800	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,426,772:46:0	
215	98	100	17:00:03.800	20UJ4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,426,796:88:0	
216	98	100	17:00:53.800	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,426,797:72:0	
217	98	100	17:02:07.133	176SU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,426,799:00:0	
218	98	100	17:03:19.800	488AY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,426,800:18:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	100	17:35:19.800	488AY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,831:77:0	
220	98	100	17:37:05.133	488AY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,426,833:53:0	
221	98	100	17:43:51.800	488AY6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,426,840:26:0	
222	98	101	04:42:19.066	488AZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,427,491:46:0	
223	98	101	04:47:19.733	488AZ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,427,496:42:0	
224	98	101	05:23:35.733	488AZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,427,532:30:0	
225	98	101	11:39:03.733	488BA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,427,903:61:0	
226	98	101	12:02:31.733	488BA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,427,926:80:0	
227	98	101	12:21:43.733	488BA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,427,945:79:0	
228	98	101	15:33:43.733	488BA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,428,135:69:0	
229	98	101	18:05:11.733	488BB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,428,285:51:0	
230	98	101	21:15:03.733	488BB6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,428,473:31:0	
231	98	101	21:37:16.400	488BB6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,428,495:28:0	
232	98	101	21:40:39.733	488BB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,428,498:60:0	
233	98	102	11:47:23.000	488BC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,429,336:07:0	
234	98	102	11:51:51.666	488BC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,429,340:46:0	
235	98	102	12:17:27.666	488BC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,429,365:75:0	
236	98	102	15:08:07.666	488BC6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,429,534:56:0	
237	98	102	18:24:23.666	488BD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,429,728:66:0	
238	98	102	21:15:03.666	488BD6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,429,897:47:0	
239	98	102	21:34:11.666	488BD6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,429,916:40:0	
240	98	102	21:40:39.666	488BD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,429,922:76:0	
241	98	103	04:32:25.666	488BE6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,430,330:07:0	
242	98	103	04:53:43.666	488BE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,430,351:13:0	
243	98	103	05:57:51.666	488BE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,430,414:52:0	
244	98	103	06:23:19.666	488BE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,430,439:69:0	
245	98	103	06:32:40.333	488BE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,430,449:00:0	
246	98	103	12:15:19.600	488BF6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,430,787:81:0	
247	98	103	13:29:59.600	488BF6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,430,861:67:0	
248	98	103	13:50:09.600	488BF6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,430,881:62:0	
249	98	103	14:08:23.600	488BF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,430,899:65:0	
250	98	103	17:47:07.600	488BF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,431,116:04:0	
251	98	103	18:43:35.600	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,431,171:81:0	
252	98	103	20:44:54.933	488BG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,431,291:80:0	
253	98	103	20:49:27.600	488BG6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,431,296:34:0	
254	98	104	11:42:30.933	488BH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,432,179:56:0	
255	98	104	11:47:35.600	488BH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,432,184:58:0	
256	98	104	12:08:55.600	488BH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,432,205:67:0	
257	98	104	14:42:31.600	488BH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,432,357:59:0	
258	98	104	17:37:27.533	488BH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,432,530:60:0	
259	98	104	18:52:07.533	488BI6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,432,604:46:0	
260	98	104	20:49:27.533	488BI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,432,720:50:0	
261	98	104	21:40:39.533	488BI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,432,771:17:0	
262	98	104	23:35:22.866	488BI6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,432,884:59:0	
263	98	104	23:40:07.533	488BI6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,432,889:31:0	
264	98	105	11:42:34.866	488BJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,433,603:78:0	
265	98	105	11:53:59.533	488BJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,433,615:13:0	
266	98	105	12:43:03.533	488BJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,433,663:61:0	
267	98	105	13:14:46.200	488BJ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,433,695:03:0	
268	98	105	13:48:25.533	488BJ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,433,728:29:0	
269	98	105	17:33:11.533	488BK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,433,950:56:0	
270	98	105	21:34:15.533	488BK6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,434,189:03:0	
271	98	105	22:47:31.533	488BK6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,434,261:45:0	
272	98	105	23:16:37.533	488BK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,434,290:25:0	
273	98	106	03:04:55.466	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,434,516:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	98	106	04:06:11.466	488BL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,434,576:60:0
275	98	106	04:11:03.466	488BL6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,434,581:43:0
276	98	106	04:47:19.466	488BL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,434,617:31:0
277	98	106	17:37:20.133	488BM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,435,378:81:0
278	98	106	18:37:11.466	488BM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,435,438:08:0
279	98	107	03:00:39.466	488BN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,435,936:02:0
280	98	107	04:04:39.466	488BN6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,435,999:29:0
281	98	107	04:38:47.466	488BN6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,436,033:07:0
282	98	107	05:48:37.466	488BN6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,436,102:13:0
283	98	107	05:53:27.466	488BN6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,436,106:84:0
284	98	107	06:23:18.133	488BO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,436,136:40:0
285	98	107	11:28:44.066	488BO6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,436,438:47:0
286	98	107	17:32:24.733	488BP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,436,798:18:0
287	98	107	18:32:55.400	488BP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,436,858:04:0
288	98	108	02:56:23.400	488BQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,437,355:89:0
289	98	108	04:04:39.400	488BQ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,437,423:45:0
290	98	108	04:23:51.400	488BQ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,437,442:44:0
291	98	108	04:47:19.400	488BQ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,437,465:63:0
292	98	108	14:38:15.333	488BR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,438,050:12:0
293	98	108	17:28:55.333	488BR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,438,218:84:0
294	98	108	18:47:51.333	488BR6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,438,296:90:0
295	98	108	20:30:15.333	488BR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,438,398:24:0
296	98	108	21:29:59.333	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,438,457:31:0
297	98	109	02:49:59.333	488BS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,438,773:75:0
298	98	109	03:55:42.000	488BT6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,438,838:74:0
299	98	109	04:00:23.333	488BT6B	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,438,843:41:0
300	98	109	04:36:39.333	488BT6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,438,879:29:0
301	98	109	17:32:54.000	488BU6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,439,647:03:0
302	98	109	17:37:27.333	488BU6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,439,651:49:0
303	98	109	18:13:43.333	488BU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,439,687:37:0
304	98	109	18:44:27.333	488BU6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,439,717:73:0
305	98	109	19:18:06.666	488BU6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,439,751:08:0
306	98	110	03:00:39.266	488BV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,440,208:50:0
307	98	110	03:49:43.266	488BV6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,440,257:07:0
308	98	110	03:51:15.933	488BV6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,440,258:55:0
309	98	110	04:04:39.266	488BV6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,440,271:77:0
310	98	110	04:40:55.266	488BV6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,440,307:65:0
311	98	110	17:22:38.600	488BW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,441,061:06:0
312	98	110	18:28:39.266	488BW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,441,126:32:0
313	98	110	20:46:30.600	488BW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,441,262:63:0
314	98	110	20:51:35.266	488BW6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,441,267:65:0
315	98	111	17:23:03.866	488BX6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,442,485:60:0
316	98	111	17:28:55.200	488BX6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,442,491:41:0
317	98	111	18:09:27.200	488BX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,442,531:49:0
318	98	111	18:39:18.533	488BX6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,442,561:06:0
319	98	111	19:12:57.200	488BX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,442,594:31:0
320	98	112	02:56:23.200	488BY6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,443,052:62:0
321	98	112	03:40:47.866	488BY6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,443,096:55:0
322	98	112	03:45:27.200	488BY6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,443,101:19:0
323	98	112	04:21:43.200	488BY6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,443,137:07:0
324	98	112	17:17:48.466	488BZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,443,904:58:0
325	98	112	18:24:23.133	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,443,970:44:0
326	98	112	22:46:34.466	488BZ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,444,229:72:0
327	98	112	22:51:03.133	488BZ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,444,234:20:0
328	98	113	17:12:53.133	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,445,323:86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	98	113	18:32:55.066	488CA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,445,403:09:0	
330	98	113	18:42:59.733	20K6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,445,413:06:0	
331	98	113	18:47:59.066	176TG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,445,418:00:0	
332	98	113	18:55:59.733	20UU4C	7STAT	17.45,170.31,5.8	Stator inertial point	4O0	4	0	4,445,425:84:0	
333	98	113	19:15:01.733	490UB412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,445,444:68:0	
334	98	113	19:19:59.733	490UB412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,445,449:60:0	
335	98	113	19:20:19.733	20UU4D	7STAT	17.45,170.31,5.8	Stator inertial point	4O0	4	0	4,445,449:90:0	
336	98	113	19:24:09.733	490UB412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,445,453:71:0	
337	98	113	19:24:13.733	490UB412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,445,453:77:0	
338	98	113	19:28:01.733	490UB412A406A4A	7STAR	11,338,218.95	Star catalog update	4O0	4	0	4,445,457:55:0	
339	98	113	19:28:03.733	490UB412A406A4B	7STAR	2,111,99.056999,	Star catalog update	4O0	4	0	4,445,457:58:0	
340	98	113	19:28:05.733	490UB412A406A4C	7STAR	3,295,88.964,44.	Star catalog update	4O0	4	0	4,445,457:61:0	
341	98	113	19:28:07.733	490UB412A406A4D	7STAR	4,191,248.601,-1	Star catalog update	4O0	4	0	4,445,457:64:0	
342	98	113	19:28:09.733	490UB412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,445,457:67:0	
343	98	113	19:28:11.733	490UB412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,445,457:70:0	
344	98	113	19:38:05.733	20UU4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,445,467:51:0	
345	98	113	19:46:09.733	490UB412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,445,475:49:0	
346	98	113	21:06:03.733	20UG4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,445,554:51:0	
347	98	113	21:06:53.733	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,445,555:35:0	
348	98	113	21:06:59.733	20K6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,445,555:44:0	
349	98	113	21:08:24.400	176TI6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,445,556:80:0	
350	98	114	02:20:07.066	488CB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,445,865:15:0	
351	98	114	03:41:11.066	488CB6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,445,945:31:0	
352	98	114	04:19:35.066	488CB6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,445,983:29:0	
353	98	114	05:22:00.400	488CB6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,446,045:05:0	
354	98	114	05:49:11.066	488CB6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,071:85:0	
355	98	114	05:57:09.733	488CC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,079:75:0	
356	98	114	10:13:13.066	488CC6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,333:06:0	
357	98	114	10:20:07.066	488CC6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,446,339:81:0	
358	98	114	11:08:17.733	488CC6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,446,387:49:0	
359	98	114	11:13:27.066	488CC6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,446,392:58:0	
360	98	114	11:39:03.066	488CD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,417:87:0	
361	98	114	11:49:04.400	488CD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,427:79:0	
362	98	114	12:22:43.733	488CD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,461:14:0	
