Chapter 4 - NIMS Observation Summaries

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Introduction to Chapter 4

This chapter summarizes the NIMS I25 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 I25 Sequence. The information in this summary is derived from the I25 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 I25 data. It is also derived from the I25 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: I25ADF Safing Created: 11/16/99 Begin: 99-329/04:00:00 Finish: 99-348/08:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	99	329	03:59:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,271,986:38:0
2	**99**	**329**	**04:00:00.000**	**20A3FF**	**40T2R**	**Initial Condition**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**5,271,986:38:3**
3	**99**	**329**	**04:00:00.000**	**20A3FE**	**40T1PR**	**Initial Condition**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,271,986:38:3**
4	**99**	**329**	**04:00:00.000**	**20A3FD**	**40HRPR**	**Initial Condition**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,271,986:38:3**
5	**99**	**329**	**04:00:00.000**	**20A3EW**	**37A**	**Initial Condition**	**NIMS Power ON**	**2O0**	**4**	**0**	**5,271,986:38:3**
6	**99**	**329**	**04:00:00.000**	**20A3EX**	**37HR**	**Initial Condition**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**5,271,986:38:3**
7	**99**	**329**	**04:00:00.000**	**20A3EY**	**37C1PR**	**Initial Condition**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,271,986:38:3**
8	**99**	**329**	**04:00:00.000**	**20A3EZ**	**37C2PR**	**Initial Condition**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**5,271,986:38:3**
9	**99**	**329**	**04:00:00.000**	**20A3FA**	**37F1PR**	**Initial Condition**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,271,986:38:3**
10	**99**	**329**	**04:00:00.000**	**20A3FB**	**37F2PR**	**Initial Condition**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,271,986:38:3**
11	**99**	**329**	**04:00:33.800**	**432JA6B**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2O0**	**4**	**0**	**5,271,986:89:0**
12	99	329	04:00:34.466	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2O0	4	0	5,271,986:90:0
13	**99**	**329**	**04:00:35.133**	**432JA6D**	**6RTSL2**	**NIMNCG,AACSEL,RT**	**AACS SELECT**	**2O0**	**4**	**0**	**5,271,987:00:0**
14	99	329	04:00:35.133	432JA6C	6RTSL1		R/T Select of DDS and	2O0	4	0	5,271,987:00:0
15	99	329	04:02:01.133	488AA6A	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2O0	4	0	5,271,988:38:0
16	99	329	04:02:30.466	20OA6A	6HICON			2O0	4	0	5,271,988:82:0
17	99	329	04:09:33.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,271,995:79:0
18	99	329	04:09:33.133	465KA6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	2O0	4	0	5,271,995:79:0
19	99	329	04:09:39.800		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	2O0	4	0	5,271,995:89:0
20	99	329	04:09:41.200		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	2O0	4	0	5,271,996:00:1
21	99	329	04:09:41.200		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	2O0	4	0	5,271,996:00:1
22	99	329	04:14:10.466	465KA6B	6DMSC	RDY,1	DMS Control Tape stop	2O0	4	0	5,272,000:40:0
23	99	329	04:14:10.466		DMS:	**: *RUNDOWN**	P7, TRACK 1, FWD, TIC * 265.35 +/-	2O0	4	0	5,272,000:40:0
24	99	329	04:14:11.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 265.41 +/-	2O0	4	0	5,272,000:41:8
25	99	329	04:29:59.800	20TO4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,272,016:08:0
26	99	329	04:30:49.800	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,272,016:83:0
27	99	329	04:30:55.800	20TO4E	7STAR	1,1610,278.815,3	Star catalog update	2O0	4	0	5,272,017:01:0
28	99	329	04:30:57.800	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	2O0	4	0	5,272,017:04:0
29	99	329	04:30:59.800	20TO4G	7STAR	3,1610,278.815,3	Star catalog update	2O0	4	0	5,272,017:07:0
30	99	329	04:31:01.800	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	2O0	4	0	5,272,017:10:0
31	99	329	04:31:03.800	20TO4I	7STAR	5,1610,278.815,3	Star catalog update	2O0	4	0	5,272,017:13:0
32	99	329	04:31:05.800	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	2O0	4	0	5,272,017:16:0
33	99	329	04:35:02.466	432OD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2O0	4	0	5,272,021:07:0
34	99	329	04:35:03.133	432OD6A	6RTSL1		R/T Select of DDS and	2O0	4	0	5,272,021:08:0
35	99	329	05:01:03.800	20RA6B	6RTSL1		R/T Select of DDS and	2O0	4	0	5,272,046:74:0
36	99	329	08:36:00.466	480SA6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	2O0	4	0	5,272,259:36:0
37	99	329	08:37:20.466	480SA6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	2O0	4	0	5,272,260:65:0
38	99	329	09:03:52.466	488AA6B	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	2O0	4	0	5,272,286:87:0
39	99	329	09:42:58.466	488AA6C	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	2O0	4	0	5,272,325:57:0
40	99	329	10:01:03.800	20RM6B	6RTSL1		R/T Select of DDS and	2O0	4	0	5,272,343:47:0
41	99	329	12:01:03.800	20RB6B	6RTSL1		R/T Select of DDS and	2O0	4	0	5,272,462:18:0
42	99	329	13:15:41.133	192GA4A	**7CONE**	**9.0,0.0**	Check S/P Position	2O0	4	0	5,272,536:00:0
43	99	329	13:22:45.800	176GA6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	5,272,543:00:0
44	99	329	13:25:00.466	176GA6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	5,272,545:20:0
45	99	329	13:25:02.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 265.41 +/-	2O0	4	0	5,272,545:23:0
46	99	329	13:25:02.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,545:23:0
47	99	329	13:25:09.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 265.41 +/-	2O0	4	0	5,272,545:33:0
48	99	329	13:25:10.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 265.53 +/-	2O0	4	0	5,272,545:35:1
49	99	329	13:25:12.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 265.99 +/-	2O0	4	0	5,272,545:38:0
50	99	329	13:25:23.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 268.64 +/-	2O0	4	0	5,272,545:55:0
51	99	329	13:25:23.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,545:55:0
52	99	329	13:25:25.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 268.70 +/-	2O0	4	0	5,272,545:56:8
53	99	329	13:27:49.133	192GA4B	**7CONE**	**9.0,90.0**	Check S/P Position	2O0	4	0	5,272,548:00:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	99	329	14:01:03.800	20RN6B	6RTSL1		R/T Select of DDS and	2O0	4	0	5,272,580:80:0
55	99	329	14:09:15.800	165GB4A	**7SCAN**	**NORM,257.794998,**	Check S/P Position	2O0	4	0	5,272,588:90:0
56	99	329	14:13:19.133	176GB6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	5,272,593:00:0
57	99	329	14:14:10.466	117GB	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	5,272,593:77:0
58	99	329	14:14:18.466	165GB4B	7VECT		Inert vect update UTC	2O0	4	0	5,272,593:89:0
59	99	329	14:14:19.800	117GB105A106A4A	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,594:00:0
60	99	329	14:15:47.800	117GB105A106A4B	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,595:41:0
61	99	329	14:15:57.800	117GB105A106A4C	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,595:56:0
