Chapter 4 - NIMS Observation Summaries

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Introduction to Chapter 4

This chapter summarizes the NIMS E15 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 E15 Sequence. The information in this summary is derived from the E15 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 E15 data. It is also derived from the E15 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

			Sequence:	E15A-AR		Created: 09/04/98	Begin: 98-150/21:00:00 Finish: 98-154/10:00:00				
Line	**YR**	**DOY**	**SCET - GMT**	**PSID**	**Command**	**Parameters**	**Description**	**GCM**	**GO**	**GS**	**RIM MF I**
1	98	150	20:59:59.866		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,498,243:09:0
2	**98**	**150**	**21:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,498,243:09:2**
3	**98**	**150**	**21:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,498,243:09:2**
4	**98**	**150**	**21:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,243:09:2**
5	**98**	**150**	**21:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,243:09:2**
6	**98**	**150**	**21:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,243:09:2**
7	**98**	**150**	**21:00:00.000**	**20A3FF**	**40T2**	**Initial Condition**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,498,243:09:2**
8	**98**	**150**	**21:00:00.000**	**20A3FE**	**40T1P**	**Initial Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,498,243:09:2**
9	**98**	**150**	**21:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,243:09:2**
10	**98**	**150**	**21:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,243:09:2**
11	**98**	**150**	**21:00:53.200**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4O0**	**4**	**0**	**4,498,243:89:0**
12	98	150	21:00:53.866	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	4,498,243:90:0
13	98	150	21:00:54.533	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	4,498,244:00:0
14	**98**	**150**	**21:00:54.533**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**4O0**	**4**	**0**	**4,498,244:00:0**
15	98	150	21:00:59.866	20OA6A	6HICON			4O0	4	0	4,498,244:08:0
16	98	150	21:02:13.200	488AA6A	6TMSED	NORM,DL6	Sci, Eng, and D/L Chan	4O0	4	0	4,498,245:27:0
17	98	150	21:06:59.866	41AA99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	4,498,250:02:0
18	**98**	**150**	**21:07:03.866**	**41AA3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,250:08:0**
19	**98**	**150**	**21:07:13.866**	**41AA3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,498,250:23:0**
20	**98**	**150**	**21:07:23.866**	**41AA3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,498,250:38:0**
21	**98**	**150**	**21:07:33.866**	**41AA3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**4,498,250:53:0**
22	98	150	21:13:52.533	175KA422A6A	6DMSC	R28,1	DMS Control	4O0	4	0	4,498,256:75:0
23	98	150	21:13:52.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,498,256:75:0
24	98	150	21:13:59.200		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,498,256:85:0
25	98	150	21:14:02.533	175KA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4O0	4	0	4,498,256:90:0
26	98	150	21:14:03.200		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 203.62 +/-	4O0	4	0	4,498,257:00:0
27	98	150	21:14:03.200		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC * 203.62 +/-	4O0	4	0	4,498,257:00:0
28	98	150	21:35:59.866	444UA443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,498,278:64:0
29	98	150	21:59:32.533	165CA4A	7SCAN	NORM,268.813,-25	Check S/P Position	4O0	4	0	4,498,301:90:0
30	98	150	22:03:34.533	165CA4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,305:89:0
31	98	150	22:49:02.533	165CA4C	7VECT		Inert vect update UTC	4O0	4	0	4,498,350:86:0
32	98	150	23:03:06.533		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *5954.60 +/-	4O0	4	0	4,498,364:78:0
33	98	150	23:03:06.533	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,364:78:0
34	98	150	23:03:07.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5954.90 +/-	4O0	4	0	4,498,364:79:8
35	98	150	23:14:22.533	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	4O0	4	0	4,498,376:00:0
36	98	150	23:14:22.533		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5954.90 +/-	4O0	4	0	4,498,376:00:0
37	98	150	23:40:05.200	488AA6B	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	4O0	4	0	4,498,401:39:0
38	98	150	23:54:48.533	165IA4A	7SCAN	NORM,265.776997,	Check S/P Position	4O0	4	0	4,498,415:90:0
39	98	150	23:57:45.200	118IA	**SMOS**	GS		4O0	4	0	4,498,418:82:0
40	98	150	23:57:49.866	165IA4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,418:89:0
41	98	150	23:57:55.200	118IA110A111A4A	7STRP	-0.00275,0.0,92,	Slew =,3.01	4O0	4	0	4,498,419:06:0
42	98	150	23:58:43.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5954.90 +/-	4O0	4	0	4,498,419:78:0
43	98	150	23:58:43.200	175JE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	4,498,419:78:0
44	98	150	23:58:44.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5955.02 +/-	4O0	4	0	4,498,419:80:1
45	98	150	23:58:49.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5956.25 +/-	4O0	4	0	4,498,419:88:0
46	98	150	23:58:51.066		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5956.31 +/-	4O0	4	0	4,498,419:89:8
47	98	150	23:58:54.533	175JE176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	4,498,420:04:0
48	98	150	23:58:55.066		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5950.01 +/-	4O0	4	0	4,498,420:04:8
49	98	150	23:58:55.066		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5950.01 +/-	4O0	4	0	4,498,420:04:8
50	98	150	23:58:56.533	118IA11A	**SMOS**	GE		4O0	4	0	4,498,420:07:0
51	98	150	23:59:22.533	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,420:46:0
52	98	150	23:59:22.533		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5853.45 +/-	4O0	4	0	4,498,420:46:0
53	98	150	23:59:23.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5852.45 +/-	4O0	4	0	4,498,420:47:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	151	00:14:01.200	165IB4A	7SCAN	NORM,266.612999,	Check S/P Position	4O0	4	0	4,498,434	90:0
55	98	151	00:17:01.200	175IA422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4O0	4	0	4,498,437	87:0
56	98	151	00:17:01.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5852.45 +/-	4O0	4	0	4,498,437	87:0
57	98	151	00:17:02.533	165IB4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,437	89:0
58	98	151	00:17:02.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5852.57 +/-	4O0	4	0	4,498,437	89:1
59	98	151	00:17:07.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5853.80 +/-	4O0	4	0	4,498,438	06:0
60	98	151	00:17:09.066		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5853.86 +/-	4O0	4	0	4,498,438	07:8
61	98	151	00:17:13.866	175IA176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	4,498,438	15:0
62	98	151	00:17:14.333		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5787.86 +/-	4O0	4	0	4,498,438	15:7
63	98	151	00:17:14.333		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5787.86 +/-	4O0	4	0	4,498,438	15:7
64	98	151	00:17:17.866		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5700.91 +/-	4O0	4	0	4,498,438	21:0
65	98	151	00:17:17.866	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,438	21:0
66	98	151	00:17:20.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5689.41 +/-	4O0	4	0	4,498,438	25:1
67	98	151	00:47:23.200	165IM4A	7SCAN	NORM,268.302998,	Check S/P Position	4O0	4	0	4,498,467	90:0
68	98	151	00:50:24.533	165IM4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,470	89:0
69	98	151	00:50:47.866	175IB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	4,498,471	33:0
70	98	151	00:50:47.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5689.41 +/-	4O0	4	0	4,498,471	33:0
71	98	151	00:50:49.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5689.53 +/-	4O0	4	0	4,498,471	35:1
72	98	151	00:50:54.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5690.77 +/-	4O0	4	0	4,498,471	43:0
73	98	151	00:50:55.733		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5690.83 +/-	4O0	4	0	4,498,471	44:8
74	98	151	00:50:59.200	175IB176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	4,498,471	50:0
75	98	151	00:50:59.733		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5684.53 +/-	4O0	4	0	4,498,471	50:8
76	98	151	00:50:59.733		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5684.53 +/-	4O0	4	0	4,498,471	50:8
77	98	151	00:51:26.533	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,472	00:0
78	98	151	00:51:26.533		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5590.31 +/-	4O0	4	0	4,498,472	00:0
79	98	151	00:51:27.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5589.31 +/-	4O0	4	0	4,498,472	01:8
80	98	151	00:52:49.200	175IC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	4,498,473	33:0
81	98	151	00:52:49.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5589.31 +/-	4O0	4	0	4,498,473	33:0
82	98	151	00:52:50.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5589.43 +/-	4O0	4	0	4,498,473	35:1
83	98	151	00:52:55.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5590.66 +/-	4O0	4	0	4,498,473	43:0
84	98	151	00:52:57.066		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5590.72 +/-	4O0	4	0	4,498,473	44:8
85	98	151	00:53:00.533	175IC176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	4,498,473	50:0
86	98	151	00:53:01.066		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5584.42 +/-	4O0	4	0	4,498,473	50:8
87	98	151	00:53:01.066		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5584.42 +/-	4O0	4	0	4,498,473	50:8
88	98	151	00:53:27.866		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5490.20 +/-	4O0	4	0	4,498,474	00:0
89	98	151	00:53:27.866	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,474	00:0
90	98	151	00:53:29.066		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5489.20 +/-	4O0	4	0	4,498,474	01:8
91	98	151	00:54:50.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5489.20 +/-	4O0	4	0	4,498,475	33:0
92	98	151	00:54:50.533	175ID422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	4,498,475	33:0
93	98	151	00:54:51.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5489.32 +/-	4O0	4	0	4,498,475	35:1
94	98	151	00:54:57.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5490.56 +/-	4O0	4	0	4,498,475	43:0
95	98	151	00:54:58.400		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5490.62 +/-	4O0	4	0	4,498,475	44:8
96	98	151	00:55:01.866	175ID176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	4,498,475	50:0
97	98	151	00:55:02.400		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5484.32 +/-	4O0	4	0	4,498,475	50:8
98	98	151	00:55:02.400		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5484.32 +/-	4O0	4	0	4,498,475	50:8
99	98	151	00:55:29.200		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5390.10 +/-	4O0	4	0	4,498,476	00:0
100	98	151	00:55:29.200	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,476	00:0
101	98	151	00:55:30.400		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5389.10 +/-	4O0	4	0	4,498,476	01:8
102	98	151	00:56:51.866	175IE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4O0	4	0	4,498,477	33:0
103	98	151	00:56:51.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5389.10 +/-	4O0	4	0	4,498,477	33:0
104	98	151	00:56:53.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5389.22 +/-	4O0	4	0	4,498,477	35:1
105	98	151	00:56:58.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5390.45 +/-	4O0	4	0	4,498,477	43:0
106	98	151	00:56:59.733		DMS:	: *RUNUP	R115, TRACK *2, *REV, TIC *5390.51 +/-	4O0	4	0	4,498,477	44:8
107	98	151	00:57:03.200	175IE176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4O0	4	0	4,498,477	50:0
108	98	151	00:57:03.733		DMS:	**: *RECORD**	R115, TRACK 2, REV, TIC *5384.21 +/-	4O0	4	0	4,498,477	50:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	98	151	00:57:03.733		DMS:	: *AT_SPD	R115, TRACK 2, REV, TIC 5384.21 +/-	4O0	4	0	4,498,477:50:8
110	98	151	00:57:30.533		DMS:	**: *RUNDOWN**	R115, TRACK 2, REV, TIC *5289.99 +/-	4O0	4	0	4,498,478:00:0
111	98	151	00:57:30.533	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,478:00:0
112	98	151	00:57:31.733		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5288.99 +/-	4O0	4	0	4,498,478:01:8
113	98	151	00:58:37.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5288.99 +/-	4O0	4	0	4,498,479:09:0
114	98	151	00:58:37.200	175IF422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	4O0	4	0	4,498,479:09:0
115	98	151	00:58:38.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5289.11 +/-	4O0	4	0	4,498,479:11:1
116	98	151	00:58:43.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5290.35 +/-	4O0	4	0	4,498,479:19:0
117	98	151	00:58:45.066		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *5290.41 +/-	4O0	4	0	4,498,479:20:8
118	98	151	00:58:49.866	175IF176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4O0	4	0	4,498,479:28:0
119	98	151	00:58:50.333		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 5224.41 +/- 1	4O0	4	0	4,498,479:28:7
120	98	151	00:58:50.333		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *5224.41 +/-	4O0	4	0	4,498,479:28:7
121	98	151	00:58:53.866		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC *5137.45 +/- 1	4O0	4	0	4,498,479:34:0
122	98	151	00:58:53.866	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	4,498,479:34:0
123	98	151	00:58:56.600		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5125.95 +/- 1	4O0	4	0	4,498,479:38:1
124	98	151	01:05:35.200	165CB4A	7SCAN	NORM,271.177998,	Check S/P Position	4O0	4	0	4,498,485:90:0
125	98	151	01:09:37.200	165CB4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,489:89:0
126	98	151	01:09:41.200	488AA6C	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	4,498,490:04:0
127	98	151	01:38:57.200	165CG4A	7SCAN	NORM,271.889999,	Check S/P Position	4O0	4	0	4,498,518:90:0
128	98	151	01:39:33.200	488AA6D	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	4O0	4	0	4,498,519:53:0
129	98	151	01:39:57.200	165CG4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,519:89:0
130	98	151	02:09:17.200	165CH4A	7SCAN	NORM,272.579998,	Check S/P Position	4O0	4	0	4,498,548:90:0
131	98	151	02:10:17.200	165CH4B	7VECT		Inert vect update UTC	4O0	4	0	4,498,549:89:0
132	98	151	02:13:41.200	488AA6E	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4O0	4	0	4,498,553:31:0
133	**98**	**151**	**02:43:51.749**	**15NNJUPRTS01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
134	98	151	02:48:41.200	176DA6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4O0	4	0	4,498,587:87:0
135	**98**	**151**	**02:49:48.533**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**4,498,589:06:0**
136	**98**	**151**	**02:49:49.866**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**4,498,589:08:0**
137	**98**	**151**	**02:49:51.200**	**20DA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**4,498,589:10:0**
138	**98**	**151**	**02:50:01.200**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**4,498,589:25:0**
139	**98**	**151**	**02:50:11.200**	**20DA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,498,589:40:0**
140	**98**	**151**	**02:50:37.866**	**20DA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,498,589:80:0**
141	**98**	**151**	**02:51:00.533**	**20DA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,498,590:23:0**
142	**98**	**151**	**02:53:58.416**	**15NNJUPRTS01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
143	**98**	**151**	**02:53:58.416**	**15JNJUPRTS01***		**-----START------**		**2R0**	**4**	**0**	**: :**
144	98	151	02:54:47.200	165DA4A	**7SCAN**	**NORM,254.891998,**	**Check S/P Position**	2R0	4	0	4,498,593:90:0
145	98	151	02:56:44.533	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	2R0	4	0	4,498,595:84:0
146	**98**	**151**	**02:56:44.533**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,498,595:84:0**
147	**98**	**151**	**02:56:45.200**	**127DA4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,498,595:85:0**
148	98	151	02:56:53.200	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,498,596:06:0
149	**98**	**151**	**02:57:45.200**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,498,596:84:0**
150	98	151	02:57:45.200	125DA	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,498,596:84:0
151	**98**	**151**	**02:58:09.866**	**432DA6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,498,597:30:0**
152	98	151	02:58:41.200	117DA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,498,597:77:0
153	98	151	02:58:45.866	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,498,597:84:0
154	**98**	**151**	**02:58:45.866**	**125DA4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,498,597:84:0**
155	98	151	02:58:49.200	165DA4B	7VECT		Inert vect update UTC	4R3	4	0	4,498,597:89:0
156	98	151	02:58:50.533	117DA105A106A4A	**7STRP**	**-0.018102,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,498,598:00:0
157	**98**	**151**	**03:08:15.200**	**432DZ6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,498,607:28:0**
158	98	151	03:08:57.200	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,498,608:00:0
159	**98**	**151**	**03:09:08.416**	**15JNJUPRTS01***		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
160	98	151	03:09:33.200	488AB6A	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4R3	4	0	4,498,608:54:0
161	98	151	03:43:12.533	488AB6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R3	4	0	4,498,641:80:0
162	98	151	06:39:15.133	165CC4A	7SCAN	NORM,284.539997,	Check S/P Position	4R3	4	0	4,498,815:90:0
163	98	151	06:43:17.133	165CC4B	7VECT		Inert vect update UTC	4R3	4	0	4,498,819:89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	151	07:12:37.133	165CI4A	7SCAN	NORM,285.457996,	Check S/P Position	4R3	4	0	4,498,848:90:0	
165	98	151	07:13:37.133	165CI4B	7VECT		Inert vect update UTC	4R3	4	0	4,498,849:89:0	
166	98	151	07:42:57.133	165CJ4A	7SCAN	NORM,286.875999,	Check S/P Position	4R3	4	0	4,498,878:90:0	
167	98	151	07:43:57.133	165CJ4B	7VECT		Inert vect update UTC	4R3	4	0	4,498,879:89:0	
168	98	151	08:13:17.133	165CK4A	7SCAN	NORM,288.290997,	Check S/P Position	4R3	4	0	4,498,908:90:0	
169	98	151	08:14:17.133	165CK4B	7VECT		Inert vect update UTC	4R3	4	0	4,498,909:89:0	
170	98	151	08:44:37.800	165CD4A	7SCAN	NORM,274.404999,	Check S/P Position	4R3	4	0	4,498,939:90:0	
171	98	151	08:48:39.800	165CD4B	7VECT		Inert vect update UTC	4R3	4	0	4,498,943:89:0	
172	98	151	09:18:13.133	488AC6A	6TMSED	NORM,DL3	Sci, Eng, and D/L Chan	4R3	4	0	4,498,973:19:0	
173	98	151	09:28:53.133	488AC6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R3	4	0	4,498,983:69:0	
174	98	151	09:45:18.466	192GA4A	**7CONE**	**17.4,0.0**	Check S/P Position	4R3	4	0	4,499,000:00:0	
175	98	151	09:49:21.133	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	4R3	4	0	4,499,004:00:0	
176	98	151	09:51:35.800	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,499,006:20:0	
177	98	151	09:51:37.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5125.95 +/- 1	4R3	4	0	4,499,006:23:0	
178	98	151	09:51:37.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R3	4	0	4,499,006:23:0	
179	98	151	09:51:39.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5126.07 +/- 1	4R3	4	0	4,499,006:25:1	
180	98	151	09:51:44.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5127.31 +/- 1	4R3	4	0	4,499,006:33:0	
181	98	151	09:51:45.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5127.37 +/- 1	4R3	4	0	4,499,006:34:8	
182	98	151	09:51:47.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5127.25 +/- 1	4R3	4	0	4,499,006:36:9	
183	98	151	09:51:47.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5127.08 +/- 1	4R3	4	0	4,499,006:38:0	
184	98	151	09:51:59.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,499,006:55:0	
185	98	151	09:51:59.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5124.42 +/- 1	4R3	4	0	4,499,006:55:0	
186	98	151	09:52:00.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5124.36 +/- 1	4R3	4	0	4,499,006:56:8	
187	98	151	10:29:29.133	488AC6C	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	4R3	4	0	4,499,043:63:0	
188	98	151	11:08:08.466	488AC6D	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	4R3	4	0	4,499,081:84:0	
189	98	151	12:13:55.800	165CE4A	7SCAN	NORM,293.114998,	Check S/P Position	4R3	4	0	4,499,146:90:0	
190	98	151	12:17:57.800	165CE4B	7VECT		Inert vect update UTC	4R3	4	0	4,499,150:89:0	
191	98	151	12:46:14.466	165CE4C	7VECT		Inert vect update UTC	4R3	4	0	4,499,178:86:0	
192	**98**	**151**	**13:04:40.594**	**15NNHRSPEC01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
193	**98**	**151**	**13:10:37.800**	**20DB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,499,203:06:0**	
194	**98**	**151**	**13:10:39.133**	**20DB5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,499,203:08:0**	
195	**98**	**151**	**13:10:40.466**	**20DB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,499,203:10:0**	
196	**98**	**151**	**13:10:50.466**	**20DB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,499,203:25:0**	
197	**98**	**151**	**13:11:00.466**	**20DB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,203:40:0**	
198	**98**	**151**	**13:11:27.133**	**20DB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,203:80:0**	
199	**98**	**151**	**13:11:49.800**	**20DB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,204:23:0**	
200	98	151	13:14:31.800	125DB	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,499,206:84:0	
201	**98**	**151**	**13:14:31.800**	**125DB4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,499,206:84:0**	
202	98	151	13:14:35.800	165DB4A	**7SCAN**	**NORM,293.670998,**	**Check S/P Position**	2R0	4	0	4,499,206:90:0	
203	**98**	**151**	**13:14:47.261**	**15NNHRSPEC01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
204	**98**	**151**	**13:14:47.261**	**15INHRSPEC01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
205	**98**	**151**	**13:15:32.466**	**125DB4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,499,207:84:0**	
206	98	151	13:15:32.466	125DB11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,499,207:84:0	
207	98	151	13:18:24.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5124.36 +/- 1	2R0	4	0	4,499,210:69:0	
208	98	151	13:18:24.466	175DB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	4,499,210:69:0	
209	98	151	13:18:25.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5124.48 +/- 1	2R0	4	0	4,499,210:71:1	
210	98	151	13:18:29.800	117DB	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	4,499,210:77:0	
211	98	151	13:18:31.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5125.72 +/- 1	2R0	4	0	4,499,210:79:0	
212	98	151	13:18:32.333		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *5125.78 +/- 1	2R0	4	0	4,499,210:80:8	
213	**98**	**151**	**13:18:34.466**	**127DB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,499,210:84:0**	
214	98	151	13:18:34.466	127DB	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,499,210:84:0	
215	**98**	**151**	**13:18:35.133**	**127DB4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,499,210:85:0**	
216	98	151	13:18:35.800	175DB176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,499,210:86:0	
217	98	151	13:18:36.333		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 5124.28 +/- 1	2R3	4	0	4,499,210:86:8	
218	98	151	13:18:36.333		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *5124.28 +/- 1	2R3	4	0	4,499,210:86:8	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	151	13:18:37.800	165DB4B	7VECT		Inert vect update UTC	2R3	4	0	4,499,210:89:0	
220	98	151	13:18:39.133	117DB105A106A4A	**7STRP**	**-0.0092,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	4,499,211:00:0	
221	**98**	**151**	**13:18:39.133**	**15INHRSPEC01-**	**NIMPBK**	**301EB**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
222	98	151	13:18:43.133	127DB11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,499,211:06:0	
223	98	151	13:23:49.133	117DB105A106A4B	**7STRP**	**0.00906,0.0,0,0,**	**Slew =12.01**	2R3	4	0	4,499,216:10:0	
224	98	151	13:23:57.133	117DB105A106A4C	**7STRP**	**-0.0092,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	4,499,216:22:0	
225	**98**	**151**	**13:25:16.466**	**15INHRSPEC01-**	**NIMPBK**	**301EB**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
226	**98**	**151**	**13:26:06.466**	**15INHRSPEC01-**	**DESELC**	**300EB**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
227	98	151	13:29:07.133	117DB105A106A4D	**7STRP**	**0.00906,0.0,0,0,**	**Slew =12.01**	2R3	4	0	4,499,221:32:0	
228	**98**	**151**	**13:29:15.133**	**15INHRSPEC01-**	**NIMPBK**	**301EQ**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
229	**98**	**151**	**13:29:15.133**	**15INHRSPEC01-**	**DESELC**	**300EB**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
230	98	151	13:29:15.133	117DB105A106A4E	**7STRP**	**-0.0092,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	4,499,221:44:0	
231	**98**	**151**	**13:34:25.133**	**15INHRSPEC01-**	**DESELC**	**300EQ**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
232	98	151	13:34:25.133	117DB105A106A4F	**7STRP**	**0.00906,0.0,0,0,**	**Slew =12.01**	2R3	4	0	4,499,226:54:0	
233	**98**	**151**	**13:34:33.133**	**15INHRSPEC01-**	**NIMPBK**	**301ED**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
234	98	151	13:34:33.133	117DB105A106A4G	**7STRP**	**-0.0092,0.0,0,0,**	**Slew =,0.03**	2R3	4	0	4,499,226:66:0	
235	**98**	**151**	**13:34:44.466**	**33A4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**	**2R4**	**4**	**0**	**4,499,226:83:0**	
236	**98**	**151**	**13:34:49.133**	**15INHRSPEC01-**	**DESELC**	**300ED**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
237	**98**	**151**	**13:34:49.800**	**15INHRSPEC01-**	**NIMPBK**	**301XD**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
238	**98**	**151**	**13:35:48.466**	**15INHRSPEC01-**	**NIMPBK**	**301ED**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
239	**98**	**151**	**13:35:50.466**	**15INHRSPEC01-**	**NIMPBK**	**301EB**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
240	**98**	**151**	**13:35:59.133**	**15INHRSPEC01-**	**DESELC**	**300XD**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
241	**98**	**151**	**13:36:06.466**	**15INHRSPEC01-**	**DESELC**	**300ED**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
242	**98**	**151**	**13:38:43.133**	**15INHRSPEC01-**	**NIMPBK**	**301EK**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
243	**98**	**151**	**13:38:52.466**	**15INHRSPEC01-**	**DESELC**	**300EB**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
244	**98**	**151**	**13:39:25.800**	**15INHRSPEC01-**	**NIMPBK**	**301EK**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
245	**98**	**151**	**13:39:43.133**	**15INHRSPEC01-**	**DESELC**	**300EK**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
246	**98**	**151**	**13:39:43.133**	**15INHRSPEC01-**	**DESELC**	**300EK**	**IO HIGH RES SURFACE MONITORING**	**2R4**	**4**	**0**	**: :**	
247	98	151	13:39:43.133	117DB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R4	4	0	4,499,231:76:0	
248	98	151	13:39:46.466		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *4007.95 +/- 1	2R4	4	0	4,499,231:81:0	
249	98	151	13:39:46.466	175DB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R4	4	0	4,499,231:81:0	
250	98	151	13:39:47.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *4007.65 +/- 1	2R4	4	0	4,499,231:82:8	
251	**98**	**151**	**13:41:04.594**	**15INHRSPEC01-**		**-----STOP-------**		**2R4**	**4**	**0**	**: :**	
252	98	151	14:14:15.133	165CF4A	7SCAN	NORM,273.129997,	Check S/P Position	2R4	4	0	4,499,265:90:0	
253	98	151	14:18:17.133	165CF4B	7VECT		Inert vect update UTC	2R4	4	0	4,499,269:89:0	
254	98	151	14:46:33.800	165CF4C	7VECT		Inert vect update UTC	2R4	4	0	4,499,297:86:0	
255	98	151	16:29:27.133	488AD6A	6TMSED	FILL,DL4	Sci, Eng, and D/L Chan	2R4	4	0	4,499,399:64:0	
256	98	151	17:08:06.466	488AD6B	6TMSED	NORM,DL4	Sci, Eng, and D/L Chan	2R4	4	0	4,499,437:85:0	
257	**98**	**151**	**17:23:31.261**	**15NNHRSPEC02-**		**-----START------**		**2R4**	**4**	**0**	**: :**	
258	**98**	**151**	**17:29:28.466**	**20DD5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R4**	**4**	**0**	**4,499,459:06:0**	
259	**98**	**151**	**17:29:29.800**	**20DD5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R4**	**4**	**0**	**4,499,459:08:0**	
260	**98**	**151**	**17:29:31.133**	**20DD6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R4**	**4**	**0**	**4,499,459:10:0**	
261	**98**	**151**	**17:29:41.133**	**20DD6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R4**	**4**	**0**	**4,499,459:25:0**	
262	**98**	**151**	**17:29:51.133**	**20DD5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,459:40:0**	
263	**98**	**151**	**17:30:17.800**	**20DD5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,459:80:0**	
264	**98**	**151**	**17:30:40.466**	**20DD4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,460:23:0**	
265	**98**	**151**	**17:33:22.466**	**125DD4A**	**37IST**	**0,2,0,OFF,0,1,0**	**Gain State 2**	**2R0**	**4**	**0**	**4,499,462:84:0**	
266	98	151	17:33:22.466	125DD	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,499,462:84:0	
267	98	151	17:33:26.466	165DD4A	**7SCAN**	**NORM,290.275997,**	**Check S/P Position**	2R0	4	0	4,499,462:90:0	
268	**98**	**151**	**17:33:37.927**	**15INHRSPEC02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
269	**98**	**151**	**17:33:37.927**	**15NNHRSPEC02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
270	**98**	**151**	**17:34:23.133**	**125DD4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2R0**	**4**	**0**	**4,499,463:84:0**	
271	98	151	17:34:23.133	125DD11A	NIMSINIT	GE	##### GROUP END INIT	2R0	4	0	4,499,463:84:0	
272	98	151	17:37:15.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4007.65 +/- 1	2R0	4	0	4,499,466:69:0	
273	98	151	17:37:15.133	175DD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	4,499,466:69:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	98	151	17:37:16.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4007.77 +/- 1	2R0	4	0	4,499,466:71:1	
275	98	151	17:37:20.466	117DD	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	4,499,466:77:0	
276	98	151	17:37:21.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4009.00 +/- 1	2R0	4	0	4,499,466:79:0	
277	98	151	17:37:23.000		DMS:	: *RUNUP	R28, TRACK *2, *REV, TIC *4009.06 +/- 1	2R0	4	0	4,499,466:80:8	
278	**98**	**151**	**17:37:25.133**	**127DD4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**4,499,466:84:0**	
279	98	151	17:37:25.133	127DD	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	4,499,466:84:0	
280	**98**	**151**	**17:37:25.800**	**127DD4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**4,499,466:85:0**	
281	98	151	17:37:26.466	175DD176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	4,499,466:86:0	
282	98	151	17:37:27.000		DMS:	: *AT_SPD	R28, TRACK 2, REV, TIC 4007.56 +/- 1	2R3	4	0	4,499,466:86:8	
283	98	151	17:37:27.000		DMS:	**: *RECORD**	R28, TRACK 2, REV, TIC *4007.56 +/- 1	2R3	4	0	4,499,466:86:8	
284	98	151	17:37:28.466	165DD4B	7VECT		Inert vect update UTC	2R3	4	0	4,499,466:89:0	
285	98	151	17:37:29.800	117DD105A106A4A	**7STRP**	**-0.012001,0.0,0,**	**Slew =,0.03**	2R3	4	0	4,499,467:00:0	
286	**98**	**151**	**17:37:29.800**	**15INHRSPEC02-**	**NIMPBK**	**301DD**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
287	98	151	17:37:33.800	127DD11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	4,499,467:06:0	
288	**98**	**151**	**17:44:05.133**	**15INHRSPEC02-**	**NIMPBK**	**301EX**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
289	98	151	17:44:13.800	117DD105A106A4B	**7STRP**	**0.012001,-0.005,**	**Slew =12.01**	2R3	4	0	4,499,473:60:0	
290	**98**	**151**	**17:44:17.133**	**15INHRSPEC02-**	**DESELC**	**300DD**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
291	98	151	17:44:21.133	117DD105A106A4C	**7STRP**	**-0.012001,0.0,0,**	**Slew =,0.03**	2R3	4	0	4,499,473:71:0	
292	**98**	**151**	**17:44:34.466**	**15INHRSPEC02-**	**NIMPBK**	**301ED**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
293	**98**	**151**	**17:44:45.133**	**15INHRSPEC02-**	**DESELC**	**300EX**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
294	**98**	**151**	**17:47:35.133**	**15INHRSPEC02-**	**NIMPBK**	**301EX**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
295	**98**	**151**	**17:49:35.133**	**15INHRSPEC02-**	**DESELC**	**300EX**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
296	**98**	**151**	**17:50:27.800**	**15INHRSPEC02-**	**NIMPBK**	**301EY**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
297	**98**	**151**	**17:50:39.800**	**15INHRSPEC02-**	**DESELC**	**300EY**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
298	**98**	**151**	**17:51:04.466**	**15INHRSPEC02-**	**DESELC**	**300ED**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
299	98	151	17:51:05.133	117DD105A106B4A	**7STRP**	**0.0104,0.0031,0,**	**Slew =12.01**	2R3	4	0	4,499,480:40:0	
300	98	151	17:51:12.466	117DD105A106B4B	**7STRP**	**-0.009,0.0,0,0,0**	**Slew =,0.03**	2R3	4	0	4,499,480:51:0	
301	**98**	**151**	**17:51:12.466**	**15INHRSPEC02-**	**NIMPBK**	**301EY**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
302	**98**	**151**	**17:52:11.800**	**15INHRSPEC02-**	**NIMPBK**	**301EX**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
303	**98**	**151**	**17:52:41.000**	**15INHRSPEC02-**	**DESELC**	**300EX**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
304	**98**	**151**	**17:54:04.466**	**15INHRSPEC02-**	**NIMPBK**	**301EY**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
305	**98**	**151**	**17:54:48.000**	**15INHRSPEC02-**	**DESELC**	**300EY**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
306	98	151	17:56:15.800	117DD11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,499,485:51:0	
307	**98**	**151**	**17:56:15.800**	**15INHRSPEC02-**	**DESELC**	**300EY**	**IO HIGH RES SURFACE MONITORING**	**2R3**	**4**	**0**	**: :**	
308	98	151	17:56:29.800	175DD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,485:72:0	
309	98	151	17:56:29.800		DMS:	**: *RUNDOWN**	R28, TRACK 2, REV, TIC *3003.15 +/- 1	2R3	4	0	4,499,485:72:0	
310	98	151	17:56:31.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *3002.85 +/- 1	2R3	4	0	4,499,485:73:8	
311	98	151	17:56:41.800	165GB4A	7SCAN	NORM,273.230999,	Check S/P Position	2R3	4	0	4,499,485:90:0	
312	98	151	17:56:42.466	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,499,486:00:0	
313	98	151	17:57:33.800	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,499,486:77:0	
314	98	151	17:57:41.800	165GB4B	7VECT		Inert vect update UTC	2R3	4	0	4,499,486:89:0	
315	98	151	17:57:43.133	117GB105A106A4A	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,487:00:0	
316	98	151	17:58:43.133	117GB105A106A4B	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,487:90:0	
317	98	151	17:58:52.466	117GB105A106A4C	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,488:13:0	
318	98	151	17:59:52.466	117GB105A106A4D	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,489:12:0	
319	**98**	**151**	**17:59:55.261**	**15INHRSPEC02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
320	98	151	18:00:01.800	117GB105A106A4E	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,489:26:0	
321	98	151	18:01:01.800	117GB105A106A4F	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,490:25:0	
322	98	151	18:01:11.133	117GB105A106A4G	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,490:39:0	
323	98	151	18:02:11.133	117GB105A106A4H	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,491:38:0	
324	98	151	18:02:20.466	117GB105A106A4I	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,491:52:0	
325	98	151	18:03:20.466	117GB105A106A4J	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,492:51:0	
326	98	151	18:03:29.800	117GB105A106A4K	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,492:65:0	
327	98	151	18:04:29.800	117GB105A106A4L	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,493:64:0	
328	98	151	18:04:39.133	117GB105A106A4M	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,493:78:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	98	151	18:05:39.133	117GB105A106A4N	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,494	77:0
330	98	151	18:05:48.466	117GB105A106A4O	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,495	00:0
331	98	151	18:06:48.466	117GB105A106A4P	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,495	90:0
332	98	151	18:06:57.800	117GB105A106A4Q	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,496	13:0
333	98	151	18:07:57.800	117GB105A106A4R	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,497	12:0
334	98	151	18:08:07.133	117GB105A106A4S	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,497	26:0
335	98	151	18:09:07.133	117GB105A106A4T	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,498	25:0
336	98	151	18:09:16.466	117GB105A106A4U	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,498	39:0
337	98	151	18:09:17.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3002.85 +/- 1	2R3	4	0	4,499,498	40:0
338	98	151	18:09:17.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,498	40:0
339	98	151	18:09:18.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3002.97 +/- 1	2R3	4	0	4,499,498	42:1
340	98	151	18:09:23.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3004.20 +/- 1	2R3	4	0	4,499,498	50:0
341	98	151	18:09:25.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *3004.26 +/- 1	2R3	4	0	4,499,498	51:8
342	98	151	18:09:26.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *3004.14 +/- 1	2R3	4	0	4,499,498	53:9
343	98	151	18:09:42.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *3000.38 +/- 1	2R3	4	0	4,499,498	78:0
344	98	151	18:10:05.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,499	21:0
345	98	151	18:10:05.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2995.06 +/- 1	2R3	4	0	4,499,499	21:0
346	98	151	18:10:06.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2995.00 +/- 1	2R3	4	0	4,499,499	22:8
347	98	151	18:10:16.466	117GB105A106A4V	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,499	38:0
348	98	151	18:10:25.800	117GB105A106A4W	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,499	52:0
349	98	151	18:11:25.800	117GB105A106A4X	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,500	51:0
350	98	151	18:11:35.133	117GB105A106A4Y	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,500	65:0
351	98	151	18:11:59.800	488AD6C	6TMSED	NORM,EL4	Sci, Eng, and D/L Chan	2R3	4	0	4,499,501	11:0
352	98	151	18:12:35.133	117GB105A106A4Z	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,501	64:0
353	98	151	18:12:44.466	117GB105A106A4AA	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,501	78:0
354	98	151	18:13:44.466	117GB105A106A4AB	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,502	77:0
355	98	151	18:13:53.800	117GB105A106A4AC	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,503	00:0
356	98	151	18:14:53.800	117GB105A106A4AD	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,503	90:0
357	98	151	18:15:03.133	117GB105A106A4AE	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,504	13:0
358	98	151	18:16:03.133	117GB105A106A4AF	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,505	12:0
359	98	151	18:16:12.466	117GB105A106A4AG	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,505	26:0
360	98	151	18:17:12.466	117GB105A106A4AH	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,506	25:0
361	98	151	18:17:21.800	117GB105A106A4AI	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,506	39:0
362	98	151	18:18:21.800	117GB105A106A4AJ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,507	38:0
363	98	151	18:18:31.133	117GB105A106A4AK	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,507	52:0
364	98	151	18:19:31.133	117GB105A106A4AL	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,508	51:0
365	98	151	18:19:40.466	117GB105A106A4AM	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,508	65:0
366	98	151	18:20:40.466	117GB105A106A4AN	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,509	64:0
367	98	151	18:20:49.800	117GB105A106A4AO	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,509	78:0
368	98	151	18:21:49.800	117GB105A106A4AP	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,510	77:0
369	98	151	18:21:59.133	117GB105A106A4AQ	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,511	00:0
370	98	151	18:22:19.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2995.00 +/- 1	2R3	4	0	4,499,511	30:0
371	98	151	18:22:19.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,511	30:0
372	98	151	18:22:20.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2995.12 +/- 1	2R3	4	0	4,499,511	32:1
373	98	151	18:22:25.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2996.36 +/- 1	2R3	4	0	4,499,511	40:0
374	98	151	18:22:27.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2996.42 +/- 1	2R3	4	0	4,499,511	41:8
375	98	151	18:22:28.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2996.30 +/- 1	2R3	4	0	4,499,511	43:9
376	98	151	18:22:44.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2992.53 +/- 1	2R3	4	0	4,499,511	68:0
377	98	151	18:22:59.133	117GB105A106A4AR	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,511	90:0
378	98	151	18:23:07.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2987.22 +/- 1	2R3	4	0	4,499,512	11:0
379	98	151	18:23:07.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,512	11:0
380	98	151	18:23:08.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2987.16 +/- 1	2R3	4	0	4,499,512	12:8
381	98	151	18:23:08.466	117GB105A106A4AS	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,512	13:0
382	98	151	18:24:08.466	117GB105A106A4AT	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,513	12:0
383	98	151	18:24:17.800	117GB105A106A4AU	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,513	26:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	151	18:25:17.800	117GB105A106A4AV	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,514	25:0
385	98	151	18:25:27.133	117GB105A106A4AW	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,514	39:0
386	98	151	18:26:27.133	117GB105A106A4AX	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,515	38:0
387	98	151	18:26:36.466	117GB105A106A4AY	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,515	52:0
388	98	151	18:27:36.466	117GB105A106A4AZ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,516	51:0
389	98	151	18:27:45.800	117GB105A106A4BA	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,516	65:0
390	98	151	18:28:45.800	117GB105A106A4BB	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,517	64:0
391	98	151	18:28:55.133	117GB105A106A4BC	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,517	78:0
392	98	151	18:29:55.133	117GB105A106A4BD	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,518	77:0
393	98	151	18:30:04.466	117GB105A106A4BE	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,519	00:0
394	98	151	18:31:04.466	117GB105A106A4BF	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,519	90:0
395	98	151	18:31:13.800	117GB105A106A4BG	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,520	13:0
396	98	151	18:32:13.800	117GB105A106A4BH	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,521	12:0
397	98	151	18:32:23.133	117GB105A106A4BI	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,521	26:0
398	98	151	18:33:23.133	117GB105A106A4BJ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,522	25:0
399	98	151	18:33:32.466	117GB105A106A4BK	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,522	39:0
400	98	151	18:34:32.466	117GB105A106A4BL	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,523	38:0
401	98	151	18:34:41.800	117GB105A106A4BM	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,523	52:0
402	98	151	18:35:21.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,524	20:0
403	98	151	18:35:21.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2987.16 +/- 1	2R3	4	0	4,499,524	20:0
404	98	151	18:35:22.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2987.28 +/- 1	2R3	4	0	4,499,524	22:1
405	98	151	18:35:27.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2988.52 +/- 1	2R3	4	0	4,499,524	30:0
406	98	151	18:35:29.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2988.58 +/- 1	2R3	4	0	4,499,524	31:8
407	98	151	18:35:30.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2988.46 +/- 1	2R3	4	0	4,499,524	33:9
408	98	151	18:35:41.800	117GB105A106A4BN	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,524	51:0
409	98	151	18:35:46.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2984.69 +/- 1	2R3	4	0	4,499,524	58:0
410	98	151	18:35:51.133	117GB105A106A4BO	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,524	65:0
411	98	151	18:36:09.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2979.38 +/- 1	2R3	4	0	4,499,525	01:0
412	98	151	18:36:09.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,525	01:0
413	98	151	18:36:10.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2979.32 +/- 1	2R3	4	0	4,499,525	02:8
414	98	151	18:36:51.133	117GB105A106A4BP	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,525	64:0
415	98	151	18:37:00.466	117GB105A106A4BQ	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,525	78:0
416	98	151	18:38:00.466	117GB105A106A4BR	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,526	77:0
417	98	151	18:38:09.800	117GB105A106A4BS	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,527	00:0
418	98	151	18:39:09.800	117GB105A106A4BT	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,527	90:0
419	98	151	18:39:19.133	117GB105A106A4BU	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,528	13:0
420	98	151	18:40:19.133	117GB105A106A4BV	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,529	12:0
421	98	151	18:40:28.466	117GB105A106A4BW	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,529	26:0
422	98	151	18:41:28.466	117GB105A106A4BX	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,530	25:0
423	98	151	18:41:37.800	117GB105A106A4BY	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,530	39:0
424	98	151	18:42:37.800	117GB105A106A4BZ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,531	38:0
425	98	151	18:42:47.133	117GB105A106A4CA	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,531	52:0
426	98	151	18:43:47.133	117GB105A106A4CB	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,532	51:0
427	98	151	18:43:56.466	117GB105A106A4CC	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,532	65:0
428	98	151	18:44:56.466	117GB105A106A4CD	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,533	64:0
429	98	151	18:45:05.800	117GB105A106A4CE	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,533	78:0
430	98	151	18:46:05.800	117GB105A106A4CF	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,534	77:0
431	98	151	18:46:15.133	117GB105A106A4CG	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,535	00:0
432	98	151	18:47:15.133	117GB105A106A4CH	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,535	90:0
433	98	151	18:47:24.466	117GB105A106A4CI	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,536	13:0
434	98	151	18:48:23.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,537	11:0
435	98	151	18:48:23.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2979.32 +/- 1	2R3	4	0	4,499,537	11:0
436	98	151	18:48:24.466	117GB105A106A4CJ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,537	12:0
437	98	151	18:48:25.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2979.44 +/- 1	2R3	4	0	4,499,537	13:1
438	98	151	18:48:30.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2980.67 +/- 1	2R3	4	0	4,499,537	21:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	98	151	18:48:31.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2980.73 +/- 1	2R3	4	0	4,499,537	22:8
440	98	151	18:48:33.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2980.61 +/- 1	2R3	4	0	4,499,537	24:9
441	98	151	18:48:33.800	117GB105A106A4CK	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,537	26:0
442	98	151	18:48:48.466		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2977.00 +/- 1	2R3	4	0	4,499,537	48:0
443	98	151	18:49:11.133		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2971.69 +/- 1	2R3	4	0	4,499,537	82:0
444	98	151	18:49:11.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,537	82:0
445	98	151	18:49:12.333		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2971.63 +/- 1	2R3	4	0	4,499,537	83:8
446	98	151	18:49:33.800	117GB105A106A4CL	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,538	25:0
447	98	151	18:49:43.133	117GB105A106A4CM	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,538	39:0
448	98	151	18:50:43.133	117GB105A106A4CN	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,539	38:0
449	98	151	18:50:52.466	117GB105A106A4CO	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,539	52:0
450	98	151	18:51:52.466	117GB105A106A4CP	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,540	51:0