363	98	114	15:52:55.066	488CD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,446,669:03:0	
364	98	114	16:24:55.066	488CD6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,446,700:62:0	
365	98	114	20:40:55.066	488CE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,446,953:79:0	
366	98	114	21:00:04.400	488CE6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,446,972:74:0	
367	98	114	21:06:31.066	488CE6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,446,979:17:0	
368	98	114	21:23:19.733	488CE6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,446,995:74:0	
369	98	114	21:27:51.066	488CE6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,447,000:26:0	
370	98	115	02:20:07.000	488CF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,447,289:31:0	
371	98	115	03:36:55.000	488CF6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,447,365:27:0	
372	98	115	03:53:59.000	488CF6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,447,382:16:0	
373	98	115	04:28:07.000	488CF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,447,415:85:0	
374	98	115	11:04:55.000	488CG6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,447,808:34:0	
375	98	115	11:34:47.000	488CG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,447,837:83:0	
376	98	115	15:08:07.000	488CG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,448,048:82:0	
377	98	115	17:03:19.000	488CG6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,448,162:76:0	
378	98	115	21:10:47.000	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,448,407:53:0	
379	98	116	02:20:07.000	488CH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,448,713:47:0	
380	98	116	03:36:55.000	488CI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,448,789:43:0	
381	98	116	04:08:55.000	488CI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,448,821:11:0	
382	98	116	05:16:49.666	488CI6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,448,888:26:0	
383	98	116	05:42:47.000	488CI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,448,913:87:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	98	116	05:51:44.333	488CI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,448,922:74:0
385	98	116	11:36:54.933	488CJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,449,264:18:0
386	98	116	12:55:50.933	488CJ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,449,342:24:0
387	98	116	13:16:11.600	488CJ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,449,362:35:0
388	98	117	03:48:32.933	488CK6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,450,225:14:0
389	98	117	03:53:58.933	488CK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,450,230:48:0
390	98	117	04:19:34.933	488CK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,450,255:77:0
391	98	117	08:40:36.266	176SN6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,450,514:00:0
392	98	117	08:46:40.266	465SA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,450,520:00:0
393	98	117	08:46:40.266		DMS:	: *SLEW-TIC	P7, TRACK 2, REV, TIC 6025.38 +/-	4O0	4	0	4,450,520:00:0
394	98	117	08:46:40.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6025.38 +/-	4O0	4	0	4,450,520:00:0
395	98	117	08:46:40.266		DMS:	: *TURNARND	P7, TRACK 2, REV, TIC 6025.38 +/-	4O0	4	0	4,450,520:00:0
396	98	117	08:46:41.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6025.50 +/-	4O0	4	0	4,450,520:02:1
397	98	117	08:46:46.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6026.73 +/-	4O0	4	0	4,450,520:10:0
398	98	117	08:46:48.133		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *6026.79 +/-	4O0	4	0	4,450,520:11:8
399	98	117	08:46:49.533		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *6026.67 +/-	4O0	4	0	4,450,520:13:9
400	98	117	09:59:40.400		DMS:	: *RUNDOWN	P7, TRACK 2, REV, TIC *5002.06 +/-	4O0	4	0	4,450,592:18:2
401	98	117	09:59:41.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5002.00 +/-	4O0	4	0	4,450,592:20:0
402	98	117	10:54:34.933	488CL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,450,646:46:0
403	98	117	14:40:21.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5002.00 +/-	4O0	4	0	4,450,869:73:0
404	98	117	14:40:21.533	465SB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,450,869:73:0
405	98	117	14:40:22.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5002.12 +/-	4O0	4	0	4,450,869:75:1
406	98	117	14:40:28.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5003.35 +/-	4O0	4	0	4,450,869:83:0
407	98	117	14:40:29.400		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5003.41 +/-	4O0	4	0	4,450,869:84:8
408	98	117	14:40:33.266		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4997.91 +/-	4O0	4	0	4,450,869:90:6
409	98	117	14:40:33.266		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4997.91 +/-	4O0	4	0	4,450,869:90:6
410	98	117	15:06:13.533	465SB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,450,895:35:0
411	98	117	15:06:13.533		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 259.79 +/-	4O0	4	0	4,450,895:35:0
412	98	117	15:06:14.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 258.99 +/-	4O0	4	0	4,450,895:36:8
413	98	117	17:03:15.533	488CM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,451,011:12:0
414	98	117	17:04:01.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 258.99 +/-	4O0	4	0	4,451,011:81:0
415	98	117	17:04:01.533		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 258.99 +/-	4O0	4	0	4,451,011:81:0
416	98	117	17:04:01.533	465SC6A	6DTRN	CMD,6DTRN,465SC6	DMS TRACK TURNAROUND	4O0	4	0	4,451,011:81:0
417	98	117	17:04:02.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 259.11 +/-	4O0	4	0	4,451,011:83:1
418	98	117	17:04:08.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 260.34 +/-	4O0	4	0	4,451,012:00:0
419	98	117	17:04:09.400		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 260.40 +/-	4O0	4	0	4,451,012:01:8
420	98	117	17:04:10.800		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 260.28 +/-	4O0	4	0	4,451,012:03:9
421	98	117	17:08:28.533		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,451,016:26:5
422	98	117	17:08:29.733		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,451,016:28:3
423	98	117	17:08:29.733		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,451,016:28:3
424	98	117	17:08:31.133		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,451,016:30:4
425	98	117	17:08:43.133		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,451,016:48:4
426	98	117	17:08:44.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,451,016:50:2
427	98	117	17:14:04.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,451,021:75:0
428	98	117	17:14:04.200	465SD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,451,021:75:0
429	98	117	17:14:10.866		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,451,021:85:0
430	98	117	17:14:14.733		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,451,021:90:8
431	98	117	17:14:14.733		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,451,021:90:8
432	98	117	17:45:58.200		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,451,053:34:0
433	98	117	17:45:58.200	465SD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,451,053:34:0
434	98	117	17:45:59.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,451,053:35:8
435	98	117	18:01:34.200	465SE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,451,068:73:0
436	98	117	18:01:34.200		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,451,068:73:0
437	98	117	18:01:35.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,451,068:75:1
438	98	117	18:01:40.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,451,068:83:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
439	98	117	18:01:42.066		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,451,068:84:8
440	98	117	18:01:45.933		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,451,068:90:6
441	98	117	18:01:45.933		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,451,068:90:6
442	98	117	18:13:42.866	488CM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,451,080:74:0
443	98	117	18:33:42.200	465SF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,451,100:53:0
444	98	117	18:33:42.200		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,451,100:53:0
445	98	117	18:33:43.400		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,451,100:54:8
446	98	117	18:33:47.266		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,451,100:60:6
447	98	117	18:33:47.266		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,451,100:60:6
448	98	117	19:05:42.866	465SF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,451,132:22:0
449	98	117	19:05:42.866		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,451,132:22:0
450	98	117	19:05:44.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,451,132:23:8
451	98	117	19:20:26.200		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,451,146:73:0
452	98	117	19:20:26.200	465SG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,451,146:73:0
453	98	117	19:20:27.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,451,146:75:1
454	98	117	19:20:32.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,451,146:83:0
455	98	117	19:20:34.066		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,451,146:84:8
456	98	117	19:20:37.933		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,451,146:90:6
457	98	117	19:20:37.933		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,451,146:90:6
458	98	117	19:52:33.533		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,451,178:52:0
459	98	117	19:52:33.533	465SH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,451,178:52:0
460	98	117	19:52:34.733		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,451,178:53:8
461	98	117	19:52:38.600		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,451,178:59:6
462	98	117	19:52:38.600		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,451,178:59:6
463	98	117	19:53:39.533		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,451,179:60:0
464	98	117	19:53:39.533	465SH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,451,179:60:0
465	98	117	19:53:40.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,451,179:61:8
466	98	117	20:08:09.533		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,451,194:00:0
467	98	117	20:08:09.533	465SI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,451,194:00:0
468	98	117	20:09:03.533		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,451,194:81:0
469	98	117	20:09:03.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,451,194:81:0
470	98	117	20:09:03.533	465SJ6A	6DTRN	CMD,6DTRN,465SJ6	DMS TRACK TURNAROUND	4O0	4	0	4,451,194:81:0
471	98	117	20:09:04.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,451,194:83:1
472	98	117	20:09:10.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,451,195:00:0
473	98	117	20:09:11.400		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,451,195:01:8
474	98	117	20:09:12.800		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,451,195:03:9
475	98	117	20:20:38.600		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,451,206:31:6
476	98	117	20:20:39.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,451,206:33:4
477	98	117	20:20:39.800		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,451,206:33:4
478	98	117	20:20:41.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,451,206:35:5
479	98	117	20:20:53.200		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,451,206:53:5
480	98	117	20:20:54.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,451,206:55:3
481	98	117	20:39:04.200	20UE4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,451,224:52:0
482	98	117	20:39:54.200	20UE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,451,225:36:0
483	98	117	20:41:31.533	176SO6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,451,227:00:0
484	98	117	20:46:42.866	488CM6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,451,232:12:0
485	98	117	20:51:34.866	488CM6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,451,236:86:0
486	98	118	10:58:40.200	488CN6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,452,074:66:0
487	98	118	11:13:26.866	488CN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,452,089:31:0
488	98	118	12:04:38.866	488CN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,452,139:89:0
489	98	118	12:33:41.533	488CN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,452,168:64:0
490	98	118	13:07:20.200	488CN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,452,201:89:0
491	98	118	16:54:46.866	488CO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,452,426:84:0
492	98	118	21:02:14.866	488CO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,452,671:61:0
493	98	118	22:11:25.466	488CO6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,452,740:08:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	118	22:40:22.800	488CO6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,452,768:66:0	
495	98	119	10:53:46.133	488CP6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,453,494:05:0	
496	98	119	10:58:30.800	488CP6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,453,498:68:0	
497	98	119	11:19:50.800	488CP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,453,519:77:0	
498	98	119	15:40:06.800	488CP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,453,777:23:0	
499	98	119	16:05:42.800	488CP6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,453,802:52:0	
500	98	119	16:54:46.800	488CQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,453,851:09:0	
501	98	119	20:55:50.800	488CQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,454,089:47:0	
502	98	120	02:00:54.800	488CR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,454,391:21:0	
503	98	120	03:26:14.800	488CR6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,454,475:57:0	
504	98	120	03:53:58.800	488CR6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,454,503:05:0	
505	98	120	05:01:26.733	488CR6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,454,569:71:0	
506	98	120	05:27:50.733	488CR6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,454,595:81:0	
507	98	120	05:36:26.733	488CS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,454,604:36:0	
508	98	120	11:21:58.733	488CS6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,454,946:12:0	
509	98	120	12:47:18.733	488CT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,455,030:48:0	
510	98	120	13:04:22.733	488CT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,455,047:37:0	
511	98	120	14:23:29.400	488CT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,455,125:59:0	
512	98	120	15:07:08.733	488CT6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,455,168:75:0	