62	99	329	14:17:25.800	117GB105A106A4D	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,597:06:0
63	99	329	14:17:35.800	117GB105A106A4E	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,597:21:0
64	99	329	14:19:03.800	117GB105A106A4F	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,598:62:0
65	99	329	14:19:13.800	117GB105A106A4G	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,598:77:0
66	99	329	14:20:41.800	117GB105A106A4H	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,600:27:0
67	99	329	14:20:51.800	117GB105A106A4I	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,600:42:0
68	99	329	14:22:19.800	117GB105A106A4J	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,601:83:0
69	99	329	14:22:29.800	117GB105A106A4K	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,602:07:0
70	99	329	14:23:57.800	117GB105A106A4L	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,603:48:0
71	99	329	14:24:07.800	117GB105A106A4M	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,603:63:0
72	99	329	14:25:35.800	117GB105A106A4N	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,605:13:0
73	99	329	14:25:45.800	117GB105A106A4O	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,605:28:0
74	99	329	14:25:53.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 268.70 +/-	2O0	4	0	5,272,605:40:0
75	99	329	14:25:53.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,605:40:0
76	99	329	14:26:00.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 268.70 +/-	2O0	4	0	5,272,605:50:0
77	99	329	14:26:01.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 268.82 +/-	2O0	4	0	5,272,605:52:1
78	99	329	14:26:19.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 272.87 +/-	2O0	4	0	5,272,605:78:0
79	99	329	14:26:41.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 278.18 +/-	2O0	4	0	5,272,606:21:0
80	99	329	14:26:41.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,606:21:0
81	99	329	14:26:43.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 278.24 +/-	2O0	4	0	5,272,606:22:8
82	99	329	14:27:13.800	117GB105A106A4P	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,606:69:0
83	99	329	14:27:23.800	117GB105A106A4Q	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,606:84:0
84	99	329	14:28:51.800	117GB105A106A4R	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,608:34:0
85	99	329	14:29:01.800	117GB105A106A4S	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,608:49:0
86	99	329	14:30:29.800	117GB105A106A4T	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,609:90:0
87	99	329	14:30:39.800	117GB105A106A4U	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,610:14:0
88	99	329	14:32:07.800	117GB105A106A4V	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,611:55:0
89	99	329	14:32:17.800	117GB105A106A4W	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,611:70:0
90	99	329	14:33:45.800	117GB105A106A4X	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,613:20:0
91	99	329	14:33:55.800	117GB105A106A4Y	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,613:35:0
92	99	329	14:35:23.800	117GB105A106A4Z	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,614:76:0
93	99	329	14:35:33.800	117GB105A106A4AA	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,615:00:0
94	99	329	14:37:01.800	117GB105A106A4AB	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,616:41:0
95	99	329	14:37:11.800	117GB105A106A4AC	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,616:56:0
96	99	329	14:38:39.800	117GB105A106A4AD	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,618:06:0
97	99	329	14:38:49.800	117GB105A106A4AE	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,618:21:0
98	99	329	14:38:55.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 278.24 +/-	2O0	4	0	5,272,618:30:0
99	99	329	14:38:55.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,618:30:0
100	99	329	14:39:02.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 278.24 +/-	2O0	4	0	5,272,618:40:0
101	99	329	14:39:03.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 278.36 +/-	2O0	4	0	5,272,618:42:1
102	99	329	14:39:21.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 282.41 +/-	2O0	4	0	5,272,618:68:0
103	99	329	14:39:43.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 287.72 +/-	2O0	4	0	5,272,619:11:0
104	99	329	14:39:43.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,619:11:0
105	99	329	14:39:45.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 287.78 +/-	2O0	4	0	5,272,619:12:8
106	99	329	14:40:17.800	117GB105A106A4AF	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,619:62:0
107	99	329	14:40:27.800	117GB105A106A4AG	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,619:77:0
108	99	329	14:41:55.800	117GB105A106A4AH	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,621:27:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	99	329	14:42:05.800	117GB105A106A4AI	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,621:42:0	
110	99	329	14:43:33.800	117GB105A106A4AJ	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,622:83:0	
111	99	329	14:43:43.800	117GB105A106A4AK	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,623:07:0	
112	99	329	14:44:09.133	488AB6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	2O0	4	0	5,272,623:45:0	
113	99	329	14:45:11.800	117GB105A106A4AL	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,624:48:0	
114	99	329	14:45:21.800	117GB105A106A4AM	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,624:63:0	
115	99	329	14:46:49.800	117GB105A106A4AN	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,626:13:0	
116	99	329	14:46:59.800	117GB105A106A4AO	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,626:28:0	
117	99	329	14:48:27.800	117GB105A106A4AP	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,627:69:0	
118	99	329	14:48:37.800	117GB105A106A4AQ	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,627:84:0	
119	99	329	14:50:05.800	117GB105A106A4AR	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,629:34:0	
120	99	329	14:50:15.800	117GB105A106A4AS	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,629:49:0	
121	99	329	14:51:43.800	117GB105A106A4AT	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,630:90:0	
122	99	329	14:51:53.800	117GB105A106A4AU	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,631:14:0	
123	99	329	14:51:57.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 287.78 +/-	2O0	4	0	5,272,631:20:0	
124	99	329	14:51:57.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,631:20:0	
125	99	329	14:52:04.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 287.78 +/-	2O0	4	0	5,272,631:30:0	
126	99	329	14:52:05.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 287.90 +/-	2O0	4	0	5,272,631:32:1	
127	99	329	14:52:23.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 291.95 +/-	2O0	4	0	5,272,631:58:0	
128	99	329	14:52:45.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 297.26 +/-	2O0	4	0	5,272,632:01:0	
129	99	329	14:52:45.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,632:01:0	
130	99	329	14:52:47.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 297.32 +/-	2O0	4	0	5,272,632:02:8	