451	98	151	18:52:01.800	117GB105A106A4CQ	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,540	65:0
452	98	151	18:53:01.800	117GB105A106A4CR	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,541	64:0
453	98	151	18:53:11.133	117GB105A106A4CS	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,541	78:0
454	98	151	18:54:11.133	117GB105A106A4CT	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,542	77:0
455	98	151	18:54:20.466	117GB105A106A4CU	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,543	00:0
456	98	151	18:55:20.466	117GB105A106A4CV	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,543	90:0
457	98	151	18:55:29.800	117GB105A106A4CW	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,544	13:0
458	98	151	18:56:29.800	117GB105A106A4CX	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,545	12:0
459	98	151	18:56:39.133	117GB105A106A4CY	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,545	26:0
460	98	151	18:57:39.133	117GB105A106A4CZ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,546	25:0
461	98	151	18:57:48.466	117GB105A106A4DA	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,546	39:0
462	98	151	18:58:48.466	117GB105A106A4DB	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,547	38:0
463	98	151	18:58:57.800	117GB105A106A4DC	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,547	52:0
464	98	151	18:59:57.800	117GB105A106A4DD	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,548	51:0
465	98	151	19:00:07.133	117GB105A106A4DE	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,548	65:0
466	98	151	19:01:07.133	117GB105A106A4DF	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,549	64:0
467	98	151	19:01:16.466	117GB105A106A4DG	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,549	78:0
468	98	151	19:01:25.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2971.63 +/- 1	2R3	4	0	4,499,550	01:0
469	98	151	19:01:25.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,550	01:0
470	98	151	19:01:27.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2971.75 +/- 1	2R3	4	0	4,499,550	03:1
471	98	151	19:01:32.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2972.98 +/- 1	2R3	4	0	4,499,550	11:0
472	98	151	19:01:33.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2973.04 +/- 1	2R3	4	0	4,499,550	12:8
473	98	151	19:01:35.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2972.92 +/- 1	2R3	4	0	4,499,550	14:9
474	98	151	19:01:51.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2969.16 +/- 1	2R3	4	0	4,499,550	39:0
475	98	151	19:02:13.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,550	73:0
476	98	151	19:02:13.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2963.85 +/- 1	2R3	4	0	4,499,550	73:0
477	98	151	19:02:15.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2963.79 +/- 1	2R3	4	0	4,499,550	74:8
478	98	151	19:02:16.466	117GB105A106A4DH	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,550	77:0
479	98	151	19:02:25.800	117GB105A106A4DI	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,551	00:0
480	98	151	19:03:25.800	117GB105A106A4DJ	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,551	90:0
481	98	151	19:03:35.133	117GB105A106A4DK	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,552	13:0
482	98	151	19:04:35.133	117GB105A106A4DL	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,553	12:0
483	98	151	19:04:44.466	117GB105A106A4DM	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,553	26:0
484	98	151	19:05:44.466	117GB105A106A4DN	7STRP	0.00005,-0.00094	Slew =12.01	2R3	4	0	4,499,554	25:0
485	98	151	19:05:53.800	117GB105A106A4DO	7STRP	0.025005,0.0,0,0	Slew =,0.44	2R3	4	0	4,499,554	39:0
486	98	151	19:06:53.800	117GB105A106B4A	7STRP	-0.04503,-0.01,0	Slew =12.01	2R3	4	0	4,499,555	38:0
487	98	151	19:07:03.133	117GB105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.44	2R3	4	0	4,499,555	52:0
488	98	151	19:08:03.800	117GB11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,499,556	52:0
489	98	151	19:08:29.800	176GB6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,499,557	00:0
490	98	151	19:08:31.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2963.79 +/- 1	2R3	4	0	4,499,557	03:0
491	98	151	19:08:31.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,557	03:0
492	98	151	19:08:33.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2963.91 +/- 1	2R3	4	0	4,499,557	05:1
493	98	151	19:08:38.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2965.14 +/- 1	2R3	4	0	4,499,557	13:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	151	19:08:39.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2965.20 +/- 1	2R3	4	0	4,499,557:14:8	
495	98	151	19:08:41.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2965.08 +/- 1	2R3	4	0	4,499,557:16:9	
496	98	151	19:08:41.800		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2964.91 +/- 1	2R3	4	0	4,499,557:18:0	
497	98	151	19:08:57.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2961.16 +/- 1	2R3	4	0	4,499,557:42:0	
498	98	151	19:08:57.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,557:42:0	
499	98	151	19:08:59.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2961.10 +/- 1	2R3	4	0	4,499,557:43:8	
500	98	151	19:09:29.800	165GC4A	7SCAN	NORM,272.577,-26	Check S/P Position	2R3	4	0	4,499,557:90:0	
501	98	151	19:09:31.133	176GC6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	4,499,558:01:0	
502	98	151	19:10:21.800	117GC	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	4,499,558:77:0	
503	98	151	19:10:29.800	165GC4B	7VECT		Inert vect update UTC	2R3	4	0	4,499,558:89:0	
504	98	151	19:10:31.133	117GC105A106A4A	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,559:00:0	
505	98	151	19:11:25.133	117GC105A106A4B	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,559:81:0	
506	98	151	19:11:34.466	117GC105A106A4C	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,560:04:0	
507	98	151	19:12:28.466	117GC105A106A4D	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,560:85:0	
508	98	151	19:12:37.800	117GC105A106A4E	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,561:08:0	
509	98	151	19:13:31.800	117GC105A106A4F	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,561:89:0	
510	98	151	19:13:41.133	117GC105A106A4G	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,562:12:0	
511	98	151	19:14:35.133	117GC105A106A4H	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,563:02:0	
512	98	151	19:14:44.466	117GC105A106A4I	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,563:16:0	
513	98	151	19:15:38.466	117GC105A106A4J	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,564:06:0	
514	98	151	19:15:47.800	117GC105A106A4K	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,564:20:0	
515	98	151	19:16:41.800	117GC105A106A4L	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,565:10:0	
516	98	151	19:16:51.133	117GC105A106A4M	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,565:24:0	
517	98	151	19:17:45.133	117GC105A106A4N	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,566:14:0	
518	98	151	19:17:54.466	117GC105A106A4O	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,566:28:0	
519	98	151	19:18:48.466	117GC105A106A4P	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,567:18:0	
520	98	151	19:18:57.800	117GC105A106A4Q	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,567:32:0	
521	98	151	19:19:51.800	117GC105A106A4R	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,568:22:0	
522	98	151	19:20:01.133	117GC105A106A4S	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,568:36:0	
523	98	151	19:20:55.133	117GC105A106A4T	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,569:26:0	
524	98	151	19:21:04.466	117GC105A106A4U	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,569:40:0	
525	98	151	19:21:58.466	117GC105A106A4V	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,570:30:0	
526	98	151	19:22:05.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,570:41:0	
527	98	151	19:22:05.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2961.10 +/- 1	2R3	4	0	4,499,570:41:0	
528	98	151	19:22:07.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2961.22 +/- 1	2R3	4	0	4,499,570:43:1	
529	98	151	19:22:07.800	117GC105A106A4W	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,570:44:0	
530	98	151	19:22:12.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2962.45 +/- 1	2R3	4	0	4,499,570:51:0	
531	98	151	19:22:13.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2962.51 +/- 1	2R3	4	0	4,499,570:52:8	
532	98	151	19:22:15.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2962.39 +/- 1	2R3	4	0	4,499,570:54:9	
533	98	151	19:22:31.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2958.63 +/- 1	2R3	4	0	4,499,570:79:0	
534	98	151	19:22:53.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,571:22:0	
535	98	151	19:22:53.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2953.31 +/- 1	2R3	4	0	4,499,571:22:0	
536	98	151	19:22:55.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2953.25 +/- 1	2R3	4	0	4,499,571:23:8	
537	98	151	19:23:01.800	117GC105A106A4X	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,571:34:0	
538	98	151	19:23:11.133	117GC105A106A4Y	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,571:48:0	
539	98	151	19:24:05.133	117GC105A106A4Z	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,572:38:0	
540	98	151	19:24:14.466	117GC105A106A4AA	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,572:52:0	
541	98	151	19:25:08.466	117GC105A106A4AB	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,573:42:0	
542	98	151	19:25:17.800	117GC105A106A4AC	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,573:56:0	
543	98	151	19:26:11.800	117GC105A106A4AD	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,574:46:0	
544	98	151	19:26:21.133	117GC105A106A4AE	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,574:60:0	
545	98	151	19:27:15.133	117GC105A106A4AF	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,575:50:0	
546	98	151	19:27:24.466	117GC105A106A4AG	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,575:64:0	
547	98	151	19:28:18.466	117GC105A106A4AH	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,576:54:0	
548	98	151	19:28:27.800	117GC105A106A4AI	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,576:68:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	151	19:29:21.800	117GC105A106A4AJ	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,577:58:0	
550	98	151	19:29:31.133	117GC105A106A4AK	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,577:72:0	
551	98	151	19:30:25.133	117GC105A106A4AL	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,578:62:0	
552	98	151	19:30:34.466	117GC105A106A4AM	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,578:76:0	
553	98	151	19:31:28.466	117GC105A106A4AN	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,579:66:0	
554	98	151	19:31:37.800	117GC105A106A4AO	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,579:80:0	
555	98	151	19:32:31.800	117GC105A106A4AP	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,580:70:0	
556	98	151	19:32:41.133	117GC105A106A4AQ	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,580:84:0	
557	98	151	19:33:35.133	117GC105A106A4AR	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,581:74:0	
558	98	151	19:33:44.466	117GC105A106A4AS	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,581:88:0	
559	98	151	19:34:38.466	117GC105A106A4AT	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,582:78:0	
560	98	151	19:34:47.800	117GC105A106A4AU	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,583:01:0	
561	98	151	19:35:07.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,583:31:0	
562	98	151	19:35:07.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2953.25 +/- 1	2R3	4	0	4,499,583:31:0	
563	98	151	19:35:09.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2953.37 +/- 1	2R3	4	0	4,499,583:33:1	
564	98	151	19:35:14.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2954.61 +/- 1	2R3	4	0	4,499,583:41:0	
565	98	151	19:35:15.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2954.67 +/- 1	2R3	4	0	4,499,583:42:8	
566	98	151	19:35:17.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2954.55 +/- 1	2R3	4	0	4,499,583:44:9	
567	98	151	19:35:33.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2950.78 +/- 1	2R3	4	0	4,499,583:69:0	
568	98	151	19:35:41.800	117GC105A106A4AV	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,583:82:0	
569	98	151	19:35:51.133	117GC105A106A4AW	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,584:05:0	
570	98	151	19:35:55.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,584:12:0	
571	98	151	19:35:55.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2945.47 +/- 1	2R3	4	0	4,499,584:12:0	
572	98	151	19:35:57.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2945.41 +/- 1	2R3	4	0	4,499,584:13:8	
573	98	151	19:36:45.133	117GC105A106A4AX	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,584:86:0	
574	98	151	19:36:54.466	117GC105A106A4AY	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,585:09:0	
575	98	151	19:37:48.466	117GC105A106A4AZ	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,585:90:0	
576	98	151	19:37:57.800	117GC105A106A4BA	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,586:13:0	
577	98	151	19:38:51.800	117GC105A106A4BB	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,587:03:0	
578	98	151	19:39:01.133	117GC105A106A4BC	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,587:17:0	
579	98	151	19:39:55.133	117GC105A106A4BD	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,588:07:0	
580	98	151	19:40:04.466	117GC105A106A4BE	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,588:21:0	
581	98	151	19:40:58.466	117GC105A106A4BF	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,589:11:0	
582	98	151	19:41:07.800	117GC105A106A4BG	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,589:25:0	
583	98	151	19:42:01.800	117GC105A106A4BH	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,590:15:0	
584	98	151	19:42:11.133	117GC105A106A4BI	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,590:29:0	
585	98	151	19:43:05.133	117GC105A106A4BJ	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,591:19:0	
586	98	151	19:43:14.466	117GC105A106A4BK	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,591:33:0	
587	98	151	19:44:08.466	117GC105A106A4BL	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,592:23:0	
588	98	151	19:44:17.800	117GC105A106A4BM	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,592:37:0	
589	98	151	19:45:11.800	117GC105A106A4BN	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,593:27:0	
590	98	151	19:45:21.133	117GC105A106A4BO	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,593:41:0	
591	98	151	19:46:15.133	117GC105A106A4BP	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,594:31:0	
592	98	151	19:46:24.466	117GC105A106A4BQ	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,594:45:0	
593	98	151	19:47:18.466	117GC105A106A4BR	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,595:35:0	
594	98	151	19:47:27.800	117GC105A106A4BS	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,595:49:0	
595	98	151	19:48:09.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,596:21:0	
596	98	151	19:48:09.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2945.41 +/- 1	2R3	4	0	4,499,596:21:0	
597	98	151	19:48:11.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2945.53 +/- 1	2R3	4	0	4,499,596:23:1	
598	98	151	19:48:16.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2946.77 +/- 1	2R3	4	0	4,499,596:31:0	
599	98	151	19:48:17.666		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2946.83 +/- 1	2R3	4	0	4,499,596:32:8	
600	98	151	19:48:19.066		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2946.71 +/- 1	2R3	4	0	4,499,596:34:9	
601	98	151	19:48:21.800	117GC105A106A4BT	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,596:39:0	
602	98	151	19:48:31.133	117GC105A106A4BU	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,596:53:0	
603	98	151	19:48:35.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2942.94 +/- 1	2R3	4	0	4,499,596:59:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	98	151	19:48:57.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,597	02:0
605	98	151	19:48:57.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2937.63 +/- 1	2R3	4	0	4,499,597	02:0
606	98	151	19:48:59.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2937.57 +/- 1	2R3	4	0	4,499,597	03:8
607	98	151	19:49:25.133	117GC105A106A4BV	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,597	43:0
608	98	151	19:49:34.466	117GC105A106A4BW	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,597	57:0
609	98	151	19:50:28.466	117GC105A106A4BX	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,598	47:0
610	98	151	19:50:37.800	117GC105A106A4BY	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,598	61:0
611	98	151	19:51:31.800	117GC105A106A4BZ	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,599	51:0
612	98	151	19:51:41.133	117GC105A106A4CA	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,599	65:0
613	98	151	19:52:35.133	117GC105A106A4CB	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,600	55:0
614	98	151	19:52:44.466	117GC105A106A4CC	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,600	69:0
615	98	151	19:53:38.466	117GC105A106A4CD	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,601	59:0
616	98	151	19:53:47.800	117GC105A106A4CE	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,601	73:0
617	98	151	19:54:41.800	117GC105A106A4CF	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,602	63:0
618	98	151	19:54:51.133	117GC105A106A4CG	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,602	77:0
619	98	151	19:55:45.133	117GC105A106A4CH	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,603	67:0
620	98	151	19:55:54.466	117GC105A106A4CI	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,603	81:0
621	98	151	19:56:48.466	117GC105A106A4CJ	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,604	71:0
622	98	151	19:56:57.800	117GC105A106A4CK	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,604	85:0
623	98	151	19:57:51.800	117GC105A106A4CL	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,605	75:0
624	98	151	19:58:01.133	117GC105A106A4CM	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,605	89:0
625	98	151	19:58:55.133	117GC105A106A4CN	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,606	79:0
626	98	151	19:59:04.466	117GC105A106A4CO	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,607	02:0
627	98	151	19:59:58.466	117GC105A106A4CP	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,607	83:0
628	98	151	20:00:07.800	117GC105A106A4CQ	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,608	06:0
629	98	151	20:01:01.800	117GC105A106A4CR	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,608	87:0
630	98	151	20:01:11.133	117GC105A106A4CS	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,609	10:0
631	98	151	20:01:12.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2937.57 +/- 1	2R3	4	0	4,499,609	12:0
632	98	151	20:01:12.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,609	12:0
633	98	151	20:01:13.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2937.69 +/- 1	2R3	4	0	4,499,609	14:1
634	98	151	20:01:19.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2938.92 +/- 1	2R3	4	0	4,499,609	22:0
635	98	151	20:01:20.333		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2938.98 +/- 1	2R3	4	0	4,499,609	23:8
636	98	151	20:01:21.733		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2938.86 +/- 1	2R3	4	0	4,499,609	25:9
637	98	151	20:01:37.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2935.25 +/- 1	2R3	4	0	4,499,609	49:0
638	98	151	20:01:59.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,609	83:0
639	98	151	20:01:59.800		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2929.94 +/- 1	2R3	4	0	4,499,609	83:0
640	98	151	20:02:01.000		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2929.88 +/- 1	2R3	4	0	4,499,609	84:8
641	98	151	20:02:05.133	117GC105A106A4CT	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,610	00:0
642	98	151	20:02:14.466	117GC105A106A4CU	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,610	14:0
643	98	151	20:03:08.466	117GC105A106A4CV	7STRP	0.0,0.00119,0,0,	Slew =12.01	2R3	4	0	4,499,611	04:0
644	98	151	20:03:17.800	117GC105A106A4CW	7STRP	0.051044,0.0,0,0	Slew =,1.01	2R3	4	0	4,499,611	18:0
645	98	151	20:04:11.800	117GC105A106B4A	7STRP	0.040021,0.01,0,	Slew =12.01	2R3	4	0	4,499,612	08:0
646	98	151	20:04:21.133	117GC105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.01	2R3	4	0	4,499,612	22:0
647	98	151	20:05:21.800	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	4,499,613	22:0
648	98	151	20:05:29.133	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2R3	4	0	4,499,613	33:0
649	98	151	20:05:31.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	4,499,613	36:0
650	98	151	20:05:31.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2929.88 +/- 1	2R3	4	0	4,499,613	36:0
651	98	151	20:05:32.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2930.00 +/- 1	2R3	4	0	4,499,613	38:1
652	98	151	20:05:37.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2931.23 +/- 1	2R3	4	0	4,499,613	46:0
653	98	151	20:05:39.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *2931.29 +/- 1	2R3	4	0	4,499,613	47:8
654	98	151	20:05:40.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *2931.17 +/- 1	2R3	4	0	4,499,613	49:9
655	98	151	20:05:41.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *2931.00 +/- 1	2R3	4	0	4,499,613	51:0
656	98	151	20:05:54.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,613	71:0
657	98	151	20:05:54.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *2927.88 +/- 1	2R3	4	0	4,499,613	71:0
658	98	151	20:05:55.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *2927.82 +/- 1	2R3	4	0	4,499,613	72:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	98	151	20:07:07.800	165IC4A	7SCAN	NORM,280.939999,	Check S/P Position	2R3	4	0	4,499,614	90:0
660	98	151	20:09:59.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2927.82 +/- 1	2R3	4	0	4,499,617	74:0
661	98	151	20:09:59.133	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,499,617	74:0
662	98	151	20:10:00.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2927.94 +/- 1	2R3	4	0	4,499,617	76:1
663	98	151	20:10:02.466	118IC	**SMOS**	GS		2R3	4	0	4,499,617	79:0
664	98	151	20:10:05.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2929.17 +/- 1	2R3	4	0	4,499,617	84:0
665	98	151	20:10:07.000		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC *2929.23 +/- 1	2R3	4	0	4,499,617	85:8
666	98	151	20:10:09.133	165IC4B	7VECT		Inert vect update UTC	2R3	4	0	4,499,617	89:0
667	98	151	20:10:11.800	175IG176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,499,618	02:0
668	98	151	20:10:12.266		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 2863.23 +/- 1	2R3	4	0	4,499,618	02:7
669	98	151	20:10:12.266		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC *2863.23 +/- 1	2R3	4	0	4,499,618	02:7
670	98	151	20:10:12.466	118IC110A111A4A	7STRP	-0.0027,0.0073,2	Slew =,3.01	2R3	4	0	4,499,618	03:0
671	98	151	20:10:47.133	118IC110A111A4B	7STRP	0.0035,-0.029209	Slew =,6.01	2R3	4	0	4,499,618	55:0
672	98	151	20:10:55.800	118IC110A111A4C	7STRP	-0.0027,0.0073,2	Slew =,3.01	2R3	4	0	4,499,618	68:0
673	98	151	20:11:28.466	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,619	26:0
674	98	151	20:11:28.466		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 988.00 +/- 1	2R3	4	0	4,499,619	26:0
675	98	151	20:11:30.466	118IC11A	**SMOS**	GE		2R3	4	0	4,499,619	29:0
676	98	151	20:11:31.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 976.50 +/- 1	2R3	4	0	4,499,619	30:1
677	98	151	20:13:11.800	165IS4A	7SCAN	NORM,277.803997,	Check S/P Position	2R3	4	0	4,499,620	90:0
678	98	151	20:16:03.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 976.50 +/- 1	2R3	4	0	4,499,623	74:0
679	98	151	20:16:03.133	175IH422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	4,499,623	74:0
680	98	151	20:16:04.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 976.62 +/- 1	2R3	4	0	4,499,623	76:1
681	98	151	20:16:09.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 977.85 +/- 1	2R3	4	0	4,499,623	84:0
682	98	151	20:16:11.000		DMS:	: *RUNUP	R806, TRACK *2, *REV, TIC * 977.91 +/- 1	2R3	4	0	4,499,623	85:8
683	98	151	20:16:13.133	165IS4B	7VECT		Inert vect update UTC	2R3	4	0	4,499,623	89:0
684	98	151	20:16:15.800	175IH176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	4,499,624	02:0
685	98	151	20:16:16.266		DMS:	: *AT_SPD	R806, TRACK 2, REV, TIC 911.91 +/- 2	2R3	4	0	4,499,624	02:7
686	98	151	20:16:16.266		DMS:	**: *RECORD**	R806, TRACK 2, REV, TIC * 911.91 +/- 1	2R3	4	0	4,499,624	02:7
687	98	151	20:16:40.466		DMS:	**: *RUNDOWN**	R806, TRACK 2, REV, TIC * 316.36 +/- 2	2R3	4	0	4,499,624	39:0
688	98	151	20:16:40.466	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	4,499,624	39:0
689	98	151	20:16:43.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC * 304.86 +/- 2	2R3	4	0	4,499,624	43:1
690	98	151	20:20:10.466	465KC6A	6DTRN	CMD,6DTRN,465KC6	DMS TRACK TURNAROUND	2R3	4	0	4,499,627	81:0
691	98	151	20:20:10.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 304.86 +/- 2	2R3	4	0	4,499,627	81:0
692	98	151	20:20:10.466		DMS:	: *DMS-TURN	P7, TRACK 2, REV, TIC 304.86 +/- 2	2R3	4	0	4,499,627	81:0
693	98	151	20:20:11.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 304.98 +/- 2	2R3	4	0	4,499,627	83:1
694	98	151	20:20:17.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 306.22 +/- 2	2R3	4	0	4,499,628	00:0
695	98	151	20:20:18.333		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC * 306.28 +/- 2	2R3	4	0	4,499,628	01:8
696	98	151	20:20:19.733		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC * 306.16 +/- 2	2R3	4	0	4,499,628	03:9
697	98	151	20:27:53.200		DMS:	: *REVERSE	P7, TRACK 2, REV, TIC * 199.87 +/- 2	2R3	4	0	4,499,635	47:1
698	98	151	20:27:54.400		DMS:	: *RUNUP	P7, TRACK 3, FWD, TIC 199.81 +/- 2	2R3	4	0	4,499,635	48:9
699	98	151	20:27:54.400		DMS:	: *TURNARND	P7, TRACK *3, *FWD, TIC * 199.81 +/- 2	2R3	4	0	4,499,635	48:9
700	98	151	20:27:55.800		DMS:	: *AT_SPD	P7, TRACK 3, FWD, TIC * 199.93 +/-	2R3	4	0	4,499,635	51:0
701	98	151	20:28:07.800		DMS:	: *AUTOSTOP	P7, TRACK 3, FWD, TIC * 202.06 +/-	2R3	4	0	4,499,635	69:0
702	98	151	20:28:09.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 202.12 +/-	2R3	4	0	4,499,635	70:8
703	**98**	**151**	**20:33:22.463**	**15NNREGION01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
704	**98**	**151**	**20:35:31.133**	**20DE5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**2R3**	**4**	**0**	**4,499,643**	**06:0**
705	**98**	**151**	**20:35:32.466**	**20DE5B**	**37MRL**		**Memory Realocate (software operates from R**	**2R3**	**4**	**0**	**4,499,643**	**08:0**
706	**98**	**151**	**20:35:33.800**	**20DE6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**2R3**	**4**	**0**	**4,499,643**	**10:0**
707	**98**	**151**	**20:35:43.800**	**20DE6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**2R3**	**4**	**0**	**4,499,643**	**25:0**
708	**98**	**151**	**20:35:53.800**	**20DE5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,643**	**40:0**
709	**98**	**151**	**20:36:20.466**	**20DE5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,643**	**80:0**
710	**98**	**151**	**20:36:43.133**	**20DE4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,644**	**23:0**
711	**98**	**151**	**20:38:24.466**	**125DE4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**4,499,645**	**84:0**
712	98	151	20:38:24.466	125DE	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	4,499,645	84:0
713	98	151	20:38:28.466	165ID4A	7SCAN	NORM,287.400997,	Check S/P Position	3R0	4	0	4,499,645	90:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	151	20:39:25.133	125DE11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	4,499,646	84:0
715	**98**	**151**	**20:39:25.133**	**125DE4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**4,499,646**	**84:0**
716	98	151	20:41:26.466	127DE	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	4,499,648	84:0
717	**98**	**151**	**20:41:26.466**	**127DE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**4,499,648**	**84:0**
718	**98**	**151**	**20:41:27.133**	**127DE4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,499,648**	**85:0**
719	98	151	20:41:35.133	127DE11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,499,649	06:0
720	98	151	20:42:17.800		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 202.12 +/-	3R3	4	0	4,499,649	70:0
721	98	151	20:42:17.800	175II422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	4,499,649	70:0
722	98	151	20:42:24.466		DMS:	: *RUNUP	R806, TRACK *3, FWD, TIC 202.12 +/-	3R3	4	0	4,499,649	80:0
723	98	151	20:42:25.800	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	3R3	4	0	4,499,649	82:0
724	98	151	20:42:29.133	175II176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,499,649	87:0
725	98	151	20:42:29.733		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 268.12 +/-	3R3	4	0	4,499,649	87:9
726	98	151	20:42:29.733		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC * 268.12 +/-	3R3	4	0	4,499,649	87:9
727	98	151	20:42:30.466	165ID4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,649	89:0
728	98	151	20:42:31.800	431OA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	3R3	4	0	4,499,650	00:0
729	98	151	20:42:45.133	428JA6A	6RCCLR			3R3	4	0	4,499,650	20:0
730	98	151	20:42:45.800	428JA6B	6RCSET	11		3R3	4	0	4,499,650	21:0
731	98	151	20:42:57.800	175TA422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,650	39:0
732	98	151	20:42:57.800		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC * 958.83 +/-	3R3	4	0	4,499,650	39:0
733	98	151	20:43:00.533		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC * 970.33 +/-	3R3	4	0	4,499,650	43:1
734	98	151	20:43:01.800	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,650	45:0
735	98	151	20:43:01.933		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 970.45 +/-	3R3	4	0	4,499,650	45:2
736	98	151	20:43:01.933		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC * 970.45 +/-	3R3	4	0	4,499,650	45:2
737	**98**	**151**	**20:43:29.130**	**15NNREGION01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
738	**98**	**151**	**20:43:29.130**	**15ENREGION01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
739	98	151	20:43:31.800	165DE4A	**7SCAN**	**NORM,289.601997,**	**Check S/P Position**	3R3	4	0	4,499,650	90:0
740	98	151	20:43:45.133	428JB6A	6RCCLR			3R3	4	0	4,499,651	19:0
741	98	151	20:43:45.800	428JB6B	6RCSET	12		3R3	4	0	4,499,651	20:0
742	98	151	20:44:23.800	117DE	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,499,651	77:0
743	98	151	20:44:24.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 989.79 +/-	3R3	4	0	4,499,651	78:0
744	98	151	20:44:24.466	175DE422A6A	6DMSC	R28,3	DMS Control	3R3	4	0	4,499,651	78:0
745	98	151	20:44:25.666		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC * 989.85 +/-	3R3	4	0	4,499,651	79:8
746	98	151	20:44:29.666		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 991.35 +/-	3R3	4	0	4,499,651	85:8
747	98	151	20:44:29.666		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 991.35 +/-	3R3	4	0	4,499,651	85:8
748	98	151	20:44:29.800	175DE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	4,499,651	86:0
749	98	151	20:44:31.800	165DE4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,651	89:0
750	98	151	20:44:33.133	117DE105A106A4A	**7STRP**	**-0.018852,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,499,652	00:0
751	**98**	**151**	**20:44:33.133**	**15ENREGION01-**	**NIMPBK**	**301DE**	**EUROPA REGIONAL OBSERVATION**	**3R3**	**4**	**0**	**: :**	
752	98	151	20:53:38.466	428JC6A	6RCCLR			3R3	4	0	4,499,660	90:0
753	98	151	20:53:39.133	428JC6B	6RCSET	8		3R3	4	0	4,499,661	00:0
754	**98**	**151**	**20:54:53.133**	**15ENREGION01-**	**NIMPBK**	**301EE**	**EUROPA REGIONAL OBSERVATION**	**3R3**	**4**	**0**	**: :**	
755	98	151	20:55:03.800	117DE105A106A4B	**7STRP**	**0.021003,-0.009,**	**Slew =12.01**	3R3	4	0	4,499,662	36:0
756	**98**	**151**	**20:55:05.800**	**15ENREGION01-**	**DESELC**	**300DE**	**EUROPA REGIONAL OBSERVATION**	**3R3**	**4**	**0**	**: :**	
757	**98**	**151**	**20:55:13.133**	**15ENREGION01-**	**DESELC**	**300EE**	**EUROPA REGIONAL OBSERVATION**	**3R3**	**4**	**0**	**: :**	
758	**98**	**151**	**20:55:14.466**	**15ENREGION01-**	**NIMPBK**	**301EE**	**EUROPA REGIONAL OBSERVATION**	**3R3**	**4**	**0**	**: :**	
759	98	151	20:55:15.133	117DE105A106A4C	**7STRP**	**-0.018852,0.0,0,**	**Slew =,0.03**	3R3	4	0	4,499,662	53:0
760	**98**	**151**	**21:03:41.800**	**15ENREGION01-**	**DESELC**	**300EE**	**EUROPA REGIONAL OBSERVATION**	**3R3**	**4**	**0**	**: :**	
761	98	151	21:03:43.800		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *2005.72 +/-	3R3	4	0	4,499,670	88:0
762	98	151	21:03:43.800	175TB422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,670	88:0
763	98	151	21:03:45.000		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2006.02 +/-	3R3	4	0	4,499,670	89:8
764	98	151	21:03:46.400		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2006.14 +/-	3R3	4	0	4,499,671	00:9
765	98	151	21:03:46.400		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2006.14 +/-	3R3	4	0	4,499,671	00:9
766	98	151	21:03:46.466	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,671	01:0
767	98	151	21:03:52.466	428JD6A	6RCCLR			3R3	4	0	4,499,671	10:0
768	98	151	21:03:53.133	428JD6B	6RCSET	14		3R3	4	0	4,499,671	11:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	**98**	**151**	**21:04:43.130**	**15ENREGION01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
770	98	151	21:05:45.800	117DE11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,499,672:89:0	
771	98	151	21:05:46.466	165IE4A	7SCAN	NORM,347.582996,	Check S/P Position	3R3	4	0	4,499,672:90:0	
772	98	151	21:06:46.466	165IE4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,673:89:0	
773	98	151	21:06:51.800	117IE	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,499,674:06:0	
774	98	151	21:07:09.800	175IJ422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	4,499,674:33:0	
775	98	151	21:07:09.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2053.82 +/-	3R3	4	0	4,499,674:33:0	
776	98	151	21:07:11.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2053.88 +/-	3R3	4	0	4,499,674:34:8	
777	98	151	21:07:13.800	117IE105A106A4A	7STRP	-0.029008,-0.005	Slew =,3.15	3R3	4	0	4,499,674:39:0	
778	98	151	21:07:15.800	175IJ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	4,499,674:42:0	
779	98	151	21:07:16.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2119.88 +/-	3R3	4	0	4,499,674:42:7	
780	98	151	21:07:16.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2119.88 +/-	3R3	4	0	4,499,674:42:7	
781	98	151	21:07:19.800	428JE6A	6RCCLR			3R3	4	0	4,499,674:48:0	
782	98	151	21:07:20.466	428JE6B	6RCSET		11	3R3	4	0	4,499,674:49:0	
783	98	151	21:07:25.133	175TC422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,674:56:0	
784	98	151	21:07:25.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2338.08 +/-	3R3	4	0	4,499,674:56:0	
785	98	151	21:07:27.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2349.58 +/-	3R3	4	0	4,499,674:60:1	
786	98	151	21:07:29.133	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,674:62:0	
787	98	151	21:07:29.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2349.70 +/-	3R3	4	0	4,499,674:62:2	
788	98	151	21:07:29.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2349.70 +/-	3R3	4	0	4,499,674:62:2	
789	98	151	21:07:29.800	117IE105A106B4A	7STRP	0.029509,0.01200	Slew =,4.01	3R3	4	0	4,499,674:63:0	
790	98	151	21:07:33.133	428JF6A	6RCCLR			3R3	4	0	4,499,674:68:0	
791	98	151	21:07:33.800	428JF6B	6RCSET		14	3R3	4	0	4,499,674:69:0	
792	98	151	21:07:37.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2351.70 +/-	3R3	4	0	4,499,674:75:0	
793	98	151	21:07:37.800	175IK422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	4,499,674:75:0	
794	98	151	21:07:39.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2351.76 +/-	3R3	4	0	4,499,674:76:8	
795	98	151	21:07:41.800	117IE105A106B4B	7STRP	-0.028007,0.0,0,	Slew =,3.15	3R3	4	0	4,499,674:81:0	
796	98	151	21:07:43.800	175IK176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	4,499,674:84:0	
797	98	151	21:07:44.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2417.76 +/- 1	3R3	4	0	4,499,674:84:7	
798	98	151	21:07:44.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2417.76 +/-	3R3	4	0	4,499,674:84:7	
799	98	151	21:07:47.800	428JG6A	6RCCLR			3R3	4	0	4,499,674:90:0	
800	98	151	21:07:48.466	428JG6B	6RCSET		11	3R3	4	0	4,499,675:00:0	
801	98	151	21:07:53.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2635.96 +/- 1	3R3	4	0	4,499,675:07:0	
802	98	151	21:07:53.133	175TD422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,675:07:0	
803	98	151	21:07:55.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2647.46 +/- 1	3R3	4	0	4,499,675:11:1	
804	98	151	21:07:57.133	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,675:13:0	
805	98	151	21:07:57.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2647.58 +/- 1	3R3	4	0	4,499,675:13:2	
806	98	151	21:07:57.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2647.58 +/- 1	3R3	4	0	4,499,675:13:2	
807	98	151	21:07:57.800	117IE105A106C4A	7STRP	0.030009,0.00775	Slew =,4.01	3R3	4	0	4,499,675:14:0	
808	98	151	21:08:01.133	428JH6A	6RCCLR			3R3	4	0	4,499,675:19:0	
809	98	151	21:08:01.800	428JH6B	6RCSET		14	3R3	4	0	4,499,675:20:0	
810	98	151	21:08:05.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2649.58 +/- 1	3R3	4	0	4,499,675:26:0	
811	98	151	21:08:05.800	175IL422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	4,499,675:26:0	
812	98	151	21:08:07.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2649.64 +/- 1	3R3	4	0	4,499,675:27:8	
813	98	151	21:08:09.800	117IE105A106C4B	7STRP	-0.027007,0.0045	Slew =,3.15	3R3	4	0	4,499,675:32:0	
814	98	151	21:08:11.800	175IL176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	4,499,675:35:0	
815	98	151	21:08:12.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2715.64 +/- 1	3R3	4	0	4,499,675:35:7	
816	98	151	21:08:12.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2715.64 +/- 1	3R3	4	0	4,499,675:35:7	
817	98	151	21:08:15.800	428JI6A	6RCCLR			3R3	4	0	4,499,675:41:0	
818	98	151	21:08:16.466	428JI6B	6RCSET		11	3R3	4	0	4,499,675:42:0	
819	98	151	21:08:21.133	175TE422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,675:49:0	
820	98	151	21:08:21.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2933.85 +/- 1	3R3	4	0	4,499,675:49:0	
821	98	151	21:08:23.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2945.35 +/- 1	3R3	4	0	4,499,675:53:1	
822	98	151	21:08:25.133	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,675:55:0	
823	98	151	21:08:25.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2945.47 +/- 1	3R3	4	0	4,499,675:55:2	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	151	21:08:25.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2945.47 +/- 1	3R3	4	0	4,499,675:55:2	
825	98	151	21:08:25.800	117IE105A106D4A	7STRP	0.030509,0.002,0	Slew =,4.01	3R3	4	0	4,499,675:56:0	
826	98	151	21:08:29.133	428JJ6A	6RCCLR			3R3	4	0	4,499,675:61:0	
827	98	151	21:08:29.800	428JJ6B	6RCSET	14		3R3	4	0	4,499,675:62:0	
828	98	151	21:08:33.800	175IM422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	4,499,675:68:0	
829	98	151	21:08:33.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2947.47 +/- 1	3R3	4	0	4,499,675:68:0	
830	98	151	21:08:35.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2947.53 +/- 1	3R3	4	0	4,499,675:69:8	
831	98	151	21:08:37.800	117IE105A106D4B	7STRP	-0.027007,0.0107	Slew =,3.15	3R3	4	0	4,499,675:74:0	
832	98	151	21:08:39.800	175IM176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	4,499,675:77:0	
833	98	151	21:08:40.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3013.53 +/- 1	3R3	4	0	4,499,675:77:7	
834	98	151	21:08:40.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3013.53 +/- 2	3R3	4	0	4,499,675:77:7	
835	98	151	21:08:43.800	428JK6A	6RCCLR			3R3	4	0	4,499,675:83:0	
836	98	151	21:08:44.466	428JK6B	6RCSET	11		3R3	4	0	4,499,675:84:0	
837	98	151	21:08:49.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3231.73 +/- 2	3R3	4	0	4,499,676:00:0	
838	98	151	21:08:49.133	175TF422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,676:00:0	
839	98	151	21:08:51.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3243.23 +/- 2	3R3	4	0	4,499,676:04:1	
840	98	151	21:08:53.133	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,676:06:0	
841	98	151	21:08:53.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3243.35 +/- 2	3R3	4	0	4,499,676:06:2	
842	98	151	21:08:53.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3243.35 +/- 2	3R3	4	0	4,499,676:06:2	
843	98	151	21:08:53.800	117IE11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,499,676:07:0	
844	98	151	21:08:55.133	165IF4A	7SCAN	NORM,346.956997,	Check S/P Position	3R3	4	0	4,499,676:09:0	
845	98	151	21:09:35.800	428JL6A	6RCCLR			3R3	4	0	4,499,676:70:0	
846	98	151	21:09:36.466	428JL6B	6RCSET	14		3R3	4	0	4,499,676:71:0	
847	98	151	21:09:53.800	118IF	**SMOS**	GS		3R3	4	0	4,499,677:06:0	
848	98	151	21:10:19.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *3263.63 +/- 2	3R3	4	0	4,499,677:45:0	
849	98	151	21:10:19.800	175IN422A6A	6DMSC	R806,3	DMS Control	3R3	4	0	4,499,677:45:0	
850	98	151	21:10:21.000		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3263.69 +/- 2	3R3	4	0	4,499,677:46:8	
851	98	151	21:10:23.133	165IF4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,677:50:0	
852	98	151	21:10:25.800	175IN176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,499,677:54:0	
853	98	151	21:10:26.266		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3329.69 +/- 2	3R3	4	0	4,499,677:54:7	
854	98	151	21:10:26.266		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3329.69 +/- 2	3R3	4	0	4,499,677:54:7	
855	98	151	21:10:26.466	118IF110A111A4A	7STRP	-0.0072,0.0003,2	Slew =,2.61	3R3	4	0	4,499,677:55:0	
856	98	151	21:10:37.800	428JM6A	6RCCLR			3R3	4	0	4,499,677:72:0	
857	98	151	21:10:38.466	428JM6B	6RCSET	11		3R3	4	0	4,499,677:73:0	
858	98	151	21:10:43.800	118IF11A	**SMOS**	GE		3R3	4	0	4,499,677:81:0	
859	98	151	21:10:50.466		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *3925.24 +/- 2	3R3	4	0	4,499,678:00:0	
860	98	151	21:10:50.466	175TG422A6A	6DMSC	R7,3	DMS Control	3R3	4	0	4,499,678:00:0	
861	98	151	21:10:53.200		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3936.74 +/- 2	3R3	4	0	4,499,678:04:1	
862	98	151	21:10:54.466	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	4,499,678:06:0	
863	98	151	21:10:54.600		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3936.86 +/- 2	3R3	4	0	4,499,678:06:2	
864	98	151	21:10:54.600		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *3936.86 +/- 2	3R3	4	0	4,499,678:06:2	
865	98	151	21:12:51.133	165IG4A	7SCAN	NORM,34.653,11.1	Check S/P Position	3R3	4	0	4,499,679:90:0	
866	**98**	**151**	**21:13:49.129**	**15NNSUCOMP01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
867	98	151	21:14:09.133	428JN6A	6RCCLR			3R3	4	0	4,499,681:25:0	
868	98	151	21:14:09.800	428JN6B	6RCSET	14		3R3	4	0	4,499,681:26:0	
869	**98**	**151**	**21:15:39.133**	**20DF5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,499,682:69:0**	
870	**98**	**151**	**21:15:46.466**	**20DF5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,499,682:80:0**	
871	**98**	**151**	**21:15:47.800**	**20DF6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,499,682:82:0**	
872	**98**	**151**	**21:15:57.800**	**20DF6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,499,683:06:0**	
873	**98**	**151**	**21:16:07.800**	**20DF5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,683:21:0**	
874	**98**	**151**	**21:16:09.133**	**20DF5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,683:23:0**	
875	**98**	**151**	**21:16:47.133**	**20DF4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,683:80:0**	
876	**98**	**151**	**21:16:51.129**	**15NNSUCOMP01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
877	98	151	21:16:58.466	118IG	**SMOS**	GS		2R0	4	0	4,499,684:06:0	
878	98	151	21:17:24.466	175IO422A6A	6DMSC	R806,3	DMS Control	2R0	4	0	4,499,684:45:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	98	151	21:17:24.466		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4028.23 +/- 2	2R0	4	0	4,499,684:45:0	
880	98	151	21:17:25.666		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4028.29 +/- 2	2R0	4	0	4,499,684:46:8	
881	98	151	21:17:27.800	165IG4B	7VECT		Inert vect update UTC	2R0	4	0	4,499,684:50:0	
882	98	151	21:17:30.466	175IO176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	4,499,684:54:0	
883	98	151	21:17:30.933		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4094.29 +/- 3	2R0	4	0	4,499,684:54:7	
884	98	151	21:17:30.933		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4094.29 +/- 2	2R0	4	0	4,499,684:54:7	
885	98	151	21:17:31.133	118IG110A111A4A	7STRP	-0.0072,0.0,26,0	Slew =,2.61	2R0	4	0	4,499,684:55:0	
886	98	151	21:17:42.466	428JO6A	6RCCLR			2R0	4	0	4,499,684:72:0	
887	98	151	21:17:43.133	428JO6B	6RCSET	11		2R0	4	0	4,499,684:73:0	
888	98	151	21:17:48.466	118IG11A	**SMOS**	GE		2R0	4	0	4,499,684:81:0	
889	**98**	**151**	**21:17:51.796**	**15ENSUCOMP01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
890	98	151	21:17:55.133		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4689.84 +/- 3	2R0	4	0	4,499,685:00:0	
891	98	151	21:17:55.133	175TH422A6A	6DMSC	R7,3	DMS Control	2R0	4	0	4,499,685:00:0	
892	98	151	21:17:57.800	165DF4A	**7SCAN**	**NORM,47.707,6.73**	**Check S/P Position**	2R0	4	0	4,499,685:04:0	
893	98	151	21:17:57.866		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4701.34 +/- 3	2R0	4	0	4,499,685:04:1	
894	98	151	21:17:59.133	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R0	4	0	4,499,685:06:0	
895	98	151	21:17:59.266		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4701.46 +/- 3	2R0	4	0	4,499,685:06:2	
896	98	151	21:17:59.266		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4701.46 +/- 3	2R0	4	0	4,499,685:06:2	
897	98	151	21:18:51.133	125DF	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,499,685:84:0	
898	**98**	**151**	**21:18:51.133**	**125DF4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**4,499,685:84:0**	
899	98	151	21:19:51.800	125DF11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	4,499,686:84:0	
900	**98**	**151**	**21:19:51.800**	**125DF4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**4,499,686:84:0**	
901	98	151	21:19:53.800	428JP6A	6RCCLR			3R0	4	0	4,499,686:87:0	
902	98	151	21:19:54.466	428JP6B	6RCSET	12		3R0	4	0	4,499,686:88:0	
903	98	151	21:21:48.466	117DF	**CSMOS**	GS	***** GROUP START CSMOS	3R0	4	0	4,499,688:77:0	
904	98	151	21:21:49.133	175DF422A6A	6DMSC	R28,3	DMS Control	3R0	4	0	4,499,688:78:0	
905	98	151	21:21:49.133		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4755.33 +/- 3	3R0	4	0	4,499,688:78:0	
906	98	151	21:21:50.333		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *4755.39 +/- 3	3R0	4	0	4,499,688:79:8	
907	98	151	21:21:53.133	127DF	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	4,499,688:84:0	
908	**98**	**151**	**21:21:53.133**	**127DF4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**4,499,688:84:0**	
909	**98**	**151**	**21:21:53.800**	**33B4A**	**37IOP**	**4,0**	**Long Spectrometer, Grating Start Position**	**3R4**	**4**	**0**	**4,499,688:85:0**	
910	**98**	**151**	**21:21:53.800**	**127DF4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R4**	**4**	**0**	**4,499,688:85:0**	
911	98	151	21:21:54.333		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4756.89 +/- 3	3R4	4	0	4,499,688:85:8	
912	98	151	21:21:54.333		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 4756.89 +/- 3	3R4	4	0	4,499,688:85:8	
913	98	151	21:21:54.466	175DF176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R4	4	0	4,499,688:86:0	
914	98	151	21:21:56.466	165DF4B	7VECT		Inert vect update UTC	3R4	4	0	4,499,688:89:0	
915	**98**	**151**	**21:21:57.800**	**15ENSUCOMP01-**	**NIMPBK**	**301DF**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
916	98	151	21:21:57.800	117DF105A106A4A	**7STRP**	**-0.034514,0.0,0,**	**Slew =,0.03**	3R4	4	0	4,499,689:00:0	
917	98	151	21:22:01.800	127DF11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R4	4	0	4,499,689:06:0	
918	**98**	**151**	**21:22:12.466**	**15ENSUCOMP01-**	**NIMPBK**	**301DA**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
919	**98**	**151**	**21:22:21.800**	**15ENSUCOMP01-**	**DESELC**	**300DA**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
920	**98**	**151**	**21:24:22.466**	**15ENSUCOMP01-**	**NIMPBK**	**301DB**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