513	98	120	16:25:30.066	20BD6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,455,246:29:0	
514	98	120	16:29:13.400	176BA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,455,250:00:0	
515	98	120	16:39:00.066	20BB4C	7STAT	17.45,265.1056,3	Stator inertial point	4O0	4	0	4,455,259:61:0	
516	98	120	17:00:00.066	474BA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,455,280:40:0	
517	98	120	17:02:00.066	474BA416A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,455,282:38:0	
518	98	120	17:02:20.066	20BB4D	7STAT	17.45,265.1056,3	Stator inertial point	4O0	4	0	4,455,282:68:0	
519	98	120	17:06:14.066	474BA416A4E	7BURN	,265.105598,39.7	ALERT -- Thruster fire	4O0	4	0	4,455,286:55:0	
520	98	120	17:12:04.066	20BB4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,455,292:34:0	
521	98	120	17:17:56.066	20BB4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,455,298:16:0	
522	98	120	17:33:38.066	20BB4J	7STAT	17.45,265.1056,3	Stator inertial point	4O0	4	0	4,455,313:64:0	
523	98	120	17:42:56.066	20BB4K	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,455,322:82:0	
524	98	120	17:47:12.066	474BA416A4G	7BURN	,265.105598,39.7	ALERT -- Thruster fire	4O0	4	0	4,455,327:11:0	
525	98	120	17:55:24.066	20BB4M	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,455,335:21:0	
526	98	120	18:00:16.066	20BB4N	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,455,340:04:0	
527	98	120	18:24:22.733	488CT6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,455,363:81:0	
528	98	120	18:24:24.066	20BD6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,455,363:83:0	
529	98	120	18:46:48.066	20BE4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,455,386:06:0	
530	98	120	18:47:38.066	20BE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,455,386:81:0	
531	98	120	18:48:45.400	176BB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,455,388:00:0	
532	98	120	18:54:18.066	20BD6H	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,455,393:44:0	
533	98	120	22:01:13.400	488CU6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,455,578:32:0	
534	98	120	22:30:19.400	488CU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,455,607:12:0	
535	98	121	01:56:38.733	488CU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,455,811:17:0	
536	98	121	03:21:58.733	488CU6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,455,895:53:0	
537	98	121	03:53:58.733	488CU6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,455,927:21:0	
538	98	121	04:56:20.733	488CV6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,455,988:83:0	
539	98	121	05:23:34.733	488CV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,456,015:77:0	
540	98	121	05:31:30.733	488CV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,456,023:63:0	
541	98	121	10:41:26.733	488CV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,456,330:20:0	
542	98	121	11:13:26.733	488CW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,456,361:79:0	
543	98	121	12:18:24.000	488CW6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,456,426:10:0	
544	98	121	12:52:03.333	488CW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,456,459:36:0	
545	98	121	15:57:42.000	176TH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,456,643:00:0	
546	98	121	16:02:00.000	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,456,647:23:0	
547	98	121	16:03:00.000	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,456,648:22:0	
548	98	121	16:05:00.000	20UR4E	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,456,650:20:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
549	98	121	16:10:30.000	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,456,655:60:0
550	98	121	16:10:30.666	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,456,655:61:0
551	98	121	16:10:50.666	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,456,656:00:0
552	98	121	16:10:51.333	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,456,656:01:0
553	98	121	16:11:11.333	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,456,656:31:0
554	98	121	16:11:12.000	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,456,656:32:0
555	98	121	16:11:22.000	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,456,656:47:0
556	98	121	16:11:22.666	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,456,656:48:0
557	98	121	16:11:32.666	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,456,656:63:0
558	98	121	16:11:33.333	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,456,656:64:0
559	98	121	16:13:20.000	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,456,658:42:0
560	98	121	16:13:20.666	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,456,658:43:0
561	98	121	16:13:40.666	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,456,658:73:0
562	98	121	16:13:41.333	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,456,658:74:0
563	98	121	16:14:01.333	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,456,659:13:0
564	98	121	16:14:02.000	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,456,659:14:0
565	98	121	16:14:12.000	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,456,659:29:0
566	98	121	16:14:12.666	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,456,659:30:0
567	98	121	16:14:22.666	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,456,659:45:0
568	98	121	16:14:23.333	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,456,659:46:0
569	98	121	16:15:20.000	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,456,660:40:0
570	98	121	16:40:04.000	20UK4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,456,684:82:0
571	98	121	16:40:54.000	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,456,685:66:0
572	98	121	16:42:11.333	176SW6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,456,687:00:0
573	98	121	18:09:26.666	488CX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,456,773:27:0
574	98	122	01:56:38.666	488CY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,457,235:33:0
575	98	122	03:15:34.666	488CY6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,457,313:39:0
576	98	122	03:17:52.666	488CY6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,457,315:64:0
577	98	122	03:26:14.666	488CY6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,457,323:89:0
578	98	122	04:02:30.666	488CY6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,457,359:77:0
579	98	122	10:44:04.000	488CZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,457,756:90:0
580	98	122	10:49:58.666	488CZ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,457,762:76:0
581	98	122	11:09:10.666	488CZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,457,781:75:0
582	98	122	16:35:05.333	488CZ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,458,104:14:0
583	98	122	16:48:45.333	488DA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,458,117:61:0
584	98	122	18:05:10.666	488DA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,458,193:23:0
585	98	123	01:52:22.600	488DB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,458,655:29:0
586	98	123	03:12:48.600	488DB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,458,734:79:0
587	98	123	03:17:42.600	488DB6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,458,739:65:0
588	98	123	03:53:58.600	488DB6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,458,775:53:0
589	98	123	16:49:11.933	488DC6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,459,542:26:0
590	98	123	16:54:46.600	488DC6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,459,547:73:0
591	98	123	17:39:34.600	488DC6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,459,592:10:0
592	98	123	18:03:09.933	488DC6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,459,615:40:0
593	98	123	18:36:49.266	488DC6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,459,648:66:0
594	98	124	02:11:34.533	488DD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,460,098:44:0
595	98	124	03:07:02.533	488DD6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,460,153:31:0
596	98	124	03:39:02.533	488DD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,460,184:90:0
597	98	124	04:31:02.533	488DD6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,460,236:38:0
598	98	124	05:12:54.533	488DD6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,460,277:75:0
599	98	124	05:21:07.866	488DE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,460,285:87:0
600	98	124	11:17:42.533	488DE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,460,638:56:0
601	98	124	12:36:38.533	488DF6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,460,716:62:0
602	98	124	12:51:58.533	488DF6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,460,731:77:0
603	98	124	13:08:38.533	488DF6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,460,748:30:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	98	124	16:43:57.200	488DF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,460,961:25:0
605	98	124	17:58:46.533	488DF6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,461,035:25:0
606	98	124	20:46:56.533	488DG6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,461,201:54:0
607	98	124	20:51:34.533	488DG6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,461,206:16:0
608	98	125	03:14:21.200	488DH6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,461,584:68:0
609	98	125	03:34:46.533	488DH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,461,604:86:0
610	98	125	04:40:55.200	488DH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,461,670:33:0
611	98	125	05:06:30.533	488DH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,461,695:61:0
612	98	125	05:15:45.866	488DH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,461,704:75:0
613	98	125	07:03:01.200	20NY6AA	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,461,810:82:0
614	98	125	07:06:09.200	176GC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,461,814:00:0
615	98	125	07:10:11.866	20NY6BA	6MROH	7,6FC8,0,A10	read from AACSA7,6FC8,0,A10	4O0	4	0	4,461,818:00:0
616	98	125	07:16:55.866	20NY6F	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,461,824:60:0
617	98	125	07:30:29.866	20NY6K	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,461,838:07:0
618	98	125	07:44:37.866	20NY4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,461,852:05:0
619	98	125	07:59:37.866	20NY4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,461,866:81:0
620	98	125	08:11:37.866	20NY4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,461,878:69:0
621	98	125	08:18:37.866	20NY4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,461,885:62:0
622	98	125	08:30:37.866	20NY4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,461,897:50:0
623	98	125	08:37:37.866	20NY4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,461,904:43:0
624	98	125	08:49:37.866	20NY4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,461,916:31:0
625	98	125	08:56:37.800	20NY4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,461,923:24:0
626	98	125	09:08:37.800	20NY4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,461,935:12:0
627	98	125	09:15:37.800	20NY4S	**7CONE**	**17.45,0.0**	Check S/P Position	4O0	4	0	4,461,942:05:0
628	98	125	09:21:37.800	20NY4T	**7CONE**	**17.45,180.0**	Check S/P Position	4O0	4	0	4,461,947:90:0
629	98	125	09:27:37.800	20NY4U	**7CONE**	**4.36,0.0**	Check S/P Position	4O0	4	0	4,461,953:84:0
630	98	125	09:42:37.800	20NY4V	**7CONE**	**4.36,153.0**	Check S/P Position	4O0	4	0	4,461,968:69:0
631	98	125	10:19:41.800	20NY4AG	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,462,005:38:0
632	98	125	10:23:41.800	20NY4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,462,009:34:0
633	98	125	10:32:21.800	20NY6U	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,462,017:86:0
634	98	125	10:37:21.800	20NY4AM	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,462,022:81:0
635	98	125	10:39:29.800	176GD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,462,025:00:0
636	98	125	10:46:29.800	20NY6BB	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	4O0	4	0	4,462,031:84:0
637	98	125	10:47:59.800	20NY6Y	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,462,033:37:0
638	98	125	11:52:59.800	20NY6AB	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,462,097:63:0
639	98	125	12:27:58.466	488DI6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,462,132:26:0
640	98	125	13:01:37.133	488DI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,462,165:51:0
641	98	125	16:25:24.466	488DI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,462,367:10:0
642	98	125	16:39:04.466	488DI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,462,380:57:0
643	98	125	17:54:30.466	488DI6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,462,455:21:0
644	98	125	21:57:14.466	488DJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,462,695:27:0
645	98	125	22:01:58.466	488DJ6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,462,699:89:0
646	98	126	10:34:29.800	488DK6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,463,444:21:0
647	98	126	10:45:42.466	488DK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,463,455:29:0
648	98	126	11:34:46.466	488DK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,463,503:77:0
649	98	126	12:02:52.466	488DK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,463,531:58:0
650	98	126	12:36:31.133	488DK6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,463,564:83:0
651	98	126	16:20:30.400	488DL6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,463,786:40:0
652	98	126	16:34:10.400	488DL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,463,799:87:0
653	98	126	17:54:30.400	488DL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,463,879:37:0
654	98	126	17:55:36.400	488DL6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,463,880:45:0
655	98	126	18:24:42.400	488DL6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,463,909:25:0
656	98	127	01:37:26.400	488DM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,464,337:23:0
657	98	127	02:57:57.066	488DM6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,464,416:80:0
658	98	127	03:02:46.400	488DM6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,464,421:59:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	98	127	03:39:02.400	488DM6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,464,457:47:0	
660	**98**	**127**	**14:30:45.066**	**14NNRCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
661	98	127	16:34:17.733	488DN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,465,224:23:0	