131	99	329	14:53:21.800	117GB105A106A4AV	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,632:55:0	
132	99	329	14:53:31.800	117GB105A106A4AW	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,632:70:0	
133	99	329	14:54:59.800	117GB105A106A4AX	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,634:20:0	
134	99	329	14:55:09.800	117GB105A106A4AY	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,634:35:0	
135	99	329	14:56:37.800	117GB105A106A4AZ	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,635:76:0	
136	99	329	14:56:47.800	117GB105A106A4BA	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,636:00:0	
137	99	329	14:58:15.800	165GB4C	7VECT		Inert vect update UTC	2O0	4	0	5,272,637:41:0	
138	99	329	14:58:15.800	117GB105A106A4BB	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,637:41:0	
139	99	329	14:58:25.800	117GB105A106A4BC	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,637:56:0	
140	99	329	14:59:53.800	117GB105A106A4BD	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,639:06:0	
141	99	329	14:59:59.800	481UA4A	7VECT		Inert vect update UTC	2O0	4	0	5,272,639:15:0	
142	99	329	15:00:03.800	117GB105A106A4BE	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,639:21:0	
143	99	329	15:01:31.800	117GB105A106A4BF	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,640:62:0	
144	99	329	15:01:41.800	117GB105A106A4BG	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,640:77:0	
145	99	329	15:03:09.800	117GB105A106A4BH	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,642:27:0	
146	99	329	15:03:19.800	117GB105A106A4BI	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,642:42:0	
147	99	329	15:04:47.800	117GB105A106A4BJ	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,643:83:0	
148	99	329	15:04:57.800	117GB105A106A4BK	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,644:07:0	
149	99	329	15:05:00.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 297.32 +/-	2O0	4	0	5,272,644:11:0	
150	99	329	15:05:00.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,644:11:0	
151	99	329	15:05:07.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 297.32 +/-	2O0	4	0	5,272,644:21:0	
152	99	329	15:05:08.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 297.44 +/-	2O0	4	0	5,272,644:23:1	
153	99	329	15:05:25.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 301.33 +/-	2O0	4	0	5,272,644:48:0	
154	99	329	15:05:47.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 306.64 +/-	2O0	4	0	5,272,644:82:0	
155	99	329	15:05:47.800	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,644:82:0	
156	99	329	15:05:49.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 306.70 +/-	2O0	4	0	5,272,644:83:8	
157	99	329	15:06:25.800	117GB105A106A4BL	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,645:48:0	
158	99	329	15:06:35.800	117GB105A106A4BM	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,645:63:0	
159	99	329	15:08:03.800	117GB105A106A4BN	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,647:13:0	
160	99	329	15:08:13.800	117GB105A106A4BO	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,647:28:0	
161	99	329	15:09:41.800	117GB105A106A4BP	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,648:69:0	
162	99	329	15:09:51.800	117GB105A106A4BQ	**7STRP**	**-0.050042,0.0,0,**	**Slew =,0.61**	2O0	4	0	5,272,648:84:0	
163	99	329	15:11:19.800	117GB105A106A4BR	**7STRP**	**0.050242,0.00106**	**Slew =12.01**	2O0	4	0	5,272,650:34:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	99	329	15:11:29.800	117GB105A106A4BS	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,650:49:0
165	99	329	15:12:57.800	117GB105A106A4BT	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,651:90:0
166	99	329	15:13:07.800	117GB105A106A4BU	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,652:14:0
167	99	329	15:14:35.800	117GB105A106A4BV	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,653:55:0
168	99	329	15:14:45.800	117GB105A106A4BW	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,653:70:0
169	99	329	15:16:13.800	117GB105A106A4BX	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,655:20:0
170	99	329	15:16:23.800	117GB105A106A4BY	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,655:35:0
171	99	329	15:17:51.800	117GB105A106A4BZ	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,656:76:0
172	99	329	15:18:01.800	117GB105A106A4CA	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,657:00:0
173	99	329	15:18:02.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,657:01:0
174	99	329	15:18:02.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 306.70 +/-	2O0	4	0	5,272,657:01:0
175	99	329	15:18:09.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 306.70 +/-	2O0	4	0	5,272,657:11:0
176	99	329	15:18:10.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 306.82 +/-	2O0	4	0	5,272,657:13:1
177	99	329	15:18:27.800		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 310.87 +/-	2O0	4	0	5,272,657:39:0
178	99	329	15:18:50.466		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 316.18 +/-	2O0	4	0	5,272,657:73:0
179	99	329	15:18:50.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,657:73:0
180	99	329	15:18:51.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 316.24 +/-	2O0	4	0	5,272,657:74:8
181	99	329	15:19:29.800	117GB105A106A4CB	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,658:41:0
182	99	329	15:19:39.800	117GB105A106A4CC	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,658:56:0
183	99	329	15:21:07.800	117GB105A106A4CD	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,660:06:0
184	99	329	15:21:17.800	117GB105A106A4CE	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,660:21:0
185	99	329	15:22:45.800	117GB105A106A4CF	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,661:62:0
186	99	329	15:22:55.800	117GB105A106A4CG	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,661:77:0
187	99	329	15:24:23.800	117GB105A106A4CH	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,663:27:0
188	99	329	15:24:33.800	117GB105A106A4CI	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,663:42:0
189	99	329	15:26:01.800	117GB105A106A4CJ	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,664:83:0
190	99	329	15:26:11.800	117GB105A106A4CK	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,665:07:0
191	99	329	15:27:39.800	117GB105A106A4CL	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,666:48:0
192	99	329	15:27:49.800	117GB105A106A4CM	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,666:63:0
193	99	329	15:29:17.800	117GB105A106A4CN	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,668:13:0
194	99	329	15:29:27.800	117GB105A106A4CO	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,668:28:0
195	99	329	15:30:55.800	117GB105A106A4CP	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,669:69:0
196	99	329	15:31:04.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,669:82:0
197	99	329	15:31:04.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 316.24 +/-	2O0	4	0	5,272,669:82:0