921	**98**	**151**	**21:24:45.133**	**15ENSUCOMP01-**	**DESELC**	**300DB**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
922	98	151	21:30:02.466	428JQ6A	6RCCLR			3R4	4	0	4,499,696:90:0	
923	98	151	21:30:03.133	428JQ6B	6RCSET	8		3R4	4	0	4,499,697:00:0	
924	**98**	**151**	**21:31:29.800**	**15ENSUCOMP01-**	**NIMPBK**	**301EF**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
925	**98**	**151**	**21:31:32.466**	**15ENSUCOMP01-**	**DESELC**	**300DF**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
926	**98**	**151**	**21:41:04.466**	**15ENSUCOMP01-**	**DESELC**	**300EF**	**EUROPA CILIX REGION OBSERVATION**	**3R4**	**4**	**0**	**: :**	
927	98	151	21:41:10.466	117DF11A	**CSMOS**	GE	***** GROUP END CSMOS	3R4	4	0	4,499,708:00:0	
928	98	151	21:41:10.466		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *5773.03 +/- 3	3R4	4	0	4,499,708:00:0	
929	98	151	21:41:10.466	175TI422A6A	6DMSC	R7,3	DMS Control	3R4	4	0	4,499,708:00:0	
930	98	151	21:41:11.666		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5773.33 +/- 3	3R4	4	0	4,499,708:01:8	
931	98	151	21:41:13.066		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *5773.45 +/- 3	3R4	4	0	4,499,708:03:9	
932	98	151	21:41:13.066		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5773.45 +/- 3	3R4	4	0	4,499,708:03:9	
933	98	151	21:41:13.133	175TI176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R4	4	0	4,499,708:04:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	**98**	**151**	**21:42:07.796**	**15NNSUCOMP02-**		**-----START------**		**3R4**	**4**	**0**	**: :**	
935	**98**	**151**	**21:42:07.796**	**15ENSUCOMP01-**		**-----STOP-------**		**3R4**	**4**	**0**	**: :**	
936	98	151	21:42:11.133	428JR6A	6RCCLR			3R4	4	0	4,499,709:00:0	
937	98	151	21:43:09.800	432MA431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	3R4	4	0	4,499,709:88:0	
938	98	151	21:43:10.466	432MA6A	6RTSL1		R/T Select of DDS and	3R4	4	0	4,499,709:89:0	
939	98	151	21:43:13.800	175TI422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R4	4	0	4,499,710:03:0	
940	98	151	21:43:13.800	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3R4	4	0	4,499,710:03:0	
941	98	151	21:43:13.800		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *5801.74 +/- 3	3R4	4	0	4,499,710:03:0	
942	98	151	21:43:14.466	432OA6A	6RTSL1		R/T Select of DDS and	3R4	4	0	4,499,710:04:0	
943	98	151	21:43:15.000		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5801.80 +/- 3	3R4	4	0	4,499,710:04:8	
944	98	151	21:43:17.800	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R4	4	0	4,499,710:09:0	
945	**98**	**151**	**21:43:57.800**	**20DG5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R4**	**4**	**0**	**4,499,710:69:0**	
946	**98**	**151**	**21:44:05.133**	**20DG5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R4**	**4**	**0**	**4,499,710:80:0**	
947	**98**	**151**	**21:44:06.466**	**20DG6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R4**	**4**	**0**	**4,499,710:82:0**	
948	98	151	21:44:06.466	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	3R4	4	0	4,499,710:82:0	
949	98	151	21:44:07.133	282NB432A6A	6RTSL1		R/T Select of DDS and	3R4	4	0	4,499,710:83:0	
950	**98**	**151**	**21:44:16.466**	**20DG6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R4**	**4**	**0**	**4,499,711:06:0**	
951	**98**	**151**	**21:44:26.466**	**20DG5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,711:21:0**	
952	**98**	**151**	**21:44:27.800**	**20DG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,711:23:0**	
953	**98**	**151**	**21:45:05.800**	**20DG4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,711:80:0**	
954	**98**	**151**	**21:46:10.462**	**15ENSUCOMP02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
955	**98**	**151**	**21:46:10.462**	**15NNSUCOMP02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
956	98	151	21:46:13.133	165DG4A	**7SCAN**	**NORM,78.801,24.5**	**Check S/P Position**	2R0	4	0	4,499,712:90:0	
957	98	151	21:46:13.800	465KD6A	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	4,499,713:00:0	
958	98	151	21:46:13.800		DMS:	: READY	RDY, TRACK *4, *REV, TIC 5801.80 +/- 3	2R0	4	0	4,499,713:00:0	
959	**98**	**151**	**21:47:09.800**	**125DG4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**4,499,713:84:0**	
960	98	151	21:47:09.800	125DG	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	4,499,713:84:0	
961	98	151	21:48:10.466	125DG11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	4,499,714:84:0	
962	**98**	**151**	**21:48:10.466**	**125DG4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**4,499,714:84:0**	
963	98	151	21:50:01.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5801.80 +/- 3	3R0	4	0	4,499,716:69:0	
964	98	151	21:50:01.800	175DG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R0	4	0	4,499,716:69:0	
965	98	151	21:50:03.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5801.92 +/- 3	3R0	4	0	4,499,716:71:1	
966	98	151	21:50:07.133	117DG	**CSMOS**	GS	***** GROUP START CSMOS	3R0	4	0	4,499,716:77:0	
967	98	151	21:50:08.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5803.16 +/- 3	3R0	4	0	4,499,716:79:0	
968	98	151	21:50:09.666		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5803.22 +/- 3	3R0	4	0	4,499,716:80:8	
969	**98**	**151**	**21:50:11.800**	**127DG4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**4,499,716:84:0**	
970	98	151	21:50:11.800	127DG	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,499,716:84:0	
971	**98**	**151**	**21:50:12.466**	**127DG4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,499,716:85:0**	
972	98	151	21:50:13.133	175DG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	4,499,716:86:0	
973	98	151	21:50:13.666		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 5801.72 +/- 3	3R3	4	0	4,499,716:86:8	
974	98	151	21:50:13.666		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *5801.72 +/- 3	3R3	4	0	4,499,716:86:8	
975	98	151	21:50:15.133	165DG4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,716:89:0	
976	98	151	21:50:16.466	117DG105A106A4A	**7STRP**	**0.018502,0.0,0,0**	**Slew =,0.03**	3R3	4	0	4,499,717:00:0	
977	**98**	**151**	**21:50:16.466**	**15ENSUCOMP02-**	**NIMPBK**	**301DG**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
978	98	151	21:50:20.466	127DG11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,499,717:06:0	
979	**98**	**151**	**21:53:15.800**	**15ENSUCOMP02-**	**NIMPBK**	**301DC**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
980	**98**	**151**	**21:53:46.466**	**15ENSUCOMP02-**	**DESELC**	**300DC**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
981	**98**	**151**	**21:58:27.800**	**15ENSUCOMP02-**	**NIMPBK**	**301DI**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
982	**98**	**151**	**21:58:35.133**	**15ENSUCOMP02-**	**DESELC**	**300DI**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
983	**98**	**151**	**21:58:45.133**	**15ENSUCOMP02-**	**NIMPBK**	**301DQ**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
984	**98**	**151**	**21:59:00.466**	**15ENSUCOMP02-**	**DESELC**	**300DQ**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
985	98	151	21:59:59.800	481UA4A	7VECT	BB2	Inert vect update UTC	3R3	4	0	4,499,726:56:0	
986	**98**	**151**	**22:00:23.133**	**15ENSUCOMP02-**	**NIMPBK**	**301DG**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
987	**98**	**151**	**22:00:30.133**	**15ENSUCOMP02-**	**NIMPBK**	**301FB**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
988	**98**	**151**	**22:00:31.800**	**15ENSUCOMP02-**	**DESELC**	**300DG**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	151	22:00:37.800	117DG105A106A4B	**7STRP**	**-0.018502,0.007,**	**Slew =12.01**	3R3	4	0	4,499,727:22:0	
990	98	151	22:00:48.466	117DG105A106A4C	**7STRP**	**0.018502,0.0,0,0**	**Slew =,0.03**	3R3	4	0	4,499,727:38:0	
991	**98**	**151**	**22:00:57.800**	**15ENSUCOMP02-**	**NIMPBK**	**301EG**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
992	**98**	**151**	**22:01:07.000**	**15ENSUCOMP02-**	**DESELC**	**300FB**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
993	**98**	**151**	**22:01:09.800**	**15ENSUCOMP02-**	**DESELC**	**300DG**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
994	**98**	**151**	**22:02:33.133**	**15ENSUCOMP02-**	**NIMPBK**	**301ES**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
995	**98**	**151**	**22:05:17.800**	**15ENSUCOMP02-**	**DESELC**	**300ES**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
996	**98**	**151**	**22:07:48.000**	**15ENSUCOMP02-**	**NIMPBK**	**301FC**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
997	**98**	**151**	**22:07:59.133**	**15ENSUCOMP02-**	**DESELC**	**300EG**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
998	**98**	**151**	**22:07:59.133**	**15ENSUCOMP02-**	**NIMPBK**	**301EQ**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
999	**98**	**151**	**22:08:18.000**	**15ENSUCOMP02-**	**DESELC**	**300FC**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
1000	**98**	**151**	**22:09:26.466**	**15ENSUCOMP02-**	**DESELC**	**300EQ**	**EUROPA ROUGH TERRAIN**	**3R3**	**4**	**0**	**: :**	
1001	98	151	22:09:27.133		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *4787.93 +/- 3	3R3	4	0	4,499,735:88:0	
1002	98	151	22:09:27.133	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,735:88:0	
1003	98	151	22:09:28.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4787.63 +/- 3	3R3	4	0	4,499,735:89:8	
1004	98	151	22:11:09.800	117DG11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,499,737:60:0	
1005	**98**	**151**	**22:11:27.129**	**15NNSUCOMP03-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1006	**98**	**151**	**22:11:27.129**	**15ENSUCOMP02-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1007	98	151	22:13:31.133	165IH4A	7SCAN	NORM,82.304999,2	Check S/P Position	3R3	4	0	4,499,739:90:0	
1008	**98**	**151**	**22:14:17.800**	**20DH5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,499,740:69:0**	
1009	**98**	**151**	**22:14:25.133**	**20DH5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,499,740:80:0**	
1010	**98**	**151**	**22:14:26.466**	**20DH6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,499,740:82:0**	
1011	**98**	**151**	**22:14:36.466**	**20DH6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,499,741:06:0**	
1012	**98**	**151**	**22:14:46.466**	**20DH5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,741:21:0**	
1013	**98**	**151**	**22:14:47.800**	**20DH5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,741:23:0**	
1014	98	151	22:15:21.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4787.63 +/- 3	260	4	0	4,499,741:74:0	
1015	98	151	22:15:21.800	175IP422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	260	4	0	4,499,741:74:0	
1016	98	151	22:15:23.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4787.75 +/- 3	260	4	0	4,499,741:76:1	
1017	98	151	22:15:25.133	118IH	**SMOS**	GS		260	4	0	4,499,741:79:0	
1018	**98**	**151**	**22:15:25.800**	**20DH4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,741:80:0**	
1019	98	151	22:15:28.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4788.98 +/- 3	2R0	4	0	4,499,741:84:0	
1020	98	151	22:15:29.666		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4789.04 +/- 3	2R0	4	0	4,499,741:85:8	
1021	98	151	22:15:31.800	165IH4B	7VECT		Inert vect update UTC	2R0	4	0	4,499,741:89:0	
1022	98	151	22:15:34.466	175IP176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	4,499,742:02:0	
1023	98	151	22:15:34.933		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4723.04 +/- 3	2R0	4	0	4,499,742:02:7	
1024	98	151	22:15:34.933		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *4723.04 +/- 3	2R0	4	0	4,499,742:02:7	
1025	98	151	22:15:35.133	118IH110A111A4A	7STRP	-0.0073,0.0,26,0	Slew =,3.01	2R0	4	0	4,499,742:03:0	
1026	98	151	22:15:43.800	118IH110A111A4B	7STRP	0.0071,-0.0073,0	Slew =,3.01	2R0	4	0	4,499,742:16:0	
1027	98	151	22:15:52.466	118IH110A111A4C	7STRP	-0.0073,0.0,26,0	Slew =,3.01	2R0	4	0	4,499,742:29:0	
1028	98	151	22:16:01.133	118IH110A111B4A	7STRP	0.0073,-0.0073,0	Slew =,3.01	2R0	4	0	4,499,742:42:0	
1029	98	151	22:16:09.800	118IH110A111B4B	7STRP	-0.0073,0.0,26,0	Slew =,3.01	2R0	4	0	4,499,742:55:0	
1030	98	151	22:16:18.466	118IH110A111B4C	7STRP	0.0073,-0.0073,0	Slew =,3.01	2R0	4	0	4,499,742:68:0	
1031	98	151	22:16:27.133	118IH110A111B4D	7STRP	-0.0073,0.0,26,0	Slew =,3.01	2R0	4	0	4,499,742:81:0	
1032	98	151	22:16:29.133	125DH	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,499,742:84:0	
1033	**98**	**151**	**22:16:29.133**	**125DH4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,499,742:84:0**	
1034	**98**	**151**	**22:16:30.462**	**15ENSUCOMP03-**		**-----START------**		**4R0**	**4**	**0**	**: :**	
1035	**98**	**151**	**22:16:30.462**	**15NNSUCOMP03-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**	
1036	98	151	22:16:35.800	118IH110A111C4A	7STRP	0.0076,-0.0073,0	Slew =,3.01	4R0	4	0	4,499,743:03:0	
1037	98	151	22:16:44.466	118IH110A111C4B	7STRP	-0.0073,0.0,26,0	Slew =,3.01	4R0	4	0	4,499,743:16:0	
1038	98	151	22:16:53.133	118IH110A111D4A	7STRP	0.0078,-0.0073,0	Slew =,3.01	4R0	4	0	4,499,743:29:0	
1039	98	151	22:17:01.800	118IH110A111D4B	7STRP	-0.0073,0.0,26,0	Slew =,3.01	4R0	4	0	4,499,743:42:0	
1040	98	151	22:17:10.466	118IH110A111E4A	7STRP	0.0092,-0.0071,0	Slew =,3.01	4R0	4	0	4,499,743:55:0	
1041	98	151	22:17:19.133	118IH110A111E4B	7STRP	-0.0073,0.0,26,0	Slew =,3.01	4R0	4	0	4,499,743:68:0	
1042	98	151	22:17:27.800	118IH110A111F4A	7STRP	0.0084,-0.0073,0	Slew =,3.01	4R0	4	0	4,499,743:81:0	
1043	**98**	**151**	**22:17:29.800**	**125DH4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,499,743:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	98	151	22:17:29.800	125DH11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,499,743:84:0	
1045	98	151	22:17:36.466	118IH110A111F4B	7STRP	-0.0073,0.0,26,0	Slew =,3.01	4R0	4	0	4,499,744:03:0	
1046	98	151	22:17:45.133	118IH11A	**SMOS**	GE		4R0	4	0	4,499,744:16:0	
1047	98	151	22:17:45.133	116IH4A	7STRP	0.0091,-0.0071,0	Slew =0,5.0	4R0	4	0	4,499,744:16:0	
1048	98	151	22:17:53.800	116IT4A	7STRP	-0.017502,0.0200	Slew =,6.01	4R0	4	0	4,499,744:29:0	
1049	98	151	22:18:08.466	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	4	0	4,499,744:51:0	
1050	98	151	22:18:08.466		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC * 944.68 +/- 3	4R0	4	0	4,499,744:51:0	
1051	98	151	22:18:11.200		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 933.18 +/- 3	4R0	4	0	4,499,744:55:1	
1052	98	151	22:18:34.466	165DH4A	**7SCAN**	**NORM,84.143,23.3**	**Check S/P Position**	4R0	4	0	4,499,744:90:0	
1053	**98**	**151**	**22:19:31.133**	**127DH4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,499,745:84:0**	
1054	98	151	22:19:31.133	127DH	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,499,745:84:0	
1055	**98**	**151**	**22:19:31.800**	**127DH4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,499,745:85:0**	
1056	98	151	22:19:39.800	127DH11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,499,746:06:0	
1057	98	151	22:22:23.133	175DH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R3	4	0	4,499,748:69:0	
1058	98	151	22:22:23.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 933.18 +/- 3	4R3	4	0	4,499,748:69:0	
1059	98	151	22:22:24.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 933.30 +/- 3	4R3	4	0	4,499,748:71:1	
1060	98	151	22:22:28.466	117DH	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,499,748:77:0	
1061	98	151	22:22:29.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 934.54 +/- 3	4R3	4	0	4,499,748:79:0	
1062	98	151	22:22:31.000		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC * 934.60 +/- 3	4R3	4	0	4,499,748:80:8	
1063	98	151	22:22:34.466	175DH176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,499,748:86:0	
1064	98	151	22:22:35.000		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 933.10 +/- 3	4R3	4	0	4,499,748:86:8	
1065	98	151	22:22:35.000		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC * 933.10 +/- 3	4R3	4	0	4,499,748:86:8	
1066	98	151	22:22:36.466	165DH4B	7VECT		Inert vect update UTC	4R3	4	0	4,499,748:89:0	
1067	**98**	**151**	**22:22:37.800**	**15ENSUCOMP03-**	**NIMPBK**	**301EH**	**EUROPA SURFACE TRANSECT**	**4R3**	**4**	**0**	**: :**	
1068	98	151	22:22:37.800	117DH105A106A4A	**7STRP**	**-0.018102,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,499,749:00:0	
1069	**98**	**151**	**22:22:37.800**	**15ENSUCOMP03-**	**NIMPBK**	**301DH**	**EUROPA SURFACE TRANSECT**	**4R3**	**4**	**0**	**: :**	
1070	**98**	**151**	**22:26:53.133**	**15ENSUCOMP03-**	**NIMPBK**	**301EH**	**EUROPA SURFACE TRANSECT**	**4R3**	**4**	**0**	**: :**	
1071	**98**	**151**	**22:27:01.800**	**15ENSUCOMP03-**	**DESELC**	**300DH**	**EUROPA SURFACE TRANSECT**	**4R3**	**4**	**0**	**: :**	
1072	98	151	22:27:36.466	125FH	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,499,753:84:0	
1073	98	151	22:27:36.466	125FH11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,499,753:84:0	
1074	**98**	**151**	**22:27:36.466**	**125FH4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,499,753:84:0**	
1075	**98**	**151**	**22:32:35.800**	**15ENSUCOMP03-**	**DESELC**	**300EH**	**EUROPA SURFACE TRANSECT**	**3R3**	**4**	**0**	**: :**	
1076	**98**	**151**	**22:32:35.800**	**15ENSUCOMP03-**	**DESELC**	**300EH**	**EUROPA SURFACE TRANSECT**	**3R3**	**4**	**0**	**: :**	
1077	98	151	22:32:44.466	117DH11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,499,759:00:0	
1078	98	151	22:32:45.133	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,759:01:0	
1079	98	151	22:32:45.133		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC * 396.85 +/- 3	3R3	4	0	4,499,759:01:0	
1080	98	151	22:32:46.333		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 396.55 +/- 3	3R3	4	0	4,499,759:02:8	
1081	98	151	22:32:48.466	444UB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	3R3	4	0	4,499,759:06:0	
1082	**98**	**151**	**22:33:41.796**	**15ENSUCOMP03-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1083	98	151	22:39:48.466	165GD4A	7SCAN	NORM,84.412999,2	Check S/P Position	3R3	4	0	4,499,765:90:0	
1084	98	151	22:39:49.133	176GD6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,499,766:00:0	
1085	98	151	22:40:40.466	117GD	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,499,766:77:0	
1086	98	151	22:40:48.466	165GD4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,766:89:0	
1087	98	151	22:40:49.800	117GD105A106A4A	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,767:00:0	
1088	98	151	22:42:03.133	117GD105A106A4B	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,768:19:0	
1089	98	151	22:42:12.466	117GD105A106A4C	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,768:33:0	
1090	98	151	22:43:25.800	117GD105A106A4D	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,769:52:0	
1091	98	151	22:43:35.133	117GD105A106A4E	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,769:66:0	
1092	98	151	22:44:48.466	117GD105A106A4F	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,770:85:0	
1093	98	151	22:44:57.800	117GD105A106A4G	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,771:08:0	
1094	98	151	22:46:11.133	117GD105A106A4H	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,772:27:0	
1095	98	151	22:46:20.466	117GD105A106A4I	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,772:41:0	
1096	98	151	22:47:33.800	117GD105A106A4J	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,773:60:0	
1097	98	151	22:47:43.133	117GD105A106A4K	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,773:74:0	
1098	98	151	22:48:56.466	117GD105A106A4L	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,775:02:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1099	98	151	22:49:05.800	117GD105A106A4M	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,775	16:0
1100	98	151	22:50:19.133	117GD105A106A4N	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,776	35:0
1101	98	151	22:50:28.466	117GD105A106A4O	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,776	49:0
1102	98	151	22:51:41.800	117GD105A106A4P	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,777	68:0
1103	98	151	22:51:51.133	117GD105A106A4Q	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,777	82:0
1104	98	151	22:52:23.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 396.55 +/- 3	3R3	4	0	4,499,778	40:0
1105	98	151	22:52:23.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,778	40:0
1106	98	151	22:52:25.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 396.67 +/- 3	3R3	4	0	4,499,778	42:1
1107	98	151	22:52:30.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 397.90 +/- 3	3R3	4	0	4,499,778	50:0
1108	98	151	22:52:31.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 397.96 +/- 3	3R3	4	0	4,499,778	51:8
1109	98	151	22:52:33.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 397.84 +/- 3	3R3	4	0	4,499,778	53:9
1110	98	151	22:52:49.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 394.08 +/- 3	3R3	4	0	4,499,778	78:0
1111	98	151	22:53:04.466	117GD105A106A4R	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,779	10:0
1112	98	151	22:53:11.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 388.76 +/- 3	3R3	4	0	4,499,779	21:0
1113	98	151	22:53:11.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,779	21:0
1114	98	151	22:53:13.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 388.70 +/- 3	3R3	4	0	4,499,779	22:8
1115	98	151	22:53:13.800	117GD105A106A4S	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,779	24:0
1116	98	151	22:54:27.133	117GD105A106A4T	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,780	43:0
1117	98	151	22:54:36.466	117GD105A106A4U	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,780	57:0
1118	98	151	22:55:49.800	117GD105A106A4V	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,781	76:0
1119	98	151	22:55:59.133	117GD105A106A4W	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,781	90:0
1120	98	151	22:57:12.466	117GD105A106A4X	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,783	18:0
1121	98	151	22:57:21.800	117GD105A106A4Y	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,783	32:0
1122	98	151	22:58:35.133	117GD105A106A4Z	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,784	51:0
1123	98	151	22:58:44.466	117GD105A106A4AA	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,784	65:0
1124	98	151	22:59:57.800	117GD105A106A4AB	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,785	84:0
1125	98	151	23:00:07.133	117GD105A106A4AC	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,786	07:0
1126	98	151	23:01:20.466	117GD105A106A4AD	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,787	26:0
1127	98	151	23:01:29.800	117GD105A106A4AE	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,787	40:0
1128	98	151	23:02:43.133	117GD105A106A4AF	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,788	59:0
1129	98	151	23:02:52.466	117GD105A106A4AG	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,788	73:0
1130	98	151	23:04:05.800	117GD105A106A4AH	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,790	01:0
1131	98	151	23:04:15.133	117GD105A106A4AI	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,790	15:0
1132	98	151	23:05:25.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,791	30:0
1133	98	151	23:05:25.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 388.70 +/- 3	3R3	4	0	4,499,791	30:0
1134	98	151	23:05:27.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 388.82 +/- 3	3R3	4	0	4,499,791	32:1
1135	98	151	23:05:28.466	117GD105A106A4AJ	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,791	34:0
1136	98	151	23:05:32.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 390.06 +/- 3	3R3	4	0	4,499,791	40:0
1137	98	151	23:05:33.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 390.12 +/- 3	3R3	4	0	4,499,791	41:8
1138	98	151	23:05:35.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 390.00 +/- 3	3R3	4	0	4,499,791	43:9
1139	98	151	23:05:37.800	117GD105A106A4AK	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,791	48:0
1140	98	151	23:05:51.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 386.23 +/- 3	3R3	4	0	4,499,791	68:0
1141	98	151	23:06:13.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 380.92 +/- 3	3R3	4	0	4,499,792	11:0
1142	98	151	23:06:13.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,792	11:0
1143	98	151	23:06:15.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 380.86 +/- 3	3R3	4	0	4,499,792	12:8
1144	98	151	23:06:51.133	117GD105A106A4AL	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,792	67:0
1145	98	151	23:07:00.466	117GD105A106A4AM	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,792	81:0
1146	98	151	23:08:13.800	117GD105A106A4AN	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,794	09:0
1147	98	151	23:08:23.133	117GD105A106A4AO	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,794	23:0
1148	98	151	23:09:36.466	117GD105A106A4AP	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,795	42:0
1149	98	151	23:09:45.800	117GD105A106A4AQ	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,795	56:0
1150	98	151	23:10:59.133	117GD105A106A4AR	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,796	75:0
1151	98	151	23:11:08.466	117GD105A106A4AS	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,796	89:0
1152	98	151	23:12:21.800	117GD105A106A4AT	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,798	17:0
1153	98	151	23:12:31.133	117GD105A106A4AU	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,798	31:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1154	98	151	23:13:44.466	117GD105A106A4AV	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,799	50:0
1155	98	151	23:13:53.800	117GD105A106A4AW	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,799	64:0
1156	98	151	23:15:07.133	117GD105A106A4AX	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,800	83:0
1157	98	151	23:15:16.466	117GD105A106A4AY	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,801	06:0
1158	98	151	23:16:29.800	117GD105A106A4AZ	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,802	25:0
1159	98	151	23:16:39.133	117GD105A106A4BA	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,802	39:0
1160	98	151	23:17:52.466	117GD105A106A4BB	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,803	58:0
1161	98	151	23:18:01.800	117GD105A106A4BC	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,803	72:0
1162	98	151	23:18:27.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 380.86 +/- 3	3R3	4	0	4,499,804	20:0
1163	98	151	23:18:27.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,804	20:0
1164	98	151	23:18:29.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 380.98 +/- 3	3R3	4	0	4,499,804	22:1
1165	98	151	23:18:34.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 382.22 +/- 3	3R3	4	0	4,499,804	30:0
1166	98	151	23:18:35.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 382.28 +/- 3	3R3	4	0	4,499,804	31:8
1167	98	151	23:18:37.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 382.16 +/- 3	3R3	4	0	4,499,804	33:9
1168	98	151	23:18:53.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 378.39 +/- 3	3R3	4	0	4,499,804	58:0
1169	98	151	23:19:15.133	117GD105A106A4BD	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,805	00:0
1170	98	151	23:19:15.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 373.08 +/- 3	3R3	4	0	4,499,805	01:0
1171	98	151	23:19:15.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,805	01:0
1172	98	151	23:19:17.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 373.02 +/- 3	3R3	4	0	4,499,805	02:8
1173	98	151	23:19:24.466	117GD105A106A4BE	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,805	14:0
1174	98	151	23:20:37.800	117GD105A106A4BF	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,806	33:0
1175	98	151	23:20:47.133	117GD105A106A4BG	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,806	47:0
1176	98	151	23:22:00.466	117GD105A106A4BH	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,807	66:0
1177	98	151	23:22:09.800	117GD105A106A4BI	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,807	80:0
1178	98	151	23:23:23.133	117GD105A106A4BJ	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,809	08:0
1179	98	151	23:23:32.466	117GD105A106A4BK	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,809	22:0
1180	98	151	23:24:45.800	117GD105A106A4BL	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,810	41:0
1181	98	151	23:24:55.133	117GD105A106A4BM	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,810	55:0
1182	98	151	23:26:08.466	117GD105A106A4BN	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,811	74:0
1183	98	151	23:26:17.800	117GD105A106A4BO	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,811	88:0
1184	98	151	23:27:31.133	117GD105A106A4BP	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,813	16:0
1185	98	151	23:27:40.466	117GD105A106A4BQ	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,813	30:0
1186	98	151	23:28:53.800	117GD105A106A4BR	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,814	49:0
1187	98	151	23:29:03.133	117GD105A106A4BS	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,814	63:0
1188	98	151	23:30:16.466	117GD105A106A4BT	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,815	82:0
1189	98	151	23:30:25.800	117GD105A106A4BU	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,816	05:0
1190	98	151	23:31:30.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 373.02 +/- 3	3R3	4	0	4,499,817	11:0
1191	98	151	23:31:30.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,817	11:0
1192	98	151	23:31:31.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 373.14 +/- 3	3R3	4	0	4,499,817	13:1
1193	98	151	23:31:37.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 374.37 +/- 3	3R3	4	0	4,499,817	21:0
1194	98	151	23:31:38.333		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 374.43 +/- 3	3R3	4	0	4,499,817	22:8
1195	98	151	23:31:39.133	117GD105A106A4BV	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,817	24:0
1196	98	151	23:31:39.733		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 374.31 +/- 3	3R3	4	0	4,499,817	24:9
1197	98	151	23:31:48.466	117GD105A106A4BW	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,817	38:0
1198	98	151	23:31:55.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 370.70 +/- 3	3R3	4	0	4,499,817	48:0
1199	98	151	23:32:17.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,817	82:0
1200	98	151	23:32:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 365.39 +/- 3	3R3	4	0	4,499,817	82:0
1201	98	151	23:32:19.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 365.33 +/- 3	3R3	4	0	4,499,817	83:8
1202	98	151	23:33:01.800	117GD105A106A4BX	7STRP	0.00006,0.0011,0	Slew =12.01	3R3	4	0	4,499,818	57:0
1203	98	151	23:33:11.133	117GD105A106A4BY	7STRP	0.043027,0.0,0,0	Slew =,0.61	3R3	4	0	4,499,818	71:0
1204	98	151	23:34:24.466	117GD105A106B4A	7STRP	0.01,0.01,0,0,0,	Slew =12.01	3R3	4	0	4,499,819	90:0
1205	98	151	23:34:37.800	117GD105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.61	3R3	4	0	4,499,820	19:0
1206	98	151	23:35:38.466	117GD11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,499,821	19:0
1207	98	151	23:36:26.466	176GD6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,499,822	00:0
1208	98	151	23:36:28.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,822	03:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1209	98	151	23:36:28.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 365.33 +/- 3	3R3	4	0	4,499,822	03:0
1210	98	151	23:36:29.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 365.45 +/- 3	3R3	4	0	4,499,822	05:1
1211	98	151	23:36:35.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 366.68 +/- 3	3R3	4	0	4,499,822	13:0
1212	98	151	23:36:36.333		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 366.74 +/- 3	3R3	4	0	4,499,822	14:8
1213	98	151	23:36:37.733		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 366.62 +/- 3	3R3	4	0	4,499,822	16:9
1214	98	151	23:36:38.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 366.45 +/- 3	3R3	4	0	4,499,822	18:0
1215	98	151	23:36:52.466		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 363.17 +/- 3	3R3	4	0	4,499,822	39:0
1216	98	151	23:36:52.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,822	39:0
1217	98	151	23:36:53.666		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 363.11 +/- 3	3R3	4	0	4,499,822	40:8
1218	98	151	23:40:28.466	165GE4A	7SCAN	NORM,87.421,22.9	Check S/P Position	3R3	4	0	4,499,825	90:0
1219	98	151	23:40:29.133	176GE6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,499,826	00:0
1220	98	151	23:41:20.466	117GE	**CSMOS**	GS	***** GROUP START CSMOS	3R3	4	0	4,499,826	77:0
1221	98	151	23:41:28.466	165GE4B	7VECT		Inert vect update UTC	3R3	4	0	4,499,826	89:0
1222	98	151	23:41:29.800	117GE105A106A4A	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,827	00:0
1223	98	151	23:41:53.800	117GE105A106A4B	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,827	36:0
1224	98	151	23:42:03.133	117GE105A106A4C	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,827	50:0
1225	98	151	23:42:27.133	117GE105A106A4D	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,827	86:0
1226	98	151	23:42:36.466	117GE105A106A4E	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,828	09:0
1227	98	151	23:43:00.466	117GE105A106A4F	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,828	45:0
1228	98	151	23:43:09.800	117GE105A106A4G	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,828	59:0
1229	98	151	23:43:33.800	117GE105A106A4H	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,829	04:0
1230	98	151	23:43:43.133	117GE105A106A4I	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,829	18:0
1231	98	151	23:44:07.133	117GE105A106A4J	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,829	54:0
1232	98	151	23:44:16.466	117GE105A106A4K	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,829	68:0
1233	98	151	23:44:40.466	117GE105A106A4L	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,830	13:0
1234	98	151	23:44:49.800	117GE105A106A4M	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,830	27:0
1235	98	151	23:45:13.800	117GE105A106A4N	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,830	63:0
1236	98	151	23:45:23.133	117GE105A106A4O	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,830	77:0
1237	98	151	23:45:47.133	117GE105A106A4P	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,831	22:0
1238	98	151	23:45:56.466	117GE105A106A4Q	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,831	36:0
1239	98	151	23:46:20.466	117GE105A106A4R	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,831	72:0
1240	98	151	23:46:29.800	117GE105A106A4S	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,831	86:0
1241	98	151	23:46:53.800	117GE105A106A4T	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,832	31:0
1242	98	151	23:47:03.133	117GE105A106A4U	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,832	45:0
1243	98	151	23:47:27.133	117GE105A106A4V	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,832	81:0
1244	98	151	23:47:36.466	117GE105A106A4W	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,833	04:0
1245	98	151	23:48:00.466	117GE105A106A4X	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,833	40:0
1246	98	151	23:48:09.800	117GE105A106A4Y	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,833	54:0
1247	98	151	23:48:33.800	117GE105A106A4Z	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,833	90:0
1248	98	151	23:48:43.133	117GE105A106A4AA	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,834	13:0
1249	98	151	23:49:07.133	117GE105A106A4AB	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,834	49:0
1250	98	151	23:49:16.466	117GE105A106A4AC	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,834	63:0
1251	98	151	23:49:40.466	117GE105A106A4AD	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,835	08:0
1252	98	151	23:49:49.800	117GE105A106A4AE	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,835	22:0
1253	98	151	23:50:13.800	117GE105A106A4AF	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,835	58:0
1254	98	151	23:50:23.133	117GE105A106A4AG	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,835	72:0
1255	98	151	23:50:47.133	117GE105A106A4AH	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,836	17:0
1256	98	151	23:50:56.466	117GE105A106A4AI	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,836	31:0
1257	98	151	23:51:20.466	117GE105A106A4AJ	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,836	67:0
1258	98	151	23:51:29.800	117GE105A106A4AK	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,836	81:0
1259	98	151	23:51:53.800	117GE105A106A4AL	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,837	26:0
1260	98	151	23:52:03.133	117GE105A106A4AM	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,837	40:0
1261	98	151	23:52:27.133	117GE105A106A4AN	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,837	76:0
1262	98	151	23:52:36.466	117GE105A106A4AO	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,837	90:0
1263	98	151	23:53:00.466	117GE105A106A4AP	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,838	35:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1264	98	151	23:53:03.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 363.11 +/- 3	3R3	4	0	4,499,838	40:0
1265	98	151	23:53:03.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,838	40:0
1266	98	151	23:53:05.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 363.23 +/- 3	3R3	4	0	4,499,838	42:1
1267	98	151	23:53:09.800	117GE105A106A4AQ	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,838	49:0
1268	98	151	23:53:10.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 364.47 +/- 3	3R3	4	0	4,499,838	50:0
1269	98	151	23:53:11.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 364.53 +/- 3	3R3	4	0	4,499,838	51:8
1270	98	151	23:53:13.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 364.41 +/- 3	3R3	4	0	4,499,838	53:9
1271	98	151	23:53:29.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 360.64 +/- 3	3R3	4	0	4,499,838	78:0
1272	98	151	23:53:33.800	117GE105A106A4AR	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,838	85:0
1273	98	151	23:53:43.133	117GE105A106A4AS	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,839	08:0
1274	98	151	23:53:51.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,839	21:0
1275	98	151	23:53:51.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 355.33 +/- 3	3R3	4	0	4,499,839	21:0
1276	98	151	23:53:53.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 355.27 +/- 3	3R3	4	0	4,499,839	22:8
1277	98	151	23:54:07.133	117GE105A106A4AT	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,839	44:0
1278	98	151	23:54:16.466	117GE105A106A4AU	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,839	58:0
1279	98	151	23:54:40.466	117GE105A106A4AV	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,840	03:0
1280	98	151	23:54:49.800	117GE105A106A4AW	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,840	17:0
1281	98	151	23:55:13.800	117GE105A106A4AX	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,840	53:0
1282	98	151	23:55:23.133	117GE105A106A4AY	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,840	67:0
1283	98	151	23:55:47.133	117GE105A106A4AZ	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,841	12:0
1284	98	151	23:55:56.466	117GE105A106A4BA	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,841	26:0
1285	98	151	23:56:20.466	117GE105A106A4BB	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,841	62:0
1286	98	151	23:56:29.800	117GE105A106A4BC	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,841	76:0
1287	98	151	23:56:53.800	117GE105A106A4BD	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,842	21:0
1288	98	151	23:57:03.133	117GE105A106A4BE	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,842	35:0
1289	98	151	23:57:27.133	117GE105A106A4BF	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,842	71:0
1290	98	151	23:57:36.466	117GE105A106A4BG	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,842	85:0
1291	98	151	23:58:00.466	117GE105A106A4BH	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,843	30:0
1292	98	151	23:58:09.800	117GE105A106A4BI	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,843	44:0
1293	98	151	23:58:33.800	117GE105A106A4BJ	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,843	80:0
1294	98	151	23:58:43.133	117GE105A106A4BK	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,844	03:0
1295	98	151	23:59:07.133	117GE105A106A4BL	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,844	39:0
1296	98	151	23:59:16.466	117GE105A106A4BM	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,844	53:0
1297	98	151	23:59:40.466	117GE105A106A4BN	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,844	89:0
1298	98	151	23:59:49.800	117GE105A106A4BO	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,845	12:0
1299	98	152	00:00:13.800	117GE105A106A4BP	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,845	48:0
1300	98	152	00:00:23.133	117GE105A106A4BQ	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,845	62:0
1301	98	152	00:00:47.133	117GE105A106A4BR	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,846	07:0
1302	98	152	00:00:56.466	117GE105A106A4BS	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,846	21:0
1303	98	152	00:01:20.466	117GE105A106A4BT	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,846	57:0
1304	98	152	00:01:29.800	117GE105A106A4BU	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,846	71:0
1305	98	152	00:01:53.800	117GE105A106A4BV	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,847	16:0
1306	98	152	00:02:03.133	117GE105A106A4BW	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,847	30:0
1307	98	152	00:02:27.133	117GE105A106A4BX	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,847	66:0
1308	98	152	00:02:36.466	117GE105A106A4BY	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,847	80:0
1309	98	152	00:03:00.466	117GE105A106A4BZ	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,848	25:0
1310	98	152	00:03:09.800	117GE105A106A4CA	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,848	39:0
1311	98	152	00:03:33.800	117GE105A106A4CB	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,848	75:0
1312	98	152	00:03:43.133	117GE105A106A4CC	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,848	89:0
1313	98	152	00:04:07.133	117GE105A106A4CD	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,849	34:0
1314	98	152	00:04:16.466	117GE105A106A4CE	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,849	48:0
1315	98	152	00:04:40.466	117GE105A106A4CF	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,849	84:0
1316	98	152	00:04:49.800	117GE105A106A4CG	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,850	07:0
1317	98	152	00:05:13.800	117GE105A106A4CH	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,850	43:0
1318	98	152	00:05:23.133	117GE105A106A4CI	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,850	57:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1319	98	152	00:05:47.133	117GE105A106A4CJ	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,851	:02:0
1320	98	152	00:05:56.466	117GE105A106A4CK	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,851	:16:0
1321	98	152	00:06:05.800		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 355.27 +/- 3	3R3	4	0	4,499,851	:30:0
1322	98	152	00:06:05.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,851	:30:0
1323	98	152	00:06:07.200		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 355.39 +/- 3	3R3	4	0	4,499,851	:32:1
1324	98	152	00:06:12.466		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 356.62 +/- 3	3R3	4	0	4,499,851	:40:0
1325	98	152	00:06:13.666		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 356.68 +/- 3	3R3	4	0	4,499,851	:41:8
1326	98	152	00:06:15.066		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 356.56 +/- 3	3R3	4	0	4,499,851	:43:9
1327	98	152	00:06:20.466	117GE105A106A4CL	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,851	:52:0
1328	98	152	00:06:29.800	117GE105A106A4CM	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,851	:66:0
1329	98	152	00:06:31.133		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 352.80 +/- 3	3R3	4	0	4,499,851	:68:0
1330	98	152	00:06:53.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,852	:11:0
1331	98	152	00:06:53.800	117GE105A106A4CN	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,852	:11:0
1332	98	152	00:06:53.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 347.48 +/- 3	3R3	4	0	4,499,852	:11:0
1333	98	152	00:06:55.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 347.42 +/- 3	3R3	4	0	4,499,852	:12:8
1334	98	152	00:07:03.133	117GE105A106A4CO	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,852	:25:0
1335	98	152	00:07:27.133	117GE105A106A4CP	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,852	:61:0
1336	98	152	00:07:36.466	117GE105A106A4CQ	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,852	:75:0
1337	98	152	00:08:00.466	117GE105A106A4CR	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,853	:20:0
1338	98	152	00:08:09.800	117GE105A106A4CS	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,853	:34:0
1339	98	152	00:08:33.800	117GE105A106A4CT	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,853	:70:0
1340	98	152	00:08:43.133	117GE105A106A4CU	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,853	:84:0
1341	98	152	00:09:07.133	117GE105A106A4CV	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,854	:29:0
1342	98	152	00:09:16.466	117GE105A106A4CW	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,854	:43:0
1343	98	152	00:09:40.466	117GE105A106A4CX	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,854	:79:0
1344	98	152	00:09:49.800	117GE105A106A4CY	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,855	:02:0
1345	98	152	00:10:13.800	117GE105A106A4CZ	7STRP	-0.00006,-0.001,	Slew =12.01	3R3	4	0	4,499,855	:38:0
1346	98	152	00:10:23.133	117GE105A106A4DA	7STRP	-0.026506,0.0,0,	Slew =,1.25	3R3	4	0	4,499,855	:52:0
1347	98	152	00:10:47.133	117GE105A106B4A	7STRP	0.030009,-0.007,	Slew =12.01	3R3	4	0	4,499,855	:88:0
1348	98	152	00:10:56.466	117GE105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,1.25	3R3	4	0	4,499,856	:11:0
1349	98	152	00:11:57.133	117GE11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,499,857	:11:0
1350	98	152	00:12:50.466	176GE6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,499,858	:00:0
1351	98	152	00:12:52.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,499,858	:03:0
1352	98	152	00:12:52.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 347.42 +/- 3	3R3	4	0	4,499,858	:03:0
1353	98	152	00:12:53.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 347.54 +/- 3	3R3	4	0	4,499,858	:05:1
1354	98	152	00:12:59.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 348.78 +/- 3	3R3	4	0	4,499,858	:13:0
1355	98	152	00:13:00.333		DMS:	: *RUNUP	R7, TRACK *4, *REV, TIC * 348.84 +/- 3	3R3	4	0	4,499,858	:14:8
1356	98	152	00:13:01.733		DMS:	: *AT_SPD	R7, TRACK 4, REV, TIC * 348.72 +/- 3	3R3	4	0	4,499,858	:16:9
1357	98	152	00:13:02.466		DMS:	**: *RECORD**	R7, TRACK 4, REV, TIC * 348.55 +/- 3	3R3	4	0	4,499,858	:18:0
1358	98	152	00:13:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 4, REV, TIC * 344.95 +/- 3	3R3	4	0	4,499,858	:41:0
1359	98	152	00:13:17.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,499,858	:41:0
1360	98	152	00:13:19.000		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 344.89 +/- 3	3R3	4	0	4,499,858	:42:8
1361	98	152	00:34:58.466	465KE6A	6DTRN	CMD,6DTRN,465KE6	DMS TRACK TURNAROUND	3R3	4	0	4,499,879	:81:0
1362	98	152	00:34:58.466		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 344.89 +/- 3	3R3	4	0	4,499,879	:81:0
1363	98	152	00:34:58.466		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 344.89 +/- 3	3R3	4	0	4,499,879	:81:0
1364	98	152	00:34:59.866		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 345.01 +/- 3	3R3	4	0	4,499,879	:83:1
1365	98	152	00:35:05.133		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 346.25 +/- 3	3R3	4	0	4,499,880	:00:0
1366	98	152	00:35:06.333		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 346.31 +/- 3	3R3	4	0	4,499,880	:01:8
1367	98	152	00:35:07.733		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 346.19 +/- 3	3R3	4	0	4,499,880	:03:9
1368	98	152	00:45:31.933		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 3	3R3	4	0	4,499,890	:30:2
1369	98	152	00:45:33.133		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 3	3R3	4	0	4,499,890	:32:0
1370	98	152	00:45:33.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 3	3R3	4	0	4,499,890	:32:0
1371	98	152	00:45:34.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	3R3	4	0	4,499,890	:34:1
1372	98	152	00:45:46.533		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	3R3	4	0	4,499,890	:52:1
1373	98	152	00:45:47.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	3R3	4	0	4,499,890	:53:9