662	98	127	17:54:30.400	488DN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,465,303:53:0	
663	98	128	01:33:10.333	488DO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,465,757:19:0	
664	98	128	02:56:22.333	488DO6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,465,839:45:0	
665	98	128	03:30:30.333	488DO6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,465,873:23:0	
666	**98**	**128**	**03:46:29.732**	**14NNRCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
667	98	128	04:30:36.333	488DO6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,465,932:63:0	
668	98	128	04:57:58.333	488DO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,465,959:69:0	
669	**98**	**128**	**05:00:00.000**	**14NNPCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**	
670	98	128	05:05:48.333	488DP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,465,967:46:0	
671	98	128	09:15:29.000	488DP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,466,214:40:0	
672	98	128	09:22:30.333	488DP6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,466,221:35:0	
673	98	128	10:30:42.333	488DP6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,466,288:76:0	
674	98	128	10:46:59.666	488DP6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,466,304:86:0	
675	98	128	10:49:58.333	488DQ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,466,307:81:0	
676	98	128	11:21:18.333	488DQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,466,338:80:0	
677	**98**	**128**	**12:50:10.000**	**14NNPCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
678	98	128	16:15:44.333	488DQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,466,630:07:0	
679	98	128	16:29:24.333	488DQ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,466,643:54:0	
680	98	128	17:54:30.333	488DR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,466,727:69:0	
681	98	129	01:26:46.333	488DS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,467,175:05:0	
682	98	129	02:52:06.333	488DS6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,467,259:41:0	
683	98	129	02:55:27.666	488DS6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,467,262:70:0	
684	98	129	03:02:46.333	488DS6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,467,270:00:0	
685	98	129	03:39:02.333	488DS6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,467,305:79:0	
686	98	129	10:24:49.600	488DT6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,467,707:18:0	
687	98	129	10:30:46.266	488DT6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,467,713:07:0	
688	98	129	10:45:42.266	488DT6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,467,727:77:0	
689	98	129	16:15:50.266	488DT6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,468,054:32:0	
690	98	129	16:29:30.266	488DU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,468,067:79:0	
691	98	129	17:54:30.266	488DU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,468,151:85:0	
692	98	130	01:22:30.266	488DV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,468,595:01:0	
693	98	130	02:47:50.266	488DV6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,468,679:37:0	
694	98	130	02:51:02.933	488DV6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,468,682:53:0	
695	98	130	02:58:30.266	488DV6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,468,689:87:0	
696	98	130	03:34:46.266	488DV6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,468,725:75:0	
697	98	130	10:19:56.933	488DW6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,469,126:50:0	
698	98	130	10:24:22.266	488DW6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,469,130:84:0	
699	98	130	10:45:42.266	488DW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,469,152:02:0	
700	98	130	16:10:57.533	488DW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,469,473:64:0	
701	98	130	16:24:37.533	488DX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,469,487:20:0	
702	98	130	17:50:14.200	488DX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,469,571:81:0	
703	98	131	01:18:14.200	488DY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,014:88:0	
704	98	131	02:47:50.200	488DY6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,470,103:53:0	
705	98	131	03:19:50.200	488DY6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,470,135:21:0	
706	98	131	04:25:15.533	488DY6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,470,199:85:0	
707	98	131	04:51:34.200	488DY6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,225:87:0	
708	98	131	05:00:14.200	488DZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,234:48:0	
709	98	131	09:56:38.200	488DZ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,470,527:61:0	
710	98	131	10:26:30.200	488DZ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,470,557:19:0	
711	98	131	10:41:26.200	488DZ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,571:89:0	
712	98	131	11:37:18.200	488EA6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,627:21:0	
713	98	131	12:10:57.533	488EA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,660:47:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	131	14:01:05.533	488EA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,769:40:0	
715	98	131	16:24:44.200	488EA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,470,911:46:0	
716	98	131	17:50:14.200	488EB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,470,996:06:0	
717	98	131	20:48:45.466	488EB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,471,172:57:0	
718	98	131	20:53:42.133	488EB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,471,177:47:0	
719	98	132	07:59:34.133	41XE99A	POWER	PWR MODE change	Change to Calib/Decon Mode	4O0	4	0	4,471,836:06:0	
720	98	132	07:59:38.133	41XE3I	40T1PR	1	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,471,836:12:0	
721	98	132	07:59:48.133	41XE3J	40T1PR	2	PCT Heater 1 OFF (primary relay)	4O0	4	0	4,471,836:27:0	
722	98	132	07:59:58.133	41XE3K	40T2R	1	PCT Heater 2 OFF	4O0	4	0	4,471,836:42:0	
723	98	132	08:00:08.133	41XE3L	40T2R	2	PCT Heater 2 OFF	4O0	4	0	4,471,836:57:0	
724	98	132	08:10:37.466	176XU6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,471,847:00:0	
725	98	132	08:13:43.466	20XE4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,471,850:06:0	
726	98	132	08:17:50.133	20DA4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,471,854:12:0	
727	98	132	08:18:40.133	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,471,854:87:0	
728	98	132	08:20:44.133	176XV6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,471,857:00:0	
729	98	132	08:21:44.800	185XE10A3A	40HRP	1	RCT Heater ON (primary relay)	4O0	4	0	4,471,858:00:0	
730	98	132	08:21:50.133	185XE10B3A	40HRP	2	RCT Heater ON (primary relay)	4O0	4	0	4,471,858:08:0	
731	98	132	16:19:52.133	488EC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,472,330:79:0	
732	98	132	17:45:58.133	488EC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,472,416:02:0	
733	98	132	20:16:31.466	125XE	NIMSINIT	GS	##### GROUP START INIT	4O0	4	0	4,472,564:84:0	
734	98	132	20:16:31.466	125XE4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	4,472,564:84:0	
735	98	132	20:17:32.133	125XE4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	4,472,565:84:0	
736	98	132	20:18:32.800	125XE4C	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R0	4	0	4,472,566:84:0	
737	98	132	20:19:33.466	125XE4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	4,472,567:84:0	
738	98	132	20:19:33.466	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	4,472,567:84:0	
739	98	132	20:21:34.800	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	4,472,569:84:0	
740	98	132	20:21:34.800	127XE4A	37IOP	3,0	Long Map, Grating Start Position =00	1R3	4	0	4,472,569:84:0	
741	98	132	20:21:35.466	127XE4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	4,472,569:85:0	
742	98	132	20:21:43.466	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	4,472,570:06:0	
743	98	132	20:25:42.133	176XE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	4,472,574:00:0	
744	98	132	20:31:46.133	192XE4A	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	4,472,580:00:0	
745	98	132	20:34:07.466	432XE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	4,472,582:30:0	
746	98	132	20:35:06.800	432XF6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	4,472,583:28:0	
747	98	132	20:37:50.133	192XE4B	7CONE	17.0,0.0	Check S/P Position	1R3	4	0	4,472,586:00:0	
748	98	132	20:40:11.466	432XU6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	4,472,588:30:0	
749	98	132	20:42:11.466	432XV6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	4,472,590:28:0	
750	98	132	20:43:54.133	192XE4C	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	4,472,592:00:0	
751	98	132	20:45:55.466	185XE10C3A	40HRPR	1	RCT Heater OFF (primary relay)	1R3	4	0	4,472,594:00:0	
752	98	132	20:46:00.800	185XE10D3A	40HRPR	2	RCT Heater OFF (primary relay)	1R3	4	0	4,472,594:08:0	
753	98	132	20:46:15.466	432XW6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	4,472,594:30:0	
754	98	132	20:47:14.800	432XY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	4,472,595:28:0	
755	98	132	20:48:52.800	125DC11A	NIMSINIT	GE	##### GROUP END INIT	1R3	4	0	4,472,596:84:0	
756	98	132	20:48:52.800	125DC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	4,472,596:84:0	
757	98	132	20:48:52.800	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,472,596:84:0	
758	98	132	20:49:53.466	127DC4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	4,472,597:84:0	
759	98	132	20:49:53.466	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,472,597:84:0	
760	98	132	20:49:54.133	127DC4B	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	4,472,597:85:0	
761	98	132	20:49:58.133	192XE4D	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	4,472,598:00:0	
762	98	132	20:50:02.133	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,472,598:06:0	
763	98	132	20:50:18.133	432DC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	4,472,598:30:0	
764	98	132	20:50:54.133	125DD4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	4,472,598:84:0	
765	98	132	20:50:54.133	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,472,598:84:0	
766	98	132	20:50:54.133	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,472,598:84:0	
767	98	132	20:52:55.466	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,472,600:84:0	
768	98	132	20:52:55.466	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,472,600:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
769	98	132	20:52:55.466	125DE4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	4,472,600:84:0
770	98	132	20:53:18.800	432DE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	4,472,601:28:0
771	98	132	20:56:58.133	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,472,604:84:0
772	98	132	20:56:58.133	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	4,472,604:84:0
773	98	132	20:56:58.800	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	4,472,604:85:0
774	98	132	20:57:06.800	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,472,605:06:0
775	98	132	21:00:00.133	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,472,607:84:0
776	98	132	21:00:00.133	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	4,472,607:84:0
777	98	132	21:01:00.800	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	4,472,608:84:0
778	98	132	21:02:01.466	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	4,472,609:84:0
779	98	132	21:02:01.466	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	4,472,609:84:0
780	98	132	21:08:14.133	41XU99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	4,472,616:06:0
781	98	132	21:10:08.133	41XU3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	4,472,617:86:0
782	98	132	21:10:18.133	41XU3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	4,472,618:10:0
783	98	132	21:10:28.133	41XU3I	40T2	1	PCT Heater 2 ON	4O0	4	0	4,472,618:25:0
784	98	132	21:10:38.133	41XU3J	40T2	2	PCT Heater 2 ON	4O0	4	0	4,472,618:40:0
785	98	132	21:18:24.800	20DB4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,472,626:12:0
786	98	132	21:19:14.800	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,472,626:87:0
787	98	132	21:21:18.800	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,472,629:00:0
788	98	132	21:48:29.466	488EC6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,472,655:80:0
789	98	132	21:53:26.133	488EC6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,472,660:70:0
790	98	133	10:05:18.066	488ED6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,473,384:54:0
791	98	133	10:26:30.066	488ED6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,473,405:51:0
792	98	133	11:19:50.066	488ED6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,473,458:28:0
793	98	133	11:37:03.400	488ED6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,473,475:31:0
794	98	133	12:10:42.733	488ED6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,473,508:57:0
795	98	133	16:01:01.400	488EE6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,473,736:37:0
796	98	133	16:07:50.066	488EE6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,473,743:13:0
797	98	133	16:16:19.400	488EE6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,473,751:49:0
798	98	133	16:24:54.066	488EE6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,473,760:02:0
799	98	133	17:32:02.066	488EE6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,473,826:38:0
800	98	133	17:56:38.066	488EF6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,473,850:68:0
801	98	133	18:02:46.733	488EF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,473,856:75:0
802	98	134	01:07:34.066	488EG6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,474,276:86:0
803	98	134	02:32:37.400	488EG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,474,361:06:0
804	98	134	02:37:10.066	488EG6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,474,365:51:0
805	98	134	03:13:26.066	488EG6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,474,401:39:0
806	98	134	16:11:26.666	488EH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,475,170:81:0
807	98	134	16:20:38.000	488EH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,475,179:89:0
808	98	134	17:41:42.000	488EH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,475,260:14:0
809	98	134	19:48:55.333	488EH6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,475,385:89:0
810	98	134	19:53:58.000	488EH6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,475,390:88:0
811	98	135	02:45:30.666	488EI6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,475,797:90:0
812	98	135	03:04:54.000	488EI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,475,817:15:0