198	99	329	15:31:05.800	117GB105A106A4CQ	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,669:84:0
199	99	329	15:31:11.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 316.24 +/-	2O0	4	0	5,272,670:01:0
200	99	329	15:31:12.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 316.36 +/-	2O0	4	0	5,272,670:03:1
201	99	329	15:31:29.800		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC * 320.41 +/-	2O0	4	0	5,272,670:29:0
202	99	329	15:31:52.466		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC * 325.72 +/-	2O0	4	0	5,272,670:63:0
203	99	329	15:31:52.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,670:63:0
204	99	329	15:31:53.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 325.78 +/-	2O0	4	0	5,272,670:64:8
205	99	329	15:32:33.800	117GB105A106A4CR	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,671:34:0
206	99	329	15:32:43.800	117GB105A106A4CS	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,671:49:0
207	99	329	15:34:11.800	117GB105A106A4CT	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,672:90:0
208	99	329	15:34:21.800	117GB105A106A4CU	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,673:14:0
209	99	329	15:35:49.800	117GB105A106A4CV	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,674:55:0
210	99	329	15:35:59.800	117GB105A106A4CW	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,674:70:0
211	99	329	15:37:27.800	117GB105A106A4CX	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,676:20:0
212	99	329	15:37:37.800	117GB105A106A4CY	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,676:35:0
213	99	329	15:39:05.800	117GB105A106A4CZ	7STRP	0.050242,0.00106	Slew =12.01	2O0	4	0	5,272,677:76:0
214	99	329	15:39:15.800	117GB105A106A4DA	7STRP	-0.050042,0.0,0,	Slew =,0.61	2O0	4	0	5,272,678:00:0
215	99	329	15:40:43.800	117GB11A	CSMOS	GE	***** GROUP END CSMOS	2O0	4	0	5,272,679:41:0
216	99	329	15:42:47.800	176GB6B	6TMREC	NRC	NO RECORD Record Mode Change	2O0	4	0	5,272,681:45:0
217	99	329	15:42:49.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,681:48:0
218	99	329	15:42:49.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 325.78 +/-	2O0	4	0	5,272,681:48:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	329	15:42:56.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 325.78 +/-	2O0	4	0	5,272,681	58:0
220	99	329	15:42:57.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 325.90 +/-	2O0	4	0	5,272,681	60:1
221	99	329	15:42:59.800		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 326.35 +/-	2O0	4	0	5,272,681	63:0
222	99	329	15:43:17.800	165GI4A	**7SCAN**	**NORM,261.210999,**	Check S/P Position	2O0	4	0	5,272,681	90:0
223	99	329	15:43:20.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 331.20 +/-	2O0	4	0	5,272,682	03:0
224	99	329	15:43:20.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,682	03:0
225	99	329	15:43:21.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 331.26 +/-	2O0	4	0	5,272,682	04:8
226	99	329	15:46:20.466	176GI6A	6TMREC	**BPT**	7.68 KBPS PPR BURST TO TAPE Record Mode C	2O0	4	0	5,272,685	00:0
227	99	329	15:47:11.800	117GI	**CSMOS**	GS	***** GROUP START CSMOS	2O0	4	0	5,272,685	77:0
228	99	329	15:47:19.800	165GI4B	7VECT		Inert vect update UTC	2O0	4	0	5,272,685	89:0
229	99	329	15:47:21.133	117GI105A106A4A	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,686	00:0
230	99	329	15:49:11.133	117GI105A106A4B	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,687	74:0
231	99	329	15:49:19.133	117GI105A106A4C	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,687	86:0
232	99	329	15:51:09.133	117GI105A106A4D	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,689	69:0
233	99	329	15:51:17.133	117GI105A106A4E	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,689	81:0
234	99	329	15:53:07.133	117GI105A106A4F	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,691	64:0
235	99	329	15:53:15.133	117GI105A106A4G	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,691	76:0
236	99	329	15:55:05.133	117GI105A106A4H	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,693	59:0
237	99	329	15:55:13.133	117GI105A106A4I	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,693	71:0
238	99	329	15:57:03.133	117GI105A106A4J	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,695	54:0
239	99	329	15:57:11.133	117GI105A106A4K	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,695	66:0
240	99	329	15:59:01.133	117GI105A106A4L	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,697	49:0
241	99	329	15:59:09.133	117GI105A106A4M	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,697	61:0
242	99	329	16:00:59.133	117GI105A106A4N	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,699	44:0
243	99	329	16:01:03.800	20RC6B	6RTSL1		R/T Select of DDS and	2O0	4	0	5,272,699	51:0
244	99	329	16:01:07.133	117GI105A106A4O	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,699	56:0
245	99	329	16:02:57.133	117GI105A106A4P	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,701	39:0
246	99	329	16:03:05.133	117GI105A106A4Q	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,701	51:0
247	99	329	16:03:33.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,702	02:0
248	99	329	16:03:33.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 331.26 +/-	2O0	4	0	5,272,702	02:0
249	99	329	16:03:39.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 331.26 +/-	2O0	4	0	5,272,702	12:0
250	99	329	16:03:41.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 331.38 +/-	2O0	4	0	5,272,702	14:1
251	99	329	16:04:08.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 337.77 +/-	2O0	4	0	5,272,702	55:0
252	99	329	16:04:31.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,702	89:0
253	99	329	16:04:31.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 343.08 +/-	2O0	4	0	5,272,702	89:0
254	99	329	16:04:32.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 343.14 +/-	2O0	4	0	5,272,702	90:8
255	99	329	16:04:55.133	117GI105A106A4R	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,703	34:0
256	99	329	16:05:03.133	117GI105A106A4S	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,703	46:0
257	99	329	16:06:53.133	117GI105A106A4T	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,705	29:0
258	99	329	16:07:01.133	117GI105A106A4U	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,705	41:0
259	99	329	16:08:51.133	117GI105A106A4V	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,707	24:0
260	99	329	16:08:59.133	117GI105A106A4W	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,707	36:0
261	99	329	16:10:49.133	117GI105A106A4X	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,709	19:0
262	99	329	16:10:57.133	117GI105A106A4Y	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,709	31:0
263	99	329	16:12:47.133	117GI105A106A4Z	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,711	14:0
264	99	329	16:12:55.133	117GI105A106A4AA	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,711	26:0
265	99	329	16:14:45.133	117GI105A106A4AB	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,713	09:0
266	99	329	16:14:53.133	117GI105A106A4AC	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,713	21:0