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1374	98	152	00:48:13.800	488AE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3R3	4	0	4,499,893:00:0	
1375	98	152	01:00:13.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	3R3	4	0	4,499,904:79:0	
1376	98	152	01:00:13.800	465KF6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	3R3	4	0	4,499,904:79:0	
1377	98	152	01:00:20.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	3R3	4	0	4,499,904:89:0	
1378	98	152	01:00:21.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	3R3	4	0	4,499,905:00:1	
1379	98	152	01:00:21.866		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	3R3	4	0	4,499,905:00:1	
1380	98	152	01:01:22.466		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 216.45 +/-	3R3	4	0	4,499,906:00:0	
1381	98	152	01:01:22.466	465KF6B	6DMSC	RDY,1	DMS Control Tape stop	3R3	4	0	4,499,906:00:0	
1382	98	152	01:01:23.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	3R3	4	0	4,499,906:01:8	
1383	98	152	01:20:21.133	488AE6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3R3	4	0	4,499,924:70:0	
1384	98	152	01:39:33.133	488AE6C	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	3R3	4	0	4,499,943:69:0	
1385	98	152	01:54:29.133	488AE6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3R3	4	0	4,499,958:48:0	
1386	**98**	**152**	**02:07:02.462**	**15NNGLOBAL01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1387	**98**	**152**	**02:14:56.466**	**20DI5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,499,978:69:0**	
1388	**98**	**152**	**02:15:03.800**	**20DI5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,499,978:80:0**	
1389	**98**	**152**	**02:15:05.133**	**20DI6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,499,978:82:0**	
1390	**98**	**152**	**02:15:15.133**	**20DI6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,499,979:06:0**	
1391	**98**	**152**	**02:15:25.133**	**20DI5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,499,979:21:0**	
1392	**98**	**152**	**02:15:26.466**	**20DI5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,499,979:23:0**	
1393	**98**	**152**	**02:16:04.466**	**20DI4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,499,979:80:0**	
1394	98	152	02:16:11.133	165DI4A	**7SCAN**	**NORM,91.308,24.5**	**Check S/P Position**	2R0	4	0	4,499,979:90:0	
1395	**98**	**152**	**02:17:09.129**	**15ENGLOBAL01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1396	**98**	**152**	**02:17:09.129**	**15NNGLOBAL01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1397	**98**	**152**	**02:18:08.466**	**125DI4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,499,981:84:0**	
1398	98	152	02:18:08.466	125DI	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,499,981:84:0	
1399	98	152	02:19:09.133	125DI11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,499,982:84:0	
1400	**98**	**152**	**02:19:09.133**	**125DI4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,499,982:84:0**	
1401	98	152	02:20:01.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 216.51 +/-	4R0	4	0	4,499,983:71:0	
1402	98	152	02:20:01.133	175DJ422A6A	6DMSC	R28,1	DMS Control	4R0	4	0	4,499,983:71:0	
1403	98	152	02:20:05.133	117DI	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	4,499,983:77:0	
1404	98	152	02:20:07.800		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 216.51 +/-	4R0	4	0	4,499,983:81:0	
1405	**98**	**152**	**02:20:09.800**	**127DI4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,499,983:84:0**	
1406	98	152	02:20:09.800	127DI	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,499,983:84:0	
1407	**98**	**152**	**02:20:10.466**	**127DI4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,499,983:85:0**	
1408	98	152	02:20:11.133	175DJ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,499,983:86:0	
1409	98	152	02:20:11.800		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 218.01 +/-	4R3	4	0	4,499,983:87:0	
1410	98	152	02:20:11.800		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC * 218.01 +/-	4R3	4	0	4,499,983:87:0	
1411	98	152	02:20:13.133	165DI4B	7VECT		Inert vect update UTC	4R3	4	0	4,499,983:89:0	
1412	98	152	02:20:14.466	117DI105A106A4A	**7STRP**	**-0.013401,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,499,984:00:0	
1413	98	152	02:20:18.466	127DI11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,499,984:06:0	
1414	**98**	**152**	**02:21:15.133**	**15ENGLOBAL01-**	**NIMPBK**	**301DJ**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**	
1415	**98**	**152**	**02:24:12.466**	**125FI4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,499,987:84:0**	
1416	98	152	02:24:12.466	125FI	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,499,987:84:0	
1417	98	152	02:24:12.466	125FI11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,499,987:84:0	
1418	**98**	**152**	**02:24:17.133**	**15ENGLOBAL01-**	**DESELC**	**300DJ**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**	
1419	98	152	02:24:21.133	488AE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3R3	4	0	4,499,988:06:0	
1420	**98**	**152**	**02:27:14.466**	**125FA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,499,990:84:0**	
1421	98	152	02:27:14.466	125FA11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,499,990:84:0	
1422	98	152	02:27:14.466	125FA	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,499,990:84:0	
1423	98	152	02:27:43.800	117DI105A106A4B	**7STRP**	**0.013401,-0.007,**	**Slew =12.01**	4R3	4	0	4,499,991:37:0	
1424	**98**	**152**	**02:27:46.466**	**15ENGLOBAL01-**	**NIMPBK**	**301EZ**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**	
1425	98	152	02:27:50.466	117DI105A106A4C	**7STRP**	**-0.013401,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,499,991:47:0	
1426	**98**	**152**	**02:29:43.800**	**15ENGLOBAL01-**	**NIMPBK**	**301DR**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**	
1427	98	152	02:32:17.800	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,499,995:84:0	
1428	98	152	02:32:17.800	125FB	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,499,995:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1429	**98**	**152**	**02:32:17.800**	**125FB4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,499,995:84:0**
1430	**98**	**152**	**02:32:19.800**	**15ENGLOBAL01-**	**NIMPBK**	**301ET**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1431	**98**	**152**	**02:32:33.800**	**15ENGLOBAL01-**	**DESELC**	**300DR**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1432	**98**	**152**	**02:33:20.466**	**15ENGLOBAL01-**	**NIMPBK**	**301DS**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1433	**98**	**152**	**02:33:33.800**	**15ENGLOBAL01-**	**NIMPBK**	**301DJ**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1434	**98**	**152**	**02:34:23.800**	**15ENGLOBAL01-**	**DESELC**	**300DJ**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1435	**98**	**152**	**02:35:11.800**	**15ENGLOBAL01-**	**DESELC**	**300DS**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1436	98	152	02:35:19.800	125FC11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,499,998:84:0
1437	98	152	02:35:19.800	117DI105A106A4D	**7STRP**	**0.013401,-0.007,**	**Slew =12.01**	3R3	4	0	4,499,998:84:0
1438	98	152	02:35:19.800	125FC	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,499,998:84:0
1439	**98**	**152**	**02:35:19.800**	**125FC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,499,998:84:0**
1440	**98**	**152**	**02:35:22.466**	**15ENGLOBAL01-**	**NIMPBK**	**301EJ**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1441	**98**	**152**	**02:35:24.466**	**15ENGLOBAL01-**	**DESELC**	**300EZ**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1442	98	152	02:35:26.466	117DI105A106A4E	**7STRP**	**-0.013401,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,499,999:03:0
1443	**98**	**152**	**02:39:25.800**	**15ENGLOBAL01-**	**NIMPBK**	**301DH**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1444	**98**	**152**	**02:39:41.133**	**15ENGLOBAL01-**	**DESELC**	**300DH**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1445	98	152	02:40:23.133	125FD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,500,003:84:0
1446	98	152	02:40:23.133	125FD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,500,003:84:0
1447	**98**	**152**	**02:40:23.133**	**125FD4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,500,003:84:0**
1448	**98**	**152**	**02:42:24.466**	**125FE4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,500,005:84:0**
1449	98	152	02:42:24.466	125FE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,500,005:84:0
1450	98	152	02:42:24.466	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,500,005:84:0
1451	**98**	**152**	**02:42:48.466**	**15ENGLOBAL01-**	**NIMPBK**	**301EU**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1452	98	152	02:42:55.800	117DI105A106A4F	**7STRP**	**0.013401,-0.007,**	**Slew =12.01**	4R3	4	0	4,500,006:40:0
1453	**98**	**152**	**02:43:00.466**	**15ENGLOBAL01-**	**DESELC**	**300EJ**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1454	98	152	02:43:02.466	117DI105A106A4G	**7STRP**	**-0.013401,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,500,006:50:0
1455	**98**	**152**	**02:44:03.133**	**15ENGLOBAL01-**	**NIMPBK**	**301ET**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1456	**98**	**152**	**02:44:57.800**	**15ENGLOBAL01-**	**DESELC**	**300EU**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1457	**98**	**152**	**02:47:07.133**	**15ENGLOBAL01-**	**NIMPBK**	**301EZ**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1458	**98**	**152**	**02:47:07.133**	**15ENGLOBAL01-**	**DESELC**	**300ET**	**EUROPA GLOBAL MAP**	**4R3**	**4**	**0**	**: :**
1459	98	152	02:47:27.800	125FG	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,500,010:84:0
1460	**98**	**152**	**02:47:27.800**	**125FG4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,500,010:84:0**
1461	98	152	02:47:27.800	125FG11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,500,010:84:0
1462	**98**	**152**	**02:50:31.133**	**15ENGLOBAL01-**	**DESELC**	**300ET**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1463	**98**	**152**	**02:50:31.133**	**15ENGLOBAL01-**	**DESELC**	**300EZ**	**EUROPA GLOBAL MAP**	**3R3**	**4**	**0**	**: :**
1464	98	152	02:50:31.800	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,013:87:0
1465	98	152	02:50:31.800		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *1817.62 +/-	3R3	4	0	4,500,013:87:0
1466	98	152	02:50:31.800	117DI11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,500,013:87:0
1467	98	152	02:50:33.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1817.92 +/-	3R3	4	0	4,500,013:88:8
1468	**98**	**152**	**02:51:31.796**	**15ENGLOBAL01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**
1469	98	152	02:54:23.133	488AF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3R3	4	0	4,500,017:70:0
1470	98	152	03:43:02.466	488AF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3R3	4	0	4,500,065:81:0
1471	98	152	08:39:27.800	444UC443A4B	**7MODE**	**INT**	AACS INERTIAL MODE	3R3	4	0	4,500,359:05:0
1472	98	152	08:53:33.133	165II4A	7SCAN	NORM,347.056,-5.	Check S/P Position	3R3	4	0	4,500,372:90:0
1473	98	152	09:01:37.800	165II4B	7VECT		Inert vect update UTC	3R3	4	0	4,500,380:89:0
1474	98	152	09:02:03.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1817.92 +/-	3R3	4	0	4,500,381:37:0
1475	98	152	09:02:03.800	175IR422A6A	6DMSC	R806,1	DMS Control	3R3	4	0	4,500,381:37:0
1476	98	152	09:02:10.466		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 1817.92 +/-	3R3	4	0	4,500,381:47:0
1477	98	152	09:02:15.133	175IR176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	4,500,381:54:0
1478	98	152	09:02:15.733		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 1883.92 +/-	3R3	4	0	4,500,381:54:9
1479	98	152	09:02:15.733		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1883.92 +/-	3R3	4	0	4,500,381:54:9
1480	98	152	09:02:22.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2049.62 +/-	3R3	4	0	4,500,381:65:0
1481	98	152	09:02:22.466	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,381:65:0
1482	98	152	09:02:25.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2061.12 +/-	3R3	4	0	4,500,381:69:1
1483	98	152	09:02:28.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2061.12 +/-	3R3	4	0	4,500,381:74:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1484	98	152	09:02:28.466	175IS422A6A	6DMSC	R806,1	DMS Control	3R3	4	0	4,500,381:74:0	
1485	98	152	09:02:35.133		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2061.12 +/-	3R3	4	0	4,500,381:84:0	
1486	98	152	09:02:39.800	175IS176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	3R3	4	0	4,500,382:00:0	
1487	98	152	09:02:40.400		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *2127.12 +/-	3R3	4	0	4,500,382:00:9	
1488	98	152	09:02:40.400		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2127.12 +/-	3R3	4	0	4,500,382:00:9	
1489	98	152	09:02:56.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *2522.51 +/-	3R3	4	0	4,500,382:25:0	
1490	98	152	09:02:56.466	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,382:25:0	
1491	98	152	09:02:59.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2534.01 +/-	3R3	4	0	4,500,382:29:1	
1492	98	152	10:29:37.133	192GF4A	**7CONE**	**17.4,0.0**	Check S/P Position	3R3	4	0	4,500,468:00:0	
1493	98	152	10:33:39.800	176GF6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	4,500,472:00:0	
1494	98	152	10:35:51.133	488AG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3R3	4	0	4,500,474:15:0	
1495	98	152	10:35:54.466	176GF6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,500,474:20:0	
1496	98	152	10:35:56.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2534.01 +/-	3R3	4	0	4,500,474:23:0	
1497	98	152	10:35:56.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	4,500,474:23:0	
1498	98	152	10:36:03.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2534.01 +/-	3R3	4	0	4,500,474:33:0	
1499	98	152	10:36:04.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2534.13 +/-	3R3	4	0	4,500,474:35:1	
1500	98	152	10:36:06.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2534.58 +/-	3R3	4	0	4,500,474:38:0	
1501	98	152	10:36:17.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2537.24 +/-	3R3	4	0	4,500,474:55:0	
1502	98	152	10:36:17.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,474:55:0	
1503	98	152	10:36:19.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2537.30 +/-	3R3	4	0	4,500,474:56:8	
1504	98	152	10:39:17.133	488AG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3R3	4	0	4,500,477:51:0	
1505	98	152	11:06:12.466	488AG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3R3	4	0	4,500,504:17:0	
1506	**98**	**152**	**13:04:15.796**	**15NNEUR16H01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1507	**98**	**152**	**13:06:05.733**	**20DK5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,500,622:69:0**	
1508	**98**	**152**	**13:06:13.066**	**20DK5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,500,622:80:0**	
1509	**98**	**152**	**13:06:14.400**	**20DK6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,500,622:82:0**	
1510	**98**	**152**	**13:06:24.400**	**20DK6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,500,623:06:0**	
1511	**98**	**152**	**13:06:34.400**	**20DK5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,623:21:0**	
1512	**98**	**152**	**13:06:35.733**	**20DK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,623:23:0**	
1513	**98**	**152**	**13:07:13.733**	**20DK4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,623:80:0**	
1514	**98**	**152**	**13:09:17.733**	**125DK4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,625:84:0**	
1515	98	152	13:09:17.733	125DK	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,500,625:84:0	
1516	**98**	**152**	**13:10:18.400**	**125DK4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,626:84:0**	
1517	98	152	13:10:18.400	125DK11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,626:84:0	
1518	98	152	13:11:19.066	127DK	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,500,627:84:0	
1519	**98**	**152**	**13:11:19.066**	**127DK4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,627:84:0**	
1520	**98**	**152**	**13:11:19.733**	**127DK4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,627:85:0**	
1521	98	152	13:11:27.733	127DK11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,628:06:0	
1522	98	152	13:12:23.733	165DK4A	**7SCAN**	**NORM,98.441999,2**	**Check S/P Position**	4R3	4	0	4,500,628:90:0	
1523	**98**	**152**	**13:14:22.462**	**15NNEUR16H01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1524	**98**	**152**	**13:15:23.129**	**15ENEUR16H01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1525	98	152	13:20:16.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2537.30 +/-	4R3	4	0	4,500,636:71:0	
1526	98	152	13:20:16.400	175DK422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	4,500,636:71:0	
1527	98	152	13:20:20.400	117DK	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,636:77:0	
1528	98	152	13:20:23.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 2537.30 +/-	4R3	4	0	4,500,636:81:0	
1529	98	152	13:20:26.400	175DK176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,500,636:86:0	
1530	**98**	**152**	**13:20:27.066**	**15ENEUR16H01-**	**NIMPBK**	**301DT**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1531	98	152	13:20:27.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2538.80 +/-	4R3	4	0	4,500,636:87:0	
1532	98	152	13:20:27.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 2538.80 +/- 1	4R3	4	0	4,500,636:87:0	
1533	**98**	**152**	**13:20:27.066**	**15ENEUR16H01-**	**NIMPBK**	**301DT**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1534	98	152	13:20:28.400	165DK4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,636:89:0	
1535	**98**	**152**	**13:20:29.733**	**15ENEUR16H01-**	**NIMPBK**	**301DK**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1536	98	152	13:20:29.733	117DK105A106A4A	**7STRP**	**-0.0057,0.0,0,0,**	**Slew =,0.02**	4R3	4	0	4,500,637:00:0	
1537	**98**	**152**	**13:20:29.733**	**15ENEUR16H01-**	**NIMPBK**	**301DK**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1538	**98**	**152**	**13:21:12.400**	**15ENEUR16H01-**	**DESELC**	**300DT**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1539	**98**	**152**	**13:21:15.733**	**15ENEUR16H01-**	**DESELC**	**300DT**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1540	**98**	**152**	**13:25:15.733**	**15ENEUR16H01-**	**DESELC**	**300DK**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1541	**98**	**152**	**13:25:15.733**	**15ENEUR16H01-**	**DESELC**	**300DK**	**EUROPA 16 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1542	98	152	13:25:17.066	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,641:67:0	
1543	98	152	13:25:17.066	117DK105A106A4B	**7STRP**	**0.00569,0.0,0,0,**	**Slew =12.01**	4R3	4	0	4,500,641:67:0	
1544	98	152	13:25:17.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2793.68 +/- 1	4R3	4	0	4,500,641:67:0	
1545	98	152	13:25:18.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2793.98 +/- 1	4R3	4	0	4,500,641:68:8	
1546	**98**	**152**	**13:25:28.400**	**125EK4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,500,641:84:0**	
1547	98	152	13:25:28.400	125EK	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,500,641:84:0	
1548	98	152	13:25:28.400	125EK11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,500,641:84:0	
1549	98	152	13:26:29.066	127EK	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,500,642:84:0	
1550	**98**	**152**	**13:26:29.733**	**127EK4A**	**37ETB**	**07,C7,31,BD,C8,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,500,642:85:0**	
1551	98	152	13:26:37.733	127EK11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,500,643:06:0	
1552	98	152	13:27:23.066	175EK422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	4,500,643:74:0	
1553	98	152	13:27:23.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2793.98 +/- 1	3R3	4	0	4,500,643:74:0	
1554	98	152	13:27:26.400	117DK105A106A4C	**7STRP**	**-0.0057,0.0,0,0,**	**Slew =,0.02**	3R3	4	0	4,500,643:79:0	
1555	98	152	13:27:29.733		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2793.98 +/- 1	3R3	4	0	4,500,643:84:0	
1556	98	152	13:27:31.066	175EK176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,500,643:86:0	
1557	98	152	13:27:31.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2794.10 +/- 1	3R3	4	0	4,500,643:86:1	
1558	98	152	13:27:31.133		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2794.10 +/- 1	3R3	4	0	4,500,643:86:1	
1559	**98**	**152**	**13:27:31.733**	**15ENEUR16H01-**	**NIMPBK**	**301EP**	**EUROPA 16 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1560	**98**	**152**	**13:27:31.733**	**15ENEUR16H01-**	**NIMPBK**	**301EK**	**EUROPA 16 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1561	98	152	13:32:13.733	117DK11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,500,648:55:0	
1562	**98**	**152**	**13:32:13.733**	**15ENEUR16H01-**	**DESELC**	**300EP**	**EUROPA 16 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1563	**98**	**152**	**13:32:13.733**	**15ENEUR16H01-**	**DESELC**	**300EK**	**EUROPA 16 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1564	98	152	13:32:21.733	175EK422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,648:67:0	
1565	98	152	13:32:21.733	175EK6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,500,648:67:0	
1566	98	152	13:32:21.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2862.21 +/- 1	3R3	4	0	4,500,648:67:0	
1567	98	152	13:32:22.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2862.27 +/- 1	3R3	4	0	4,500,648:68:8	
1568	**98**	**152**	**13:35:36.462**	**15ENEUR16H01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1569	**98**	**152**	**14:22:21.748**	**15NNJUPRTS02-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1570	**98**	**152**	**14:24:57.733**	**20DC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,500,700:69:0**	
1571	**98**	**152**	**14:25:05.066**	**20DC5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,500,700:80:0**	
1572	**98**	**152**	**14:25:06.400**	**20DC6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,500,700:82:0**	
1573	**98**	**152**	**14:25:16.400**	**20DC6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,500,701:06:0**	
1574	**98**	**152**	**14:25:26.400**	**20DC5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,701:21:0**	
1575	**98**	**152**	**14:25:27.733**	**20DC5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,701:23:0**	
1576	**98**	**152**	**14:26:05.733**	**20DC4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,701:80:0**	
1577	98	152	14:26:12.400	165DC4A	**7SCAN**	**NORM,41.498,18.8**	**Check S/P Position**	2R0	4	0	4,500,701:90:0	
1578	**98**	**152**	**14:26:24.415**	**15JNJUPRTS02***		**-----START------**		**2R0**	**4**	**0**	**: :**	
1579	**98**	**152**	**14:26:24.415**	**15NNJUPRTS02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1580	98	152	14:27:09.066	125DC	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,500,702:84:0	
1581	**98**	**152**	**14:27:09.066**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,702:84:0**	
1582	98	152	14:28:09.733	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,703:84:0	
1583	**98**	**152**	**14:28:09.733**	**125DC4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,703:84:0**	
1584	98	152	14:29:10.400	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,500,704:84:0	
1585	**98**	**152**	**14:29:10.400**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,704:84:0**	
1586	**98**	**152**	**14:29:11.066**	**127DC4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,704:85:0**	
1587	98	152	14:29:19.066	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,705:06:0	
1588	**98**	**152**	**14:29:35.066**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,500,705:30:0**	
1589	98	152	14:30:06.400	117DC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,705:77:0	
1590	98	152	14:30:14.400	165DC4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,705:89:0	
1591	98	152	14:30:15.733	117DC105A106A4A	**7STRP**	**0.036216,0.0,0,0**	**Slew =,0.03**	4R3	4	0	4,500,706:00:0	
1592	**98**	**152**	**14:49:47.066**	**432DY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,500,725:28:0**	
1593	98	152	14:50:24.400	117DC11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,500,725:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1594	**98**	**152**	**14:50:40.415**	**15JNJUPRTS02***		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1595	98	152	16:27:05.733	488AG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4R3	4	0	4,500,821:50:0	
1596	**98**	**152**	**16:37:51.082**	**15NNJPDARK01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1597	**98**	**152**	**16:39:26.400**	**20DN5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,500,833:69:0**	
1598	**98**	**152**	**16:39:33.733**	**20DN5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,500,833:80:0**	
1599	**98**	**152**	**16:39:35.066**	**20DN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,500,833:82:0**	
1600	**98**	**152**	**16:39:45.066**	**20DN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,500,834:06:0**	
1601	**98**	**152**	**16:39:55.066**	**20DN5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,834:21:0**	
1602	**98**	**152**	**16:39:56.400**	**20DN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,834:23:0**	
1603	**98**	**152**	**16:40:34.400**	**20DN4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,834:80:0**	
1604	**98**	**152**	**16:40:53.082**	**15NNJPDARK01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1605	**98**	**152**	**16:40:53.082**	**15JNJPDARK01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1606	98	152	16:41:41.733	165DN4A	**7SCAN**	**NORM,49.508,20.9**	**Check S/P Position**	2R0	4	0	4,500,835:90:0	
1607	**98**	**152**	**16:42:38.400**	**125DN4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,836:84:0**	
1608	98	152	16:42:38.400	125DN	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,500,836:84:0	
1609	98	152	16:43:39.066	125DN11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,837:84:0	
1610	**98**	**152**	**16:43:39.066**	**125DN4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,837:84:0**	
1611	98	152	16:44:39.733	127DN	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,500,838:84:0	
1612	**98**	**152**	**16:44:39.733**	**127DN4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,838:84:0**	
1613	**98**	**152**	**16:44:40.400**	**127DN4B**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,838:85:0**	
1614	98	152	16:44:48.400	127DN11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,839:06:0	
1615	98	152	16:45:33.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2862.27 +/- 1	4R3	4	0	4,500,839:74:0	
1616	98	152	16:45:33.733	175DN422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,500,839:74:0	
1617	98	152	16:45:35.733	117DN	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,839:77:0	
1618	98	152	16:45:40.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2862.27 +/- 1	4R3	4	0	4,500,839:84:0	
1619	98	152	16:45:41.733	175DN176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,500,839:86:0	
1620	98	152	16:45:41.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2862.39 +/- 1	4R3	4	0	4,500,839:86:1	
1621	98	152	16:45:41.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 2862.39 +/- 1	4R3	4	0	4,500,839:86:1	
1622	98	152	16:45:43.733	165DN4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,839:89:0	
1623	**98**	**152**	**16:45:45.066**	**15JNJPDARK01-**	**NIMPBK**	**301DN**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1624	**98**	**152**	**16:45:45.066**	**15JNJPDARK01-**	**NIMPBK**	**301DU**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1625	98	152	16:45:45.066	117DN105A106A4A	**7STRP**	**-0.018102,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,500,840:00:0	
1626	**98**	**152**	**16:49:36.400**	**15JNJPDARK01-**	**NIMPBK**	**301DU**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1627	**98**	**152**	**16:49:57.066**	**15JNJPDARK01-**	**DESELC**	**300DU**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1628	**98**	**152**	**16:50:35.733**	**15JNJPDARK01-**	**NIMPBK**	**301DN**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1629	**98**	**152**	**16:50:45.066**	**15JNJPDARK01-**	**DESELC**	**300DN**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1630	**98**	**152**	**16:55:39.733**	**15JNJPDARK01-**	**DESELC**	**300DU**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1631	**98**	**152**	**16:55:40.400**	**15JNJPDARK01-**	**DESELC**	**300DN**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1632	98	152	16:55:42.400	175DN6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,500,849:77:0	
1633	98	152	16:55:42.400	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,849:77:0	
1634	98	152	16:55:42.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3003.16 +/- 1	4R3	4	0	4,500,849:77:0	
1635	98	152	16:55:43.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3003.22 +/- 1	4R3	4	0	4,500,849:78:8	
1636	98	152	16:55:50.400	117DN11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,500,849:89:0	
1637	98	152	16:55:51.066	165DJ4A	**7SCAN**	**NORM,49.053,20.7**	**Check S/P Position**	4R3	4	0	4,500,849:90:0	
1638	**98**	**152**	**16:56:03.082**	**15JNJPDARK01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1639	**98**	**152**	**16:56:03.082**	**15JNJUPRTS03***		**-----START------**		**4R3**	**4**	**0**	**: :**	
1640	98	152	16:56:11.733	488AH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4R3	4	0	4,500,850:30:0	
1641	**98**	**152**	**16:56:47.733**	**125DJ4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,500,850:84:0**	
1642	98	152	16:56:47.733	125DJ	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,500,850:84:0	
1643	98	152	16:57:48.400	125DJ11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,500,851:84:0	
1644	**98**	**152**	**16:57:48.400**	**125DJ4B**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R3**	**4**	**0**	**4,500,851:84:0**	
1645	98	152	16:58:49.066	127DJ	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,500,852:84:0	
1646	**98**	**152**	**16:58:49.066**	**127DJ4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,852:84:0**	
1647	**98**	**152**	**16:58:49.733**	**127DJ4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,852:85:0**	
1648	98	152	16:58:57.733	127DJ11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,853:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1649	**98**	**152**	**16:59:13.733**	**432DJ6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,500,853:30:0**	
1650	98	152	16:59:45.066	117DJ	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,853:77:0	
1651	98	152	16:59:53.066	165DJ4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,853:89:0	
1652	98	152	16:59:54.400	117DJ105A106A4A	**7STRP**	**-0.018002,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,500,854:00:0	
1653	98	152	17:10:01.066	117DJ11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,500,864:00:0	
1654	**98**	**152**	**17:10:12.415**	**15JNJUPRTS03***		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1655	**98**	**152**	**17:10:12.415**	**15NNJPDARK02-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1656	**98**	**152**	**17:10:19.733**	**432DI6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,500,864:28:0**	
1657	**98**	**152**	**17:11:47.733**	**20DO5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,500,865:69:0**	
1658	**98**	**152**	**17:11:55.066**	**20DO5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,500,865:80:0**	
1659	**98**	**152**	**17:11:56.400**	**20DO6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,500,865:82:0**	
1660	**98**	**152**	**17:12:06.400**	**20DO6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,500,866:06:0**	
1661	**98**	**152**	**17:12:16.400**	**20DO5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,866:21:0**	
1662	**98**	**152**	**17:12:17.733**	**20DO5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,866:23:0**	
1663	**98**	**152**	**17:12:55.733**	**20DO4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,866:80:0**	
1664	**98**	**152**	**17:14:15.082**	**15JNJPDARK02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1665	**98**	**152**	**17:14:15.082**	**15NNJPDARK02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1666	98	152	17:14:59.733	125DO	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,500,868:84:0	
1667	**98**	**152**	**17:14:59.733**	**125DO4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,868:84:0**	
1668	98	152	17:15:03.733	165DO4A	**7SCAN**	**NORM,49.992,21.0**	**Check S/P Position**	4R0	4	0	4,500,868:90:0	
1669	98	152	17:16:00.400	125DO11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,869:84:0	
1670	**98**	**152**	**17:16:00.400**	**125DO4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,869:84:0**	
1671	98	152	17:18:01.733	127DO	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,500,871:84:0	
1672	**98**	**152**	**17:18:01.733**	**127DO4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,871:84:0**	
1673	**98**	**152**	**17:18:02.400**	**127DO4B**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,871:85:0**	
1674	98	152	17:18:10.400	127DO11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,872:06:0	
1675	98	152	17:18:55.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3003.22 +/- 1	4R3	4	0	4,500,872:74:0	
1676	98	152	17:18:55.733	175DO422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,500,872:74:0	
1677	98	152	17:18:57.733	117DO	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,872:77:0	
1678	98	152	17:19:02.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3003.22 +/- 1	4R3	4	0	4,500,872:84:0	
1679	98	152	17:19:03.733	175DO176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,500,872:86:0	
1680	98	152	17:19:03.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3003.34 +/- 1	4R3	4	0	4,500,872:86:1	
1681	98	152	17:19:03.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3003.34 +/- 1	4R3	4	0	4,500,872:86:1	
1682	98	152	17:19:05.733	165DO4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,872:89:0	
1683	**98**	**152**	**17:19:07.066**	**15JNJPDARK02-**	**NIMPBK**	**301DO**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1684	98	152	17:19:07.066	117DO105A106A4A	**7STRP**	**-0.018102,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,500,873:00:0	
1685	**98**	**152**	**17:19:07.066**	**15JNJPDARK02-**	**NIMPBK**	**301DO**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1686	98	152	17:19:15.066	20MC6A	6CKSUM	MAG,4040,46F0		4R3	4	0	4,500,873:12:0	
1687	**98**	**152**	**17:20:05.733**	**15JNJPDARK02-**	**NIMPBK**	**301DF**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1688	98	152	17:20:11.733	480MB6A	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2	4R3	4	0	4,500,874:06:0	
1689	98	152	17:20:11.733	480MB6	6MROH	12	read from LLM1A12,2282,0,A2	4R3	4	0	4,500,874:06:0	
1690	**98**	**152**	**17:20:25.733**	**15JNJPDARK02-**	**DESELC**	**300DF**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1691	**98**	**152**	**17:23:57.733**	**15JNJPDARK02-**	**NIMPBK**	**301EO**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1692	**98**	**152**	**17:24:07.066**	**15JNJPDARK02-**	**DESELC**	**300DO**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1693	**98**	**152**	**17:29:11.733**	**15JNJPDARK02-**	**DESELC**	**300EO**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1694	**98**	**152**	**17:29:11.733**	**15JNJPDARK02-**	**DESELC**	**300DO**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1695	98	152	17:29:13.733	117DO11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,500,883:00:0	
1696	98	152	17:29:13.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3146.29 +/- 1	4R3	4	0	4,500,883:00:0	
1697	98	152	17:29:13.733	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,883:00:0	
1698	98	152	17:29:13.733	175DO6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,500,883:00:0	
1699	98	152	17:29:14.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3146.35 +/- 1	4R3	4	0	4,500,883:01:8	
1700	**98**	**152**	**17:33:27.748**	**15JNJPDARK02-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1701	**98**	**152**	**17:34:13.796**	**15NNEUR20H01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1702	**98**	**152**	**17:37:04.400**	**20DL5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,500,890:69:0**	
1703	**98**	**152**	**17:37:11.733**	**20DL5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,500,890:80:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1704	**98**	**152**	**17:37:13.066**	**20DL6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,500,890**	**:82:0**
1705	**98**	**152**	**17:37:23.066**	**20DL6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,500,891**	**:06:0**
1706	**98**	**152**	**17:37:33.066**	**20DL5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,891**	**:21:0**
1707	**98**	**152**	**17:37:34.400**	**20DL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,891**	**:23:0**
1708	**98**	**152**	**17:38:12.400**	**20DL4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,891**	**:80:0**
1709	**98**	**152**	**17:39:17.129**	**15NNEUR20H01-**		**-----STOP-------**		**2R0**	**4**	**0**	**:**	**:**
1710	**98**	**152**	**17:39:17.129**	**15ENEUR20H01-**		**-----START------**		**2R0**	**4**	**0**	**:**	**:**
1711	**98**	**152**	**17:40:16.400**	**125DL4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,893**	**:84:0**
1712	98	152	17:40:16.400	125DL	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,500,893	:84:0
1713	98	152	17:41:17.066	125DL11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,894	:84:0
1714	**98**	**152**	**17:41:17.066**	**125DL4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,894**	**:84:0**
1715	**98**	**152**	**17:43:18.400**	**127DL4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,896**	**:84:0**
1716	98	152	17:43:18.400	127DL	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,500,896	:84:0
1717	**98**	**152**	**17:43:19.066**	**127DL4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,896**	**:85:0**
1718	98	152	17:43:27.066	127DL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,897	:06:0
1719	98	152	17:46:24.400	165DL4A	**7SCAN**	**NORM,93.990999,2**	**Check S/P Position**	4R3	4	0	4,500,899	:90:0
1720	98	152	17:50:13.066	488AH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4R3	4	0	4,500,903	:69:0
1721	98	152	17:50:14.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3146.35 +/- 1	4R3	4	0	4,500,903	:71:0
1722	98	152	17:50:14.400	175DL422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	4,500,903	:71:0
1723	98	152	17:50:18.400	117DL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,903	:77:0
1724	98	152	17:50:21.066		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3146.35 +/- 1	4R3	4	0	4,500,903	:81:0
1725	98	152	17:50:24.400	175DL176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,500,903	:86:0
1726	98	152	17:50:25.066		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *3147.85 +/- 1	4R3	4	0	4,500,903	:87:0
1727	98	152	17:50:25.066		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3147.85 +/- 1	4R3	4	0	4,500,903	:87:0
1728	98	152	17:50:26.400	165DL4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,903	:89:0
1729	98	152	17:50:27.733	117DL105A106A4A	**7STRP**	**-0.0052,0.0,0,0,**	**Slew =,0.02**	4R3	4	0	4,500,904	:00:0
1730	**98**	**152**	**17:50:27.733**	**15ENEUR20H01-**	**NIMPBK**	**301DL**	**EUROPA 20 HOUR MAP**	**4R3**	**4**	**0**	**:**	**:**
1731	**98**	**152**	**17:50:27.733**	**15ENEUR20H01-**	**NIMPBK**	**301DV**	**EUROPA 20 HOUR MAP**	**4R3**	**4**	**0**	**:**	**:**
1732	**98**	**152**	**17:53:44.400**	**15ENEUR20H01-**	**NIMPBK**	**301DV**	**EUROPA 20 HOUR MAP**	**4R3**	**4**	**0**	**:**	**:**
1733	**98**	**152**	**17:53:59.733**	**15ENEUR20H01-**	**DESELC**	**300DV**	**EUROPA 20 HOUR MAP**	**4R3**	**4**	**0**	**:**	**:**
1734	**98**	**152**	**17:54:39.066**	**15ENEUR20H01-**	**DESELC**	**300DL**	**EUROPA 20 HOUR MAP**	**4R3**	**4**	**0**	**:**	**:**
1735	**98**	**152**	**17:54:49.066**	**15ENEUR20H01-**	**DESELC**	**300DV**	**EUROPA 20 HOUR MAP**	**4R3**	**4**	**0**	**:**	**:**
1736	98	152	17:54:51.066		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *3381.64 +/- 1	4R3	4	0	4,500,908	:31:0
1737	98	152	17:54:51.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,908	:31:0
1738	98	152	17:54:51.733	117DL105A106A4B	**7STRP**	**0.0052,0.0,0,0,0**	**Slew =12.01**	4R3	4	0	4,500,908	:32:0
1739	98	152	17:54:52.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3381.94 +/- 1	4R3	4	0	4,500,908	:32:8
1740	98	152	17:55:26.400	127EL	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,500,908	:84:0
1741	**98**	**152**	**17:55:27.066**	**127EL4A**	**37ETB**	**07,C7,31,BD,C8,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,908**	**:85:0**
1742	98	152	17:55:35.066	127EL11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,909	:06:0
1743	98	152	17:56:20.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3381.94 +/- 1	4R3	4	0	4,500,909	:74:0
1744	98	152	17:56:20.400	175EL422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,500,909	:74:0
1745	**98**	**152**	**17:56:27.066**	**125EL4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,500,909**	**:84:0**
1746	98	152	17:56:27.066	125EL11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,500,909	:84:0
1747	98	152	17:56:27.066		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3381.94 +/- 1	3R3	4	0	4,500,909	:84:0
1748	98	152	17:56:27.066	125EL	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	4,500,909	:84:0
1749	98	152	17:56:28.400	175EL176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,500,909	:86:0
1750	98	152	17:56:28.466		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3382.06 +/- 1	3R3	4	0	4,500,909	:86:1
1751	98	152	17:56:28.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3382.06 +/- 1	3R3	4	0	4,500,909	:86:1
1752	**98**	**152**	**17:57:01.066**	**15ENEUR20H01-**	**NIMPBK**	**301EF**	**EUROPA 20 HOUR MAP**	**3R3**	**4**	**0**	**:**	**:**
1753	98	152	17:57:01.066	117DL105A106A4C	**7STRP**	**-0.0052,0.0,0,0,**	**Slew =,0.02**	3R3	4	0	4,500,910	:44:0
1754	**98**	**152**	**17:57:06.400**	**15ENEUR20H01-**	**NIMPBK**	**301EL**	**EUROPA 20 HOUR MAP**	**3R3**	**4**	**0**	**:**	**:**
1755	**98**	**152**	**17:57:11.066**	**15ENEUR20H01-**	**NIMPBK**	**301DL**	**EUROPA 20 HOUR MAP**	**3R3**	**4**	**0**	**:**	**:**
1756	**98**	**152**	**17:57:31.066**	**15ENEUR20H01-**	**DESELC**	**300DL**	**EUROPA 20 HOUR MAP**	**3R3**	**4**	**0**	**:**	**:**
1757	**98**	**152**	**18:01:17.733**	**15ENEUR20H01-**	**DESELC**	**300EL**	**EUROPA 20 HOUR MAP**	**3R3**	**4**	**0**	**:**	**:**
1758	**98**	**152**	**18:01:23.066**	**15ENEUR20H01-**	**DESELC**	**300EF**	**EUROPA 20 HOUR MAP**	**3R3**	**4**	**0**	**:**	**:**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1759	98	152	18:01:25.066		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3451.57 +/- 1	3R3	4	0	4,500,914:76:0	
1760	98	152	18:01:25.066	175EL6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,500,914:76:0	
1761	98	152	18:01:25.066	117DL11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,500,914:76:0	
1762	98	152	18:01:25.066	175EL422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,914:76:0	
1763	98	152	18:01:26.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3451.63 +/- 1	3R3	4	0	4,500,914:77:8	
1764	**98**	**152**	**18:01:31.796**	**15ENEUR20H01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1765	**98**	**152**	**18:03:47.748**	**15NNJPDARK03-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1766	**98**	**152**	**18:04:22.400**	**20DP5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**4,500,917:69:0**	
1767	**98**	**152**	**18:04:29.733**	**20DP5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**4,500,917:80:0**	
1768	**98**	**152**	**18:04:31.066**	**20DP6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**3R3**	**4**	**0**	**4,500,917:82:0**	
1769	**98**	**152**	**18:04:41.066**	**20DP6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**3R3**	**4**	**0**	**4,500,918:06:0**	
1770	**98**	**152**	**18:04:51.066**	**20DP5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,918:21:0**	
1771	**98**	**152**	**18:04:52.400**	**20DP5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,918:23:0**	
1772	**98**	**152**	**18:05:30.400**	**20DP4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,918:80:0**	
1773	98	152	18:06:33.733	125DP	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,500,919:84:0	
1774	**98**	**152**	**18:06:33.733**	**125DP4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,919:84:0**	
1775	98	152	18:06:37.733	165DP4A	**7SCAN**	**NORM,51.507,21.3**	**Check S/P Position**	4R0	4	0	4,500,919:90:0	
1776	**98**	**152**	**18:06:49.748**	**15NNJPDARK03-**		**-----STOP-------**		**4R0**	**4**	**0**	**: :**	
1777	**98**	**152**	**18:06:49.748**	**15JNJPDARK03-**		**-----START------**		**4R0**	**4**	**0**	**: :**	
1778	98	152	18:07:34.400	125DP11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,920:84:0	
1779	**98**	**152**	**18:07:34.400**	**125DP4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,920:84:0**	
1780	98	152	18:08:35.066	127DP	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,500,921:84:0	
1781	**98**	**152**	**18:08:35.066**	**127DP4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,921:84:0**	
1782	**98**	**152**	**18:08:35.733**	**127DP4B**	**37ETB**	**,CD,02,03,FF,1A,**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,921:85:0**	
1783	98	152	18:08:43.733	127DP11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,922:06:0	
1784	98	152	18:10:29.733	175DP422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	4R3	4	0	4,500,923:74:0	
1785	98	152	18:10:29.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3451.63 +/- 1	4R3	4	0	4,500,923:74:0	
1786	98	152	18:10:31.733	117DP	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,923:77:0	
1787	98	152	18:10:36.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 3451.63 +/- 1	4R3	4	0	4,500,923:84:0	
1788	98	152	18:10:37.733	175DP176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	4R3	4	0	4,500,923:86:0	
1789	98	152	18:10:37.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 3451.75 +/- 1	4R3	4	0	4,500,923:86:1	
1790	98	152	18:10:37.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *3451.75 +/- 1	4R3	4	0	4,500,923:86:1	
1791	98	152	18:10:39.733	165DP4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,923:89:0	
1792	**98**	**152**	**18:10:41.066**	**15JNJPDARK03-**	**NIMPBK**	**301DD**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1793	98	152	18:10:41.066	117DP105A106A4A	**7STRP**	**-0.018102,0.0,0,**	**Slew =,0.03**	4R3	4	0	4,500,924:00:0	
1794	**98**	**152**	**18:10:41.066**	**15JNJPDARK03-**	**NIMPBK**	**301DP**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1795	**98**	**152**	**18:12:07.733**	**15JNJPDARK03-**	**NIMPBK**	**301DP**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1796	**98**	**152**	**18:12:07.733**	**15JNJPDARK03-**	**DESELC**	**300DD**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1797	**98**	**152**	**18:18:21.733**	**15JNJPDARK03-**	**NIMPBK**	**301DM**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1798	**98**	**152**	**18:18:51.733**	**15JNJPDARK03-**	**DESELC**	**300DM**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1799	**98**	**152**	**18:20:15.733**	**15JNJPDARK03-**	**DESELC**	**300DP**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1800	**98**	**152**	**18:20:36.400**	**15JNJPDARK03-**	**DESELC**	**300DP**	**DARK SIDE JUPITER ZONE**	**4R3**	**4**	**0**	**: :**	
1801	98	152	18:20:38.400	175DP6A	6TMREC	**NRC**	NO RECORD Record Mode Change	4R3	4	0	4,500,933:77:0	
1802	98	152	18:20:38.400	175DP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,933:77:0	
1803	98	152	18:20:38.400		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *3592.52 +/- 1	4R3	4	0	4,500,933:77:0	
1804	98	152	18:20:39.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3592.58 +/- 1	4R3	4	0	4,500,933:78:8	
1805	98	152	18:20:47.733	117DP11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	4,500,934:00:0	
1806	**98**	**152**	**18:23:00.415**	**15JNJPDARK03-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
1807	98	152	18:37:58.400	165IO4A	7SCAN	NORM,34.471,15.6	Check S/P Position	4R3	4	0	4,500,950:90:0	
1808	98	152	18:46:03.066	165IO4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,958:89:0	
1809	98	152	18:46:27.733	175IT422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,500,959:35:0	
1810	98	152	18:46:27.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3592.58 +/- 1	4R3	4	0	4,500,959:35:0	
1811	98	152	18:46:34.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3592.58 +/- 1	4R3	4	0	4,500,959:45:0	
1812	98	152	18:46:37.733	175IT176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,500,959:50:0	
1813	98	152	18:46:38.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3598.88 +/- 1	4R3	4	0	4,500,959:51:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1814	98	152	18:46:38.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3598.88 +/- 1	4R3	4	0	4,500,959:51:0	
1815	98	152	18:47:05.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3692.63 +/- 1	4R3	4	0	4,500,960:00:0	
1816	98	152	18:47:05.066	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,960:00:0	
1817	98	152	18:47:06.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3693.63 +/- 1	4R3	4	0	4,500,960:01:8	
1818	98	152	18:47:28.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3693.63 +/- 1	4R3	4	0	4,500,960:35:0	
1819	98	152	18:47:28.400	175IU422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,500,960:35:0	
1820	98	152	18:47:35.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3693.63 +/- 1	4R3	4	0	4,500,960:45:0	
1821	98	152	18:47:38.400	175IU176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,500,960:50:0	
1822	98	152	18:47:39.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3699.93 +/- 1	4R3	4	0	4,500,960:51:0	
1823	98	152	18:47:39.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3699.93 +/- 1	4R3	4	0	4,500,960:51:0	
1824	98	152	18:48:05.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3793.68 +/- 1	4R3	4	0	4,500,961:00:0	
1825	98	152	18:48:05.733	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,961:00:0	
1826	98	152	18:48:06.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3794.68 +/- 1	4R3	4	0	4,500,961:01:8	
1827	98	152	18:48:29.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3794.68 +/- 1	4R3	4	0	4,500,961:35:0	
1828	98	152	18:48:29.066	175IV422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,500,961:35:0	
1829	98	152	18:48:35.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3794.68 +/- 1	4R3	4	0	4,500,961:45:0	
1830	98	152	18:48:39.066	175IV176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,500,961:50:0	
1831	98	152	18:48:39.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3800.98 +/- 1	4R3	4	0	4,500,961:51:0	
1832	98	152	18:48:39.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3800.98 +/- 1	4R3	4	0	4,500,961:51:0	
1833	**98**	**152**	**18:49:03.129**	**15NNEUR22H01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
1834	98	152	18:49:06.400	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,962:00:0	
1835	98	152	18:49:06.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3894.73 +/- 1	4R3	4	0	4,500,962:00:0	
1836	98	152	18:49:07.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3895.73 +/- 1	4R3	4	0	4,500,962:01:8	
1837	98	152	18:49:29.733	175IW422A6A	6DMSC	R115,1	DMS Control	4R3	4	0	4,500,962:35:0	
1838	98	152	18:49:29.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3895.73 +/- 1	4R3	4	0	4,500,962:35:0	
1839	98	152	18:49:36.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 3895.73 +/- 1	4R3	4	0	4,500,962:45:0	
1840	98	152	18:49:39.733	175IW176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	4R3	4	0	4,500,962:50:0	
1841	98	152	18:49:40.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 3902.03 +/- 1	4R3	4	0	4,500,962:51:0	
1842	98	152	18:49:40.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *3902.03 +/- 1	4R3	4	0	4,500,962:51:0	
1843	98	152	18:50:07.066	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,963:00:0	
1844	98	152	18:50:07.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *3995.78 +/- 1	4R3	4	0	4,500,963:00:0	
1845	98	152	18:50:08.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3996.78 +/- 1	4R3	4	0	4,500,963:01:8	
1846	98	152	18:50:14.400	175IX422A6A	6DMSC	R806,1	DMS Control	4R3	4	0	4,500,963:11:0	
1847	98	152	18:50:14.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3996.78 +/- 1	4R3	4	0	4,500,963:11:0	
1848	98	152	18:50:21.066		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 3996.78 +/- 1	4R3	4	0	4,500,963:21:0	
1849	98	152	18:50:25.733	175IX176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	4,500,963:28:0	
1850	98	152	18:50:26.333		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *4062.78 +/- 1	4R3	4	0	4,500,963:28:9	
1851	98	152	18:50:26.333		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4062.78 +/- 1	4R3	4	0	4,500,963:28:9	
1852	98	152	18:50:29.733	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	4,500,963:34:0	
1853	98	152	18:50:29.733		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *4146.45 +/- 1	4R3	4	0	4,500,963:34:0	
1854	98	152	18:50:32.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4157.95 +/- 1	4R3	4	0	4,500,963:38:1	
1855	**98**	**152**	**18:51:53.733**	**20DM5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**4,500,964:69:0**	
1856	**98**	**152**	**18:52:01.066**	**20DM5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**4,500,964:80:0**	
1857	**98**	**152**	**18:52:02.400**	**20DM6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**4,500,964:82:0**	
1858	**98**	**152**	**18:52:12.400**	**20DM6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**4,500,965:06:0**	
1859	**98**	**152**	**18:52:22.400**	**20DM5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**4,500,965:21:0**	
1860	**98**	**152**	**18:52:23.733**	**20DM5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**4,500,965:23:0**	
1861	**98**	**152**	**18:53:01.733**	**20DM4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**4,500,965:80:0**	
1862	**98**	**152**	**18:54:06.462**	**15NNEUR22H01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
1863	**98**	**152**	**18:54:06.462**	**15ENEUR22H01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
1864	98	152	18:55:05.733	125DM	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	4,500,967:84:0	
1865	**98**	**152**	**18:55:05.733**	**125DM4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**4,500,967:84:0**	
1866	98	152	18:56:06.400	125DM11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	4,500,968:84:0	
1867	**98**	**152**	**18:56:06.400**	**125DM4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,500,968:84:0**	
1868	**98**	**152**	**18:57:07.066**	**127DM4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,500,969:84:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1869	98	152	18:57:07.066	127DM	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,500,969:84:0	
1870	**98**	**152**	**18:57:07.733**	**127DM4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,500,969:85:0**	
1871	98	152	18:57:15.733	127DM11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,500,970:06:0	
1872	98	152	19:01:13.733	165DM4A	**7SCAN**	**NORM,91.882999,2**	**Check S/P Position**	4R3	4	0	4,500,973:90:0	
1873	98	152	19:05:03.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4157.95 +/- 1	4R3	4	0	4,500,977:71:0	
1874	98	152	19:05:03.733	175DM422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	4,500,977:71:0	
1875	98	152	19:05:07.733	117DM	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	4,500,977:77:0	
1876	98	152	19:05:10.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4157.95 +/- 1	4R3	4	0	4,500,977:81:0	
1877	98	152	19:05:13.733	175DM176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	4,500,977:86:0	
1878	98	152	19:05:14.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4159.45 +/- 1	4R3	4	0	4,500,977:87:0	
1879	98	152	19:05:14.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *4159.45 +/- 1	4R3	4	0	4,500,977:87:0	
1880	98	152	19:05:15.733	165DM4B	7VECT		Inert vect update UTC	4R3	4	0	4,500,977:89:0	
1881	**98**	**152**	**19:05:17.066**	**15ENEUR22H01-**	**NIMPBK**	**301DM**	**EUROPA 22 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1882	98	152	19:05:17.066	117DM105A106A4A	**7STRP**	**-0.00475,0.0,0,0**	**Slew =,0.02**	4R3	4	0	4,500,978:00:0	
1883	**98**	**152**	**19:05:17.066**	**15ENEUR22H01-**	**NIMPBK**	**301EL**	**EUROPA 22 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1884	**98**	**152**	**19:09:11.066**	**15ENEUR22H01-**	**DESELC**	**300DM**	**EUROPA 22 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1885	**98**	**152**	**19:09:11.066**	**15ENEUR22H01-**	**DESELC**	**300EL**	**EUROPA 22 HOUR MAP**	**4R3**	**4**	**0**	**: :**	
1886	98	152	19:09:15.066	125EM	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,500,981:84:0	
1887	**98**	**152**	**19:09:15.066**	**125EM4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R3**	**4**	**0**	**4,500,981:84:0**	
1888	98	152	19:09:15.066	125EM11A	NIMSINIT	GE	##### GROUP END INIT	3R3	4	0	4,500,981:84:0	
1889	98	152	19:09:15.733	117DM105A106A4B	**7STRP**	**0.0048,0.0,0,0,0**	**Slew =12.01**	3R3	4	0	4,500,981:85:0	
1890	98	152	19:09:19.733	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,982:00:0	
1891	98	152	19:09:19.733		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *4375.08 +/- 1	3R3	4	0	4,500,982:00:0	
1892	98	152	19:09:20.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4375.38 +/- 1	3R3	4	0	4,500,982:01:8	
1893	98	152	19:10:15.733	127EM	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	4,500,982:84:0	
1894	**98**	**152**	**19:10:16.400**	**127EM4A**	**37ETB**	**07,C7,31,BD,C8,0**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**4,500,982:85:0**	
1895	98	152	19:10:24.400	127EM11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	4,500,983:06:0	
1896	98	152	19:11:09.733	175EM422A6A	6DMSC	R7,1	DMS Control Tape runup 7.68kbp	3R3	4	0	4,500,983:74:0	
1897	98	152	19:11:09.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4375.38 +/- 1	3R3	4	0	4,500,983:74:0	
1898	98	152	19:11:16.400		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4375.38 +/- 1	3R3	4	0	4,500,983:84:0	
1899	98	152	19:11:17.733	175EM176A6A	6TMREC	**LPU**	7.68 KBPS NIMS-UVS-PPR RECORD Record Mode	3R3	4	0	4,500,983:86:0	
1900	98	152	19:11:17.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *4375.50 +/- 1	3R3	4	0	4,500,983:86:1	
1901	98	152	19:11:17.800		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC 4375.50 +/- 1	3R3	4	0	4,500,983:86:1	
1902	**98**	**152**	**19:11:21.066**	**15ENEUR22H01-**	**NIMPBK**	**301EM**	**EUROPA 22 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1903	**98**	**152**	**19:11:21.066**	**15ENEUR22H01-**	**NIMPBK**	**301EM**	**EUROPA 22 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1904	98	152	19:11:25.066	117DM105A106A4C	**7STRP**	**-0.00475,0.0,0,0**	**Slew =,0.02**	3R3	4	0	4,500,984:06:0	
1905	**98**	**152**	**19:15:15.066**	**15ENEUR22H01-**	**DESELC**	**300EM**	**EUROPA 22 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1906	**98**	**152**	**19:15:15.066**	**15ENEUR22H01-**	**DESELC**	**300EM**	**EUROPA 22 HOUR MAP**	**3R3**	**4**	**0**	**: :**	
1907	98	152	19:15:23.733	175EM6A	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	4,500,988:00:0	
1908	98	152	19:15:23.733		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *4433.14 +/- 1	3R3	4	0	4,500,988:00:0	
1909	98	152	19:15:23.733	117DM11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	4,500,988:00:0	
1910	98	152	19:15:23.733	175EM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	4,500,988:00:0	
1911	98	152	19:15:24.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4433.20 +/- 1	3R3	4	0	4,500,988:01:8	
1912	**98**	**152**	**19:20:23.796**	**15ENEUR22H01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
1913	**98**	**152**	**19:24:26.462**	**15NNCHOPOF01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
1914	**98**	**152**	**19:27:27.066**	**127DQ4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**3R0**	**4**	**0**	**4,500,999:84:0**	
1915	98	152	19:27:27.066	127DQ	NIMSTAB	GS	%%%%% GROUP START TAB	3R0	4	0	4,500,999:84:0	
1916	**98**	**152**	**19:27:27.733**	**127DQ4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**3R0**	**4**	**0**	**4,500,999:85:0**	
1917	98	152	19:27:35.733	127DQ11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R0	4	0	4,501,000:06:0	
1918	**98**	**152**	**19:30:29.066**	**125DQ4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**360**	**4**	**0**	**4,501,002:84:0**	
1919	98	152	19:30:29.066	125DQ	NIMSINIT	GS	##### GROUP START INIT	360	4	0	4,501,002:84:0	
1920	98	152	19:30:33.066	165IQ4A	7SCAN	NORM,38.215,16.8	Check S/P Position	360	4	0	4,501,002:90:0	
1921	**98**	**152**	**19:31:29.733**	**125DQ4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**3O0**	**4**	**0**	**4,501,003:84:0**	
1922	**98**	**152**	**19:32:30.400**	**125DQ4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3O0**	**4**	**0**	**4,501,004:84:0**	
1923	98	152	19:32:30.400	125DQ11A	NIMSINIT	GE	##### GROUP END INIT	3O0	4	0	4,501,004:84:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1924	**98**	**152**	**19:34:33.129**	**15NNCHOPOF01-**		**-----STOP-------**		**3O0**	**4**	**0**	**: :**	
1925	98	152	19:38:37.733	165IQ4B	7VECT		Inert vect update UTC	3O0	4	0	4,501,010:89:0	
1926	98	152	19:39:02.400	175IY422A6A	6DMSC	R115,1	DMS Control	3O0	4	0	4,501,011:35:0	
1927	98	152	19:39:02.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4433.20 +/- 1	3O0	4	0	4,501,011:35:0	
1928	98	152	19:39:09.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4433.20 +/- 1	3O0	4	0	4,501,011:45:0	
1929	98	152	19:39:12.400	175IY176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	3O0	4	0	4,501,011:50:0	
1930	98	152	19:39:13.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4439.50 +/- 1	3O0	4	0	4,501,011:51:0	
1931	98	152	19:39:13.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4439.50 +/- 1	3O0	4	0	4,501,011:51:0	
1932	98	152	19:39:39.733	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	3O0	4	0	4,501,012:00:0	
1933	98	152	19:39:39.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4533.25 +/- 1	3O0	4	0	4,501,012:00:0	
1934	98	152	19:39:40.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4534.25 +/- 1	3O0	4	0	4,501,012:01:8	
1935	98	152	19:40:03.066	175IZ422A6A	6DMSC	R115,1	DMS Control	3O0	4	0	4,501,012:35:0	
1936	98	152	19:40:03.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4534.25 +/- 1	3O0	4	0	4,501,012:35:0	
1937	98	152	19:40:09.733		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4534.25 +/- 1	3O0	4	0	4,501,012:45:0	
1938	98	152	19:40:13.066	175IZ176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	3O0	4	0	4,501,012:50:0	
1939	98	152	19:40:13.733		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4540.55 +/- 1	3O0	4	0	4,501,012:51:0	
1940	98	152	19:40:13.733		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4540.55 +/- 1	3O0	4	0	4,501,012:51:0	
1941	98	152	19:40:40.400	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3O0	4	0	4,501,013:00:0	
1942	98	152	19:40:40.400		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4634.30 +/- 1	3O0	4	0	4,501,013:00:0	
1943	98	152	19:40:41.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4635.30 +/- 1	3O0	4	0	4,501,013:01:8	
1944	98	152	19:41:03.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4635.30 +/- 1	3O0	4	0	4,501,013:35:0	
1945	98	152	19:41:03.733	175JA422A6A	6DMSC	R115,1	DMS Control	3O0	4	0	4,501,013:35:0	
1946	98	152	19:41:10.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4635.30 +/- 1	3O0	4	0	4,501,013:45:0	
1947	98	152	19:41:13.733	175JA176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	3O0	4	0	4,501,013:50:0	
1948	98	152	19:41:14.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4641.60 +/- 2	3O0	4	0	4,501,013:51:0	
1949	98	152	19:41:14.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4641.60 +/- 1	3O0	4	0	4,501,013:51:0	
1950	98	152	19:41:41.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4735.35 +/- 2	3O0	4	0	4,501,014:00:0	
1951	98	152	19:41:41.066	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3O0	4	0	4,501,014:00:0	
1952	98	152	19:41:42.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4736.35 +/- 2	3O0	4	0	4,501,014:01:8	
1953	98	152	19:42:04.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4736.35 +/- 2	3O0	4	0	4,501,014:35:0	
1954	98	152	19:42:04.400	175JB422A6A	6DMSC	R115,1	DMS Control	3O0	4	0	4,501,014:35:0	
1955	98	152	19:42:11.066		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4736.35 +/- 2	3O0	4	0	4,501,014:45:0	
1956	98	152	19:42:14.400	175JB176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	3O0	4	0	4,501,014:50:0	
1957	98	152	19:42:15.066		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 4742.65 +/- 2	3O0	4	0	4,501,014:51:0	
1958	98	152	19:42:15.066		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *4742.65 +/- 2	3O0	4	0	4,501,014:51:0	
1959	98	152	19:42:41.733		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *4836.40 +/- 2	3O0	4	0	4,501,015:00:0	
1960	98	152	19:42:41.733	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3O0	4	0	4,501,015:00:0	
1961	98	152	19:42:42.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4837.40 +/- 2	3O0	4	0	4,501,015:01:8	
1962	98	152	19:42:49.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4837.40 +/- 2	3O0	4	0	4,501,015:11:0	
1963	98	152	19:42:49.066	175JC422A6A	6DMSC	R806,1	DMS Control	3O0	4	0	4,501,015:11:0	
1964	98	152	19:42:55.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 4837.40 +/- 2	3O0	4	0	4,501,015:21:0	
1965	98	152	19:43:00.400	175JC176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3O0	4	0	4,501,015:28:0	
1966	98	152	19:43:01.000		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *4903.40 +/- 2	3O0	4	0	4,501,015:28:9	
1967	98	152	19:43:01.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 4903.40 +/- 2	3O0	4	0	4,501,015:28:9	
1968	98	152	19:43:04.400	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	3O0	4	0	4,501,015:34:0	
1969	98	152	19:43:04.400		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *4987.07 +/- 2	3O0	4	0	4,501,015:34:0	
1970	98	152	19:43:07.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.57 +/- 2	3O0	4	0	4,501,015:38:1	
1971	98	152	19:49:45.733	165AB4A	7SCAN	NORM,58.305,22.3	Check S/P Position	3O0	4	0	4,501,021:90:0	
1972	98	152	19:53:47.733	165AB4B	7VECT		Inert vect update UTC	3O0	4	0	4,501,025:89:0	
1973	98	152	20:24:08.400	165AC4A	7SCAN	NORM,59.828,22.6	Check S/P Position	3O0	4	0	4,501,055:90:0	
1974	98	152	20:25:08.400	165AC4B	7VECT		Inert vect update UTC	3O0	4	0	4,501,056:89:0	
1975	98	152	21:14:41.733	165IL4A	7SCAN	NORM,45.027,18.9	Check S/P Position	3O0	4	0	4,501,105:90:0	
1976	98	152	21:17:38.400	118IL	**SMOS**	GS		3O0	4	0	4,501,108:82:0	
1977	98	152	21:17:43.066	165IL4B	7VECT		Inert vect update UTC	3O0	4	0	4,501,108:89:0	
1978	98	152	21:17:48.400	118IL110A111A4A	7STRP	-0.00275,0.0,92,	Slew =,3.01	3O0	4	0	4,501,109:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1979	98	152	21:18:37.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4998.57 +/- 2	3O0	4	0	4,501,109:80:0	
1980	98	152	21:18:37.733	175JD422A6A	6DMSC	R115,1	DMS Control	3O0	4	0	4,501,109:80:0	
1981	98	152	21:18:44.400		DMS:	: *RUNUP	R115, TRACK 1, FWD, TIC 4998.57 +/- 2	3O0	4	0	4,501,109:90:0	
1982	98	152	21:18:47.733	175JD176A6A	6TMREC	HMA	115.2 KBPS IMAGE(1-400)RECORD Record Mode	3O0	4	0	4,501,110:04:0	
1983	98	152	21:18:48.400		DMS:	**: *RECORD**	R115, TRACK 1, FWD, TIC *5004.87 +/- 2	3O0	4	0	4,501,110:05:0	
1984	98	152	21:18:48.400		DMS:	: *AT_SPD	R115, TRACK 1, FWD, TIC 5004.87 +/- 2	3O0	4	0	4,501,110:05:0	
1985	98	152	21:18:49.733	118IL11A	**SMOS**	GE		3O0	4	0	4,501,110:07:0	
1986	98	152	21:23:03.066		DMS:	**: *RUNDOWN**	R115, TRACK 1, FWD, TIC *5900.18 +/- 2	3O0	4	0	4,501,114:23:0	
1987	98	152	21:23:03.066	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	3O0	4	0	4,501,114:23:0	
1988	98	152	21:23:04.266		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5901.18 +/- 2	3O0	4	0	4,501,114:24:8	
1989	98	152	21:24:42.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5901.18 +/- 2	3O0	4	0	4,501,115:81:0	
1990	98	152	21:24:42.400		DMS:	: *DMS-TURN	P7, TRACK 1, FWD, TIC 5901.18 +/- 2	3O0	4	0	4,501,115:81:0	
1991	98	152	21:24:42.400	465KG6A	6DTRN	CMD,6DTRN,465KG6	DMS TRACK TURNAROUND	3O0	4	0	4,501,115:81:0	
1992	98	152	21:24:49.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 5901.18 +/- 2	3O0	4	0	4,501,116:00:0	
1993	98	152	21:24:50.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC *5901.30 +/- 2	3O0	4	0	4,501,116:02:1	
1994	98	152	21:33:49.400		DMS:	: *REVERSE	P7, TRACK 1, FWD, TIC *6027.63 +/- 2	3O0	4	0	4,501,124:82:5	
1995	98	152	21:33:50.600		DMS:	: *RUNUP	P7, TRACK 2, REV, TIC 6027.69 +/- 2	3O0	4	0	4,501,124:84:3	
1996	98	152	21:33:50.600		DMS:	: *TURNARND	P7, TRACK *2, *REV, TIC *6027.69 +/- 2	3O0	4	0	4,501,124:84:3	
1997	98	152	21:33:52.000		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *6027.57 +/-	3O0	4	0	4,501,124:86:4	
1998	98	152	21:34:04.000		DMS:	: *AUTOSTOP	P7, TRACK 2, REV, TIC *6025.44 +/-	3O0	4	0	4,501,125:13:4	
1999	98	152	21:34:05.200		DMS:	: *READY	RDY, TRACK 2, REV, TIC *6025.38 +/-	3O0	4	0	4,501,125:15:2	
2000	98	152	21:50:00.400	444UD443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	3O0	4	0	4,501,140:83:0	
2001	98	152	21:54:07.066	432JB6B	6RTDS2	NIMNCG,AACDSL,RT	AACS DESELECT	3O0	4	0	4,501,144:89:0	
2002	98	152	22:00:00.400	41SA99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	3O0	4	0	4,501,150:73:0	
2003	**98**	**152**	**22:01:54.400**	**41SA3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**3O0**	**4**	**0**	**4,501,152:62:0**	
2004	**98**	**152**	**22:02:04.400**	**41SA3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**3O0**	**4**	**0**	**4,501,152:77:0**	
2005	**98**	**152**	**22:02:14.400**	**41SA3I**	**40T2**	**1**	**PCT Heater 2 ON**	**3O0**	**4**	**0**	**4,501,153:01:0**	
2006	**98**	**152**	**22:02:24.400**	**41SA3J**	**40T2**	**2**	**PCT Heater 2 ON**	**3O0**	**4**	**0**	**4,501,153:16:0**	
2007	98	152	22:05:05.066	20UB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,501,155:75:0	
2008	98	152	22:05:55.066	20UB4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,501,156:59:0	
2009	98	152	22:06:16.400	176UA6A	6TMREC	IPB	INITIATE PLAYBACK (PB CONTROL) Record Mod	3O0	4	0	4,501,157:00:0	
2010	98	153	01:24:37.066	488AI6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,501,353:15:0	
2011	98	153	01:34:13.066	488AI6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,501,362:60:0	
2012	98	153	01:41:41.066	488AI6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	3O0	4	0	4,501,370:04:0	
2013	98	153	02:17:57.066	488AI6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,501,405:83:0	
2014	98	153	04:14:17.733	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3O0	4	0	4,501,520:89:0	
2015	98	153	04:18:25.733	20ZM6A	6EUVON			3O0	4	0	4,501,525:06:0	
2016	98	153	04:19:22.400	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	3O0	4	0	4,501,526:00:0	
2017	98	153	08:58:05.733	488AJ6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,501,801:60:0	
2018	98	153	09:03:17.066	488AJ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,501,806:72:0	
2019	98	153	09:13:57.066	488AJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,501,817:31:0	
2020	98	153	10:24:15.066	488AJ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,501,886:79:0	
2021	98	153	10:57:54.400	488AJ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,501,920:14:0	
2022	98	153	11:53:57.066	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,501,975:53:0	
2023	98	153	12:51:27.733	488AK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,502,032:42:0	
2024	98	153	12:55:49.066	488AK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,502,036:70:0	
2025	98	153	15:12:47.733	488AK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,502,172:22:0	
2026	98	153	15:29:25.066	488AK6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,502,188:62:0	
2027	98	153	16:37:41.066	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,502,256:18:0	
2028	98	153	18:31:44.400	176AA6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,502,369:00:0	
2029	98	153	18:34:45.733	165BA4A	7SCAN	NORM,83.332,25.2	Check S/P Position	3O0	4	0	4,502,371:90:0	
2030	98	153	18:39:53.733	20UP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,502,377:06:0	
2031	98	153	18:40:43.733	20UP4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,502,377:81:0	
2032	98	153	18:41:51.066	176AB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,502,379:00:0	
2033	98	153	20:52:31.000	488AL6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,502,508:21:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
2034	98	153	20:55:49.000	488AL6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,502,511:45:0	
2035	98	154	02:47:09.666	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	3O0	4	0	4,502,858:89:0	
2036	98	154	02:50:19.666	20YC6A	6HICON			3O0	4	0	4,502,862:10:0	
2037	98	154	02:51:13.666	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	3O0	4	0	4,502,863:00:0	
2038	98	154	08:54:10.333	488AM6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,503,221:87:0	
2039	98	154	09:03:17.000	488AM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,503,230:88:0	
2040	98	154	09:48:49.000	176UB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,503,276:00:0	
2041	98	154	09:51:05.666	20KA4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	3O0	4	0	4,503,278:23:0	
2042	**98**	**154**	**10:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2043	**98**	**154**	**10:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2044	**98**	**154**	**10:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2045	**98**	**154**	**10:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2046	**98**	**154**	**10:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2047	**98**	**154**	**10:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2048	**98**	**154**	**10:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2049	**98**	**154**	**10:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2050	**98**	**154**	**10:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**3O0**	**4**	**0**	**4,503,287:05:5**	
2051	98	154	10:00:00.333		DMS:	: READY	RDY, TRACK 2, REV, TIC 6025.38 +/-	3O0	4	0	4,503,287:06:0	