813	98	135	04:04:46.666	488EI6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,475,876:35:0
814	98	135	04:40:54.000	488EI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,475,912:10:0
815	98	135	04:41:43.333	488EI6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,475,912:84:0
816	98	135	09:58:46.000	488EJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,476,226:44:0
817	98	135	10:30:46.000	488EJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,476,258:12:0
818	98	135	11:26:49.333	488EJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,476,313:52:0
819	98	135	12:00:28.666	488EJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,476,346:78:0
820	98	135	13:46:34.000	488EJ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,476,451:71:0
821	98	135	16:10:14.666	488EK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,476,593:80:0
822	98	135	17:04:59.933	488EK6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,476,648:03:0
823	98	135	17:07:59.933	176NC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,476,651:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	135	17:12:11.933	20NW6BA	6MROH	7,6FC8,0,A10	read from AACSA7,6FC8,0,A10	4O0	4	0	4,476,655:14:0	
825	98	135	17:18:55.933	20NW6F	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,476,661:74:0	
826	98	135	17:32:29.933	20NW6K	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,476,675:21:0	
827	98	135	17:35:17.933	488EK6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,476,678:00:0	
828	98	135	17:46:37.933	20NW4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,476,689:19:0	
829	98	135	18:01:37.933	20NW4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,476,704:04:0	
830	98	135	18:13:37.933	20NW4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,476,715:83:0	
831	98	135	18:20:37.933	20NW4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,476,722:76:0	
832	98	135	18:32:37.933	20NW4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,476,734:64:0	
833	98	135	18:39:37.933	20NW4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,476,741:57:0	
834	98	135	18:51:37.933	20NW4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,476,753:45:0	
835	98	135	18:58:37.933	20NW4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,476,760:38:0	
836	98	135	19:10:37.933	20NW4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,476,772:26:0	
837	98	135	19:17:37.933	20NW4S	**7CONE**	**17.45,0.0**	Check S/P Position	4O0	4	0	4,476,779:19:0	
838	98	135	19:23:37.933	20NW4T	**7CONE**	**17.45,180.0**	Check S/P Position	4O0	4	0	4,476,785:13:0	
839	98	135	19:29:37.933	20NW4U	**7CONE**	**4.36,0.0**	Check S/P Position	4O0	4	0	4,476,791:07:0	
840	98	135	19:44:37.933	20NW4V	**7CONE**	**4.36,153.0**	Check S/P Position	4O0	4	0	4,476,805:83:0	
841	98	135	20:21:41.933	20NW4AG	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,476,842:52:0	
842	98	135	20:25:41.933	20NW4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,476,846:48:0	
843	98	135	20:34:21.933	20NW6U	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,476,855:09:0	
844	98	135	20:39:21.933	20NW4AM	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,476,860:04:0	
845	98	135	20:41:20.600	176ND6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,476,862:00:0	
846	98	135	20:48:29.933	20NW6BB	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	4O0	4	0	4,476,869:07:0	
847	98	135	20:49:59.933	20NW6Y	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,476,870:51:0	
848	98	135	20:59:59.933	488EK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,476,880:41:0	
849	98	136	01:03:17.933	488EL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,477,121:07:0	
850	98	136	02:26:29.933	488EL6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,477,203:33:0	
851	98	136	02:52:05.933	488EL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,477,228:62:0	
852	98	136	03:21:57.933	488EL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,477,258:20:0	
853	98	136	09:52:21.933	488EM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,477,644:30:0	
854	98	136	10:26:29.933	488EM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,477,678:08:0	
855	98	136	15:46:19.933	488EM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,477,994:37:0	
856	98	136	15:52:53.933	488EN6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,478,000:82:0	
857	98	136	16:01:41.266	488EN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,478,009:54:0	
858	98	136	16:12:05.933	488EN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,478,019:81:0	
859	98	136	17:31:01.933	488EN6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,478,097:87:0	
860	98	137	00:59:01.866	488EO6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,478,541:03:0	
861	98	137	02:23:52.533	488EO6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,478,624:86:0	
862	98	137	02:28:37.866	488EO6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,478,629:59:0	
863	98	137	03:04:53.866	488EO6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,478,665:47:0	
864	98	137	16:01:49.866	488EP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,479,433:83:0	
865	98	137	16:12:05.866	488EP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,479,444:06:0	
866	98	137	17:26:45.866	488EP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,479,517:83:0	
867	98	138	00:59:01.866	488EQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,479,965:19:0	
868	98	138	02:24:21.866	488EQ6B	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,480,049:55:0	
869	98	138	02:56:21.866	488EQ6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,480,081:23:0	
870	98	138	03:54:23.200	488EQ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,480,138:58:0	
871	98	138	04:21:41.866	488EQ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,480,165:59:0	
872	98	138	04:29:34.533	488ER6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,480,173:40:0	
873	98	138	10:24:21.800	488ER6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,480,524:30:0	
874	98	138	11:47:33.800	488ES6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,480,606:56:0	
875	98	138	12:08:38.466	488ES6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,480,627:42:0	
876	98	138	12:25:57.800	488ES6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,480,644:54:0	
877	98	138	16:00:37.133	488ES6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,480,856:81:0	
878	98	138	17:20:21.800	488ES6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,480,935:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
879	98	138	20:48:55.133	488ET6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,481,142:02:0
880	98	138	20:53:41.800	488ET6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,481,146:68:0
881	98	139	02:31:01.133	488ET6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,481,480:33:0
882	98	139	02:52:05.800	488EU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,481,501:19:0
883	98	139	03:49:15.800	488EU6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,481,557:68:0
884	98	139	04:21:33.133	488EU6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,481,589:62:0
885	98	139	04:25:26.466	488EU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,481,593:48:0
886	98	139	09:43:49.800	488EV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,481,908:38:0
887	98	139	10:11:33.800	488EV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,481,935:77:0
888	98	139	11:11:18.466	488EV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,481,994:85:0
889	98	139	11:44:57.133	488EV6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,482,028:19:0
890	98	139	14:06:13.800	488EV6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,482,167:85:0
891	98	139	15:33:41.733	488EW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,482,254:40:0
892	98	139	15:41:47.733	488EW6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,482,262:41:0
893	98	139	15:48:37.733	488EW6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,482,269:19:0
894	98	139	15:57:05.733	488EW6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,482,277:53:0
895	98	139	16:05:41.733	488EW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,482,286:08:0
896	98	139	17:16:05.733	488EX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,482,355:65:0
897	98	140	00:59:01.733	488EY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,482,813:51:0
898	98	140	02:13:25.066	488EY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,482,887:12:0
899	98	140	02:17:57.733	488EY6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,482,891:57:0
900	98	140	02:54:13.733	488EY6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,482,927:45:0
901	98	140	09:46:11.733	488EZ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,483,334:85:0
902	98	140	09:52:21.733	488EZ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,483,341:03:0
903	98	140	10:11:33.733	488EZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,483,360:02:0
904	98	140	11:52:59.733	20L6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,483,460:31:0
905	98	140	11:57:42.400	176SX6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,483,465:00:0
906	98	140	12:05:59.733	20UV4C	7STAT	17.45,175.44,4.4	Stator inertial point	4O0	4	0	4,483,473:18:0
907	98	140	12:25:01.733	490UC412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,483,492:02:0
908	98	140	12:29:59.733	490UC412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,483,496:85:0
909	98	140	12:30:19.733	20UV4D	7STAT	17.45,175.44,4.4	Stator inertial point	4O0	4	0	4,483,497:24:0
910	98	140	12:34:09.733	490UC412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,483,501:05:0
911	98	140	12:34:13.733	490UC412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,483,501:11:0
912	98	140	12:38:01.733	490UC412A406A4A	7STAR	16,217,100.73	Star catalog update	4O0	4	0	4,483,504:80:0
913	98	140	12:38:03.733	490UC412A406A4B	7STAR	2,295,88.964,44.	Star catalog update	4O0	4	0	4,483,504:83:0
914	98	140	12:38:05.733	490UC412A406A4C	7STAR	3,178,256.88	Star catalog update	4O0	4	0	4,483,504:86:0
915	98	140	12:38:07.733	490UC412A406A4D	7STAR	4,111,99.056999,	Star catalog update	4O0	4	0	4,483,504:89:0
916	98	140	12:38:09.733	490UC412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,483,505:01:0
917	98	140	12:38:11.733	490UC412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,483,505:04:0
918	98	140	12:48:05.733	20UV4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,483,514:76:0
919	98	140	12:56:09.733	490UC412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,483,522:74:0
920	98	140	13:40:37.733	488EZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,483,566:72:0
921	98	140	13:40:39.066	20L6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,483,566:74:0
922	98	140	14:15:59.733	20L6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,483,601:70:0
923	98	140	14:17:14.400	176SQ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,483,603:00:0
924	98	140	14:21:59.733	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,483,607:64:0
925	98	140	14:22:59.733	20US4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,483,608:63:0
926	98	140	14:24:59.733	20US4E	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,483,610:61:0
927	98	140	14:30:29.733	20US4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,483,616:10:0
928	98	140	14:30:30.400	20US4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,483,616:11:0
929	98	140	14:30:50.400	20US4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,483,616:41:0
930	98	140	14:30:51.066	20US4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,483,616:42:0
931	98	140	14:31:11.066	20US4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,483,616:72:0
932	98	140	14:31:11.733	20US4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,483,616:73:0
933	98	140	14:31:21.733	20US4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,483,616:88:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
934	98	140	14:31:22.400	20US4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,483,616:89:0
935	98	140	14:31:32.400	20US4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,483,617:13:0
936	98	140	14:31:33.066	20US4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,483,617:14:0
937	98	140	14:33:19.733	20US4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,483,618:83:0
938	98	140	14:33:20.400	20US4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,483,618:84:0
939	98	140	14:33:40.400	20US4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,483,619:23:0
940	98	140	14:33:41.066	20US4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,483,619:24:0
941	98	140	14:34:01.066	20US4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,483,619:54:0
942	98	140	14:34:01.733	20US4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,483,619:55:0
943	98	140	14:34:11.733	20US4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,483,619:70:0
944	98	140	14:34:12.400	20US4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,483,619:71:0
945	98	140	14:34:22.400	20US4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,483,619:86:0
946	98	140	14:34:23.066	20US4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,483,619:87:0
947	98	140	14:35:19.733	20US4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,483,620:81:0
948	98	140	15:00:03.733	20UL4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	4,483,645:32:0
949	98	140	15:00:53.733	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,483,646:16:0
950	98	140	15:02:44.400	176SY6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,483,648:00:0
951	98	140	15:39:35.733	488EZ6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,483,684:41:0
952	98	140	15:44:21.733	488FA6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,483,689:15:0
953	98	140	15:52:13.733	488FA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,483,696:86:0
954	98	140	16:01:25.733	488FA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,483,706:04:0
955	98	140	17:01:09.733	488FA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,483,765:11:0
956	98	140	19:36:53.733	488FA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,483,919:13:0
957	98	140	21:11:51.066	488FB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,484,013:05:0
958	98	140	21:23:33.666	488FB6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,484,024:58:0
959	98	141	15:52:21.666	488FC6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,485,121:23:0
960	98	141	16:16:21.666	488FC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,485,144:90:0