267	99	329	16:16:43.133	117GI105A106A4AD	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,715	04:0
268	99	329	16:16:51.133	117GI105A106A4AE	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,715	16:0
269	99	329	16:18:41.133	117GI105A106A4AF	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,716	90:0
270	99	329	16:18:49.133	117GI105A106A4AG	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,717	11:0
271	99	329	16:20:39.133	117GI105A106A4AH	**7STRP**	**0.016101,-0.0036**	**Slew =12.01**	2O0	4	0	5,272,718	85:0
272	99	329	16:20:47.133	117GI105A106A4AI	**7STRP**	**-0.016802,0.0,0,**	**Slew =,0.16**	2O0	4	0	5,272,719	06:0
273	99	329	16:21:24.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,719	62:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	329	16:21:24.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 343.14 +/-	2O0	4	0	5,272,719:62:0	
275	99	329	16:21:31.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 343.14 +/-	2O0	4	0	5,272,719:72:0	
276	99	329	16:21:32.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 343.26 +/-	2O0	4	0	5,272,719:74:1	
277	99	329	16:21:59.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 349.50 +/-	2O0	4	0	5,272,720:23:0	
278	99	329	16:22:21.800	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,720:57:0	
279	99	329	16:22:21.800		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 354.81 +/-	2O0	4	0	5,272,720:57:0	
280	99	329	16:22:23.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 354.87 +/-	2O0	4	0	5,272,720:58:8	
281	99	329	16:22:37.133	117GI11A	**CSMOS**	GE	***** GROUP END CSMOS	2O0	4	0	5,272,720:80:0	
282	99	329	16:23:14.466	176GI6B	6TMREC	**NRC**	NO RECORD Record Mode Change	2O0	4	0	5,272,721:45:0	
283	99	329	16:23:16.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 354.87 +/-	2O0	4	0	5,272,721:48:0	
284	99	329	16:23:16.466	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2O0	4	0	5,272,721:48:0	
285	99	329	16:23:23.133		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 354.87 +/-	2O0	4	0	5,272,721:58:0	
286	99	329	16:23:24.533		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC * 354.99 +/-	2O0	4	0	5,272,721:60:1	
287	99	329	16:23:26.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC * 355.44 +/-	2O0	4	0	5,272,721:63:0	
288	99	329	16:23:36.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC * 357.79 +/-	2O0	4	0	5,272,721:78:0	
289	99	329	16:23:36.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	2O0	4	0	5,272,721:78:0	
290	99	329	16:23:37.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 357.85 +/-	2O0	4	0	5,272,721:79:8	
291	**99**	**329**	**16:23:59.800**	**20EA5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**260**	**4**	**0**	**5,272,722:22:0**	
292	**99**	**329**	**16:24:01.133**	**20EA5B**	**37MRL**		**Memory Realocate (software operates from R**	**260**	**4**	**0**	**5,272,722:24:0**	
293	**99**	**329**	**16:24:03.133**	**20EA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**260**	**4**	**0**	**5,272,722:27:0**	
294	**99**	**329**	**16:24:13.133**	**20EA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**260**	**4**	**0**	**5,272,722:42:0**	
295	**99**	**329**	**16:24:26.466**	**20EA5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,272,722:62:0**	
296	**99**	**329**	**16:24:29.800**	**20EA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,272,722:67:0**	
297	99	329	16:24:45.133	165JA4A	**7SCAN**	**NORM,24.015,-54.**	Check S/P Position	260	4	0	5,272,722:90:0	
298	**99**	**329**	**16:25:01.133**	**20EA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,272,723:23:0**	
299	99	329	16:26:06.466	488AB6B	6TMSED	FILL,EH4	Sci, Eng, and D/L Chan	2R0	4	0	5,272,724:30:0	
300	99	329	16:26:42.466	125EA	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,272,724:84:0	
301	**99**	**329**	**16:26:42.466**	**125EA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,272,724:84:0**	
302	99	329	16:27:43.133	125EA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,272,725:84:0	
303	**99**	**329**	**16:27:43.133**	**125EA4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,272,725:84:0**	
304	99	329	16:28:38.466	175JA422A6A	6DMSC	R806,1	DMS Control	4R0	4	0	5,272,726:76:0	
305	99	329	16:28:38.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 357.85 +/-	4R0	4	0	5,272,726:76:0	
306	99	329	16:28:40.466	118JA	**SMOS**	GS		4R0	4	0	5,272,726:79:0	
307	99	329	16:28:43.800	127EA	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	5,272,726:84:0	
308	**99**	**329**	**16:28:43.800**	**127EA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,272,726:84:0**	
309	**99**	**329**	**16:28:44.466**	**127EA4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,272,726:85:0**	
310	99	329	16:28:45.133		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 357.85 +/-	4R3	4	0	5,272,726:86:0	
311	99	329	16:28:47.133	165JA4B	7VECT		Inert vect update UTC	4R3	4	0	5,272,726:89:0	
312	99	329	16:28:49.800	175JA176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	5,272,727:02:0	
313	99	329	16:28:50.400		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC * 423.85 +/-	4R3	4	0	5,272,727:02:9	
314	99	329	16:28:50.400		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 423.85 +/-	4R3	4	0	5,272,727:02:9	
315	99	329	16:28:50.466	118JA110A111A4A	**7STRP**	**0.0,0.0069,26,0,**	**Slew =,2.01**	4R3	4	0	5,272,727:03:0	
316	99	329	16:28:52.466	127EA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,272,727:06:0	
317	99	329	16:29:07.800	118JA11A	**SMOS**	GE		4R3	4	0	5,272,727:29:0	
318	99	329	16:29:14.466	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,272,727:39:0	
319	99	329	16:29:14.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1016.11 +/-	4R3	4	0	5,272,727:39:0	
320	99	329	16:29:17.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1027.61 +/-	4R3	4	0	5,272,727:43:1	
321	**99**	**329**	**16:31:54.466**	**25NNNOPOLE01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
322	99	329	16:34:51.800	165EA4A	**7SCAN**	**NORM,52.064,-23.**	Check S/P Position	4R3	4	0	5,272,732:90:0	
323	**99**	**329**	**16:34:56.466**	**25NNNOPOLE01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**	
324	**99**	**329**	**16:34:56.466**	**25ENNOPOLE01-**		**-----START------**		**4R3**	**4**	**0**	**: :**	
325	99	329	16:38:41.800	175EA422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	5,272,736:71:0	
326	99	329	16:38:41.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1027.61 +/-	4R3	4	0	5,272,736:71:0	
327	99	329	16:38:45.800	117EA	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,272,736:77:0	
328	99	329	16:38:48.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 1027.61 +/-	4R3	4	0	5,272,736:81:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
329	99	329	16:38:51.800	175EA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	5,272,736:86:0
330	**99**	**329**	**16:38:52.466**	**25ENNOPOLE01-**	**NIMPBK**	**301EA**	**EUROPA NO POLE OBSERVATION**	**4R3**	**4**	**0**	**: :**
331	99	329	16:38:52.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 1029.11 +/-	4R3	4	0	5,272,736:87:0