Sequence:	E15B-AR	Created: 09/09/98	Begin: 98-154/10:00:00 Finish: 98-201/05:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	**98**	**154**	**10:00:00.000**	**20A3EX**	**37HR**	**CMD,37HR,20A3EX,**	**Replacement Heaters OFF**	**3O0**	**4**	**0**	**4,503,287:05:5**
2	**98**	**154**	**10:00:00.000**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**3O0**	**4**	**0**	**4,503,287:05:5**
3	**98**	**154**	**10:00:00.000**	**20A3FF**	**40T2**	**CMD,40T2,20A3FF,**	**PCT Heater 2 ON**	**3O0**	**4**	**0**	**4,503,287:05:5**
4	**98**	**154**	**10:00:00.000**	**20A3FE**	**40T1P**	**CMD,40T1P,20A3FE**	**PCT Heater 1 ON (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**
5	**98**	**154**	**10:00:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**
6	**98**	**154**	**10:00:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**
7	**98**	**154**	**10:00:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**
8	**98**	**154**	**10:00:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**
9	**98**	**154**	**10:00:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**3O0**	**4**	**0**	**4,503,287:05:5**
10	98	154	10:00:00.333		DMS:	: READY	RDY, TRACK 2, REV, TIC 6025.38 +/-	3O0	4	0	4,503,287:06:0
11	98	154	10:00:53.000	488AA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,503,287:85:0
12	**98**	**154**	**10:01:56.333**	**432NA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**3O0**	**4**	**0**	**4,503,288:89:0**
13	98	154	10:05:04.333	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,503,292:07:0
14	98	154	10:05:54.333	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,503,292:82:0
15	98	154	10:07:01.000	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,503,294:00:0
16	98	154	10:19:10.333	488AA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,503,306:02:0
17	98	154	10:52:49.666	488AA6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,503,339:28:0
18	98	154	11:02:45.000	488AA6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,503,349:11:0
19	98	154	11:05:00.333	488AB6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	3O0	4	0	4,503,351:32:0
20	98	154	11:08:41.666	176NC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,503,355:00:0
21	98	154	11:12:12.333	20NW6BA	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	3O0	4	0	4,503,358:43:0
22	98	154	11:18:56.333	20NW6F	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	3O0	4	0	4,503,365:12:0
23	98	154	11:32:30.333	20NW6K	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	3O0	4	0	4,503,378:50:0
24	98	154	11:46:38.333	20NW4I	**7MODE**	**INT**	AACS INERTIAL MODE	3O0	4	0	4,503,392:48:0
25	98	154	12:01:38.333	20NW4K	7SLEW	INIT,POS,17.45	Stator movement	3O0	4	0	4,503,407:33:0
26	98	154	12:13:38.333	20NW4L	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,503,419:21:0
27	98	154	12:20:38.333	20NW4M	7SLEW	INIT,NEG,17.45	Stator movement	3O0	4	0	4,503,426:14:0
28	98	154	12:32:38.333	20NW4N	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,503,438:02:0
29	98	154	12:39:38.333	20NW4O	7SLEW	INIT,POS,4.36	Stator movement	3O0	4	0	4,503,444:86:0
30	98	154	12:51:38.333	20NW4P	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,503,456:74:0
31	98	154	12:58:38.333	20NW4Q	7SLEW	INIT,NEG,4.36	Stator movement	3O0	4	0	4,503,463:67:0
32	98	154	13:10:38.333	20NW4R	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,503,475:55:0
33	98	154	13:17:38.333	20NW4S	**7CONE**	**17.45,0.0**	Check S/P Position	3O0	4	0	4,503,482:48:0
34	98	154	13:23:38.333	20NW4T	**7CONE**	**17.45,180.0**	Check S/P Position	3O0	4	0	4,503,488:42:0
35	98	154	13:29:38.333	20NW4U	**7CONE**	**4.36,0.0**	Check S/P Position	3O0	4	0	4,503,494:36:0
36	98	154	13:44:38.333	20NW4V	**7CONE**	**4.36,153.0**	Check S/P Position	3O0	4	0	4,503,509:21:0
37	98	154	14:21:42.333	20NW4AG	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	3O0	4	0	4,503,545:81:0
38	98	154	14:25:42.333	20NW4AH	**7MODE**	**CRU**	AACS CRUISE MODE	3O0	4	0	4,503,549:77:0
39	98	154	14:33:57.000	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	3O0	4	0	4,503,558:00:0
40	98	154	14:34:22.333	20NW6U	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	3O0	4	0	4,503,558:38:0
41	98	154	14:39:22.333	20NW4AM	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,503,563:33:0
42	98	154	14:41:01.666	176ND6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,503,565:00:0
43	98	154	14:48:30.333	20NW6BB	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	3O0	4	0	4,503,572:36:0
44	98	154	14:50:00.333	20NW6Y	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	3O0	4	0	4,503,573:80:0
45	98	154	14:56:48.333	488AB6B	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	3O0	4	0	4,503,580:55:0
46	98	154	15:00:00.333	488AB6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,503,583:70:0
47	98	154	15:01:41.000	488AB6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,503,585:39:0
48	98	154	15:07:52.333	488AB6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,503,591:50:0
49	98	154	15:18:45.000	488AC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,503,602:28:0
50	98	154	16:18:29.000	488AC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,503,661:35:0
51	98	154	16:23:18.333	488AC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,503,666:14:0
52	98	154	16:50:08.333	488AC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,503,692:63:0
53	98	155	00:00:00.333	481UB4A	7VECT		Inert vect update UTC	3O0	4	0	4,504,117:76:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	98	155	00:16:21.000	488AD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,504,134:00:0	
55	98	155	01:16:05.000	488AD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,504,193:07:0	
56	98	155	01:30:46.333	488AD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,504,207:55:0	
57	98	155	01:35:17.000	488AD6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,504,212:06:0	
58	98	155	01:50:13.000	488AD6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,504,226:76:0	
59	98	155	08:49:16.266	488AE6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,504,641:26:0	
60	98	155	08:59:00.933	488AE6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,504,650:84:0	
61	98	155	10:19:04.933	488AE6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,504,730:10:0	
62	98	155	10:47:48.933	488AE6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,504,758:48:0	
63	98	155	10:51:12.933	488AE6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,504,761:81:0	
64	98	155	14:51:23.600	488AF6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,504,999:39:0	
65	98	155	14:55:16.933	488AF6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,003:25:0	
66	98	155	15:02:57.600	488AF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,010:79:0	
67	98	155	16:09:02.933	488AF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,076:21:0	
68	98	155	16:47:42.266	488AF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,114:42:0	
69	98	155	16:54:44.933	488AG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,505,121:39:0	
70	98	155	20:11:08.933	488AG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,505,315:61:0	
71	98	155	20:15:16.933	488AG6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,505,319:69:0	
72	98	156	01:34:20.266	488AH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,505,635:28:0	
73	98	156	01:43:48.933	488AH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,644:62:0	
74	98	156	02:54:00.933	488AH6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,714:10:0	
75	98	156	03:27:40.266	488AH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,505,747:36:0	
76	98	156	04:57:56.933	488AH6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,505,836:62:0	
77	98	156	07:50:44.933	488AI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,506,007:53:0	
78	98	156	11:07:00.866	488AI6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,506,201:63:0	
79	98	156	11:22:18.200	488AI6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,506,216:74:0	
80	98	156	11:34:44.866	488AI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,506,229:11:0	
81	98	156	15:03:03.533	488AJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,506,435:13:0	
82	98	156	15:14:28.866	488AJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,506,446:40:0	
83	98	156	15:53:00.200	488AJ6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	3O0	4	0	4,506,484:49:0	
84	98	156	15:57:30.866	176SB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,506,489:00:0	
85	98	156	16:03:32.866	488AJ6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	3O0	4	0	4,506,494:88:0	
86	98	156	16:09:00.200	20AB4C	7STAT	17.45,269.2255,4	Stator inertial point	3O0	4	0	4,506,500:33:0	
87	98	156	16:30:00.200	474AA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	3O0	4	0	4,506,521:12:0	
88	98	156	16:32:00.200	474AA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	3O0	4	0	4,506,523:10:0	
89	98	156	16:32:20.200	20AB4D	7STAT	17.45,269.2255,4	Stator inertial point	3O0	4	0	4,506,523:40:0	
90	98	156	16:36:14.200	474AA416A4E	7BURN	POSZ,269.225498,	ALERT -- Thruster fire	3O0	4	0	4,506,527:27:0	
91	98	156	16:57:14.200	20AB4M	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,506,548:06:0	
92	98	156	17:02:06.200	20AB4N	**7MODE**	**CRU**	AACS CRUISE MODE	3O0	4	0	4,506,552:80:0	
93	98	156	18:09:38.200	20AE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,506,619:61:0	
94	98	156	18:10:28.200	20AE4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,506,620:45:0	
95	98	156	18:11:59.533	176AB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,506,622:00:0	
96	98	157	00:16:20.866	488AK6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	3O0	4	0	4,506,982:32:0	
97	98	157	01:11:48.866	488AK6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	3O0	4	0	4,507,037:19:0	
98	98	157	01:30:00.200	488AK6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,507,055:18:0	
99	98	157	01:35:16.866	488AK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,507,060:38:0	
100	98	157	01:43:57.533	176SC6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,507,069:00:0	
101	98	157	02:43:55.533	488AK6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,507,128:28:0	
102	98	157	03:17:34.200	488AL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,507,161:53:0	
103	98	157	04:38:44.866	488AL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,507,241:79:0	
104	98	157	08:05:40.866	488AL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,507,446:48:0	
105	98	157	09:24:36.866	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,507,524:54:0	
106	98	157	10:06:39.533	488AM6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,507,566:16:0	
107	98	157	10:35:45.533	488AM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,507,594:87:0	
108	98	157	11:13:24.866	488AM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,507,632:18:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	98	157	14:53:08.866	488AM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	3O0	4	0	4,507,849:47:0	
110	98	157	15:56:50.200	488AN6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	3O0	4	0	4,507,912:46:0	
111	98	157	15:59:16.866	488AN6B	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	3O0	4	0	4,507,914:84:0	
112	98	157	16:00:56.866	488AN6C	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	3O0	4	0	4,507,916:52:0	
113	98	157	18:26:28.800	488AN6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	3O0	4	0	4,508,060:46:0	
114	98	157	19:00:36.800	488AN6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,508,094:24:0	
115	98	158	00:16:20.800	488AO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,508,406:48:0	
116	98	158	01:05:24.800	488AO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,508,455:05:0	
117	98	158	01:18:26.800	488AO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,508,467:86:0	
118	98	158	01:20:20.800	488AO6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,508,469:75:0	
119	98	158	01:35:16.800	488AO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,508,484:54:0	
120	98	158	14:53:15.466	488AP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,509,273:73:0	
121	98	158	15:03:48.800	488AP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,509,284:22:0	
122	98	158	15:48:36.800	488AP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,509,328:50:0	
123	98	159	00:16:20.733	488AQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,509,830:64:0	
124	98	159	01:05:24.733	488AQ6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,509,879:21:0	
125	98	159	01:28:52.733	488AQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,509,902:40:0	
126	98	159	02:38:43.400	488AQ6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,509,971:47:0	
127	98	159	03:12:22.733	488AQ6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,510,004:73:0	
128	98	159	04:13:08.733	488AR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,510,064:82:0	
129	98	159	08:12:04.733	488AR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,510,301:19:0	
130	98	159	11:00:36.733	488AS6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,510,467:81:0	
131	98	159	11:12:36.733	488AS6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,510,479:69:0	
132	98	159	11:24:04.733	488AS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,510,491:09:0	
133	98	159	14:53:21.400	488AS6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,510,698:07:0	
134	98	159	15:03:48.733	488AS6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,510,708:38:0	
135	98	159	15:48:36.733	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,510,752:66:0	
136	98	159	20:52:44.733	488AT6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,511,053:47:0	
137	98	159	20:55:48.733	488AT6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,511,056:50:0	
138	98	160	01:04:44.733	488AU6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,511,302:68:0	
139	98	160	01:13:56.733	488AU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,511,311:77:0	
140	98	160	02:13:40.733	488AU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,511,370:84:0	
141	98	160	08:20:36.666	488AV6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,511,733:75:0	
142	98	160	08:44:04.666	488AV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,511,757:03:0	
143	98	160	09:58:35.333	488AV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,511,830:66:0	
144	98	160	10:22:12.666	488AV6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,511,854:08:0	
145	98	160	10:29:00.666	488AV6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,511,860:74:0	
146	98	160	14:36:46.000	488AW6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,512,105:77:0	
147	98	160	14:40:20.666	488AW6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,512,109:35:0	
148	98	161	08:28:32.666	488AX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,513,165:77:0	
149	98	161	09:09:40.666	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,513,206:48:0	
150	98	161	09:57:40.666	176ST6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,513,254:00:0	
151	98	161	10:02:00.000	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,513,258:25:0	
152	98	161	10:03:00.000	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	3O0	4	0	4,513,259:24:0	
153	98	161	10:05:00.000	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	3O0	4	0	4,513,261:22:0	
154	98	161	10:10:30.000	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	3O0	4	0	4,513,266:62:0	
155	98	161	10:10:30.666	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	3O0	4	0	4,513,266:63:0	
156	98	161	10:10:50.666	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	3O0	4	0	4,513,267:02:0	
157	98	161	10:10:51.333	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	3O0	4	0	4,513,267:03:0	
158	98	161	10:11:11.333	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	3O0	4	0	4,513,267:33:0	
159	98	161	10:11:12.000	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	3O0	4	0	4,513,267:34:0	
160	98	161	10:11:22.000	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	3O0	4	0	4,513,267:49:0	
161	98	161	10:11:22.666	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	3O0	4	0	4,513,267:50:0	
162	98	161	10:11:32.666	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	3O0	4	0	4,513,267:65:0	
163	98	161	10:11:33.333	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	3O0	4	0	4,513,267:66:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	98	161	10:13:20.000	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	3O0	4	0	4,513,269:44:0	
165	98	161	10:13:20.666	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	3O0	4	0	4,513,269:45:0	
166	98	161	10:13:40.666	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	3O0	4	0	4,513,269:75:0	
167	98	161	10:13:41.333	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	3O0	4	0	4,513,269:76:0	
168	98	161	10:14:01.333	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	3O0	4	0	4,513,270:15:0	
169	98	161	10:14:02.000	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	3O0	4	0	4,513,270:16:0	
170	98	161	10:14:12.000	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	3O0	4	0	4,513,270:31:0	
171	98	161	10:14:12.666	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	3O0	4	0	4,513,270:32:0	
172	98	161	10:14:22.666	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	3O0	4	0	4,513,270:47:0	
173	98	161	10:14:23.333	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	3O0	4	0	4,513,270:48:0	
174	98	161	10:15:20.000	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	3O0	4	0	4,513,271:42:0	
175	98	161	10:40:04.000	20UJ4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,513,295:84:0	
176	98	161	10:40:54.000	20UJ4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,513,296:68:0	
177	98	161	10:42:10.000	176SU6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,513,298:00:0	
178	98	161	10:49:56.666	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,513,305:63:0	
179	98	161	14:33:09.266	488AY6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,513,526:41:0	
180	98	161	14:36:04.600	488AY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,513,529:31:0	
181	98	161	14:43:34.600	488AY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,513,536:69:0	
182	98	161	14:55:16.600	488AY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,513,548:30:0	
183	98	161	15:40:04.600	488AY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,513,592:58:0	
184	98	162	00:05:40.600	488AZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,514,092:62:0	
185	98	162	00:56:52.600	488AZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,514,143:29:0	
186	98	162	01:06:53.933	488AZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,514,153:21:0	
187	98	162	01:11:48.600	488AZ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,514,158:08:0	
188	98	162	01:26:44.600	488AZ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,514,172:78:0	
189	98	162	08:23:39.266	488BA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,514,585:17:0	
190	98	162	09:05:24.600	488BA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,514,626:44:0	
191	98	162	10:43:32.600	488BA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,514,723:49:0	
192	98	162	14:33:12.600	488BB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,514,950:62:0	
193	98	162	14:36:04.600	488BB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,514,953:47:0	
194	98	162	14:43:40.600	488BB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,514,961:03:0	
195	98	162	14:55:16.600	488BB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,514,972:46:0	
196	98	162	15:33:40.600	488BB6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,515,010:44:0	
197	98	163	00:01:24.533	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,515,512:58:0	
198	98	163	00:52:36.533	488BC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,515,563:25:0	
199	98	163	01:01:39.866	488BC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,515,572:21:0	
200	98	163	01:07:32.533	488BC6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	3O0	4	0	4,515,578:04:0	
201	98	163	01:43:48.533	488BC6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,515,613:83:0	
202	98	163	14:38:47.200	488BD6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,516,380:34:0	
203	98	163	15:48:14.533	488BD6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,516,449:06:0	
204	98	163	16:12:04.533	488BD6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,516,472:58:0	
205	98	163	16:18:43.866	488BD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,516,479:20:0	
206	98	163	23:20:52.533	488BE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,516,896:66:0	
207	98	164	00:52:09.200	488BE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,516,987:00:0	
208	98	164	00:56:52.533	488BE6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	3O0	4	0	4,516,991:61:0	
209	98	164	01:33:08.533	488BE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,517,027:49:0	
210	98	164	08:18:52.466	488BF6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,517,428:74:0	
211	98	164	08:54:44.466	488BF6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,517,464:26:0	
212	98	164	10:39:16.466	488BF6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,517,567:61:0	
213	98	164	14:18:21.800	488BF6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,517,784:32:0	
214	98	164	14:21:08.466	488BG6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,517,787:09:0	
215	98	164	14:33:54.466	488BG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,517,799:66:0	
216	98	164	14:44:36.466	488BG6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,517,810:28:0	
217	98	164	15:29:24.466	488BG6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,517,854:56:0	
218	98	164	23:57:08.466	488BH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,518,356:70:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	98	165	00:41:56.466	488BH6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,518,401:07:0	
220	98	165	01:05:24.466	488BH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,518,424:26:0	
221	98	165	02:18:04.466	488BH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,518,496:14:0	
222	98	165	02:51:43.133	488BH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,518,529:39:0	
223	98	165	03:45:24.466	488BI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,518,582:48:0	
224	98	165	08:01:24.466	488BI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,518,835:65:0	
225	98	165	10:41:24.466	488BJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,518,993:87:0	
226	98	165	10:48:16.400	488BJ6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,519,000:68:0	
227	98	165	11:00:36.400	488BJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,519,012:86:0	
228	98	165	14:29:01.733	488BJ6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,519,219:07:0	
229	98	165	14:40:20.400	488BJ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,519,230:24:0	
230	98	165	15:25:08.400	488BK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,519,274:52:0	
231	98	165	23:52:52.400	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,519,776:66:0	
232	98	166	00:41:56.400	488BL6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,519,825:23:0	
233	98	166	01:05:24.400	488BL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,519,848:42:0	
234	98	166	02:12:57.066	488BL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,519,915:24:0	
235	98	166	02:46:36.400	488BL6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,519,948:50:0	
236	98	166	03:39:00.400	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,520,000:34:0	
237	98	166	07:57:08.400	488BM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,520,255:61:0	
238	98	166	08:50:28.400	488BM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,520,308:38:0	
239	98	166	09:35:41.733	488BM6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,520,353:13:0	
240	98	166	10:04:47.733	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,520,381:84:0	
241	98	166	10:35:00.400	488BN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,520,411:73:0	
242	98	166	13:54:15.066	488BN6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,520,608:78:0	
243	98	166	13:57:40.400	488BN6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,520,612:22:0	
244	98	166	14:29:08.400	488BN6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,520,643:33:0	
245	98	166	14:40:20.400	488BO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,520,654:40:0	
246	98	166	15:25:08.400	488BO6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,520,698:68:0	
247	98	166	20:54:20.333	488BP6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,521,024:30:0	
248	98	166	20:57:56.333	488BP6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,521,027:81:0	
249	98	167	08:05:33.666	488BQ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,521,688:16:0	
250	98	167	08:14:12.333	488BQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,521,696:66:0	
251	98	167	08:44:04.333	488BQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,521,726:24:0	
252	98	167	10:30:44.333	488BQ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,521,831:69:0	
253	98	167	12:59:03.666	488BQ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,521,978:41:0	
254	98	167	13:02:12.333	488BR6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,521,981:51:0	
255	98	167	14:24:15.666	488BR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,522,062:65:0	
256	98	167	14:33:56.333	488BR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,522,072:26:0	
257	98	167	15:20:52.333	488BR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,522,118:64:0	
258	98	167	23:42:12.333	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,522,614:48:0	
259	98	168	00:31:16.333	488BS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,522,663:05:0	
260	98	168	00:44:26.333	488BS6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,522,676:07:0	
261	98	168	00:46:12.333	488BS6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,522,677:75:0	
262	98	168	01:01:08.266	488BS6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,522,692:54:0	
263	98	168	08:54:20.266	488BT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,523,160:54:0	
264	98	168	09:45:56.266	488BT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,523,211:57:0	
265	98	168	10:15:26.266	488BT6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,523,240:73:0	
266	98	168	10:44:32.933	488BT6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,523,269:54:0	
267	98	168	14:12:52.266	488BT6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,523,475:57:0	
268	98	168	14:16:52.266	488BU6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,523,479:53:0	
269	98	168	14:24:22.266	488BU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,523,487:00:0	
270	98	168	14:36:04.266	488BU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,523,498:52:0	
271	98	168	15:20:52.266	488BU6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,523,542:80:0	
272	98	168	15:36:48.933	488BU6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,523,558:59:0	
273	98	168	16:03:38.266	488BV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,523,585:16:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	98	168	19:34:25.600	488BV6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,523,793:59:0	
275	98	168	19:36:52.266	488BV6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,523,796:06:0	
276	98	169	08:52:40.866	488BW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,524,583:12:0	
277	98	169	10:30:44.200	488BW6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,524,680:10:0	
278	98	169	13:54:24.866	488BW6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,524,881:50:0	
279	98	169	13:57:40.200	488BW6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,524,884:70:0	
280	98	169	14:19:29.533	488BW6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,524,906:32:0	
281	98	169	14:29:40.200	488BX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,524,916:38:0	
282	98	169	15:14:28.200	488BX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,524,960:66:0	
283	98	169	23:31:32.200	488BY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,525,452:30:0	
284	98	170	00:22:44.200	488BY6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,525,502:88:0	
285	98	170	00:33:24.200	488BY6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,525,513:47:0	
286	98	170	00:50:28.200	488BY6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,525,530:36:0	
287	98	170	01:57:29.533	488BY6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,525,596:62:0	
288	98	170	02:31:08.200	488BZ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,525,629:87:0	
289	98	170	03:41:08.200	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,525,699:17:0	
290	98	170	07:31:32.200	488BZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,525,927:05:0	
291	98	170	08:35:32.200	488CA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,525,990:32:0	
292	98	170	09:20:12.200	488CA6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,526,034:48:0	
293	98	170	09:49:18.866	488CA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,526,063:29:0	
294	98	170	10:30:44.200	488CA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,526,104:26:0	
295	98	170	14:04:48.200	488CA6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,526,316:00:0	
296	98	170	14:08:20.200	488CB6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,526,319:45:0	
297	98	170	14:14:36.200	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,526,325:63:0	
298	98	170	14:25:24.200	488CB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,526,336:34:0	
299	98	170	15:14:28.133	488CB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,526,384:82:0	
300	98	170	23:27:16.133	488CC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,526,872:26:0	
301	98	171	00:22:44.133	488CC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,526,927:13:0	
302	98	171	00:31:56.800	488CC6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,526,936:23:0	
303	98	171	00:37:40.133	488CC6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	3O0	4	0	4,526,941:83:0	
304	98	171	01:13:56.133	488CC6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,526,977:71:0	
305	98	171	07:51:01.466	488CD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,527,370:46:0	
306	98	171	08:01:24.133	488CD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,527,380:70:0	
307	98	171	08:35:32.133	488CD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,527,414:48:0	
308	98	171	10:30:44.133	488CD6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,527,528:42:0	
309	98	171	14:04:51.466	488CE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,527,740:21:0	
310	98	171	14:08:20.133	488CE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,527,743:61:0	
311	98	171	14:14:43.466	488CE6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,527,749:90:0	
312	98	171	14:25:24.133	488CE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,527,760:50:0	
313	98	171	15:10:12.133	488CE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,527,804:78:0	
314	98	171	23:23:00.066	488CF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,528,292:22:0	
315	98	172	00:18:28.066	488CF6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,528,347:09:0	
316	98	172	00:39:48.066	488CF6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,528,368:18:0	
317	98	172	01:47:14.066	488CF6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,528,434:81:0	
318	98	172	02:20:53.400	488CF6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,528,468:16:0	
319	98	172	03:49:40.066	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,528,555:89:0	
320	98	172	07:08:04.066	488CG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,528,752:18:0	
321	98	172	10:01:11.400	488CH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,528,923:38:0	
322	98	172	14:09:51.400	488CH6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,529,169:32:0	
323	98	172	14:21:08.066	488CH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,529,180:46:0	
324	98	172	15:10:12.066	488CH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,529,229:03:0	
325	98	172	23:18:44.066	488CI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,529,712:18:0	
326	98	173	00:12:04.066	488CI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,529,764:86:0	
327	98	173	01:35:16.066	488CI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,529,847:21:0	
328	98	173	07:33:40.000	488CJ6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,530,201:63:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	98	173	07:57:08.000	488CJ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,530,224	82:0
330	98	173	09:07:04.000	488CJ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,530,294	06:0
331	98	173	09:35:16.000	488CJ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,530,321	87:0
332	98	173	09:39:00.666	488CJ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,530,325	60:0
333	98	173	13:53:32.000	488CK6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,530,577	35:0
334	98	173	13:57:40.000	488CK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,530,581	43:0
335	98	173	14:04:58.666	488CK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,530,588	64:0
336	98	173	14:14:44.000	488CK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,530,598	32:0
337	98	173	15:10:12.000	488CK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,530,653	19:0
338	98	173	15:16:11.333	488CL6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,530,659	12:0
339	98	173	15:43:01.333	488CL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,530,685	61:0
340	98	173	17:25:16.000	488CL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,530,786	72:0
341	98	173	17:28:52.000	488CL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,530,790	32:0
342	98	174	14:05:06.600	488CM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,532,013	01:0
343	98	174	14:16:51.933	488CM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,532,024	58:0
344	98	174	15:10:11.933	488CM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,532,077	35:0
345	98	174	23:03:47.933	488CN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,532,545	71:0
346	98	175	00:03:31.933	488CN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,532,604	78:0
347	98	175	00:20:37.933	488CN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,532,621	70:0
348	98	175	00:22:43.933	488CN6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,532,623	77:0
349	98	175	00:37:39.933	488CN6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,532,638	56:0
350	98	175	07:36:31.266	488CO6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,533,052	79:0
351	98	175	07:46:27.933	488CO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,533,062	64:0
352	98	175	09:01:49.266	488CO6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,533,137	21:0
353	98	175	09:35:28.600	488CO6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,533,170	47:0
354	98	175	09:41:39.933	488CO6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,533,176	58:0
355	98	175	13:48:56.600	488CP6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,533,421	18:0
356	98	175	13:53:23.933	488CP6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,533,425	55:0
357	98	175	14:00:13.266	488CP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,533,432	32:0
358	98	175	14:10:27.933	488CP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,533,442	44:0
359	98	175	15:10:11.933	488CP6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,533,501	51:0
360	98	175	15:10:57.933	488CQ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,533,502	29:0
361	98	175	15:37:47.266	488CQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,533,528	77:0
362	98	175	17:40:16.600	488CQ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,533,649	90:0
363	98	175	17:43:47.933	488CQ6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,533,653	43:0
364	98	176	02:57:24.533	176SN6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,534,201	00:0
365	98	176	03:03:28.533		DMS:	: *SLEW-TIC	P7, TRACK 2, REV, TIC 6025.38 +/-	3O0	4	0	4,534,207	00:0
366	98	176	03:03:28.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 6025.38 +/-	3O0	4	0	4,534,207	00:0
367	98	176	03:03:28.533		DMS:	: *TURNARND	P7, TRACK 2, REV, TIC 6025.38 +/-	3O0	4	0	4,534,207	00:0
368	98	176	03:03:28.533	465SA6A	6DMST	5000	DMS Slew to TIC	3O0	4	0	4,534,207	00:0
369	98	176	03:03:29.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6025.50 +/-	3O0	4	0	4,534,207	02:1
370	98	176	03:03:35.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6026.73 +/-	3O0	4	0	4,534,207	10:0
371	98	176	03:03:36.400		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *6026.79 +/-	3O0	4	0	4,534,207	11:8
372	98	176	03:03:37.800		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *6026.67 +/-	3O0	4	0	4,534,207	13:9
373	98	176	04:16:28.666		DMS:	: *RUNDOWN	P7, TRACK 2, REV, TIC *5002.06 +/-	3O0	4	0	4,534,279	18:2
374	98	176	04:16:29.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5002.00 +/-	3O0	4	0	4,534,279	20:0
375	98	176	07:36:39.866	488CR6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,534,477	17:0
376	98	176	07:46:27.866	488CR6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,534,486	80:0
377	98	176	08:56:42.533	488CR6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,534,556	32:0
378	98	176	08:57:09.866	465SB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	3O0	4	0	4,534,556	73:0
379	98	176	08:57:09.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5002.00 +/-	3O0	4	0	4,534,556	73:0
380	98	176	08:57:11.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5002.12 +/-	3O0	4	0	4,534,556	75:1
381	98	176	08:57:16.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5003.35 +/-	3O0	4	0	4,534,556	83:0
382	98	176	08:57:17.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5003.41 +/-	3O0	4	0	4,534,556	84:8
383	98	176	08:57:21.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4997.91 +/-	3O0	4	0	4,534,556	90:6