961	98	141	17:05:59.000	488FC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,485,194:06:0
962	98	141	17:39:38.333	488FC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,485,227:32:0
963	98	142	01:43:49.666	488FD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,485,706:20:0
964	98	142	02:07:49.000	488FD6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,485,729:86:0
965	98	142	02:13:41.666	488FD6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,485,735:69:0
966	98	142	02:49:57.666	488FD6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,485,771:57:0
967	98	142	09:32:27.600	488FE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,486,169:64:0
968	98	142	09:45:57.600	488FE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,486,183:05:0
969	98	142	11:17:41.600	488FE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,486,273:71:0
970	98	142	15:35:08.266	488FF6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,486,528:36:0
971	98	142	15:40:05.600	488FF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,486,533:27:0
972	98	142	15:46:09.600	488FF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,486,539:27:0
973	98	142	16:27:01.600	488FF6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,486,579:65:0
974	98	142	18:22:13.600	488FF6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,486,693:59:0
975	98	142	23:33:41.600	488FG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,487,001:63:0
976	98	143	01:28:53.600	488FG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,115:57:0
977	98	143	02:11:33.600	488FG6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,487,157:75:0
978	98	143	02:26:29.600	488FG6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,487,172:54:0
979	98	143	02:56:21.600	488FG6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,202:12:0
980	98	143	03:45:46.933	488FH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,251:01:0
981	98	143	04:19:26.266	488FH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,284:27:0
982	98	143	09:24:37.600	488FH6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,487,586:12:0
983	98	143	09:48:05.600	488FI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,609:31:0
984	98	143	11:01:36.266	488FI6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,682:04:0
985	98	143	11:07:01.600	488FI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,487,687:37:0
986	98	143	11:32:37.533	488FI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,487,712:66:0
987	98	143	15:35:14.200	488FI6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,487,952:61:0
988	98	143	15:40:05.533	488FJ6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,957:43:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	143	15:46:18.200	488FJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,487,963:56:0	
990	98	143	16:16:21.533	488FJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,487,993:31:0	
991	98	143	18:03:01.533	488FJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,488,098:76:0	
992	98	143	23:44:21.533	488FK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,488,436:38:0	
993	98	144	01:28:53.533	488FK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,488,539:73:0	
994	98	144	02:07:04.866	488FK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,488,577:52:0	
995	98	144	02:09:25.533	488FK6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,488,579:81:0	
996	98	144	02:24:21.533	488FK6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,488,594:60:0	
997	98	144	15:41:26.200	488FL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,489,382:89:0	
998	98	144	16:12:05.533	488FL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,489,413:27:0	
999	98	144	17:48:05.533	488FL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,489,508:22:0	
1000	98	144	23:55:01.466	488FM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,489,871:13:0	
1001	98	145	01:28:53.466	488FM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,489,963:89:0	
1002	98	145	02:05:09.466	488FM6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,489,999:77:0	
1003	98	145	02:41:25.466	488FM6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,490,035:65:0	
1004	98	145	03:35:30.133	488FM6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,490,089:18:0	
1005	98	145	04:09:09.466	488FN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,490,122:44:0	
1006	98	145	09:13:57.466	488FN6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,490,423:85:0	
1007	98	145	09:37:25.466	488FN6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,490,447:13:0	
1008	98	145	10:47:49.466	488FO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,490,516:70:0	
1009	98	145	10:53:13.466	488FO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,490,522:10:0	
1010	98	145	11:22:19.466	488FO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,490,550:81:0	
1011	98	145	11:59:50.133	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,490,587:90:0	
1012	98	145	11:59:50.800	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,490,588:00:0	
1013	98	145	15:25:12.133	488FO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,490,791:09:0	
1014	98	145	15:29:25.466	488FO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,490,795:25:0	
1015	98	145	15:36:35.466	488FP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,490,802:33:0	
1016	98	145	16:01:25.466	488FP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,490,826:84:0	
1017	98	145	17:33:09.466	488FP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,490,917:59:0	
1018	98	145	20:51:00.133	488FP6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,491,113:29:0	
1019	98	145	20:53:41.466	488FP6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,491,115:89:0	
1020	98	146	15:36:44.733	488FQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,492,226:63:0	
1021	98	146	15:57:09.400	488FQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,492,246:80:0	
1022	98	146	17:22:29.400	488FQ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,492,331:25:0	
1023	98	146	20:41:42.733	488FQ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,492,528:28:0	
1024	98	146	20:45:09.400	488FQ6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,492,531:65:0	
1025	98	147	00:00:00.066	481UF4A	7VECT		Inert vect update UTC	4O0	4	0	4,492,724:38:0	
1026	98	147	09:13:11.333	488FR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,493,271:48:0	
1027	98	147	09:22:29.333	488FR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,493,280:66:0	
1028	98	147	10:28:37.333	488FR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,493,346:12:0	
1029	98	147	15:27:17.333	488FS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,493,641:47:0	
1030	98	147	19:34:45.333	488FS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,493,886:24:0	
1031	98	148	00:09:57.333	488FT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,494,158:40:0	
1032	98	148	01:24:37.333	488FT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,494,232:26:0	
1033	98	148	01:54:29.333	488FT6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,494,261:75:0	
1034	98	148	02:22:13.333	488FT6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,494,289:23:0	
1035	98	148	03:25:03.333	488FT6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,494,351:36:0	
1036	98	148	03:58:42.666	488FU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,494,384:62:0	
1037	98	148	10:22:13.333	488FV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,494,763:89:0	
1038	98	148	10:47:46.666	488FV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,494,789:23:0	
1039	98	148	11:16:52.666	488FV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,494,818:03:0	
1040	98	148	15:20:35.333	488FV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,495,059:06:0	
1041	98	148	15:25:09.266	488FV6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,495,063:53:0	
1042	98	148	15:33:23.266	488FW6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,495,071:66:0	
1043	98	148	15:42:13.266	488FW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,495,080:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1044	98	148	16:39:57.933	488FW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,495,137:52:0
1045	98	148	17:13:37.266	488FW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,495,170:78:0
1046	98	148	18:52:59.933	488FW6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,495,269:13:0
1047	98	148	18:57:54.600	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,495,274:00:0
1048	98	148	19:02:45.266	488FX6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,495,278:72:0
1049	98	148	19:08:59.933	20CB4C	7STAT	17.45,267.7753,2	Stator inertial point	4O0	4	0	4,495,284:88:0
1050	98	148	19:29:59.933	474CA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,495,305:67:0
1051	98	148	19:31:59.933	474CA416A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	4,495,307:65:0
1052	98	148	19:32:19.933	20CB4D	7STAT	17.45,267.7753,2	Stator inertial point	4O0	4	0	4,495,308:04:0
1053	98	148	19:36:13.933	474CA416A4E	7BURN	267.775299,27.56	ALERT -- Thruster fire	4O0	4	0	4,495,311:82:0
1054	98	148	19:46:15.266	20CB4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,495,321:74:0
1055	98	148	19:52:07.266	20CB4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,495,327:56:0
1056	98	148	20:16:53.266	20CB4J	7STAT	17.45,267.7753,2	Stator inertial point	4O0	4	0	4,495,352:10:0
1057	98	148	20:19:53.266	20CB4K	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,495,355:07:0
1058	98	150	06:12:01.200	20ZS6A	6CKSUM	MAG,4040,46F0		4O0	4	0	4,497,364:80:0
1059	98	150	06:12:41.200	20ZS6B	6MROH	12	read from LLM1A12,2282,0,A1	4O0	4	0	4,497,365:49:0
1060	98	150	06:12:41.200	20ZS6B	6MROH	12,2282,0,A10	read from LLM1A12,2282,0,A1	4O0	4	0	4,497,365:49:0
1061	**98**	**150**	**06:19:59.866**	**20ZU3Q**	**37HR**	**1**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,497,372:70:0**
1062	**98**	**150**	**06:20:01.866**	**20ZU3S**	**37HR**	**2**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,497,372:73:0**
1063	**98**	**150**	**06:20:27.866**	**20ZU3R**	**37A**	**1**	**NIMS Power ON**	**260**	**4**	**0**	**4,497,373:21:0**
1064	**98**	**150**	**06:20:29.866**	**20ZU3T**	**37A**	**2**	**NIMS Power ON**	**260**	**4**	**0**	**4,497,373:24:0**
1065	**98**	**150**	**06:22:29.200**	**20ZU4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,497,375:21:0**
1066	98	150	06:52:59.866	41V99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	2R0	4	0	4,497,405:37:0
1067	**98**	**150**	**06:54:53.866**	**41V3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**4,497,407:26:0**
1068	**98**	**150**	**06:55:03.866**	**41V3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**4,497,407:41:0**
1069	**98**	**150**	**06:55:13.866**	**41V3I**	**40T2**	**1**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**4,497,407:56:0**
1070	**98**	**150**	**06:55:23.866**	**41V3J**	**40T2**	**2**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**4,497,407:71:0**
1071	98	150	07:02:41.200	432MX431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	4,497,414:90:0
1072	98	150	07:02:41.866	432MX6A	6RTSL1		R/T Select of DDS and	2R0	4	0	4,497,415:00:0
1073	98	150	07:07:45.200	465WD6A	6DMST	250	DMS Slew to TIC	2R0	4	0	4,497,420:00:0
1074	98	150	07:07:45.200		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	4,497,420:00:0
1075	98	150	07:07:45.200		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	4,497,420:00:0
1076	98	150	07:07:45.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	4,497,420:00:0
1077	98	150	07:07:51.866		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	4,497,420:10:0
1078	98	150	07:07:53.266		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	2R0	4	0	4,497,420:12:1
1079	98	150	07:11:07.333		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC * 247.94 +/-	2R0	4	0	4,497,423:30:2
1080	98	150	07:11:08.533		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 248.00 +/-	2R0	4	0	4,497,423:32:0
1081	98	150	11:07:23.200		DMS:	: READY	RDY, TRACK *4, *REV, TIC 248.00 +/-	2R0	4	0	4,497,657:00:0
1082	98	150	11:07:23.200	465WE6A	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	4,497,657:00:0
1083	98	150	11:08:17.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 248.00 +/-	2R0	4	0	4,497,657:81:0
1084	98	150	11:08:17.200		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 248.00 +/-	2R0	4	0	4,497,657:81:0
1085	98	150	11:08:17.200	465WF6A	6DTRN	CMD,6DTRN,465WF6	DMS TRACK TURNAROUND	2R0	4	0	4,497,657:81:0
1086	98	150	11:08:18.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 248.12 +/-	2R0	4	0	4,497,657:83:1
1087	98	150	11:08:23.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 249.35 +/-	2R0	4	0	4,497,658:00:0
1088	98	150	11:08:25.066		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 249.41 +/-	2R0	4	0	4,497,658:01:8
1089	98	150	11:08:26.466		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 249.29 +/-	2R0	4	0	4,497,658:03:9
1090	98	150	11:11:57.266		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	2R0	4	0	4,497,661:47:1
1091	98	150	11:11:58.466		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	2R0	4	0	4,497,661:48:9
1092	98	150	11:11:58.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	2R0	4	0	4,497,661:48:9
1093	98	150	11:11:59.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	2R0	4	0	4,497,661:51:0
1094	98	150	11:12:11.866		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	2R0	4	0	4,497,661:69:0
1095	98	150	11:12:13.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	2R0	4	0	4,497,661:70:8
1096	98	150	20:59:59.866		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2R0	4	0	4,498,243:09:0
1097	**98**	**150**	**21:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**2R0**	**4**	**0**	**4,498,243:09:2**
1098	**98**	**150**	**21:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**2R0**	**4**	**0**	**4,498,243:09:2**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	150	21:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	2R0	4	0	4,498,243:09:2	
1100	98	150	21:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	2R0	4	0	4,498,243:09:2	
1101	98	150	21:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	2R0	4	0	4,498,243:09:2	
1102	98	150	21:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	2R0	4	0	4,498,243:09:2	
1103	98	150	21:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	2R0	4	0	4,498,243:09:2	
1104	98	150	21:00:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	2R0	4	0	4,498,243:09:2	
1105	98	150	21:00:00.000	20A3EW	37A	Final Condition	NIMS Power ON	2R0	4	0	4,498,243:09:2	