332	99	329	16:38:52.466		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *1029.11 +/-	4R3	4	0	5,272,736:87:0
333	99	329	16:38:53.800	165EA4B	7VECT		Inert vect update UTC	4R3	4	0	5,272,736:89:0
334	99	329	16:38:55.133	117EA105A106A4A	**7STRP**	**-0.013001,0.0,0,**	**Slew =,0.02**	4R3	4	0	5,272,737:00:0
335	**99**	**329**	**16:44:24.466**	**25ENNOPOLE01-**	**NIMPBK**	**301EE**	**EUROPA NO POLE OBSERVATION**	**4R3**	**4**	**0**	**: :**
336	**99**	**329**	**16:44:33.133**	**25ENNOPOLE01-**	**DESELC**	**300EA**	**EUROPA NO POLE OBSERVATION**	**4R3**	**4**	**0**	**: :**
337	**99**	**329**	**16:49:51.800**	**25ENNOPOLE01-**	**DESELC**	**300EE**	**EUROPA NO POLE OBSERVATION**	**4R3**	**4**	**0**	**: :**
338	99	329	16:49:52.466	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,272,747:76:0
339	99	329	16:49:52.466		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *1609.19 +/-	4R3	4	0	5,272,747:76:0
340	99	329	16:49:53.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1609.49 +/-	4R3	4	0	5,272,747:77:8
341	99	329	16:49:59.133	117EA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,272,747:86:0
342	**99**	**329**	**16:50:06.466**	**25ENNOPOLE01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
343	99	329	16:50:59.800	480SC6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	4R3	4	0	5,272,748:86:0
344	99	329	16:52:19.800	480SC6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	4R3	4	0	5,272,750:24:0
345	99	329	16:55:05.133	165JB4A	**7SCAN**	**NORM,63.128,2.09**	Check S/P Position	4R3	4	0	5,272,752:90:0
346	99	329	16:58:58.466	175JB422A6A	6DMSC	R806,1	DMS Control	4R3	4	0	5,272,756:76:0
347	99	329	16:58:58.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1609.49 +/-	4R3	4	0	5,272,756:76:0
348	99	329	16:59:05.133		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 1609.49 +/-	4R3	4	0	5,272,756:86:0
349	99	329	16:59:07.133	165JB4B	7VECT		Inert vect update UTC	4R3	4	0	5,272,756:89:0
350	99	329	16:59:09.800	175JB176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	5,272,757:02:0
351	99	329	16:59:10.400		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1675.49 +/-	4R3	4	0	5,272,757:02:9
352	99	329	16:59:10.400		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 1675.49 +/-	4R3	4	0	5,272,757:02:9
353	99	329	16:59:17.133		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1841.19 +/-	4R3	4	0	5,272,757:13:0
354	99	329	16:59:17.133	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,272,757:13:0
355	99	329	16:59:19.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1852.69 +/- 1	4R3	4	0	5,272,757:17:1
356	99	329	17:00:08.466	165JC4A	**7SCAN**	**NORM,62.484,0.89**	Check S/P Position	4R3	4	0	5,272,757:90:0
357	99	329	17:00:59.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1852.69 +/- 1	4R3	4	0	5,272,758:76:0
358	99	329	17:00:59.800	175JC422A6A	6DMSC	R806,1	DMS Control	4R3	4	0	5,272,758:76:0
359	99	329	17:01:06.466		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 1852.69 +/- 1	4R3	4	0	5,272,758:86:0
360	99	329	17:01:08.466	165JC4B	7VECT		Inert vect update UTC	4R3	4	0	5,272,758:89:0
361	99	329	17:01:11.133	175JC176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	5,272,759:02:0
362	99	329	17:01:11.733		DMS:	**: *RECORD**	R806, TRACK 1, FWD, TIC *1918.69 +/- 1	4R3	4	0	5,272,759:02:9
363	99	329	17:01:11.733		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 1918.69 +/- 1	4R3	4	0	5,272,759:02:9
364	99	329	17:01:14.466	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,272,759:07:0
365	99	329	17:01:14.466		DMS:	**: *RUNDOWN**	R806, TRACK 1, FWD, TIC *1985.96 +/- 1	4R3	4	0	5,272,759:07:0
366	99	329	17:01:17.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *1997.46 +/- 1	4R3	4	0	5,272,759:11:1
367	**99**	**329**	**17:04:15.799**	**25NNSUBJUP01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
368	99	329	17:04:57.133	488AB6C	6TMSED	FILL,EH5	Sci, Eng, and D/L Chan	4R3	4	0	5,272,762:68:0
369	**99**	**329**	**17:07:17.799**	**25ENSUBJUP01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
370	**99**	**329**	**17:07:17.799**	**25NNSUBJUP01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
371	**99**	**329**	**17:09:22.466**	**20EB5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**4R3**	**4**	**0**	**5,272,767:11:0**
372	**99**	**329**	**17:09:25.800**	**20EB5B**	**37MRL**		**Memory Realocate (software operates from R**	**4R3**	**4**	**0**	**5,272,767:16:0**
373	**99**	**329**	**17:09:29.133**	**20EB6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**	**4R3**	**4**	**0**	**5,272,767:21:0**
374	**99**	**329**	**17:09:39.133**	**20EB6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**	**4R3**	**4**	**0**	**5,272,767:36:0**
375	**99**	**329**	**17:09:49.133**	**20EB5C**	**37IRT**		**Instrument Reset (goes into POR state)**	**260**	**4**	**0**	**5,272,767:51:0**
376	**99**	**329**	**17:09:52.466**	**20EB5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,272,767:56:0**
377	**99**	**329**	**17:10:08.466**	**20EB4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,272,767:80:0**
378	99	329	17:11:11.800	125EB	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,272,768:84:0
379	**99**	**329**	**17:11:11.800**	**125EB4A**	**37IST**	**0,2,0,OFF,0,1,2**	**Gain State 3**	**3R0**	**4**	**0**	**5,272,768:84:0**
380	99	329	17:11:15.800	165EB4A	**7SCAN**	**NORM,67.204,7.93**	Check S/P Position	3R0	4	0	5,272,768:90:0
381	99	329	17:11:35.800	488AB6D	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	3R0	4	0	5,272,769:29:0
382	99	329	17:12:12.466	125EB11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	5,272,769:84:0
383	**99**	**329**	**17:12:12.466**	**125EB4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**3R0**	**4**	**0**	**5,272,769:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	329	17:14:13.800	127EB4A	37IOP	3,0	Long Map, Grating Start Position =00	3R3	4	0	5,272,771:84:0	
385	99	329	17:14:13.800	127EB	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	5,272,771:84:0	
386	99	329	17:14:14.466	127EB4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	3R3	4	0	5,272,771:85:0	
387	99	329	17:14:22.466	127EB11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	5,272,772:06:0	
388	99	329	17:15:05.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 1997.46 +/- 1	3R3	4	0	5,272,772:71:0	
389	99	329	17:15:05.800	175EB422A6A	6DMSC	R28,1	DMS Control	3R3	4	0	5,272,772:71:0	
390	99	329	17:15:09.800	117EB	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,272,772:77:0	
391	99	329	17:15:12.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 1997.46 +/- 1	3R3	4	0	5,272,772:81:0	
392	99	329	17:15:15.800	175EB176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	5,272,772:86:0	
393	99	329	17:15:16.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 1998.96 +/- 1	3R3	4	0	5,272,772:87:0	
394	99	329	17:15:16.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *1998.96 +/- 1	3R3	4	0	5,272,772:87:0	
395	99	329	17:15:16.466	25ENSUBJUP01-	NIMPBK	301EB	EUROPA SUBJUP OBSERVATION	3R3	4	0	: :	
396	99	329	17:15:17.800	165EB4B	7VECT		Inert vect update UTC	3R3	4	0	5,272,772:89:0	