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	98	176	08:57:21.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4997.91 +/-	3O0	4	0	4,534,556:90:6	
385	98	176	09:23:01.866		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 259.79 +/-	3O0	4	0	4,534,582:35:0	
386	98	176	09:23:01.866	465SB6B	6DMSC	RDY,4	DMS Control Tape stop	3O0	4	0	4,534,582:35:0	
387	98	176	09:23:03.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 258.99 +/-	3O0	4	0	4,534,582:36:8	
388	98	176	09:30:21.200	488CR6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,534,589:57:0	
389	98	176	09:45:55.866	488CR6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,534,605:03:0	
390	98	176	11:20:49.866		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 258.99 +/-	3O0	4	0	4,534,698:81:0	
391	98	176	11:20:49.866	465SC6A	6DTRN	CMD,6DTRN,465SC6	DMS TRACK TURNAROUND	3O0	4	0	4,534,698:81:0	
392	98	176	11:20:49.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 258.99 +/-	3O0	4	0	4,534,698:81:0	
393	98	176	11:20:51.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 259.11 +/-	3O0	4	0	4,534,698:83:1	
394	98	176	11:20:56.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 260.34 +/-	3O0	4	0	4,534,699:00:0	
395	98	176	11:20:57.733		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 260.40 +/-	3O0	4	0	4,534,699:01:8	
396	98	176	11:20:59.133		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 260.28 +/-	3O0	4	0	4,534,699:03:9	
397	98	176	11:25:16.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	3O0	4	0	4,534,703:26:5	
398	98	176	11:25:18.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	3O0	4	0	4,534,703:28:3	
399	98	176	11:25:18.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	3O0	4	0	4,534,703:28:3	
400	98	176	11:25:19.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	3O0	4	0	4,534,703:30:4	
401	98	176	11:25:31.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	3O0	4	0	4,534,703:48:4	
402	98	176	11:25:32.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	3O0	4	0	4,534,703:50:2	
403	98	176	11:31:53.200	465SD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	3O0	4	0	4,534,709:75:0	
404	98	176	11:31:53.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	3O0	4	0	4,534,709:75:0	
405	98	176	11:31:59.866		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	3O0	4	0	4,534,709:85:0	
406	98	176	11:32:03.733		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	3O0	4	0	4,534,709:90:8	
407	98	176	11:32:03.733		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	3O0	4	0	4,534,709:90:8	
408	98	176	12:03:47.200	465SD6B	6DMSC	RDY,1	DMS Control Tape stop	3O0	4	0	4,534,741:34:0	
409	98	176	12:03:47.200		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	3O0	4	0	4,534,741:34:0	
410	98	176	12:03:48.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	3O0	4	0	4,534,741:35:8	
411	98	176	12:19:23.200		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	3O0	4	0	4,534,756:73:0	
412	98	176	12:19:23.200	465SE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	3O0	4	0	4,534,756:73:0	
413	98	176	12:19:24.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	3O0	4	0	4,534,756:75:1	
414	98	176	12:19:29.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	3O0	4	0	4,534,756:83:0	
415	98	176	12:19:31.066		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	3O0	4	0	4,534,756:84:8	
416	98	176	12:19:34.933		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	3O0	4	0	4,534,756:90:6	
417	98	176	12:19:34.933		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	3O0	4	0	4,534,756:90:6	
418	98	176	12:51:31.200		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	3O0	4	0	4,534,788:53:0	
419	98	176	12:51:31.200	465SF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	3O0	4	0	4,534,788:53:0	
420	98	176	12:51:32.400		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	3O0	4	0	4,534,788:54:8	
421	98	176	12:51:36.266		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	3O0	4	0	4,534,788:60:6	
422	98	176	12:51:36.266		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	3O0	4	0	4,534,788:60:6	
423	98	176	13:23:31.866		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	3O0	4	0	4,534,820:22:0	
424	98	176	13:23:31.866	465SF6B	6DMSC	RDY,3	DMS Control Tape stop	3O0	4	0	4,534,820:22:0	
425	98	176	13:23:33.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	3O0	4	0	4,534,820:23:8	
426	98	176	13:38:15.200	465SG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	3O0	4	0	4,534,834:73:0	
427	98	176	13:38:15.200		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	3O0	4	0	4,534,834:73:0	
428	98	176	13:38:16.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	3O0	4	0	4,534,834:75:1	
429	98	176	13:38:21.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	3O0	4	0	4,534,834:83:0	
430	98	176	13:38:23.066		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	3O0	4	0	4,534,834:84:8	
431	98	176	13:38:26.933		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	3O0	4	0	4,534,834:90:6	
432	98	176	13:38:26.933		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	3O0	4	0	4,534,834:90:6	
433	98	176	13:44:16.533	488CS6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,534,840:69:0	
434	98	176	13:49:07.866	488CS6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,534,845:51:0	
435	98	176	13:55:21.200	488CS6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,534,851:65:0	
436	98	176	14:06:11.866	488CS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,534,862:40:0	
437	98	176	14:10:22.533		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	3O0	4	0	4,534,866:52:0	
438	98	176	14:10:22.533	465SH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	3O0	4	0	4,534,866:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	98	176	14:10:23.733		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	3O0	4	0	4,534,866:53:8	
440	98	176	14:10:27.600		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	3O0	4	0	4,534,866:59:6	
441	98	176	14:10:27.600		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	3O0	4	0	4,534,866:59:6	
442	98	176	14:11:28.533		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	3O0	4	0	4,534,867:60:0	
443	98	176	14:11:28.533	465SH6B	6DMSC	RDY,3	DMS Control Tape stop	3O0	4	0	4,534,867:60:0	
444	98	176	14:11:29.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	3O0	4	0	4,534,867:61:8	
445	98	176	14:25:58.533		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	3O0	4	0	4,534,882:00:0	
446	98	176	14:25:58.533	465SI6A	6DMSC	RDY,4	DMS Control Tape stop	3O0	4	0	4,534,882:00:0	
447	98	176	14:26:52.533		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	3O0	4	0	4,534,882:81:0	
448	98	176	14:26:52.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	3O0	4	0	4,534,882:81:0	
449	98	176	14:26:52.533	465SJ6A	6DTRN	CMD,6DTRN,465SJ6	DMS TRACK TURNAROUND	3O0	4	0	4,534,882:81:0	
450	98	176	14:26:53.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	3O0	4	0	4,534,882:83:1	
451	98	176	14:26:59.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	3O0	4	0	4,534,883:00:0	
452	98	176	14:27:00.400		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	3O0	4	0	4,534,883:01:8	
453	98	176	14:27:01.800		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	3O0	4	0	4,534,883:03:9	
454	98	176	14:38:27.600		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	3O0	4	0	4,534,894:31:6	
455	98	176	14:38:28.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	3O0	4	0	4,534,894:33:4	
456	98	176	14:38:28.800		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	3O0	4	0	4,534,894:33:4	
457	98	176	14:38:30.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	3O0	4	0	4,534,894:35:5	
458	98	176	14:38:42.200		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	3O0	4	0	4,534,894:53:5	
459	98	176	14:38:43.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	3O0	4	0	4,534,894:55:3	
460	98	176	14:55:57.866	20UG4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,534,911:60:0	
461	98	176	14:56:47.866	20UG4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,534,912:44:0	
462	98	176	14:58:19.866	176SO6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,534,914:00:0	
463	98	176	15:04:26.533	488CS6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,534,920:04:0	
464	98	176	15:25:07.866	488CT6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,534,940:46:0	
465	98	176	15:31:31.200	488CT6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,534,946:75:0	
466	98	176	22:42:27.866	488CU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,535,373:03:0	
467	98	176	23:52:51.866	488CU6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,535,442:60:0	
468	98	177	00:07:47.866	488CU6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,535,457:39:0	
469	98	177	00:26:59.866	488CU6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,535,476:38:0	
470	98	177	01:31:37.200	488CU6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,535,540:30:0	
471	98	177	02:05:16.466	488CV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,535,573:56:0	
472	98	177	08:51:34.466	488CW6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,535,975:41:0	
473	98	177	09:30:13.133	488CW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,536,013:61:0	
474	98	177	09:50:11.800	488CW6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,536,033:39:0	
475	98	177	13:44:21.133	488CW6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,536,265:01:0	
476	98	177	13:49:07.800	488CW6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,536,269:67:0	
477	98	177	13:55:28.466	488CX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,536,276:01:0	
478	98	177	14:06:11.800	488CX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,536,286:56:0	
479	98	177	15:04:18.466	488CX6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,536,344:08:0	
480	98	177	15:25:07.800	488CX6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,536,364:62:0	
481	98	177	15:31:25.133	488CX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,536,370:82:0	
482	98	177	15:53:00.466	488CY6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	3O0	4	0	4,536,392:23:0	
483	98	177	15:57:48.466	176SD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,536,397:00:0	
484	98	177	16:08:59.800	20BB4C	7STAT	17.45,265.7538,4	Stator inertial point	3O0	4	0	4,536,408:06:0	
485	98	177	16:29:59.800	474BA416A4B	**7MODE**	**INT**	AACS INERTIAL MODE	3O0	4	0	4,536,428:76:0	
486	98	177	16:31:59.800	474BA416A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	3O0	4	0	4,536,430:74:0	
487	98	177	16:32:19.800	20BB4D	7STAT	17.45,265.7538,4	Stator inertial point	3O0	4	0	4,536,431:13:0	
488	98	177	16:36:13.800	474BA416A4E	7BURN	SZ,265.753799,4.	ALERT -- Thruster fire	3O0	4	0	4,536,435:00:0	
489	98	177	16:42:43.133	20BB4F	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,536,441:38:0	
490	98	177	16:48:35.133	20BB4G	**7MODE**	**CRU**	AACS CRUISE MODE	3O0	4	0	4,536,447:20:0	
491	98	177	17:12:51.133	20BB4J	7STAT	17.45,265.7538,4	Stator inertial point	3O0	4	0	4,536,471:20:0	
492	98	177	17:15:51.133	20BB4K	**7MODE**	**INT**	AACS INERTIAL MODE	3O0	4	0	4,536,474:17:0	
493	98	177	17:17:51.133	474BA416A4G	7BURN	AT,265.753799,4.	ALERT -- Thruster fire	3O0	4	0	4,536,476:15:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	98	177	17:25:25.133	20BB4M	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,536,483:59:0	
495	98	177	17:30:17.133	20BB4N	**7MODE**	**CRU**	AACS CRUISE MODE	3O0	4	0	4,536,488:42:0	
496	98	177	18:37:49.133	20BE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,536,555:23:0	
497	98	177	18:38:39.133	20BE4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,536,556:07:0	
498	98	177	18:39:35.133	176BB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,536,557:00:0	
499	98	177	18:50:19.133	20BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,536,567:56:0	
500	98	177	22:00:00.466	488CZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,536,755:20:0	
501	98	177	22:03:49.800	176SE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,536,759:00:0	
502	98	177	22:33:55.800	488CZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,536,788:70:0	
503	98	177	22:53:00.466	488CZ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,536,807:58:0	
504	98	177	22:57:23.800	488CZ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,536,811:89:0	
505	98	178	07:25:55.133	488DA6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	3O0	4	0	4,537,314:83:0	
506	98	178	07:31:31.800	488DA6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,537,320:42:0	
507	98	178	07:42:11.800	488DA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,537,331:01:0	
508	98	178	08:51:27.133	488DA6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,537,399:46:0	
509	98	178	09:25:06.400	488DA6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,537,432:72:0	
510	98	178	10:00:51.733	488DB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,537,468:14:0	
511	98	178	15:08:03.733	488DB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,537,771:89:0	
512	98	178	17:33:07.733	488DC6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,537,915:41:0	
513	98	178	17:39:53.733	488DC6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,537,922:13:0	
514	98	179	00:06:59.733	488DD6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,538,304:90:0	
515	98	179	00:16:19.733	488DD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,538,314:20:0	
516	98	179	01:41:39.733	488DD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,538,398:56:0	
517	98	179	08:29:07.733	488DE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,538,801:55:0	
518	98	179	10:00:38.400	488DE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,538,892:10:0	
519	98	179	10:02:59.733	488DE6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,538,894:40:0	
520	98	179	10:13:39.733	488DE6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,538,904:90:0	
521	98	179	13:55:43.733	488DE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,539,124:56:0	
522	98	179	14:06:11.733	488DF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,539,134:88:0	
523	98	179	15:27:15.733	488DF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,539,215:13:0	
524	98	179	22:08:19.666	488DG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,539,611:73:0	
525	98	179	23:33:39.666	488DG6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,539,696:18:0	
526	98	179	23:59:15.666	488DG6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,539,721:47:0	
527	98	180	00:20:35.666	488DG6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,539,742:56:0	
528	98	180	01:21:14.333	488DG6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,539,802:54:0	
529	98	180	01:54:53.666	488DH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,539,835:80:0	
530	98	180	04:06:45.000	488DH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,539,966:26:0	
531	98	180	04:13:07.666	488DH6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,539,972:54:0	
532	98	180	07:22:09.666	488DH6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	3O0	4	0	4,540,159:50:0	
533	98	180	07:31:31.666	488DH6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,540,168:74:0	
534	**98**	**180**	**08:00:05.666**	**15NNRCTRLT01-**		**-----START------**		**3O0**	**4**	**0**	**: :**	
535	98	180	08:00:05.666	41XE99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	3O0	4	0	4,540,197:06:0	
536	**98**	**180**	**08:00:09.666**	**41XE3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**3O0**	**4**	**0**	**4,540,197:12:0**	
537	**98**	**180**	**08:00:19.666**	**41XE3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**3O0**	**4**	**0**	**4,540,197:27:0**	
538	**98**	**180**	**08:00:29.666**	**41XE3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**3O0**	**4**	**0**	**4,540,197:42:0**	
539	**98**	**180**	**08:00:39.666**	**41XE3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**3O0**	**4**	**0**	**4,540,197:57:0**	
540	98	180	08:11:09.000	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	3O0	4	0	4,540,208:00:0	
541	98	180	08:14:15.000	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	3O0	4	0	4,540,211:06:0	
542	98	180	08:18:21.666	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	3O0	4	0	4,540,215:12:0	
543	98	180	08:19:11.666	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	3O0	4	0	4,540,215:87:0	
544	98	180	08:21:15.666	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	3O0	4	0	4,540,218:00:0	
545	**98**	**180**	**08:22:16.333**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**3O0**	**4**	**0**	**4,540,219:00:0**	
546	**98**	**180**	**08:22:21.666**	**185XE10B3A**	**40HRP**	**2**	**RCT Heater ON (primary relay)**	**3O0**	**4**	**0**	**4,540,219:08:0**	
547	98	180	08:26:59.666	488DI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,540,223:61:0	
548	98	180	13:34:23.666	488DI6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,540,527:63:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	98	180	13:38:27.666	488DI6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,540,531:65:0	
550	98	180	13:45:51.666	488DI6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	3O0	4	0	4,540,539:03:0	
551	98	180	14:01:55.666	488DI6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	3O0	4	0	4,540,554:84:0	
552	98	180	15:35:47.666	488DJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	3O0	4	0	4,540,647:69:0	
553	**98**	**180**	**20:17:03.000**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**360**	**4**	**0**	**4,540,925:84:0**	
554	98	180	20:17:03.000	125XE	NIMSINIT	GS	##### GROUP START INIT	360	4	0	4,540,925:84:0	
555	**98**	**180**	**20:18:03.666**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**3R0**	**4**	**0**	**4,540,926:84:0**	
556	**98**	**180**	**20:19:04.333**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**4,540,927:84:0**	
557	**98**	**180**	**20:20:05.000**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**4,540,928:84:0**	
558	98	180	20:20:05.000	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	4,540,928:84:0	
559	98	180	20:22:06.333	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	4,540,930:84:0	
560	**98**	**180**	**20:22:06.333**	**127XE4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**1R3**	**4**	**0**	**4,540,930:84:0**	
561	**98**	**180**	**20:22:07.000**	**127XE4B**	**37ETB**	**0A,CA,18,03,FF,1**	**Loads wavelength edit table**	**1R3**	**4**	**0**	**4,540,930:85:0**	
562	98	180	20:22:15.000	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	4,540,931:06:0	
563	98	180	20:26:13.666	176XE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	4,540,935:00:0	
564	98	180	20:28:18.333	20UT4A	7SCAN	NORM,346.935,-6.	Check S/P Position	1R3	4	0	4,540,937:05:0	
565	98	180	20:32:17.666	192XE4A	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	4,540,941:00:0	
566	**98**	**180**	**20:34:39.000**	**432XE6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,540,943:30:0**	
567	**98**	**180**	**20:35:38.333**	**432XF6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,540,944:28:0**	
568	98	180	20:38:21.666	192XE4B	**7CONE**	**17.0,0.0**	Check S/P Position	1R3	4	0	4,540,947:00:0	
569	**98**	**180**	**20:40:43.000**	**432XU6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,540,949:30:0**	
570	**98**	**180**	**20:42:43.000**	**432XV6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,540,951:28:0**	
571	98	180	20:44:25.666	192XE4C	**7CONE**	**17.0,119.7**	Check S/P Position	1R3	4	0	4,540,953:00:0	
572	**98**	**180**	**20:46:27.000**	**185XE10C3A**	**40HRPR**	**1**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,540,955:00:0**	
573	**98**	**180**	**20:46:32.333**	**185XE10D3A**	**40HRPR**	**2**	**RCT Heater OFF (primary relay)**	**1R3**	**4**	**0**	**4,540,955:08:0**	
574	**98**	**180**	**20:46:47.000**	**432XW6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**1R3**	**4**	**0**	**4,540,955:30:0**	
575	**98**	**180**	**20:47:46.333**	**432XY6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**1R3**	**4**	**0**	**4,540,956:28:0**	
576	**98**	**180**	**20:49:24.333**	**125DC4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R3**	**4**	**0**	**4,540,957:84:0**	
577	98	180	20:49:24.333	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,540,957:84:0	
578	98	180	20:49:24.333	125DC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,540,957:84:0	
579	98	180	20:50:25.000	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	4,540,958:84:0	
580	**98**	**180**	**20:50:25.000**	**127DC4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**4,540,958:84:0**	
581	**98**	**180**	**20:50:25.666**	**127DC4B**	**37ETB**	**07,C7,31,80,00,0**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**4,540,958:85:0**	
582	98	180	20:50:29.666	192XE4D	**7CONE**	**17.0,153.0**	Check S/P Position	4R3	4	0	4,540,959:00:0	
583	98	180	20:50:33.666	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	4,540,959:06:0	
584	**98**	**180**	**20:50:49.666**	**432DC6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**4,540,959:30:0**	
585	**98**	**180**	**20:51:25.666**	**125DD4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**4,540,959:84:0**	
586	98	180	20:51:25.666	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,540,959:84:0	
587	98	180	20:51:25.666	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,540,959:84:0	
588	**98**	**180**	**20:53:27.000**	**125DE4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**4R3**	**4**	**0**	**4,540,961:84:0**	
589	98	180	20:53:27.000	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	4,540,961:84:0	
590	98	180	20:53:27.000	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	4,540,961:84:0	
591	**98**	**180**	**20:53:50.333**	**432DE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**4,540,962:28:0**	
592	98	180	20:55:01.666	488DJ6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4R3	4	0	4,540,963:44:0	
593	**98**	**180**	**20:57:29.666**	**127XF4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**4,540,965:84:0**	
594	98	180	20:57:29.666	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	4,540,965:84:0	
595	**98**	**180**	**20:57:30.333**	**127XF4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**4,540,965:85:0**	
596	98	180	20:57:38.333	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	4,540,966:06:0	
597	98	180	20:57:55.666	488DJ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4R0	4	0	4,540,966:32:0	
598	**98**	**180**	**21:00:31.666**	**125XF4A**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**4,540,968:84:0**	
599	98	180	21:00:31.666	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	4,540,968:84:0	
600	**98**	**180**	**21:01:32.333**	**125XF4B**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**4,540,969:84:0**	
601	98	180	21:02:33.000	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	4,540,970:84:0	
602	**98**	**180**	**21:02:33.000**	**125XF4C**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**4,540,970:84:0**	
603	98	180	21:08:45.666	41XU99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4O0	4	0	4,540,977:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	**98**	**180**	**21:10:39.666**	**41XU3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,540,978:86:0**	
605	**98**	**180**	**21:10:49.666**	**41XU3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,540,979:10:0**	
606	**98**	**180**	**21:10:59.666**	**41XU3I**	**40T2**		**1 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,540,979:25:0**	
607	**98**	**180**	**21:11:09.666**	**41XU3J**	**40T2**		**2 PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,540,979:40:0**	
608	**98**	**180**	**21:15:50.332**	**15NNRCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	
609	98	180	21:18:56.333	20DB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,540,987:12:0	
610	98	180	21:19:46.333	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,540,987:87:0	
611	98	180	21:21:50.333	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,540,990:00:0	
612	98	181	07:17:17.600	488DK6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,541,578:83:0	
613	98	181	07:27:15.600	488DK6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,541,588:70:0	
614	98	181	08:26:59.600	488DK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,541,647:77:0	
615	98	181	13:29:34.266	488DL6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,541,947:09:0	
616	98	181	13:34:11.600	488DL6B	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,541,951:61:0	
617	98	181	13:42:19.600	488DL6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,541,959:65:0	
618	98	181	13:51:15.600	488DL6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,541,968:50:0	
619	98	181	14:41:02.266	488DL6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,017:71:0	
620	98	181	15:14:41.600	488DM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,051:06:0	
621	98	181	16:05:00.266	488DM6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,100:75:0	
622	98	181	16:08:12.933	176SI6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,542,104:00:0	
623	98	181	16:12:12.266	20SM6BA	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	4O0	4	0	4,542,107:86:0	
624	98	181	16:18:56.266	20SM6F	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,542,114:55:0	
625	98	181	16:32:30.266	20SM6K	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,542,128:02:0	
626	98	181	16:46:38.266	20SM4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,542,142:00:0	
627	98	181	17:01:38.266	20SM4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,542,156:76:0	
628	98	181	17:13:38.266	20SM4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,542,168:64:0	
629	98	181	17:20:38.266	20SM4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,542,175:57:0	
630	98	181	17:32:38.266	20SM4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,542,187:45:0	
631	98	181	17:39:38.266	20SM4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	4,542,194:38:0	
632	98	181	17:51:38.266	20SM4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,542,206:26:0	
633	98	181	17:58:38.266	20SM4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	4,542,213:19:0	
634	98	181	18:10:38.266	20SM4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,542,225:07:0	
635	98	181	18:17:38.266	20SM4S	**7CONE**	**17.45,0.0**	Check S/P Position	4O0	4	0	4,542,232:00:0	
636	98	181	18:23:38.266	20SM4T	**7CONE**	**17.45,180.0**	Check S/P Position	4O0	4	0	4,542,237:85:0	
637	98	181	18:29:38.266	20SM4U	**7CONE**	**4.36,0.0**	Check S/P Position	4O0	4	0	4,542,243:79:0	
638	98	181	18:44:38.266	20SM4V	**7CONE**	**4.36,153.0**	Check S/P Position	4O0	4	0	4,542,258:64:0	
639	98	181	19:21:42.266	20SM4AG	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,542,295:33:0	
640	98	181	19:25:42.266	20SM4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,542,299:29:0	
641	98	181	19:34:22.266	20SM6U	6MROH	7,6F96,2,A10	read from AACSA7,6F96,2,A10	4O0	4	0	4,542,307:81:0	
642	98	181	19:39:22.266	20SM4AM	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,542,312:76:0	
643	98	181	19:40:32.933	176SK6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,542,314:00:0	
644	98	181	19:48:30.266	20SM6BB	6MROH	7,6CF8,0,A10	read from AACSA7,6CF8,0,A10	4O0	4	0	4,542,321:79:0	
645	98	181	19:50:00.266	20SM6Y	6MROH	12,2095,2,A10	read from LLM1A12,2095,2,A1	4O0	4	0	4,542,323:32:0	
646	98	181	20:00:00.266	488DM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,333:22:0	
647	98	181	23:44:19.600	488DN6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,542,555:09:0	
648	98	182	00:16:19.600	488DN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,586:68:0	
649	98	182	01:00:58.266	488DN6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,630:82:0	
650	98	182	01:49:37.600	488DN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,542,679:02:0	
651	98	182	08:26:59.533	488DO6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,543,072:02:0	
652	98	182	08:33:42.200	488DO6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,543,078:60:0	
653	98	182	08:57:18.200	176SV6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,543,102:00:0	
654	98	182	09:02:00.200	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,543,106:59:0	
655	98	182	09:02:48.866	488DO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,543,107:41:0	
656	98	182	09:03:00.200	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,543,107:58:0	
657	98	182	09:05:00.200	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,543,109:56:0	
658	98	182	09:10:30.200	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,543,115:05:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	98	182	09:10:30.866	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,543,115:06:0	
660	98	182	09:10:50.866	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,543,115:36:0	
661	98	182	09:10:51.533	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,543,115:37:0	
662	98	182	09:11:11.533	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,543,115:67:0	
663	98	182	09:11:12.200	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,543,115:68:0	
664	98	182	09:11:22.200	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,543,115:83:0	
665	98	182	09:11:22.866	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,543,115:84:0	
666	98	182	09:11:32.866	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,543,116:08:0	
667	98	182	09:11:33.533	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,543,116:09:0	
668	98	182	09:13:20.200	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,543,117:78:0	
669	98	182	09:13:20.866	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,543,117:79:0	
670	98	182	09:13:40.866	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,543,118:18:0	
671	98	182	09:13:41.533	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,543,118:19:0	
672	98	182	09:14:01.533	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,543,118:49:0	
673	98	182	09:14:02.200	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,543,118:50:0	
674	98	182	09:14:12.200	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,543,118:65:0	
675	98	182	09:14:12.866	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,543,118:66:0	
676	98	182	09:14:22.866	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,543,118:81:0	
677	98	182	09:14:23.533	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,543,118:82:0	
678	98	182	09:15:20.200	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,543,119:76:0	
679	98	182	09:40:04.200	20UK4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,543,144:27:0	
680	98	182	09:40:54.200	20UK4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,543,145:11:0	
681	98	182	09:42:48.200	176SW6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,543,147:00:0	
682	98	182	13:25:03.533	488DO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,543,366:74:0	
683	98	182	13:29:55.533	488DO6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,543,371:57:0	
684	98	182	13:36:07.533	488DP6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,543,377:69:0	
685	98	182	14:01:55.533	488DP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,543,403:25:0	
686	98	182	15:52:51.533	488DP6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,543,512:90:0	
687	98	182	16:53:00.200	488DP6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,543,572:43:0	
688	98	182	16:57:34.866	176WA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,543,577:00:0	
689	98	182	17:06:00.200	20WC4C	7STAT	17.45,178.14,2.2	Stator inertial point	4O0	4	0	4,543,585:30:0	
690	98	182	17:25:02.200	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,543,604:14:0	
691	98	182	17:30:00.200	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,543,609:06:0	
692	98	182	17:30:20.200	20WC4D	7STAT	17.45,178.14,2.2	Stator inertial point	4O0	4	0	4,543,609:36:0	
693	98	182	17:34:10.200	490UA412A4E	7VECT		Inert vect update UTC	4O0	4	0	4,543,613:17:0	
694	98	182	17:34:14.200	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	4,543,613:23:0	
695	98	182	17:38:02.200	490UA412A406A4A	7STAR	16,217,100.73	Star catalog update	4O0	4	0	4,543,617:01:0	
696	98	182	17:38:04.200	490UA412A406A4B	7STAR	2,125,259.73	Star catalog update	4O0	4	0	4,543,617:04:0	
697	98	182	17:38:06.200	490UA412A406A4C	7STAR	3,130,228.55	Star catalog update	4O0	4	0	4,543,617:07:0	
698	98	182	17:38:08.200	490UA412A406A4D	7STAR	4,371,138.16,-69	Star catalog update	4O0	4	0	4,543,617:10:0	
699	98	182	17:38:10.200	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	4,543,617:13:0	
700	98	182	17:38:12.200	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	4,543,617:16:0	
701	98	182	17:48:06.200	20WC4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,543,626:88:0	
702	98	182	17:56:10.200	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,543,634:86:0	
703	98	182	19:20:04.200	20WE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,543,717:84:0	
704	98	182	19:20:54.200	20WE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,543,718:68:0	
705	98	182	19:22:10.200	176WE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,543,720:00:0	
706	98	182	19:25:00.200	488DP6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,543,722:73:0	
707	98	182	22:29:39.533	488DQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,543,905:39:0	
708	98	182	23:33:39.533	488DQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,543,968:66:0	
709	98	182	23:52:16.200	488DQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,543,987:12:0	
710	98	182	23:54:59.533	488DQ6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,543,989:75:0	
711	98	183	00:09:55.533	488DQ6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,544,004:54:0	
712	98	183	13:31:14.133	488DR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,544,797:09:0	
713	98	183	13:42:43.466	488DR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,544,808:42:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	98	183	14:50:59.466	488DR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,544,875	89:0
715	98	183	22:18:59.466	488DS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,545,319	05:0
716	98	183	23:33:39.466	488DS6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,545,392	82:0
717	98	183	23:44:19.466	488DS6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,545,403	41:0
718	98	184	00:01:23.466	488DS6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,545,420	30:0
719	98	184	01:05:43.466	488DS6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,545,483	87:0
720	98	184	01:39:22.133	488DT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,545,517	21:0
721	98	184	03:06:59.466	488DT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,545,603	81:0
722	98	184	04:55:15.466	488DT6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,545,710	88:0
723	98	184	05:00:03.466	488DT6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,545,715	65:0
724	98	184	07:06:20.133	488DT6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,545,840	55:0
725	98	184	07:52:51.466	488DU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,545,886	56:0
726	98	184	11:17:39.466	488DU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,546,089	15:0
727	98	184	13:14:59.466	488DU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,546,205	19:0
728	98	184	13:19:45.466	488DU6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,546,209	84:0
729	98	184	13:23:31.466	488DU6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,546,213	59:0
730	98	184	13:31:22.133	488DV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,546,221	37:0
731	98	184	13:42:43.466	488DV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,546,232	58:0
732	98	184	14:46:43.466	488DV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,546,295	85:0
733	98	184	22:14:43.400	488DW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,546,739	01:0
734	98	184	23:29:23.400	488DW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,546,812	78:0
735	98	185	01:00:35.400	488DW6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,546,903	05:0
736	98	185	01:34:14.733	488DW6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,546,936	31:0
737	98	185	03:02:43.400	488DW6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,023	77:0
738	98	185	06:25:23.400	488DX6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,547,224	26:0
739	98	185	07:46:27.400	488DX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,304	42:0
740	98	185	08:23:18.733	488DX6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,340	83:0
741	98	185	08:52:24.733	488DX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,369	63:0
742	98	185	11:17:39.400	488DX6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,547,513	31:0
743	98	185	13:08:35.400	488DY6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,623	05:0
744	98	185	13:15:05.400	488DY6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,629	44:0
745	98	185	13:19:15.400	488DY6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,547,633	55:0
746	98	185	13:26:30.733	488DY6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,547,640	71:0
747	98	185	13:36:19.400	488DY6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,547,650	44:0
748	98	185	14:46:43.400	488DZ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,547,720	10:0
749	98	185	22:14:43.400	488EA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,548,163	17:0
750	98	185	23:25:07.400	488EA6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,548,232	74:0
751	98	185	23:41:36.066	488EA6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,548,249	10:0
752	98	185	23:44:19.400	488EA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,548,251	73:0
753	98	185	23:54:59.400	488EA6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,548,262	32:0
754	98	186	13:21:38.666	488EB6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,549,060	13:0
755	98	186	13:32:03.333	488EB6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,549,070	40:0
756	98	186	14:38:11.333	488EB6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,549,135	77:0
757	98	186	22:10:27.333	488EC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,549,583	13:0
758	98	186	23:25:07.333	488EC6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,549,656	90:0
759	98	186	23:33:39.333	488EC6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,549,665	39:0
760	98	186	23:52:51.333	488EC6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,549,684	38:0
761	98	187	00:55:19.333	488EC6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,549,746	18:0
762	98	187	01:28:58.666	488ED6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,549,779	44:0
763	98	187	02:32:51.333	488ED6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,549,842	60:0
764	98	187	06:40:19.333	488ED6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,550,087	37:0
765	98	187	07:37:55.333	488EE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,550,144	34:0
766	98	187	08:18:02.666	488EE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,550,184	05:0
767	98	187	08:47:08.666	488EE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,550,212	76:0
768	98	187	10:32:51.266	488EE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,550,317	35:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
769	98	187	13:01:23.266	488EE6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,550,464:26:0	
770	98	187	13:04:19.266	488EF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,550,467:17:0	
771	98	187	13:16:46.600	488EF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,550,479:46:0	
772	98	187	13:27:47.266	488EF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,550,490:36:0	
773	98	187	14:31:47.266	488EF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,550,553:63:0	
774	98	187	20:56:46.600	488EG6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,550,934:41:0	
775	98	187	21:00:03.266	488EG6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,550,937:63:0	
776	98	188	13:11:54.600	488EH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,551,898:79:0	
777	98	188	13:23:31.266	488EH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,551,910:32:0	
778	98	188	14:23:15.266	488EH6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,551,969:39:0	
779	98	188	22:14:43.200	488EI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,552,435:65:0	
780	98	188	23:18:43.200	488EI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,552,499:01:0	
781	98	189	00:22:43.200	488EI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,552,562:28:0	
782	98	189	06:44:35.200	488EJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,552,939:89:0	
783	98	189	08:12:03.200	488EJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,553,026:44:0	
784	98	189	08:12:46.533	488EJ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,553,027:18:0	
785	98	189	08:41:52.533	488EJ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,553,055:89:0	
786	98	189	13:00:27.866	488EK6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,553,311:66:0	
787	98	189	13:04:19.200	488EK6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,553,315:49:0	
788	98	189	13:12:02.533	488EK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,553,323:16:0	
789	98	189	13:23:31.200	488EK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,553,334:48:0	
790	98	189	14:12:35.200	488EK6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,553,383:05:0	
791	98	189	14:19:07.866	488EL6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,553,389:48:0	
792	98	189	14:45:57.200	488EL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,553,416:05:0	
793	98	189	22:18:59.200	488EM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,553,864:10:0	
794	98	189	23:14:27.200	488EM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,553,918:88:0	
795	98	189	23:23:49.200	488EM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,553,928:21:0	
796	98	189	23:29:23.200	488EM6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	4,553,933:67:0	
797	98	190	00:05:39.200	488EM6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,553,969:55:0	
798	98	190	00:57:06.466	488EN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,554,020:45:0	
799	98	190	01:33:07.133	488EN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,554,056:10:0	
800	98	190	02:12:40.466	488EN6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,554,095:21:0	
801	98	190	02:41:46.466	488EN6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,554,124:01:0	
802	98	190	04:55:35.133	488EN6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,554,256:32:0	
803	98	190	05:00:03.133	488EO6A	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,554,260:70:0	
804	98	190	23:13:34.466	488EP6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,555,342:25:0	
805	98	190	23:22:59.133	488EP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,555,351:53:0	
806	98	191	00:34:47.133	488EP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,555,422:54:0	
807	98	191	01:08:26.466	488EP6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,555,455:80:0	
808	98	191	01:13:55.133	488EP6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,555,461:27:0	
809	98	191	06:36:03.133	488EQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,555,779:81:0	
810	98	191	07:08:03.133	488EQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,555,811:49:0	
811	98	191	08:02:30.400	488EQ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,555,865:36:0	
812	98	191	08:31:36.400	488EQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,555,894:16:0	
813	98	191	08:48:19.066	488EQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,555,910:64:0	
814	98	191	12:57:24.400	488ER6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,556,157:05:0	
815	98	191	13:00:03.066	488ER6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,556,159:61:0	
816	98	191	13:05:31.733	488ER6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,556,165:08:0	
817	98	191	13:53:23.066	488ER6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,556,212:38:0	
818	98	191	22:25:23.066	488ES6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,556,718:72:0	
819	98	191	23:14:27.066	488ES6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,556,767:29:0	
820	98	192	00:34:39.066	488ES6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,556,846:58:0	
821	98	192	00:58:59.066	488ES6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,556,870:64:0	
822	98	192	01:05:18.400	488ES6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,556,876:87:0	
823	98	192	06:36:03.066	488ET6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,557,204:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	98	192	07:03:47.066	488ET6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,557,231:45:0	
825	98	192	08:02:22.400	488ET6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,557,289:40:0	
826	98	192	08:29:07.066	488ET6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,557,315:81:0	
827	98	192	08:30:58.400	488ET6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,557,317:66:0	
828	98	192	12:52:41.733	488EU6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,557,576:52:0	
829	98	192	12:55:47.066	488EU6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,557,579:57:0	
830	98	192	13:00:40.400	488EU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,557,584:42:0	
831	98	192	13:38:27.066	488EU6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,557,621:75:0	
832	98	192	22:29:39.000	488EV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,558,147:17:0	
833	98	192	23:10:11.000	488EV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,558,187:25:0	
834	98	192	23:17:39.666	488EV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,558,194:61:0	
835	98	192	23:20:51.000	488EV6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,558,197:75:0	
836	98	192	23:31:31.000	488EV6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,558,208:34:0	
837	98	193	20:44:58.333	488EW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,559,467:76:0	
838	98	193	22:29:38.933	488EW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,559,571:33:0	
839	98	193	23:05:54.933	488EW6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,559,607:21:0	
840	98	194	00:22:42.933	488EW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,559,683:17:0	
841	98	194	00:27:08.266	488EW6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,559,687:51:0	
842	98	194	00:56:14.933	488EX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,559,716:32:0	
843	98	194	08:01:22.933	488EY6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,560,136:74:0	
844	98	194	09:09:02.933	488EY6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,560,203:67:0	
845	98	194	09:18:10.933	488EY6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,560,212:70:0	
846	98	194	12:50:56.933	488EY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,560,423:18:0	
847	98	194	13:23:30.933	488EY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,560,455:37:0	
848	98	194	20:57:14.933	488EZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,560,904:14:0	
849	98	194	21:00:02.933	488EZ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,560,906:84:0	
850	98	194	23:07:47.600	488EZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,561,033:24:0	
851	98	194	23:33:38.933	488EZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,561,058:76:0	
852	98	194	23:59:04.933	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	4,561,083:90:0	
853	98	194	23:59:05.600	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	4,561,084:00:0	
854	98	195	01:18:10.933	488EZ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,561,162:20:0	
855	98	195	05:27:12.866	488FA6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,561,408:47:0	
856	98	195	05:29:54.866	488FA6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,561,411:17:0	
857	98	195	06:27:49.533	488FA6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,561,468:42:0	
858	98	195	07:08:02.866	488FA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,561,508:22:0	
859	98	195	07:46:57.533	488FA6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,561,546:66:0	
860	98	195	08:16:03.533	488FB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,561,575:46:0	
861	98	195	12:36:58.200	488FB6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,561,833:50:0	
862	98	195	12:46:05.533	488FB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,561,842:52:0	
863	98	195	13:12:50.866	488FB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,561,869:03:0	
864	98	195	13:53:18.866	488FB6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,561,909:05:0	
865	98	195	14:20:08.200	488FC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,561,935:53:0	
866	98	195	17:10:50.866	488FC6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,562,104:38:0	
867	98	195	20:47:40.200	488FD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,562,318:78:0	
868	98	195	22:31:46.866	488FD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,562,421:75:0	
869	98	195	23:05:54.866	488FD6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,562,455:53:0	
870	98	195	23:07:11.533	488FD6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,562,456:77:0	
871	98	195	23:27:14.866	488FD6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,562,476:62:0	
872	98	196	06:27:58.200	488FE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,562,892:71:0	
873	98	196	06:59:30.866	488FE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,562,923:89:0	
874	98	196	07:41:48.200	488FE6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,562,965:73:0	
875	98	196	08:10:54.866	488FE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,562,994:54:0	
876	98	196	09:05:00.200	488FE6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	4,563,048:08:0	
877	98	196	09:08:57.533	176SH6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,563,052:00:0	
878	98	196	09:39:00.200	20SQ4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	4,563,081:65:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	98	196	09:54:00.200	20SQ4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	4,563,096:50:0	
880	98	196	09:54:26.866	488FF6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,563,096:90:0	
881	98	196	10:06:00.200	20SQ4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,563,108:38:0	
882	98	196	10:13:00.200	20SQ4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	4,563,115:31:0	
883	98	196	10:25:00.200	20SQ4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,563,127:19:0	
884	98	196	10:37:00.200	20SQ4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,563,139:07:0	
885	98	196	10:53:04.200	20ST4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,563,154:88:0	
886	98	196	10:53:54.200	20ST4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,563,155:72:0	
887	98	196	10:54:06.866	176SJ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,563,156:00:0	
888	98	196	10:57:00.200	488FF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,563,158:78:0	
889	98	196	12:38:07.466	488FF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,563,258:79:0	
890	98	196	12:40:50.800	488FF6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,563,261:51:0	
891	98	196	12:46:13.466	488FF6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,563,266:80:0	
892	98	196	13:04:18.800	488FG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,563,284:70:0	
893	98	196	13:53:09.466	488FG6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,563,333:07:0	
894	98	196	14:19:59.466	488FG6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,563,359:56:0	
895	98	196	16:07:46.800	488FG6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,563,466:20:0	
896	98	196	17:33:30.800	488FG6E	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,563,551:01:0	
897	98	196	17:35:14.800	488FH6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,563,552:66:0	
898	98	197	06:13:07.466	488FI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,564,302:25:0	
899	98	197	06:29:38.800	488FI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,564,318:56:0	
900	98	197	07:22:58.800	488FI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,564,371:33:0	
901	98	197	12:33:12.133	488FJ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,564,678:16:0	
902	98	197	12:36:34.800	488FJ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,564,681:47:0	
903	98	197	12:43:09.466	488FJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,564,688:02:0	
904	98	197	13:04:18.800	488FJ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,564,708:86:0	
905	98	197	13:41:37.466	488FJ6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,564,745:77:0	
906	98	197	14:10:43.466	488FK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,564,774:57:0	
907	98	197	15:44:18.800	488FK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,564,867:17:0	
908	98	197	19:51:46.733	488FK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,565,111:85:0	
909	98	197	22:25:22.733	488FL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,565,263:77:0	
910	98	197	22:58:23.400	488FL6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,565,296:45:0	
911	98	197	23:01:38.733	488FL6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	4,565,299:65:0	
912	98	197	23:12:18.733	488FL6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,565,310:24:0	
913	98	198	06:13:16.733	488FM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,565,726:55:0	
914	98	198	06:48:50.733	488FM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,565,761:71:0	
915	98	198	07:36:31.400	488FM6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,565,808:85:0	
916	98	198	08:05:37.400	488FM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,565,837:65:0	
917	98	198	08:58:58.733	488FM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,565,890:44:0	
918	98	198	12:28:10.733	488FN6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,566,097:35:0	
919	98	198	12:30:10.733	488FN6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,566,099:33:0	
920	98	198	12:36:31.400	488FN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,566,105:58:0	
921	98	198	12:53:38.733	488FN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,566,122:52:0	
922	98	198	13:42:51.400	488FN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,566,171:22:0	
923	98	198	14:09:41.400	488FO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,566,197:71:0	
924	98	198	15:18:42.733	488FO6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,566,266:04:0	
925	98	198	15:53:00.066	488FO6C	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	4,566,299:87:0	
926	98	198	15:57:05.400	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,566,304:00:0	
927	98	198	20:06:42.733	488FO6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	4,566,550:80:0	
928	98	198	21:00:00.066	488FP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,566,603:53:0	
929	98	198	21:03:27.400	176SG6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,566,607:00:0	
930	98	198	22:25:22.733	488FP6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,566,688:02:0	
931	98	198	22:50:58.733	488FP6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,566,713:31:0	
932	98	198	23:40:02.733	488FP6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,566,761:79:0	
933	98	199	00:00:00.066	481UC4A	7VECT		Inert vect update UTC	4O0	4	0	4,566,781:55:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
934	98	199	00:11:24.733	488FP6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,566,792	81:0
935	98	199	00:40:30.733	488FQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,566,821	61:0
936	98	199	06:01:54.666	488FQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,567,139	49:0
937	98	199	06:23:14.666	488FQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,567,160	58:0
938	98	199	07:10:10.666	488FR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,567,207	05:0
939	98	199	07:27:45.333	488FR6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,567,224	40:0
940	98	199	07:54:35.333	488FR6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,567,250	89:0
941	98	199	10:57:37.333	176SX6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	4,567,432	00:0
942	98	199	11:02:00.000	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,567,436	30:0
943	98	199	11:03:00.000	20US4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	4,567,437	29:0
944	98	199	11:05:00.000	20US4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	4,567,439	27:0
945	98	199	11:10:30.000	20US4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	4,567,444	67:0
946	98	199	11:10:30.666	20US4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	4,567,444	68:0
947	98	199	11:10:50.666	20US4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	4,567,445	07:0
948	98	199	11:10:51.333	20US4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	4,567,445	08:0
949	98	199	11:11:11.333	20US4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,567,445	38:0
950	98	199	11:11:12.000	20US4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,567,445	39:0
951	98	199	11:11:22.000	20US4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	4,567,445	54:0
952	98	199	11:11:22.666	20US4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	4,567,445	55:0
953	98	199	11:11:32.666	20US4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	4,567,445	70:0
954	98	199	11:11:33.333	20US4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	4,567,445	71:0
955	98	199	11:13:20.000	20US4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	4,567,447	49:0
956	98	199	11:13:20.666	20US4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	4,567,447	50:0
957	98	199	11:13:40.666	20US4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	4,567,447	80:0
958	98	199	11:13:41.333	20US4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	4,567,447	81:0
959	98	199	11:14:01.333	20US4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,567,448	20:0
960	98	199	11:14:02.000	20US4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,567,448	21:0
961	98	199	11:14:12.000	20US4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	4,567,448	36:0
962	98	199	11:14:12.666	20US4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	4,567,448	37:0
963	98	199	11:14:22.666	20US4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	4,567,448	52:0
964	98	199	11:14:23.333	20US4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	4,567,448	53:0
965	98	199	11:15:20.000	20US4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	4,567,449	47:0
966	98	199	11:40:04.000	20UL4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	4,567,473	89:0
967	98	199	11:40:54.000	20UL4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	4,567,474	73:0
968	98	199	11:42:06.666	176SY6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	4,567,476	00:0
969	98	199	12:33:21.333	488FR6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,567,526	62:0
970	98	199	12:36:34.666	488FR6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,567,529	79:0
971	98	199	12:48:27.333	488FS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,567,541	56:0
972	98	199	13:00:02.666	488FS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,567,553	07:0
973	98	199	13:46:19.333	488FS6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,567,598	77:0
974	98	199	14:15:25.333	488FS6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,567,627	57:0
975	98	199	15:14:26.666	488FS6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,567,686	00:0
976	98	199	20:02:26.666	488FT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,567,970	76:0
977	98	199	22:21:06.666	488FT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,568,107	89:0
978	98	199	22:48:56.000	488FT6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,568,135	45:0
979	98	199	22:50:58.666	488FT6D	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	4,568,137	47:0
980	98	199	23:05:54.666	488FT6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,568,152	26:0
981	98	200	00:00:00.000	481UA4A	7VECT	BB2	Inert vect update UTC	4O0	4	0	4,568,205	71:0
982	98	200	12:26:50.600	488FU6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,568,944	38:0
983	98	200	12:49:22.600	488FU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,568,966	64:0
984	98	200	15:48:34.600	488FU6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	4,569,143	85:0
985	98	200	15:56:43.933	176SP6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	4,569,152	00:0
986	98	200	16:02:47.933	465TA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	4,569,158	00:0
987	98	200	16:02:47.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,158	00:0
988	98	200	16:02:47.933		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,158	00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	98	200	16:02:47.933		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,158:00:0	
990	98	200	16:02:54.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,158:10:0	
991	98	200	16:02:56.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	4,569,158:12:1	
992	98	200	18:56:18.600	488FV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	4,569,329:55:0	
993	98	200	21:43:56.733		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	4,569,495:36:2	
994	98	200	21:43:57.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	4,569,495:38:0	
995	98	200	21:56:29.266	465TB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,569,507:73:0	
996	98	200	21:56:29.266		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	4,569,507:73:0	
997	98	200	21:56:30.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	4,569,507:75:1	
998	98	200	21:56:35.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	4,569,507:83:0	
999	98	200	21:56:37.133		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	4,569,507:84:8	
1000	98	200	21:56:41.000		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	4,569,507:90:6	
1001	98	200	21:56:41.000		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	4,569,507:90:6	
1002	98	200	22:16:50.600	488FV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,569,527:85:0	
1003	98	200	22:22:21.266	465TB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,569,533:35:0	
1004	98	200	22:22:21.266		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	4,569,533:35:0	
1005	98	200	22:22:22.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	4,569,533:36:8	
1006	98	200	22:42:26.600	488FV6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	4,569,553:23:0	
1007	98	200	23:40:02.600	488FV6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,569,610:20:0	
1008	98	201	00:01:05.266	488FV6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,569,631:03:0	
1009	98	201	00:20:09.266	465TC6A	6DTRN	CMD,6DTRN,465TC6	DMS TRACK TURNAROUND	4O0	4	0	4,569,649:81:0	
1010	98	201	00:20:09.266		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	4,569,649:81:0	
1011	98	201	00:20:09.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	4,569,649:81:0	
1012	98	201	00:20:10.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	4,569,649:83:1	
1013	98	201	00:20:15.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	4,569,650:00:0	
1014	98	201	00:20:17.133		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	4,569,650:01:8	
1015	98	201	00:20:18.533		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	4,569,650:03:9	
1016	98	201	00:24:19.200		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,569,654:00:9	
1017	98	201	00:24:20.400		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,569,654:02:7	
1018	98	201	00:24:20.400		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,569,654:02:7	
1019	98	201	00:24:21.800		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,569,654:04:8	
1020	98	201	00:24:33.800		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,569,654:22:8	
1021	98	201	00:24:35.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,569,654:24:6	
1022	98	201	00:30:11.933	465TD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,569,659:75:0	
1023	98	201	00:30:11.933	488FW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	4,569,659:75:0	
1024	98	201	00:30:11.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,659:75:0	
1025	98	201	00:30:18.600		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,659:85:0	
1026	98	201	00:30:22.466		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	4,569,659:90:8	
1027	98	201	00:30:22.466		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	4,569,659:90:8	
1028	98	201	01:02:05.933	465TD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	4,569,691:34:0	
1029	98	201	01:02:05.933		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	4,569,691:34:0	
1030	98	201	01:02:07.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	4,569,691:35:8	
1031	98	201	01:17:41.933	465TE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,569,706:73:0	
1032	98	201	01:17:41.933		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	4,569,706:73:0	
1033	98	201	01:17:43.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	4,569,706:75:1	
1034	98	201	01:17:48.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	4,569,706:83:0	
1035	98	201	01:17:49.800		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	4,569,706:84:8	
1036	98	201	01:17:53.666		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	4,569,706:90:6	
1037	98	201	01:17:53.666		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	4,569,706:90:6	
1038	98	201	01:49:49.933	465TF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,569,738:53:0	
1039	98	201	01:49:49.933		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	4,569,738:53:0	
1040	98	201	01:49:51.133		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	4,569,738:54:8	
1041	98	201	01:49:55.000		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	4,569,738:60:6	
1042	98	201	01:49:55.000		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	4,569,738:60:6	
1043	98	201	02:21:50.600		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	4,569,770:22:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1044	98	201	02:21:50.600	465TF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,569,770	22:0
1045	98	201	02:21:51.800		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	4,569,770	23:8
1046	98	201	02:36:33.933		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	4,569,784	73:0
1047	98	201	02:36:33.933	465TG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,569,784	73:0
1048	98	201	02:36:35.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	4,569,784	75:1
1049	98	201	02:36:40.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	4,569,784	83:0
1050	98	201	02:36:41.800		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	4,569,784	84:8
1051	98	201	02:36:45.666		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	4,569,784	90:6
1052	98	201	02:36:45.666		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	4,569,784	90:6
1053	98	201	03:08:41.266	465TH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	4,569,816	52:0
1054	98	201	03:08:41.266		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	4,569,816	52:0
1055	98	201	03:08:42.466		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	4,569,816	53:8
1056	98	201	03:08:46.333		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	4,569,816	59:6
1057	98	201	03:08:46.333		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	4,569,816	59:6
1058	98	201	03:09:47.266		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	4,569,817	60:0
1059	98	201	03:09:47.266	465TH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	4,569,817	60:0
1060	98	201	03:09:48.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	4,569,817	61:8
1061	98	201	03:24:17.266		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	4,569,832	00:0
1062	98	201	03:24:17.266	465TI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	4,569,832	00:0
1063	98	201	03:25:11.266		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	4,569,832	81:0
1064	98	201	03:25:11.266		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	4,569,832	81:0
1065	98	201	03:25:11.266	465TJ6A	6DTRN	CMD,6DTRN,465TJ6	DMS TRACK TURNAROUND	4O0	4	0	4,569,832	81:0
1066	98	201	03:25:12.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	4,569,832	83:1
1067	98	201	03:25:17.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	4,569,833	00:0
1068	98	201	03:25:19.133		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	4,569,833	01:8
1069	98	201	03:25:20.533		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	4,569,833	03:9
1070	98	201	03:36:46.333		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	4,569,844	31:6
1071	98	201	03:36:47.533		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	4,569,844	33:4
1072	98	201	03:36:47.533		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	4,569,844	33:4
1073	98	201	03:36:48.933		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	4,569,844	35:5
1074	98	201	03:37:00.933		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	4,569,844	53:5
1075	98	201	03:37:02.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	4,569,844	55:3
1076	98	201	04:59:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	4,569,926	60:0
1077	**98**	**201**	**05:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1078	**98**	**201**	**05:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1079	**98**	**201**	**05:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1080	**98**	**201**	**05:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1081	**98**	**201**	**05:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1082	**98**	**201**	**05:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1083	**98**	**201**	**05:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1084	**98**	**201**	**05:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**4,569,926**	**60:1**
1085	**98**	**201**	**05:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**4,569,926**	**60:1**