14JNJUPRTS01

OAPEL:	14JNJUPRTS01	ALIAS:	14JNJUPRTS01
EXT:	R	PSID:	DA
SCLK1:	04408376:00:0	SCLK2:	04408385:12:0
SCET1:	1998-087/18:34:25.800	SCET2:	1998-087/18:43:39.800
TARGET:	JUPITER	PARTITION:	1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

14INHRSPEC01

OAPEL:	14INHRSPEC01	ALIAS:	14INHRSPEC01
EXT:	A	PSID:	DB
SCLK1:	04408987:00:0	SCLK2:	04408994:83:0
SCET1:	98-088/04:52:13.066	SCET2:	98-088/05:00:13.733
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:	324	TLMFMT:	MPW

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

WETGID: 0326324001 03 26 324 001
WTGRP_SIZ: 26

EDIT TABLE

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

14INHRSPEC01

OAPEL:	14INHRSPEC01	ALIAS:	14INHRSPEC01
EXT:	B	PSID:	DB
SCLK1:	04408987:00:0	SCLK2:	04408994:83:0
SCET1:	98-088/04:52:13.066	SCET2:	98-088/05:00:13.733
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:	36	TLMFMT:	MPW

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

WETGID: 0326036001 03 26 036 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	0B000	0,1011,0000,0000,0000
1	00000	0,0000,0000,0000,0000
2	0B000	0,1011,0000,0000,0000
3	00000	0,0000,0000,0000,0000
4	0B000	0,1011,0000,0000,0000
5	00000	0,0000,0000,0000,0000
6	0B000	0,1011,0000,0000,0000
7	00000	0,0000,0000,0000,0000
8	0B000	0,1011,0000,0000,0000
9	00000	0,0000,0000,0000,0000
10	0B000	0,1011,0000,0000,0000
11	00000	0,0000,0000,0000,0000
12	0B000	0,1011,0000,0000,0000
13	00000	0,0000,0000,0000,0000
14	0B000	0,1011,0000,0000,0000
15	00000	0,0000,0000,0000,0000
16	0B000	0,1011,0000,0000,0000
17	00000	0,0000,0000,0000,0000
18	0B000	0,1011,0000,0000,0000
19	00000	0,0000,0000,0000,0000
20	0B000	0,1011,0000,0000,0000
21	00000	0,0000,0000,0000,0000
22	0B000	0,1011,0000,0000,0000
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14INHRSPEC01

OAPEL:	14INHRSPEC01	ALIAS:	14INHRSPEC01
EXT:	D	PSID:	DB
SCLK1:	04408987:00:0	SCLK2:	04408994:83:0
SCET1:	98-088/04:52:13.066	SCET2:	98-088/05:00:13.733
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: 2
THRESHOLD_VALUES: 030, 030, 030, 000, 030, 029, 028, 028, 029
028, 032, 034, 031, 031, 032, 030, 029

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

14INHRSPEC01

OAPEL:	14INHRSPEC01	ALIAS:	14INHRSPEC01
EXT:	C	PSID:	DB
SCLK1:	04408995:00:0	SCLK2:	04409002:88:0
SCET1:	98-088/05:00:18.400	SCET2:	98-088/05:08:22.400
TARGET:	IO	PARTITION:	1

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

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

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

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

14ENICERAF01

OAPEL: 14ENICERAF01 ALIAS: 14ENICERAF01
EXT: A PSID: DC
SCLK1: 04409424:18:0 SCLK2: 04409426:20:0
SCET1: 98-088/12:14:17.066 SCET2: 98-088/12:16:19.733
TARGET: EUROPA 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

14ENSUCOMP01

OAPEL:	14ENSUCOMP01	ALIAS:	14ENSUCOMP01
EXT:	A	PSID:	DD
SCLK1:	04409501:00:0	SCLK2:	04409516:26:0
SCET1:	98-088/13:31:55.733	SCET2:	98-088/13:47:23.066
TARGET:	EUROPA	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

14ENSUCOMP03

```
OAPEL:  14ENSUCOMP03              ALIAS:  14ENSUCOMP03
EXT:    A                         PSID:   DF
SCLK1:  04409568:84:0             SCLK2:  04409571:84:0
SCET1:    98-088/14:40:36.400     SCET2:    98-088/14:43:38.400
TARGET: EUROPA                    PARTITION: 1

MODE:      4                      GAIN:      2
CHOP:      1                      GRAT_OFF:  4
PTAB_A:    1 0 0 0 124            PTAB_B:    1 0 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:    0426360001            04  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

14ENEUR15H01

OAPEL:	14ENEUR15H01	ALIAS:	14ENEUR15H01
EXT:	A	PSID:	DI
SCLK1:	04410384:00:0	SCLK2:	04410388:63:0
SCET1:	98-089/04:24:44.333	SCET2:	98-089/04:29:29.666
TARGET:	EUROPA	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	168	TLMFMT:	LPU

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

WETGID: 0326168001 03 26 168 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BD00	1,1011,1101,0000,0000
1	1BD00	1,1011,1101,0000,0000
2	1BD00	1,1011,1101,0000,0000
3	1BD00	1,1011,1101,0000,0000
4	1BD00	1,1011,1101,0000,0000
5	1BD00	1,1011,1101,0000,0000
6	1BD00	1,1011,1101,0000,0000
7	1BD00	1,1011,1101,0000,0000
8	1BD00	1,1011,1101,0000,0000
9	1BD00	1,1011,1101,0000,0000
10	1BD00	1,1011,1101,0000,0000
11	1BD00	1,1011,1101,0000,0000
12	1BD00	1,1011,1101,0000,0000
13	1BD00	1,1011,1101,0000,0000
14	1BD00	1,1011,1101,0000,0000
15	1BD00	1,1011,1101,0000,0000
16	1BD00	1,1011,1101,0000,0000
17	1BD00	1,1011,1101,0000,0000
18	1BD00	1,1011,1101,0000,0000
19	1BD00	1,1011,1101,0000,0000
20	1BD00	1,1011,1101,0000,0000
21	1BD00	1,1011,1101,0000,0000
22	1BD00	1,1011,1101,0000,0000
23	1BD00	1,1011,1101,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14ENEUR15H01

OAPEL:	14ENEUR15H01	ALIAS:	14ENEUR15H01
EXT:	B	PSID:	DI
SCLK1:	04410390:34:0	SCLK2:	04410395:03:0
SCET1:	98-089/04:31:11.000	SCET2:	98-089/04:35:54.333
TARGET:	EUROPA	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	240	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: 0326240001 03 26 240 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	005FF	0,0000,0101,1111,1111
1	005FF	0,0000,0101,1111,1111
2	005FF	0,0000,0101,1111,1111
3	005FF	0,0000,0101,1111,1111
4	005FF	0,0000,0101,1111,1111
5	005FF	0,0000,0101,1111,1111
6	005FF	0,0000,0101,1111,1111
7	005FF	0,0000,0101,1111,1111
8	005FF	0,0000,0101,1111,1111
9	005FF	0,0000,0101,1111,1111
10	005FF	0,0000,0101,1111,1111
11	005FF	0,0000,0101,1111,1111
12	005FF	0,0000,0101,1111,1111
13	005FF	0,0000,0101,1111,1111
14	005FF	0,0000,0101,1111,1111
15	005FF	0,0000,0101,1111,1111
16	005FF	0,0000,0101,1111,1111
17	005FF	0,0000,0101,1111,1111
18	005FF	0,0000,0101,1111,1111
19	005FF	0,0000,0101,1111,1111
20	005FF	0,0000,0101,1111,1111
21	005FF	0,0000,0101,1111,1111
22	005FF	0,0000,0101,1111,1111
23	005FF	0,0000,0101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14ENEUR17H01

OAPEL:	14ENEUR17H01	ALIAS:	14ENEUR17H01
EXT:	B	PSID:	DJ
SCLK1:	04410568:34:0	SCLK2:	04410572:30:0
SCET1:	98-089/07:31:09.666	SCET2:	98-089/07:35:10.333
TARGET:	EUROPA	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	240	TLMFMT:	LPU

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

WETGID: 0326240001 03 26 240 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	005FF	0,0000,0101,1111,1111
1	005FF	0,0000,0101,1111,1111
2	005FF	0,0000,0101,1111,1111
3	005FF	0,0000,0101,1111,1111
4	005FF	0,0000,0101,1111,1111
5	005FF	0,0000,0101,1111,1111
6	005FF	0,0000,0101,1111,1111
7	005FF	0,0000,0101,1111,1111
8	005FF	0,0000,0101,1111,1111
9	005FF	0,0000,0101,1111,1111
10	005FF	0,0000,0101,1111,1111
11	005FF	0,0000,0101,1111,1111
12	005FF	0,0000,0101,1111,1111
13	005FF	0,0000,0101,1111,1111
14	005FF	0,0000,0101,1111,1111
15	005FF	0,0000,0101,1111,1111
16	005FF	0,0000,0101,1111,1111
17	005FF	0,0000,0101,1111,1111
18	005FF	0,0000,0101,1111,1111
19	005FF	0,0000,0101,1111,1111
20	005FF	0,0000,0101,1111,1111
21	005FF	0,0000,0101,1111,1111
22	005FF	0,0000,0101,1111,1111
23	005FF	0,0000,0101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14ENEUR20H01

OAPEL:	14ENEUR20H01	ALIAS:	14ENEUR20H01
EXT:	B	PSID:	DK
SCLK1:	04410686:44:0	SCLK2:	04410689:65:0
SCET1:	98-089/09:30:35.000	SCET2:	98-089/09:33:51.666
TARGET:	EUROPA	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	240	TLMFMT:	LPU

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

WETGID: 0326240001 03 26 240 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	005FF	0,0000,0101,1111,1111
1	005FF	0,0000,0101,1111,1111
2	005FF	0,0000,0101,1111,1111
3	005FF	0,0000,0101,1111,1111
4	005FF	0,0000,0101,1111,1111
5	005FF	0,0000,0101,1111,1111
6	005FF	0,0000,0101,1111,1111
7	005FF	0,0000,0101,1111,1111
8	005FF	0,0000,0101,1111,1111
9	005FF	0,0000,0101,1111,1111
10	005FF	0,0000,0101,1111,1111
11	005FF	0,0000,0101,1111,1111
12	005FF	0,0000,0101,1111,1111
13	005FF	0,0000,0101,1111,1111
14	005FF	0,0000,0101,1111,1111
15	005FF	0,0000,0101,1111,1111
16	005FF	0,0000,0101,1111,1111
17	005FF	0,0000,0101,1111,1111
18	005FF	0,0000,0101,1111,1111
19	005FF	0,0000,0101,1111,1111
20	005FF	0,0000,0101,1111,1111
21	005FF	0,0000,0101,1111,1111
22	005FF	0,0000,0101,1111,1111
23	005FF	0,0000,0101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14NNPCTRLT01

OAPEL:	14NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	R	PSID:	FB
SCLK1:	04410953:00:0	SCLK2:	04410954:12:0
SCET1:	1998-089/14:00:03.666	SCET2:	1998-089/14:01:12.333
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

14NNPCTRLT01

OAPEL:	14NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	S	PSID:	FB
SCLK1:	04410959:00:0	SCLK2:	04410968:12:0
SCET1:	1998-089/14:06:07.666	SCET2:	1998-089/14:15:21.666
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

14JNJUPRTS02

OAPEL:	14JNJUPRTS02	ALIAS:	14JNJUPRTS02
EXT:	R	PSID:	DG
SCLK1:	04411107:00:0	SCLK2:	04411117:90:0
SCET1:	1998-089/16:35:46.333	SCET2:	1998-089/16:46:53.000
TARGET:	JUPITER	PARTITION:	1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

14JNJUPRTS02

OAPEL:	14JNJUPRTS02	ALIAS:	14JNJUPRTS02
EXT:	S	PSID:	DG
SCLK1:	04411118:00:0	SCLK2:	04411126:12:0
SCET1:	1998-089/16:46:53.666	SCET2:	1998-089/16:55:07.000
TARGET:	JUPITER	PARTITION:	1

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

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

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

14CNGLOBAL01

OAPEL:	14CNGLOBAL01	ALIAS:	14CNGLOBAL01
EXT:	A	PSID:	DH
SCLK1:	04411613:00:0	SCLK2:	04411627:27:0
SCET1:	98-090/01:07:23.666	SCET2:	98-090/01:21:51.666
TARGET:	CALLISTO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	15	TLMFMT:	LPU

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

WETGID: 0326015001 03 26 015 001
WTGRP_SIZ: 26

EDIT TABLE

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

14CNGLOBAL01

```
OAPEL:  14CNGLOBAL01            ALIAS:  14CNGLOBAL01
EXT:    B                       PSID:   DH
SCLK1:  04411627:39:0           SCLK2:  04411635:53:0
SCET1:    98-090/01:21:59.000   SCET2:    98-090/01:30:14.333
TARGET: CALLISTO                PARTITION: 1