397	99	329	17:15:19.133	117EB105A106A4A	7STRP	0.0111,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,272,773:00:0	
398	99	329	17:16:43.133	25ENSUBJUP01-	NIMPBK	301EF	EUROPA SUBJUP OBSERVATION	3R3	4	0	: :	
399	99	329	17:16:51.800	25ENSUBJUP01-	DESELC	300EB	EUROPA SUBJUP OBSERVATION	3R3	4	0	: :	
400	99	329	17:18:25.800	25ENSUBJUP01-	DESELC	300EF	EUROPA SUBJUP OBSERVATION	3R3	4	0	: :	
401	99	329	17:18:26.466	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,776:08:0	
402	99	329	17:18:26.466		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *2165.95 +/- 1	3R3	4	0	5,272,776:08:0	
403	99	329	17:18:27.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2166.25 +/- 1	3R3	4	0	5,272,776:09:8	
404	99	329	17:18:29.133	117EB11A	CSMOS	GE	***** GROUP END CSMOS	3R3	4	0	5,272,776:12:0	
405	99	329	17:28:31.799	25ENSUBJUP01-		-----STOP-------		3R3	4	0	: :	
406	99	329	17:29:27.800	165GC4A	7SCAN	NORM,70.136,15.3	Check S/P Position	3R3	4	0	5,272,786:90:0	
407	99	329	17:32:30.466	176GC6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	5,272,790:00:0	
408	99	329	17:33:21.800	117GC	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,272,790:77:0	
409	99	329	17:33:29.800	165GC4B	7VECT		Inert vect update UTC	3R3	4	0	5,272,790:89:0	
410	99	329	17:33:31.133	117GC105A106A4A	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,791:00:0	
411	99	329	17:34:39.133	117GC105A106A4B	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,792:11:0	
412	99	329	17:34:49.800	117GC105A106A4C	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,792:27:0	
413	99	329	17:35:57.800	117GC105A106A4D	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,793:38:0	
414	99	329	17:36:08.466	117GC105A106A4E	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,793:54:0	
415	99	329	17:37:16.466	117GC105A106A4F	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,794:65:0	
416	99	329	17:37:27.133	117GC105A106A4G	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,794:81:0	
417	99	329	17:38:35.133	117GC105A106A4H	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,796:01:0	
418	99	329	17:38:45.800	117GC105A106A4I	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,796:17:0	
419	99	329	17:39:53.800	117GC105A106A4J	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,797:28:0	
420	99	329	17:40:04.466	117GC105A106A4K	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,797:44:0	
421	99	329	17:41:12.466	117GC105A106A4L	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,798:55:0	
422	99	329	17:41:23.133	117GC105A106A4M	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,798:71:0	
423	99	329	17:42:31.133	117GC105A106A4N	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,799:82:0	
424	99	329	17:42:41.800	117GC105A106A4O	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,800:07:0	
425	99	329	17:43:49.800	117GC105A106A4P	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,801:18:0	
426	99	329	17:44:00.466	117GC105A106A4Q	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,801:34:0	
427	99	329	17:45:05.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2166.25 +/- 1	3R3	4	0	5,272,802:40:0	
428	99	329	17:45:05.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,802:40:0	
429	99	329	17:45:08.466	117GC105A106A4R	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,802:45:0	
430	99	329	17:45:11.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2166.25 +/- 1	3R3	4	0	5,272,802:50:0	
431	99	329	17:45:13.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2166.37 +/- 1	3R3	4	0	5,272,802:52:1	
432	99	329	17:45:19.133	117GC105A106A4S	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,802:61:0	
433	99	329	17:45:30.466		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *2170.42 +/- 1	3R3	4	0	5,272,802:78:0	
434	99	329	17:45:53.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,803:21:0	
435	99	329	17:45:53.133		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *2175.73 +/- 1	3R3	4	0	5,272,803:21:0	
436	99	329	17:45:54.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2175.79 +/- 1	3R3	4	0	5,272,803:22:8	
437	99	329	17:46:27.133	117GC105A106A4T	7STRP	-0.038018,0.0011	Slew =0,9.0	3R3	4	0	5,272,803:72:0	
438	99	329	17:46:37.800	117GC105A106A4U	7STRP	0.038018,0.0,0,0	Slew =,0.61	3R3	4	0	5,272,803:88:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
439	99	329	17:47:45.800	117GC105A106A4V	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,805:08:0
440	99	329	17:47:56.466	117GC105A106A4W	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,805:24:0
441	99	329	17:49:04.466	117GC105A106A4X	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,806:35:0
442	99	329	17:49:15.133	117GC105A106A4Y	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,806:51:0
443	99	329	17:50:23.133	117GC105A106A4Z	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,807:62:0
444	99	329	17:50:33.800	117GC105A106A4AA	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,807:78:0
445	99	329	17:51:41.800	117GC105A106A4AB	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,808:89:0
446	99	329	17:51:52.466	117GC105A106A4AC	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,809:14:0
447	99	329	17:53:00.466	117GC105A106A4AD	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,810:25:0
448	99	329	17:53:11.133	117GC105A106A4AE	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,810:41:0
449	99	329	17:54:19.133	117GC105A106A4AF	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,811:52:0
450	99	329	17:54:29.800	117GC105A106A4AG	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,811:68:0
451	99	329	17:55:37.800	117GC105A106A4AH	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,812:79:0
452	99	329	17:55:48.466	117GC105A106A4AI	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,813:04:0
453	99	329	17:56:56.466	117GC105A106A4AJ	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,814:15:0
454	99	329	17:57:07.133	117GC105A106A4AK	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,814:31:0
455	99	329	17:58:07.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2175.79 +/- 1	3R3	4	0	5,272,815:30:0
456	99	329	17:58:07.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,815:30:0
457	99	329	17:58:13.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2175.79 +/- 1	3R3	4	0	5,272,815:40:0
458	99	329	17:58:15.133	117GC105A106A4AL	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,815:42:0
459	99	329	17:58:15.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2175.91 +/- 1	3R3	4	0	5,272,815:42:1
460	99	329	17:58:25.800	117GC105A106A4AM	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,815:58:0
461	99	329	17:58:32.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2179.96 +/- 1	3R3	4	0	5,272,815:68:0
462	99	329	17:58:55.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2185.27 +/- 1	3R3	4	0	5,272,816:11:0
463	99	329	17:58:55.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,816:11:0
464	99	329	17:58:56.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2185.33 +/- 1	3R3	4	0	5,272,816:12:8