15JNJUPRTS01

OAPEL: 15JNJUPRTS01 ALIAS: 15JNJUPRTS01
EXT: R PSID: DA
SCLK1: 04498598:00:0 SCLK2: 04498607:12:0
SCET1: 1998-151/02:58:50.500 SCET2: 1998-151/03:08:04.566
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: 1
EST_COMP: 2.0 EST_COMPV: 0.3
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

15INHRSPEC01

```
OAPEL:  15INHRSPEC01              ALIAS:  15INHRSPEC01
EXT:    C                         PSID:   B
SCLK1:  04499211:00:0             SCLK2:  04499221:44:0
SCET1:    98-151/13:18:39.133     SCET2:    98-151/13:29:15.133
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0326360001          03  26  360  001
WTGRP_SIZ: 26
```

EDIT TABLE

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

15INHRSPEC01

```
OAPEL:  15INHRSPEC01              ALIAS:  15INHRSPEC01
EXT:    A                         PSID:   B
SCLK1:  04499221:44:0             SCLK2:  04499226:53:0
SCET1:    98-151/13:29:15.133     SCET2:    98-151/13:34:25.133
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

15INHRSPEC01

```
OAPEL:  15INHRSPEC01            ALIAS:  15INHRSPEC01
EXT:    D                       PSID:   B
SCLK1:  04499226:65:0           SCLK2:  04499226:90:0
SCET1:    98-151/13:34:33.133   SCET2:    98-151/13:34:49.133
TARGET: IO                      PARTITION: 1

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

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

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

WETGID:    0326360001          03  26  360  001
WTGRP_SIZ: 26
```

EDIT TABLE

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

15INHRSPEC01

```
OAPEL:  15INHRSPEC01              ALIAS:  15INHRSPEC01
EXT:    B                         PSID:   B
SCLK1:  04499227:00:0             SCLK2:  04499231:76:0
SCET1:    98-151/13:34:49.800     SCET2:    98-151/13:39:43.133
TARGET: IO                        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

15INHRSPEC02

OAPEL: 15INHRSPEC02 ALIAS: 15INHRSPEC02
EXT: A PSID: D
SCLK1: 04499467:00:0 SCLK2: 04499480:38:0
SCET1: 98-151/17:37:29.800 SCET2: 98-151/17:51:04.466
TARGET: IO PARTITION: 1

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

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

THRESHOLD_SEL: 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

15INHRSPEC02

```
OAPEL:  15INHRSPEC02              ALIAS:  15INHRSPEC02
EXT:    B                         PSID:   D
SCLK1:  04499480:50:0             SCLK2:  04499485:51:0
SCET1:    98-151/17:51:12.466     SCET2:    98-151/17:56:15.800
TARGET: IO                        PARTITION: 1

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

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

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

WETGID:    0326360001          03  26  360  001
WTGRP_SIZ: 26
```

EDIT TABLE

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

15ENREGION01

```
OAPEL:  15ENREGION01            ALIAS:  15ENREGION01
EXT:    A                       PSID:   E
SCLK1:  04499652:00:0           SCLK2:  04499670:84:0
SCET1:    98-151/20:44:33.133   SCET2:    98-151/21:03:41.800
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:  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

15ENSUCOMP01

```
OAPEL:  15ENSUCOMP01            ALIAS:  15ENSUCOMP01
EXT:    A                       PSID:   F
SCLK1:  04499689:00:0           SCLK2:  04499707:82:0
SCET1:    98-151/21:21:57.800   SCET2:    98-151/21:41:04.466
TARGET: EUROPA                  PARTITION: 1

MODE:      4                    GAIN:      3
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

15ENSUCOMP02

```
OAPEL:  15ENSUCOMP02            ALIAS:  15ENSUCOMP02
EXT:    A                       PSID:   G
SCLK1:  04499717:00:0           SCLK2:  04499735:86:0
SCET1:    98-151/21:50:16.466   SCET2:    98-151/22:09:26.466
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:  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

15ENSUCOMP03

```
OAPEL:  15ENSUCOMP03            ALIAS:  15ENSUCOMP03
EXT:    A                       PSID:   DH
SCLK1:  04499749:00:0           SCLK2:  04499753:90:0
SCET1:    98-151/22:22:37.800   SCET2:    98-151/22:27:40.466
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENSUCOMP03

```
OAPEL:  15ENSUCOMP03            ALIAS:  15ENSUCOMP03
EXT:    C                       PSID:   DH
SCLK1:  04499749:00:0           SCLK2:  04499753:90:0
SCET1:    98-151/22:22:37.800   SCET2:    98-151/22:27:40.466
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENSUCOMP03

```
OAPEL:  15ENSUCOMP03            ALIAS:  15ENSUCOMP03
EXT:    I                       PSID:   DH
SCLK1:  04499749:00:0           SCLK2:  04499753:90:0
SCET1:    98-151/22:22:37.800   SCET2:    98-151/22:27:40.466
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:  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

15ENSUCOMP03

```
OAPEL:  15ENSUCOMP03            ALIAS:  15ENSUCOMP03
EXT:    B                       PSID:   DH
SCLK1:  04499754:00:0           SCLK2:  04499758:78:0
SCET1:    98-151/22:27:41.133   SCET2:    98-151/22:32:35.800
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENSUCOMP03

OAPEL: 15ENSUCOMP03 ALIAS: 15ENSUCOMP03
EXT: D PSID: DH
SCLK1: 04499754:00:0 SCLK2: 04499758:78:0
SCET1: 98-151/22:27:41.133 SCET2: 98-151/22:32:35.800
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: 132 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: 0326132001 03 26 132 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENSUCOMP03

```
OAPEL:  15ENSUCOMP03              ALIAS:  15ENSUCOMP03
EXT:    J                         PSID:   DH
SCLK1:  04499754:00:0             SCLK2:  04499758:78:0
SCET1:    98-151/22:27:41.133     SCET2:    98-151/22:32:35.800
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:  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

15ENGLOBAL01

```
OAPEL:  15ENGLOBAL01            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04499985:00:0           SCLK2:  04499987:90:0
SCET1:    98-152/02:21:15.133   SCET2:    98-152/02:24:16.466
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL03

```
OAPEL:  15ENGLOBAL03            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04499991:40:0           SCLK2:  04499995:90:0
SCET1:    98-152/02:27:46.466   SCET2:    98-152/02:32:21.800
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL03

```
OAPEL:  15ENGLOBAL03            ALIAS:  15ENGLOBAL01
EXT:    B                       PSID:   I
SCLK1:  04499995:87:0           SCLK2:  04499995:90:0
SCET1:    98-152/02:32:19.800   SCET2:    98-152/02:32:21.800
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL04

```
OAPEL:  15ENGLOBAL04            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04499996:00:0           SCLK2:  04499998:90:0
SCET1:    98-152/02:32:22.466   SCET2:    98-152/02:35:23.800
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL04

```
OAPEL:  15ENGLOBAL04            ALIAS:  15ENGLOBAL01
EXT:    B                       PSID:   I
SCLK1:  04499996:00:0           SCLK2:  04499998:90:0
SCET1:    98-152/02:32:22.466   SCET2:    98-152/02:35:23.800
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL05

```
OAPEL:  15ENGLOBAL05            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04499999:00:0           SCLK2:  04500003:90:0
SCET1:    98-152/02:35:24.466   SCET2:    98-152/02:40:27.133
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL05

```
OAPEL:  15ENGLOBAL05            ALIAS:  15ENGLOBAL01
EXT:    B                       PSID:   I
SCLK1:  04499999:00:0           SCLK2:  04500003:90:0
SCET1:    98-152/02:35:24.466   SCET2:    98-152/02:40:27.133
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL06

```
OAPEL:  15ENGLOBAL06            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04500004:00:0           SCLK2:  04500005:90:0
SCET1:    98-152/02:40:28.800   SCET2:    98-152/02:42:28.466
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL06

```
OAPEL:  15ENGLOBAL06            ALIAS:  15ENGLOBAL01
EXT:    B                       PSID:   I
SCLK1:  04500004:00:0           SCLK2:  04500005:90:0
SCET1:    98-152/02:40:28.800   SCET2:    98-152/02:42:28.466
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL07

```
OAPEL:  15ENGLOBAL07            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04500006:00:0           SCLK2:  04500010:90:0
SCET1:    98-152/02:42:29.133   SCET2:    98-152/02:47:31.800
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL07

```
OAPEL:  15ENGLOBAL07            ALIAS:  15ENGLOBAL01
EXT:    B                       PSID:   I
SCLK1:  04500006:00:0           SCLK2:  04500010:90:0
SCET1:    98-152/02:42:29.133   SCET2:    98-152/02:47:31.800
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL08