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

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

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

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

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000F0	0,0000,0000,1111,0000
1	1BDFF	1,1011,1101,1111,1111
2	000F0	0,0000,0000,1111,0000
3	1BDFF	1,1011,1101,1111,1111
4	000F0	0,0000,0000,1111,0000
5	1BDFF	1,1011,1101,1111,1111
6	000F0	0,0000,0000,1111,0000
7	1BDFF	1,1011,1101,1111,1111
8	000F0	0,0000,0000,1111,0000
9	1BDFF	1,1011,1101,1111,1111
10	000F0	0,0000,0000,1111,0000
11	1BDFF	1,1011,1101,1111,1111
12	000F0	0,0000,0000,1111,0000
13	1BDFF	1,1011,1101,1111,1111
14	000F0	0,0000,0000,1111,0000
15	1BDFF	1,1011,1101,1111,1111
16	000F0	0,0000,0000,1111,0000
17	1BDFF	1,1011,1101,1111,1111
18	000F0	0,0000,0000,1111,0000
19	1BDFF	1,1011,1101,1111,1111
20	000F0	0,0000,0000,1111,0000
21	1BDFF	1,1011,1101,1111,1111
22	000F0	0,0000,0000,1111,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14CNGLOBAL01

OAPEL:	14CNGLOBAL01	ALIAS:	14CNGLOBAL01
EXT:	C	PSID:	DH
SCLK1:	04411635:64:0	SCLK2:	04411649:66:0
SCET1:	98-090/01:30:21.666	SCET2:	98-090/01:44:32.333
TARGET:	CALLISTO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	15	TLMFMT:	LPU

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

WETGID: 0326015001 03 26 015 001
WTGRP_SIZ: 26

EDIT TABLE

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

14CNGLOBAL01

OAPEL:	14CNGLOBAL01	ALIAS:	14CNGLOBAL01
EXT:	D	PSID:	DH
SCLK1:	04411616:26:0	SCLK2:	04411621:72:0
SCET1:	98-090/01:10:43.000	SCET2:	98-090/01:16:17.000
TARGET:	CALLISTO	PARTITION:	1

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

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

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000F0	0,0000,0000,1111,0000
1	1BDFF	1,1011,1101,1111,1111
2	000F0	0,0000,0000,1111,0000
3	1BDFF	1,1011,1101,1111,1111
4	000F0	0,0000,0000,1111,0000
5	1BDFF	1,1011,1101,1111,1111
6	000F0	0,0000,0000,1111,0000
7	1BDFF	1,1011,1101,1111,1111
8	000F0	0,0000,0000,1111,0000
9	1BDFF	1,1011,1101,1111,1111
10	000F0	0,0000,0000,1111,0000
11	1BDFF	1,1011,1101,1111,1111
12	000F0	0,0000,0000,1111,0000
13	1BDFF	1,1011,1101,1111,1111
14	000F0	0,0000,0000,1111,0000
15	1BDFF	1,1011,1101,1111,1111
16	000F0	0,0000,0000,1111,0000
17	1BDFF	1,1011,1101,1111,1111
18	000F0	0,0000,0000,1111,0000
19	1BDFF	1,1011,1101,1111,1111
20	000F0	0,0000,0000,1111,0000
21	1BDFF	1,1011,1101,1111,1111
22	000F0	0,0000,0000,1111,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14CNGLOBAL01

OAPEL:	14CNGLOBAL01	ALIAS:	14CNGLOBAL01
EXT:	E	PSID:	DH
SCLK1:	04411641:00:0	SCLK2:	04411646:45:0
SCET1:	98-090/01:35:42.666	SCET2:	98-090/01:41:16.000
TARGET:	CALLISTO	PARTITION:	1
MODE:	3	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	228	TLMFMT:	LPU

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

WETGID: 0326228001 03 26 228 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000F0	0,0000,0000,1111,0000
1	1BDFF	1,1011,1101,1111,1111
2	000F0	0,0000,0000,1111,0000
3	1BDFF	1,1011,1101,1111,1111
4	000F0	0,0000,0000,1111,0000
5	1BDFF	1,1011,1101,1111,1111
6	000F0	0,0000,0000,1111,0000
7	1BDFF	1,1011,1101,1111,1111
8	000F0	0,0000,0000,1111,0000
9	1BDFF	1,1011,1101,1111,1111
10	000F0	0,0000,0000,1111,0000
11	1BDFF	1,1011,1101,1111,1111
12	000F0	0,0000,0000,1111,0000
13	1BDFF	1,1011,1101,1111,1111
14	000F0	0,0000,0000,1111,0000
15	1BDFF	1,1011,1101,1111,1111
16	000F0	0,0000,0000,1111,0000
17	1BDFF	1,1011,1101,1111,1111
18	000F0	0,0000,0000,1111,0000
19	1BDFF	1,1011,1101,1111,1111
20	000F0	0,0000,0000,1111,0000
21	1BDFF	1,1011,1101,1111,1111
22	000F0	0,0000,0000,1111,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

14NNRCTRLT01

OAPEL:	14NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	R	PSID:	XU
SCLK1:	04472583:00:0	SCLK2:	04472583:12:0
SCET1:	1998-132/20:34:48.133	SCET2:	1998-132/20:34:56.133
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

14NNRCTRLT01

OAPEL:	14NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	S	PSID:	XU
SCLK1:	04472589:00:0	SCLK2:	04472590:12:0
SCET1:	1998-132/20:40:52.133	SCET2:	1998-132/20:42:00.800
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

14NNRCTRLT01

OAPEL:	14NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	T	PSID:	XU
SCLK1:	04472595:00:0	SCLK2:	04472595:12:0
SCET1:	1998-132/20:46:46.133	SCET2:	1998-132/20:47:04.133
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

14NNOPCAL_01

OAPEL:	14NNOPCAL_01	ALIAS:	LSNNOPCAL_01
EXT:	R	PSID:	DC
SCLK1:	04472599:00:0	SCLK2:	04472601:12:0
SCET1:	1998-132/20:50:58.800	SCET2:	1998-132/20:53:08.133
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0302048000 03 02 048 000
WTGRP_SIZ: 2

EDIT TABLE

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

NIMS E14 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E14 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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14JNJUPRTS0114JNJUPRTS01RDA04408376:00:004408385:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 408RT 1998-087/18:34:25.8001998-087/18:43:39.800
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

14INHRSPEC0114INHRSPEC01ADB04408987:00:004408994:83:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 324MPW  98-088/04:52:13.066  98-088/05:00:13.733
           0300300300000300290280280290280320340310310320300290326324001260110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BD
FF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF01000000100000
14INHRSPEC0114INHRSPEC01BDB04408987:00:004408994:83:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  36MPW  98-088/04:52:13.066  98-088/05:00:13.733
           03003003000003002902802802902803203403103103203002903260360012601 0B0000100000010B0000100000010B0000100000010B0000100000010B00001000
00010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B000010000001000000100000
14INHRSPEC0114INHRSPEC01DDB04408987:00:004408994:83:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 360MPW  98-088/04:52:13.066  98-088/05:00:13.733
           0300300300000300290280280290280320340310310320300290326360001260 11BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14INHRSPEC0114INHRSPEC01CDB04408995:00:004409002:88:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 360MPW  98-088/05:00:18.400  98-088/05:08:22.400
           030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENICERAF0114ENICERAF01ADC04409424:18:004409426:20:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-088/12:14:17.066  98-088/12:16:19.733
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENSUCOMP0114ENSUCOMP01ADD04409501:00:004409516:26:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-088/13:31:55.733  98-088/13:47:23.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENSUCOMP0314ENSUCOMP03ADF04409568:84:004409571:84:01         EUROPA   4214 1 0 0 0 124 1 0 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-088/14:40:36.400  98-088/14:43:38.400
           000000000000000000000000000000000000000000000000000042636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENEUR15H0114ENEUR15H01ADI04410384:00:004410388:63:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 168LPU  98-089/04:24:44.333  98-089/04:29:29.666
           000000000000000000000000000000000000000000000000000032616800126011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD
00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD0001000000100000
14ENEUR15H0114ENEUR15H01BDI04410390:34:004410395:03:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 240MPW  98-089/04:31:11.000  98-089/04:35:54.333
           00000000000000000000000000000000000000000000000000003262400012601005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
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14JNJUPRTS0114JNJUPRTS01RDA04408376:00:004408385:12:01         JUPITER  3214 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  408RT 1998-087/18:34:25.8001998-087/18:43:39.800
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

14INHRSPEC0114INHRSPEC01ADB04408987:00:004408994:83:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  324MPW  98-088/04:52:13.066  98-088/05:00:13.733
           0300300300000300290280280290280320340310310320300290326324001260110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BD
FF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF0110DFF011BDFF01000000100000
14INHRSPEC0114INHRSPEC01BDB04408987:00:004408994:83:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                   36MPW  98-088/04:52:13.066  98-088/05:00:13.733
           03003003000003002902802802902803203403103103203002903260360012601 0B0000100000010B0000100000010B0000100000010B00001000
00010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B0000100000010B000010000001000000100000
14INHRSPEC0114INHRSPEC01DDB04408987:00:004408994:83:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  360MPW  98-088/04:52:13.066  98-088/05:00:13.733
           030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14INHRSPEC0114INHRSPEC01CDB04408995:00:004409002:88:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                  360MPW  98-088/05:00:18.400  98-088/05:08:22.400
           030030030000030029028028029028032034031031032030029032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENICERAF0114ENICERAF01ADC04409424:18:004409426:20:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-088/12:14:17.066  98-088/12:16:19.733
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENSUCOMP0114ENSUCOMP01ADD04409501:00:004409516:26:01         EUROPA   3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-088/13:31:55.733  98-088/13:47:23.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENSUCOMP0314ENSUCOMP03ADF04409568:84:004409571:84:01         EUROPA   4214 1 0 0 0 124 1 0 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-088/14:40:36.400  98-088/14:43:38.400
           000000000000000000000000000000000000000000000000000042636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
14ENEUR15H0114ENEUR15H01ADI04410384:00:004410388:63:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  168LPU  98-089/04:24:44.333  98-089/04:29:29.666
           000000000000000000000000000000000000000000000000000032616800126011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD
00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD0001000000100000
14ENEUR15H0114ENEUR15H01BDI04410390:34:004410395:03:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  240MPW  98-089/04:31:11.000  98-089/04:35:54.333
           00000000000000000000000000000000000000000000000000003262400012601005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
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14CNGLOBAL0114CNGLOBAL01EDH04411641:00:004411646:45:01         CALLISTO 3414 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 228LPU  98-090/01:35:42.666  98-090/01:41:16.000
           03003003000003002902802802902803203403103103203002903262280012601000F0011BDFF01000F0011BDFF01000F0011BDFF01000F0011BD
FF01000F0011BDFF01000F0011BDFF01000F0011BDFF01000F0011BDFF01000F0011BDFF01000F0011BDFF01000F0011BDFF01000F0011BDFF01000000100000
14NNRCTRLT01LSNNRCTRTA01RXU04472583:00:004472583:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-132/20:34:48.1331998-132/20:34:56.133
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

14NNRCTRLT01LSNNRCTRTA01SXU04472589:00:004472590:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-132/20:40:52.1331998-132/20:42:00.800
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

14NNRCTRLT01LSNNRCTRTA01TXU04472595:00:004472595:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-132/20:46:46.1331998-132/20:47:04.133
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

14NNOPCAL_01LSNNOPCAL_01RDC04472599:00:004472601:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                 048RT 1998-132/20:50:58.8001998-132/20:53:08.133
           0000000000000000000000000000000000000000000000000000302048000 224180000200000

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