```
OAPEL:  15ENGLOBAL08            ALIAS:  15ENGLOBAL01
EXT:    A                       PSID:   I
SCLK1:  04500011:00:0           SCLK2:  04500013:85:0
SCET1:    98-152/02:47:32.466   SCET2:    98-152/02:50:31.133
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:  228                  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:    0326228001          03  26  228  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	03C00	0,0011,1100,0000,0000
1	1BDFF	1,1011,1101,1111,1111
2	03C00	0,0011,1100,0000,0000
3	1BDFF	1,1011,1101,1111,1111
4	03C00	0,0011,1100,0000,0000
5	1BDFF	1,1011,1101,1111,1111
6	03C00	0,0011,1100,0000,0000
7	1BDFF	1,1011,1101,1111,1111
8	03C00	0,0011,1100,0000,0000
9	1BDFF	1,1011,1101,1111,1111
10	03C00	0,0011,1100,0000,0000
11	1BDFF	1,1011,1101,1111,1111
12	03C00	0,0011,1100,0000,0000
13	1BDFF	1,1011,1101,1111,1111
14	03C00	0,0011,1100,0000,0000
15	1BDFF	1,1011,1101,1111,1111
16	03C00	0,0011,1100,0000,0000
17	1BDFF	1,1011,1101,1111,1111
18	03C00	0,0011,1100,0000,0000
19	1BDFF	1,1011,1101,1111,1111
20	03C00	0,0011,1100,0000,0000
21	1BDFF	1,1011,1101,1111,1111
22	03C00	0,0011,1100,0000,0000
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENGLOBAL08

```
OAPEL:  15ENGLOBAL08            ALIAS:  15ENGLOBAL01
EXT:    B                       PSID:   I
SCLK1:  04500011:00:0           SCLK2:  04500013:85:0
SCET1:    98-152/02:47:32.466   SCET2:    98-152/02:50:31.133
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:  132                  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:    0326132001          03  26  132  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	181FF	1,1000,0001,1111,1111
1	00000	0,0000,0000,0000,0000
2	181FF	1,1000,0001,1111,1111
3	00000	0,0000,0000,0000,0000
4	181FF	1,1000,0001,1111,1111
5	00000	0,0000,0000,0000,0000
6	181FF	1,1000,0001,1111,1111
7	00000	0,0000,0000,0000,0000
8	181FF	1,1000,0001,1111,1111
9	00000	0,0000,0000,0000,0000
10	181FF	1,1000,0001,1111,1111
11	00000	0,0000,0000,0000,0000
12	181FF	1,1000,0001,1111,1111
13	00000	0,0000,0000,0000,0000
14	181FF	1,1000,0001,1111,1111
15	00000	0,0000,0000,0000,0000
16	181FF	1,1000,0001,1111,1111
17	00000	0,0000,0000,0000,0000
18	181FF	1,1000,0001,1111,1111
19	00000	0,0000,0000,0000,0000
20	181FF	1,1000,0001,1111,1111
21	00000	0,0000,0000,0000,0000
22	181FF	1,1000,0001,1111,1111
23	00000	0,0000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR16H01

```
OAPEL:  15ENEUR16H01            ALIAS:  15ENEUR16H01
EXT:    A                       PSID:   K
SCLK1:  04500637:00:0           SCLK2:  04500641:65:0
SCET1:    98-152/13:20:29.733   SCET2:    98-152/13:25:15.733
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

15ENEUR16H01

OAPEL: 15ENEUR16H01 ALIAS: 15ENEUR16H01
EXT: C PSID: K
SCLK1: 04500637:00:0 SCLK2: 04500641:65:0
SCET1: 98-152/13:20:29.733 SCET2: 98-152/13:25:15.733
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: 120 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: 0326120001 03 26 120 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1B800	1,1011,1000,0000,0000
1	1B800	1,1011,1000,0000,0000
2	1B800	1,1011,1000,0000,0000
3	1B800	1,1011,1000,0000,0000
4	1B800	1,1011,1000,0000,0000
5	1B800	1,1011,1000,0000,0000
6	1B800	1,1011,1000,0000,0000
7	1B800	1,1011,1000,0000,0000
8	1B800	1,1011,1000,0000,0000
9	1B800	1,1011,1000,0000,0000
10	1B800	1,1011,1000,0000,0000
11	1B800	1,1011,1000,0000,0000
12	1B800	1,1011,1000,0000,0000
13	1B800	1,1011,1000,0000,0000
14	1B800	1,1011,1000,0000,0000
15	1B800	1,1011,1000,0000,0000
16	1B800	1,1011,1000,0000,0000
17	1B800	1,1011,1000,0000,0000
18	1B800	1,1011,1000,0000,0000
19	1B800	1,1011,1000,0000,0000
20	1B800	1,1011,1000,0000,0000
21	1B800	1,1011,1000,0000,0000
22	1B800	1,1011,1000,0000,0000
23	1B800	1,1011,1000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR16H01

```
OAPEL:  15ENEUR16H01              ALIAS:  15ENEUR16H01
EXT:    E                         PSID:   K
SCLK1:  04500637:00:0             SCLK2:  04500637:64:0
SCET1:    98-152/13:20:29.733     SCET2:    98-152/13:21:12.400
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:  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

15ENEUR16H01

```
OAPEL:  15ENEUR16H01              ALIAS:  15ENEUR16H01
EXT:    I                         PSID:   K
SCLK1:  04500637:00:0             SCLK2:  04500641:65:0
SCET1:    98-152/13:20:29.733     SCET2:    98-152/13:25:15.733
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:  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

15ENEUR16H01

OAPEL: 15ENEUR16H01 ALIAS: 15ENEUR16H01
EXT: B PSID: K
SCLK1: 04500643:87:0 SCLK2: 04500648:54:0
SCET1: 98-152/13:27:31.733 SCET2: 98-152/13:32:13.733
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

15ENEUR16H01

```
OAPEL:  15ENEUR16H01              ALIAS:  15ENEUR16H01
EXT:    D                         PSID:   K
SCLK1:  04500643:87:0             SCLK2:  04500648:54:0
SCET1:    98-152/13:27:31.733     SCET2:    98-152/13:32:13.733
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:   72                    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:    0326072001          03  26  072  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000C8	0,0000,0000,1100,1000
1	000C8	0,0000,0000,1100,1000
2	000C8	0,0000,0000,1100,1000
3	000C8	0,0000,0000,1100,1000
4	000C8	0,0000,0000,1100,1000
5	000C8	0,0000,0000,1100,1000
6	000C8	0,0000,0000,1100,1000
7	000C8	0,0000,0000,1100,1000
8	000C8	0,0000,0000,1100,1000
9	000C8	0,0000,0000,1100,1000
10	000C8	0,0000,0000,1100,1000
11	000C8	0,0000,0000,1100,1000
12	000C8	0,0000,0000,1100,1000
13	000C8	0,0000,0000,1100,1000
14	000C8	0,0000,0000,1100,1000
15	000C8	0,0000,0000,1100,1000
16	000C8	0,0000,0000,1100,1000
17	000C8	0,0000,0000,1100,1000
18	000C8	0,0000,0000,1100,1000
19	000C8	0,0000,0000,1100,1000
20	000C8	0,0000,0000,1100,1000
21	000C8	0,0000,0000,1100,1000
22	000C8	0,0000,0000,1100,1000
23	000C8	0,0000,0000,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR16H01

```
OAPEL:  15ENEUR16H01            ALIAS:  15ENEUR16H01
EXT:    J                       PSID:   K
SCLK1:  04500643:87:0           SCLK2:  04500648:54:0
SCET1:    98-152/13:27:31.733   SCET2:    98-152/13:32:13.733
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:  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	1BDC8	1,1011,1101,1100,1000
1	1BDC8	1,1011,1101,1100,1000
2	1BDC8	1,1011,1101,1100,1000
3	1BDC8	1,1011,1101,1100,1000
4	1BDC8	1,1011,1101,1100,1000
5	1BDC8	1,1011,1101,1100,1000
6	1BDC8	1,1011,1101,1100,1000
7	1BDC8	1,1011,1101,1100,1000
8	1BDC8	1,1011,1101,1100,1000
9	1BDC8	1,1011,1101,1100,1000
10	1BDC8	1,1011,1101,1100,1000
11	1BDC8	1,1011,1101,1100,1000
12	1BDC8	1,1011,1101,1100,1000
13	1BDC8	1,1011,1101,1100,1000
14	1BDC8	1,1011,1101,1100,1000
15	1BDC8	1,1011,1101,1100,1000
16	1BDC8	1,1011,1101,1100,1000
17	1BDC8	1,1011,1101,1100,1000
18	1BDC8	1,1011,1101,1100,1000
19	1BDC8	1,1011,1101,1100,1000
20	1BDC8	1,1011,1101,1100,1000
21	1BDC8	1,1011,1101,1100,1000
22	1BDC8	1,1011,1101,1100,1000
23	1BDC8	1,1011,1101,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15JNJUPRTS02

```
OAPEL:  15JNJUPRTS02            ALIAS:  15JNJUPRTS02
EXT:    R                       PSID:   C
SCLK1:  04500706:00:0           SCLK2:  04500725:12:0
SCET1:  1998-152/14:30:15.700   SCET2:  1998-152/14:49:36.400
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: 1
EST_COMP:  2.0                  EST_COMPV: 0.3
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

15JNJPDARK01

OAPEL: 15JNJPDARK01 ALIAS: 15JNJPDARK01
EXT: A PSID: N
SCLK1: 04500840:00:0 SCLK2: 04500849:73:0
SCET1: 98-152/16:45:45.066 SCET2: 98-152/16:55:40.400
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: 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: 80 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: 0326080001 03 26 080 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	00007	0,0000,0000,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00007	0,0000,0000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	0000F	0,0000,0000,0000,1111
17	0000F	0,0000,0000,0000,1111
18	0000F	0,0000,0000,0000,1111
19	0000F	0,0000,0000,0000,1111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15JNJPDARK01

OAPEL: 15JNJPDARK01 ALIAS: 15JNJPDARK01
EXT: B PSID: N
SCLK1: 04500840:00:0 SCLK2: 04500849:72:0
SCET1: 98-152/16:45:45.066 SCET2: 98-152/16:55:39.733
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: 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: 149 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: 0326149001 03 26 149 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	001F8	0,0000,0001,1111,1000
1	005F8	0,0000,0101,1111,1000
2	005F8	0,0000,0101,1111,1000
3	005F8	0,0000,0101,1111,1000
4	005F8	0,0000,0101,1111,1000
5	005F8	0,0000,0101,1111,1000
6	005F8	0,0000,0101,1111,1000
7	005F8	0,0000,0101,1111,1000
8	005F8	0,0000,0101,1111,1000
9	005F8	0,0000,0101,1111,1000
10	005F8	0,0000,0101,1111,1000
11	005F8	0,0000,0101,1111,1000
12	005F8	0,0000,0101,1111,1000
13	005F8	0,0000,0101,1111,1000
14	001F8	0,0000,0001,1111,1000
15	001F8	0,0000,0001,1111,1000
16	001F0	0,0000,0001,1111,0000
17	001F0	0,0000,0001,1111,0000
18	001F0	0,0000,0001,1111,0000
19	001F0	0,0000,0001,1111,0000
20	001F0	0,0000,0001,1111,0000
21	001F0	0,0000,0001,1111,0000
22	001F0	0,0000,0001,1111,0000
23	001F0	0,0000,0001,1111,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15JNJUPRTS03

OAPEL: 15JNJUPRTS03 ALIAS: 15JNJUPRTS03
EXT: R PSID: DJ
SCLK1: 04500854:00:0 SCLK2: 04500864:12:0
SCET1: 1998-152/16:59:54.400 SCET2: 1998-152/17:10:09.066
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: 1
EST_COMP: 2.0 EST_COMPV: 0.3
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

15JNJPDARK02

```
OAPEL:  15JNJPDARK02              ALIAS:  15JNJPDARK02
EXT:    A                         PSID:   O
SCLK1:  04500873:00:0             SCLK2:  04500882:87:0
SCET1:    98-152/17:19:07.066     SCET2:    98-152/17:29:11.733
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:       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:   80                    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:    0326080001          03  26  080  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	00007	0,0000,0000,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00007	0,0000,0000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	0000F	0,0000,0000,0000,1111
17	0000F	0,0000,0000,0000,1111
18	0000F	0,0000,0000,0000,1111
19	0000F	0,0000,0000,0000,1111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15JNJPDARK02

OAPEL: 15JNJPDARK02 ALIAS: 15JNJPDARK02
EXT: B PSID: O
SCLK1: 04500873:00:0 SCLK2: 04500882:87:0
SCET1: 98-152/17:19:07.066 SCET2: 98-152/17:29:11.733
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: 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: 149 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: 0326149001 03 26 149 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	001F8	0,0000,0001,1111,1000
1	005F8	0,0000,0101,1111,1000
2	005F8	0,0000,0101,1111,1000
3	005F8	0,0000,0101,1111,1000
4	005F8	0,0000,0101,1111,1000
5	005F8	0,0000,0101,1111,1000
6	005F8	0,0000,0101,1111,1000
7	005F8	0,0000,0101,1111,1000
8	005F8	0,0000,0101,1111,1000
9	005F8	0,0000,0101,1111,1000
10	005F8	0,0000,0101,1111,1000
11	005F8	0,0000,0101,1111,1000
12	005F8	0,0000,0101,1111,1000
13	005F8	0,0000,0101,1111,1000
14	001F8	0,0000,0001,1111,1000
15	001F8	0,0000,0001,1111,1000
16	001F0	0,0000,0001,1111,0000
17	001F0	0,0000,0001,1111,0000
18	001F0	0,0000,0001,1111,0000
19	001F0	0,0000,0001,1111,0000
20	001F0	0,0000,0001,1111,0000
21	001F0	0,0000,0001,1111,0000
22	001F0	0,0000,0001,1111,0000
23	001F0	0,0000,0001,1111,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR20H01

```
OAPEL:  15ENEUR20H01            ALIAS:  15ENEUR20H01
EXT:    A                       PSID:   CM
SCLK1:  04500904:00:0           SCLK2:  04500908:12:0
SCET1:    98-152/17:50:27.733   SCET2:    98-152/17:54:39.066
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

15ENEUR20H01

```
OAPEL:  15ENEUR20H01            ALIAS:  15ENEUR20H01
EXT:    C                       PSID:   CM
SCLK1:  04500904:00:0           SCLK2:  04500908:27:0
SCET1:    98-152/17:50:27.733   SCET2:    98-152/17:54:49.066
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:  120                  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:    0326120001          03  26  120  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1B800	1,1011,1000,0000,0000
1	1B800	1,1011,1000,0000,0000
2	1B800	1,1011,1000,0000,0000
3	1B800	1,1011,1000,0000,0000
4	1B800	1,1011,1000,0000,0000
5	1B800	1,1011,1000,0000,0000
6	1B800	1,1011,1000,0000,0000
7	1B800	1,1011,1000,0000,0000
8	1B800	1,1011,1000,0000,0000
9	1B800	1,1011,1000,0000,0000
10	1B800	1,1011,1000,0000,0000
11	1B800	1,1011,1000,0000,0000
12	1B800	1,1011,1000,0000,0000
13	1B800	1,1011,1000,0000,0000
14	1B800	1,1011,1000,0000,0000
15	1B800	1,1011,1000,0000,0000
16	1B800	1,1011,1000,0000,0000
17	1B800	1,1011,1000,0000,0000
18	1B800	1,1011,1000,0000,0000
19	1B800	1,1011,1000,0000,0000
20	1B800	1,1011,1000,0000,0000
21	1B800	1,1011,1000,0000,0000
22	1B800	1,1011,1000,0000,0000
23	1B800	1,1011,1000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR20H01

```
OAPEL:  15ENEUR20H01            ALIAS:  15ENEUR20H01
EXT:    I                       PSID:   CM
SCLK1:  04500904:00:0           SCLK2:  04500908:27:0
SCET1:    98-152/17:50:27.733   SCET2:    98-152/17:54:49.066
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:  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

15ENEUR20H01

```
OAPEL:  15ENEUR20H01            ALIAS:  15ENEUR20H01
EXT:    B                       PSID:   CM
SCLK1:  04500910:52:0           SCLK2:  04500914:65:0
SCET1:    98-152/17:57:06.400   SCET2:    98-152/18:01:17.733
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

15ENEUR20H01

```
OAPEL:  15ENEUR20H01            ALIAS:  15ENEUR20H01
EXT:    D                       PSID:   CM
SCLK1:  04500910:44:0           SCLK2:  04500914:73:0
SCET1:    98-152/17:57:01.066   SCET2:    98-152/18:01:23.066
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:   72                  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:    0326072001          03  26  072  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000C8	0,0000,0000,1100,1000
1	000C8	0,0000,0000,1100,1000
2	000C8	0,0000,0000,1100,1000
3	000C8	0,0000,0000,1100,1000
4	000C8	0,0000,0000,1100,1000
5	000C8	0,0000,0000,1100,1000
6	000C8	0,0000,0000,1100,1000
7	000C8	0,0000,0000,1100,1000
8	000C8	0,0000,0000,1100,1000
9	000C8	0,0000,0000,1100,1000
10	000C8	0,0000,0000,1100,1000
11	000C8	0,0000,0000,1100,1000
12	000C8	0,0000,0000,1100,1000
13	000C8	0,0000,0000,1100,1000
14	000C8	0,0000,0000,1100,1000
15	000C8	0,0000,0000,1100,1000
16	000C8	0,0000,0000,1100,1000
17	000C8	0,0000,0000,1100,1000
18	000C8	0,0000,0000,1100,1000
19	000C8	0,0000,0000,1100,1000
20	000C8	0,0000,0000,1100,1000
21	000C8	0,0000,0000,1100,1000
22	000C8	0,0000,0000,1100,1000
23	000C8	0,0000,0000,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR20H01

```
OAPEL:  15ENEUR20H01              ALIAS:  15ENEUR20H01
EXT:    J                         PSID:   CM
SCLK1:  04500910:52:0             SCLK2:  04500914:73:0
SCET1:    98-152/17:57:06.400     SCET2:    98-152/18:01:23.066
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:  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	1BDC8	1,1011,1101,1100,1000
1	1BDC8	1,1011,1101,1100,1000
2	1BDC8	1,1011,1101,1100,1000
3	1BDC8	1,1011,1101,1100,1000
4	1BDC8	1,1011,1101,1100,1000
5	1BDC8	1,1011,1101,1100,1000
6	1BDC8	1,1011,1101,1100,1000
7	1BDC8	1,1011,1101,1100,1000
8	1BDC8	1,1011,1101,1100,1000
9	1BDC8	1,1011,1101,1100,1000
10	1BDC8	1,1011,1101,1100,1000
11	1BDC8	1,1011,1101,1100,1000
12	1BDC8	1,1011,1101,1100,1000
13	1BDC8	1,1011,1101,1100,1000
14	1BDC8	1,1011,1101,1100,1000
15	1BDC8	1,1011,1101,1100,1000
16	1BDC8	1,1011,1101,1100,1000
17	1BDC8	1,1011,1101,1100,1000
18	1BDC8	1,1011,1101,1100,1000
19	1BDC8	1,1011,1101,1100,1000
20	1BDC8	1,1011,1101,1100,1000
21	1BDC8	1,1011,1101,1100,1000
22	1BDC8	1,1011,1101,1100,1000
23	1BDC8	1,1011,1101,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15JNJPDARK03

OAPEL: 15JNJPDARK03 ALIAS: 15JNJPDARK03
EXT: A PSID: P
SCLK1: 04500924:00:0 SCLK2: 04500933:42:0
SCET1: 98-152/18:10:41.066 SCET2: 98-152/18:20:15.733
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: 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: 80 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: 0326080001 03 26 080 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	00007	0,0000,0000,0000,0111
1	00007	0,0000,0000,0000,0111
2	00007	0,0000,0000,0000,0111
3	00007	0,0000,0000,0000,0111
4	00007	0,0000,0000,0000,0111
5	00007	0,0000,0000,0000,0111
6	00007	0,0000,0000,0000,0111
7	00007	0,0000,0000,0000,0111
8	00007	0,0000,0000,0000,0111
9	00007	0,0000,0000,0000,0111
10	00007	0,0000,0000,0000,0111
11	00007	0,0000,0000,0000,0111
12	00007	0,0000,0000,0000,0111
13	00007	0,0000,0000,0000,0111
14	00007	0,0000,0000,0000,0111
15	00007	0,0000,0000,0000,0111
16	0000F	0,0000,0000,0000,1111
17	0000F	0,0000,0000,0000,1111
18	0000F	0,0000,0000,0000,1111
19	0000F	0,0000,0000,0000,1111
20	0000F	0,0000,0000,0000,1111
21	0000F	0,0000,0000,0000,1111
22	0000F	0,0000,0000,0000,1111
23	0000F	0,0000,0000,0000,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15JNJPDARK03

OAPEL: 15JNJPDARK03 ALIAS: 15JNJPDARK03
EXT: B PSID: P
SCLK1: 04500924:00:0 SCLK2: 04500933:73:0
SCET1: 98-152/18:10:41.066 SCET2: 98-152/18:20:36.400
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: 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: 149 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: 0326149001 03 26 149 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	001F8	0,0000,0001,1111,1000
1	005F8	0,0000,0101,1111,1000
2	005F8	0,0000,0101,1111,1000
3	005F8	0,0000,0101,1111,1000
4	005F8	0,0000,0101,1111,1000
5	005F8	0,0000,0101,1111,1000
6	005F8	0,0000,0101,1111,1000
7	005F8	0,0000,0101,1111,1000
8	005F8	0,0000,0101,1111,1000
9	005F8	0,0000,0101,1111,1000
10	005F8	0,0000,0101,1111,1000
11	005F8	0,0000,0101,1111,1000
12	005F8	0,0000,0101,1111,1000
13	005F8	0,0000,0101,1111,1000
14	001F8	0,0000,0001,1111,1000
15	001F8	0,0000,0001,1111,1000
16	001F0	0,0000,0001,1111,0000
17	001F0	0,0000,0001,1111,0000
18	001F0	0,0000,0001,1111,0000
19	001F0	0,0000,0001,1111,0000
20	001F0	0,0000,0001,1111,0000
21	001F0	0,0000,0001,1111,0000
22	001F0	0,0000,0001,1111,0000
23	001F0	0,0000,0001,1111,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR22H01

```
OAPEL:  15ENEUR22H01              ALIAS:  15ENEUR22H01
EXT:    A                         PSID:   M
SCLK1:  04500978:00:0             SCLK2:  04500981:77:0
SCET1:    98-152/19:05:17.066     SCET2:    98-152/19:09:11.066
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

15ENEUR22H01

OAPEL: 15ENEUR22H01 ALIAS: 15ENEUR22H01
EXT: C PSID: M
SCLK1: 04500978:00:0 SCLK2: 04500981:77:0
SCET1: 98-152/19:05:17.066 SCET2: 98-152/19:09:11.066
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: 120 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: 0326120001 03 26 120 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1B800	1,1011,1000,0000,0000
1	1B800	1,1011,1000,0000,0000
2	1B800	1,1011,1000,0000,0000
3	1B800	1,1011,1000,0000,0000
4	1B800	1,1011,1000,0000,0000
5	1B800	1,1011,1000,0000,0000
6	1B800	1,1011,1000,0000,0000
7	1B800	1,1011,1000,0000,0000
8	1B800	1,1011,1000,0000,0000
9	1B800	1,1011,1000,0000,0000
10	1B800	1,1011,1000,0000,0000
11	1B800	1,1011,1000,0000,0000
12	1B800	1,1011,1000,0000,0000
13	1B800	1,1011,1000,0000,0000
14	1B800	1,1011,1000,0000,0000
15	1B800	1,1011,1000,0000,0000
16	1B800	1,1011,1000,0000,0000
17	1B800	1,1011,1000,0000,0000
18	1B800	1,1011,1000,0000,0000
19	1B800	1,1011,1000,0000,0000
20	1B800	1,1011,1000,0000,0000
21	1B800	1,1011,1000,0000,0000
22	1B800	1,1011,1000,0000,0000
23	1B800	1,1011,1000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR22H01

```
OAPEL:  15ENEUR22H01              ALIAS:  15ENEUR22H01
EXT:    I                         PSID:   M
SCLK1:  04500978:00:0             SCLK2:  04500981:77:0
SCET1:    98-152/19:05:17.066     SCET2:    98-152/19:09:11.066
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:  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

15ENEUR22H01

```
OAPEL:  15ENEUR22H01            ALIAS:  15ENEUR22H01
EXT:    B                       PSID:   M
SCLK1:  04500984:00:0           SCLK2:  04500987:77:0
SCET1:    98-152/19:11:21.066   SCET2:    98-152/19:15:15.066
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

15ENEUR22H01

```
OAPEL:  15ENEUR22H01              ALIAS:  15ENEUR22H01
EXT:    D                         PSID:   M
SCLK1:  04500984:00:0             SCLK2:  04500987:77:0
SCET1:    98-152/19:11:21.066     SCET2:    98-152/19:15:15.066
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:   72                    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:    0326072001          03  26  072  001
WTGRP_SIZ: 26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	000C8	0,0000,0000,1100,1000
1	000C8	0,0000,0000,1100,1000
2	000C8	0,0000,0000,1100,1000
3	000C8	0,0000,0000,1100,1000
4	000C8	0,0000,0000,1100,1000
5	000C8	0,0000,0000,1100,1000
6	000C8	0,0000,0000,1100,1000
7	000C8	0,0000,0000,1100,1000
8	000C8	0,0000,0000,1100,1000
9	000C8	0,0000,0000,1100,1000
10	000C8	0,0000,0000,1100,1000
11	000C8	0,0000,0000,1100,1000
12	000C8	0,0000,0000,1100,1000
13	000C8	0,0000,0000,1100,1000
14	000C8	0,0000,0000,1100,1000
15	000C8	0,0000,0000,1100,1000
16	000C8	0,0000,0000,1100,1000
17	000C8	0,0000,0000,1100,1000
18	000C8	0,0000,0000,1100,1000
19	000C8	0,0000,0000,1100,1000
20	000C8	0,0000,0000,1100,1000
21	000C8	0,0000,0000,1100,1000
22	000C8	0,0000,0000,1100,1000
23	000C8	0,0000,0000,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15ENEUR22H01

OAPEL: 15ENEUR22H01 ALIAS: 15ENEUR22H01
EXT: J PSID: M
SCLK1: 04500984:00:0 SCLK2: 04500987:77:0
SCET1: 98-152/19:11:21.066 SCET2: 98-152/19:15:15.066
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: 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	1BDC8	1,1011,1101,1100,1000
1	1BDC8	1,1011,1101,1100,1000
2	1BDC8	1,1011,1101,1100,1000
3	1BDC8	1,1011,1101,1100,1000
4	1BDC8	1,1011,1101,1100,1000
5	1BDC8	1,1011,1101,1100,1000
6	1BDC8	1,1011,1101,1100,1000
7	1BDC8	1,1011,1101,1100,1000
8	1BDC8	1,1011,1101,1100,1000
9	1BDC8	1,1011,1101,1100,1000
10	1BDC8	1,1011,1101,1100,1000
11	1BDC8	1,1011,1101,1100,1000
12	1BDC8	1,1011,1101,1100,1000
13	1BDC8	1,1011,1101,1100,1000
14	1BDC8	1,1011,1101,1100,1000
15	1BDC8	1,1011,1101,1100,1000
16	1BDC8	1,1011,1101,1100,1000
17	1BDC8	1,1011,1101,1100,1000
18	1BDC8	1,1011,1101,1100,1000
19	1BDC8	1,1011,1101,1100,1000
20	1BDC8	1,1011,1101,1100,1000
21	1BDC8	1,1011,1101,1100,1000
22	1BDC8	1,1011,1101,1100,1000
23	1BDC8	1,1011,1101,1100,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

15NNRCTRLT01

```
OAPEL:  15NNRCTRLT01            ALIAS:  LSNNRCTRTA01
EXT:    R                       PSID:   XU
SCLK1:  04540944:00:0           SCLK2:  04540944:12:0
SCET1:  1998-180/20:35:19.666   SCET2:  1998-180/20:35:27.666
TARGET: CAL                     PARTITION: 1

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

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

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

WETGID:    0303252000          03  03  252  000
WTGRP_SIZ:  3
```

EDIT TABLE

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

15NNRCTRLT01

OAPEL: 15NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: S PSID: XU
SCLK1: 04540950:00:0 SCLK2: 04540951:12:0
SCET1: 1998-180/20:41:23.666 SCET2: 1998-180/20:42:32.333
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

15NNRCTRLT01

OAPEL: 15NNRCTRLT01 ALIAS: LSNNRCTRTA01
EXT: T PSID: XU
SCLK1: 04540956:00:0 SCLK2: 04540956:12:0
SCET1: 1998-180/20:47:27.666 SCET2: 1998-180/20:47:35.666
TARGET: CAL PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

15NNOPCAL_01

OAPEL: 15NNOPCAL_01 ALIAS: LSNNOPCAL_01
EXT: R PSID: DC
SCLK1: 04540960:00:0 SCLK2: 04540962:12:0
SCET1: 1998-180/20:51:30.333 SCET2: 1998-180/20:53:39.666
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: 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 E15 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS E15 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

	MODE	2	72 - 73	.NIMS Instrument MODE (0-15)	SEF: 37IOP, data byte 2, bits 5-8
	GAIN	1	74 - 74	.Gain State (true value)	SEF: 37IST, data byte 3, bits 7-8 (if bit 6 = 1) 0=gs2, 1=gs4, 2=gs3, 3=gs1
	CHOP	1	75 - 75	.Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)	SEF: 37IST, data byte 2, bits 7-8 (if bit 6 = 1) 0=63hz, 1=off, 2=ref, 3=freerun
	GRAT_OFF	1	76 - 76	.Grating Offset (0-7, default 4)	SEF: 37GOF, data byte 2, bits 5-8
	PTAB_A(6)	12	77 - 88	.First PTAB |repeat count,mirror op,autobias...	SEF: functions of MODE (from 37IOP) as modified by 37MPT, unless special sequence (modes 12-15) in which case values come from 37SS parameters <tbd>
	PTAB_B(6)	12	89 - 100	.Second PTAB |...grating start, grating delta...	
				. |...number of grating positions)	
	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 position blocking, down scan)	SEF: 37MB data byte 1, bits 4-8 <tbd>
#	RTISELUP	5	112 - 116	.RTI select, 5 binary bits (for mirror position blocking, up scan)	SEF: 37MB data byte 2, bits 4-8 <tbd>
	<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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-------------------------------------------------------------------------------------------------------------------------
15JNJUPRTS0115JNJUPRTS01RDA04498598:00:004498607:12:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 1 2.00.3000
0000000                 408RT 1998-151/02:58:50.5001998-151/03:08:04.566
          00000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

15INHRSPEC0115INHRSPEC01CB 04499211:00:004499221:44:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/13:18:39.133  98-151/13:29:15.133
          00000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15INHRSPEC0115INHRSPEC01AB 04499221:44:004499226:53:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 360MPW  98-151/13:29:15.133  98-151/13:34:25.133
          03003003000003002902802802902803203403103103203002903263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15INHRSPEC0115INHRSPEC01DB 04499226:65:004499226:90:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/13:34:33.133  98-151/13:34:49.133
          00000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15INHRSPEC0115INHRSPEC01BB 04499227:00:004499231:76:01         IO       4214 1 0 0 0 124 1 0 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/13:34:49.800  98-151/13:39:43.133
          00000000000000000000000000000000000000000000000000042636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15INHRSPEC0215INHRSPEC02AD 04499467:00:004499480:38:01         IO       3214 1 1 0 0 124 1 1 0 0 12400012 0000000000 1 2.00.3000
0065525                 360MPW  98-151/17:37:29.800  98-151/17:51:04.466
          03003003000003002902802802902803203403103103203002903263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15INHRSPEC0215INHRSPEC02BD 04499480:50:004499485:51:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/17:51:12.466  98-151/17:56:15.800
          00000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENREGION0115ENREGION01AE 04499652:00:004499670:84:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/20:44:33.133  98-151/21:03:41.800
          00000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENSUCOMP0115ENSUCOMP01AF 04499689:00:004499707:82:01         EUROPA   4314 1 0 0 0 124 1 0 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/21:21:57.800  98-151/21:41:04.466
          00000000000000000000000000000000000000000000000000042636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENSUCOMP0215ENSUCOMP02AG 04499717:00:004499735:86:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/21:50:16.466  98-151/22:09:26.466
          00000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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15ENSUCOMP0315ENSUCOMP03ADH04499749:00:004499753:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-151/22:22:37.800  98-151/22:27:40.466
          0000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENSUCOMP0315ENSUCOMP03CDH04499749:00:004499753:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-151/22:22:37.800  98-151/22:27:40.466
          0000000000000000000000000000000000000000000000000032613200126011 81FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF01000000100000
15ENSUCOMP0315ENSUCOMP03IDH04499749:00:004499753:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/22:22:37.800  98-151/22:27:40.466
          0000000000000000000000000000000000000000000000000032636000126011 BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENSUCOMP0315ENSUCOMP03BDH04499754:00:004499758:78:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-151/22:27:41.133  98-151/22:32:35.800
          0000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENSUCOMP0315ENSUCOMP03DDH04499754:00:004499758:78:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-151/22:27:41.133  98-151/22:32:35.800
          0000000000000000000000000000000000000000000000000032613200126011 81FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF01000000100000
15ENSUCOMP0315ENSUCOMP03JDH04499754:00:004499758:78:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-151/22:27:41.133  98-151/22:32:35.800
          0000000000000000000000000000000000000000000000000032636000126011 BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENGLOBAL0115ENGLOBAL01AI 04499985:00:004499987:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:21:15.133  98-152/02:24:16.466
          0000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENGLOBAL0315ENGLOBAL01AI 04499991:40:004499995:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:27:46.466  98-152/02:32:21.800
          0000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENGLOBAL0315ENGLOBAL01BI 04499995:87:004499995:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-152/02:32:19.800  98-152/02:32:21.800
          0000000000000000000000000000000000000000000000000032613200126011 81FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF01000000100000
15ENGLOBAL0415ENGLOBAL01AI 04499996:00:004499998:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:32:22.466  98-152/02:35:23.800
          0000000000000000000000000000000000000000000000000032622800126010 3C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
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15ENGLOBAL0415ENGLOBAL01BI 04499996:00:004499998:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-152/02:32:22.466  98-152/02:35:23.800
          000000000000000000000000000000000000000000000000000003261320012601181FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001000000100000
15ENGLOBAL0515ENGLOBAL01AI 04499999:00:004500003:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:35:24.466  98-152/02:40:27.133
          00000000000000000000000000000000000000000000000000000326228001260103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENGLOBAL0515ENGLOBAL01BI 04499999:00:004500003:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-152/02:35:24.466  98-152/02:40:27.133
          000000000000000000000000000000000000000000000000000003261320012601181FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001000000100000
15ENGLOBAL0615ENGLOBAL01AI 04500004:00:004500005:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:40:28.800  98-152/02:42:28.466
          00000000000000000000000000000000000000000000000000000326228001260103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENGLOBAL0615ENGLOBAL01BI 04500004:00:004500005:90:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-152/02:40:28.800  98-152/02:42:28.466
          000000000000000000000000000000000000000000000000000003261320012601181FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001000000100000
15ENGLOBAL0715ENGLOBAL01AI 04500006:00:004500010:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:42:29.133  98-152/02:47:31.800
          00000000000000000000000000000000000000000000000000000326228001260103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENGLOBAL0715ENGLOBAL01BI 04500006:00:004500010:90:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-152/02:42:29.133  98-152/02:47:31.800
          000000000000000000000000000000000000000000000000000003261320012601181FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001000000100000
15ENGLOBAL0815ENGLOBAL01AI 04500011:00:004500013:85:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 228MPW  98-152/02:47:32.466  98-152/02:50:31.133
          00000000000000000000000000000000000000000000000000000326228001260103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BD
FF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF0103C00011BDFF01000000100000
15ENGLOBAL0815ENGLOBAL01BI 04500011:00:004500013:85:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 132MPW  98-152/02:47:32.466  98-152/02:50:31.133
          000000000000000000000000000000000000000000000000000003261320012601181FF010000001181FF010000001181FF010000001181FF01000
0001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001181FF010000001000000100000
15ENEUR16H0115ENEUR16H01AK 04500637:00:004500641:65:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 240MPW  98-152/13:20:29.733  98-152/13:25:15.733
          000000000000000000000000000000000000000000000000000003262400012601005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
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15ENEUR16H0115ENEUR16H01CK 04500637:00:004500641:65:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 120MPW  98-152/13:20:29.733  98-152/13:25:15.733
          000000000000000000000000000000000000000000000000000032612000126011B800011B800011B800011B800011B800011B800011B800011B8
00011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B8001000000100000
15ENEUR16H0115ENEUR16H01EK 04500637:00:004500637:64:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-152/13:20:29.733  98-152/13:21:12.400
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENEUR16H0115ENEUR16H01IK 04500637:00:004500641:65:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-152/13:20:29.733  98-152/13:25:15.733
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENEUR16H0115ENEUR16H01BK 04500643:87:004500648:54:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 168LPU  98-152/13:27:31.733  98-152/13:32:13.733
          000000000000000000000000000000000000000000000000000032616800126011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD
00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD0001000000100000
15ENEUR16H0115ENEUR16H01DK 04500643:87:004500648:54:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  72LPU  98-152/13:27:31.733  98-152/13:32:13.733
          000000000000000000000000000000000000000000000000000032607200126010000C801000C801000C801000C801000C801000C801000C801000
C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000100000
15ENEUR16H0115ENEUR16H01JK 04500643:87:004500648:54:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 240LPU  98-152/13:27:31.733  98-152/13:32:13.733
          000000000000000000000000000000000000000000000000000032624000126011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BD
C8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC801000000100000
15JNJUPRTS0215JNJUPRTS02RC 04500706:00:004500725:12:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 1 2.00.3000
0000000                 408RT 1998-152/14:30:15.7001998-152/14:49:36.400
          000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

15JNJPDARK0115JNJPDARK01AN 04500840:00:004500849:73:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  80LPU  98-152/16:45:45.066  98-152/16:55:40.400
          000000000000000000000000000000000000000000000000000032608000126010000701000070100007010000701000070100007010000701000
0701000070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F010000F01000000100000
15JNJPDARK0115JNJPDARK01BN 04500840:00:004500849:72:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 149LPU  98-152/16:45:45.066  98-152/16:55:39.733
          000000000000000000000000000000000000000000000000000032614900126010001F801005F801005F801005F801005F801005F801005F801005
F801005F801005F801005F801005F801005F801001F801001F801001F001001F001001F001001F001001F001001F001001F001001F001000000100000
15JNJUPRTS0315JNJUPRTS03RDJ04500854:00:004500864:12:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 1 2.00.3000
0000000                 408RT 1998-152/16:59:54.4001998-152/17:10:09.066
          000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

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15JNJPDARK0215JNJPDARK02AO 04500873:00:004500882:87:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  80LPU  98-152/17:19:07.066  98-152/17:29:11.733
          000000000000000000000000000000000000000000000000000032608000126010000701000070100007010000701000070100007010000701000
070100007010000701000070100007010000701000070100007010000F010000F010000F010000F010000F010000F010000F01000000100000
15JNJPDARK0215JNJPDARK02BO 04500873:00:004500882:87:01         JUPITER  3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  149LPU  98-152/17:19:07.066  98-152/17:29:11.733
          000000000000000000000000000000000000000000000000000032614900126010001F801005F801005F801005F801005F801005F801005F801005
F801005F801005F801005F801005F801005F801001F801001F801001F001001F001001F001001F001001F001001F001001F001001F001000000100000
15ENEUR20H0115ENEUR20H01ACM04500904:00:004500908:12:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  240MPW  98-152/17:50:27.733  98-152/17:54:39.066
          000000000000000000000000000000000000000000000000000032624000126010005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
15ENEUR20H0115ENEUR20H01CCM04500904:00:004500908:27:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  120MPW  98-152/17:50:27.733  98-152/17:54:49.066
          000000000000000000000000000000000000000000000000000032612000126011B800011B800011B800011B800011B800011B800011B800011B8
00011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B8000100000100000
15ENEUR20H0115ENEUR20H01ICM04500904:00:004500908:27:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  360MPW  98-152/17:50:27.733  98-152/17:54:49.066
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENEUR20H0115ENEUR20H01BCM04500910:52:004500914:65:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  168LPU  98-152/17:57:06.400  98-152/18:01:17.733
          000000000000000000000000000000000000000000000000000032616800126011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD
00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD0001000000100000
15ENEUR20H0115ENEUR20H01DCM04500910:44:004500914:73:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                   72LPU  98-152/17:57:01.066  98-152/18:01:23.066
          000000000000000000000000000000000000000000000000000032607200126010000C801000C801000C801000C801000C801000C801000C801000
C801000C801000C801000C801000C801000C801000C801000
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15ENEUR22H0115ENEUR22H01AM 04500978:00:004500981:77:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 240MPW  98-152/19:05:17.066  98-152/19:09:11.066
          000000000000000000000000000000000000000000000000000032624000126011005FF01005FF01005FF01005FF01005FF01005FF01005FF01005
FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01005FF01000000100000
15ENEUR22H0115ENEUR22H01CM 04500978:00:004500981:77:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 120MPW  98-152/19:05:17.066  98-152/19:09:11.066
          000000000000000000000000000000000000000000000000000032612000126011B800011B800011B800011B800011B800011B800011B800011B8
00011B800011B800011B800011B800011B800011B800011B800011B800011B800011B800011B80001000000100000
15ENEUR22H0115ENEUR22H01IM 04500978:00:004500981:77:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 360MPW  98-152/19:05:17.066  98-152/19:09:11.066
          000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
15ENEUR22H0115ENEUR22H01BM 04500984:00:004500987:77:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 168LPU  98-152/19:11:21.066  98-152/19:15:15.066
          000000000000000000000000000000000000000000000000000032616800126011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD
00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD00011BD0001000000100000
15ENEUR22H0115ENEUR22H01DM 04500984:00:004500987:77:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                  72LPU  98-152/19:11:21.066  98-152/19:15:15.066
          000000000000000000000000000000000000000000000000000032607200126010000C801000C801000C801000C801000C801000C801000C801000
C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000C801000100000
15ENEUR22H0115ENEUR22H01JM 04500984:00:004500987:77:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525                 240LPU  98-152/19:11:21.066  98-152/19:15:15.066
          000000000000000000000000000000000000000000000000000032624000126011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BD
C8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8011BDC8010000001000000
15NNRCTRLT01LSNNRCTRTA01RXU04540944:00:004540944:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-180/20:35:19.6661998-180/20:35:27.666
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

15NNRCTRLT01LSNNRCTRTA01SXU04540950:00:004540951:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-180/20:41:23.6661998-180/20:42:32.333
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

15NNRCTRLT01LSNNRCTRTA01TXU04540956:00:004540956:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1998-180/20:47:27.6661998-180/20:47:35.666
          000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

15NNOPCAL_01LSNNOPCAL_01RDC04540960:00:004540962:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                 048RT 1998-180/20:51:30.3331998-180/20:53:39.666
          000000000000000000000000000000000000000000000000302048000 224180000200000

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