465	99	329	17:59:33.800	117GC105A106A4AN	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,816:69:0
466	99	329	17:59:44.466	117GC105A106A4AO	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,816:85:0
467	99	329	18:00:52.466	117GC105A106A4AP	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,818:05:0
468	99	329	18:01:03.133	117GC105A106A4AQ	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,818:21:0
469	99	329	18:01:03.800	20RO6B	6RTSL1		R/T Select of DDS and	3R3	4	0	5,272,818:22:0
470	99	329	18:02:11.133	117GC105A106A4AR	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,819:32:0
471	99	329	18:02:21.800	117GC105A106A4AS	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,819:48:0
472	99	329	18:03:29.800	117GC105A106A4AT	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,820:59:0
473	99	329	18:03:40.466	117GC105A106A4AU	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,820:75:0
474	99	329	18:04:48.466	117GC105A106A4AV	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,821:86:0
475	99	329	18:04:59.133	117GC105A106A4AW	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,822:11:0
476	99	329	18:06:07.133	117GC105A106A4AX	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,823:22:0
477	99	329	18:06:17.800	117GC105A106A4AY	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,823:38:0
478	99	329	18:07:25.800	117GC105A106A4AZ	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,824:49:0
479	99	329	18:07:36.466	117GC105A106A4BA	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,824:65:0
480	99	329	18:08:44.466	117GC105A106A4BB	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,825:76:0
481	99	329	18:08:55.133	117GC105A106A4BC	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,826:01:0
482	99	329	18:10:03.133	117GC105A106A4BD	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,827:12:0
483	99	329	18:10:13.800	117GC105A106A4BE	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,827:28:0
484	99	329	18:11:09.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2185.33 +/- 1	3R3	4	0	5,272,828:20:0
485	99	329	18:11:09.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,828:20:0
486	99	329	18:11:15.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2185.33 +/- 1	3R3	4	0	5,272,828:30:0
487	99	329	18:11:17.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2185.45 +/- 1	3R3	4	0	5,272,828:32:1
488	99	329	18:11:21.800	117GC105A106A4BF	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,828:39:0
489	99	329	18:11:32.466	117GC105A106A4BG	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,828:55:0
490	99	329	18:11:34.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2189.50 +/- 1	3R3	4	0	5,272,828:58:0
491	99	329	18:11:57.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,829:01:0
492	99	329	18:11:57.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2194.81 +/- 1	3R3	4	0	5,272,829:01:0
493	99	329	18:11:58.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2194.87 +/- 1	3R3	4	0	5,272,829:02:8

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
494	99	329	18:12:40.466	117GC105A106A4BH	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,829:66:0
495	99	329	18:12:51.133	117GC105A106A4BI	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,829:82:0
496	99	329	18:13:59.133	117GC105A106A4BJ	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,831:02:0
497	99	329	18:14:09.800	117GC105A106A4BK	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,831:18:0
498	99	329	18:15:17.800	117GC105A106A4BL	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,832:29:0
499	99	329	18:15:28.466	117GC105A106A4BM	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,832:45:0
500	99	329	18:16:36.466	117GC105A106A4BN	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,833:56:0
501	99	329	18:16:47.133	117GC105A106A4BO	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,833:72:0
502	99	329	18:17:55.133	117GC105A106A4BP	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,834:83:0
503	99	329	18:18:05.800	117GC105A106A4BQ	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,835:08:0
504	99	329	18:19:13.800	117GC105A106A4BR	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,836:19:0
505	99	329	18:19:24.466	117GC105A106A4BS	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,836:35:0
506	99	329	18:20:32.466	117GC105A106A4BT	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,837:46:0
507	99	329	18:20:43.133	117GC105A106A4BU	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,837:62:0
508	99	329	18:21:51.133	117GC105A106A4BV	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,838:73:0
509	99	329	18:22:01.800	117GC105A106A4BW	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,838:89:0
510	99	329	18:23:09.800	117GC105A106A4BX	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,840:09:0
511	99	329	18:23:20.466	117GC105A106A4BY	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,840:25:0
512	99	329	18:24:11.800	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,841:11:0
513	99	329	18:24:11.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2194.87 +/- 1	3R3	4	0	5,272,841:11:0
514	99	329	18:24:18.466		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2194.87 +/- 1	3R3	4	0	5,272,841:21:0
515	99	329	18:24:19.866		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2194.99 +/- 1	3R3	4	0	5,272,841:23:1
516	99	329	18:24:28.466	117GC105A106A4BZ	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,841:36:0
517	99	329	18:24:36.466		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2198.88 +/- 1	3R3	4	0	5,272,841:48:0
518	99	329	18:24:39.133	117GC105A106A4CA	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,841:52:0
519	99	329	18:24:59.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,841:82:0
520	99	329	18:24:59.133		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2204.19 +/- 1	3R3	4	0	5,272,841:82:0
521	99	329	18:25:00.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2204.25 +/- 1	3R3	4	0	5,272,841:83:8
522	99	329	18:25:47.133	117GC105A106A4CB	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,842:63:0
523	99	329	18:25:57.800	117GC105A106A4CC	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,842:79:0
524	99	329	18:27:05.800	117GC105A106A4CD	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,843:90:0
525	99	329	18:27:16.466	117GC105A106A4CE	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,844:15:0
526	99	329	18:28:24.466	117GC105A106A4CF	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,845:26:0
527	99	329	18:28:35.133	117GC105A106A4CG	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,845:42:0
528	99	329	18:29:43.133	117GC105A106A4CH	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,846:53:0
529	99	329	18:29:53.800	117GC105A106A4CI	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,846:69:0
530	99	329	18:31:01.800	117GC105A106A4CJ	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,847:80:0
531	99	329	18:31:12.466	117GC105A106A4CK	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,848:05:0
532	99	329	18:32:20.466	117GC105A106A4CL	**7STRP**	**-0.038018,0.0011**	**Slew =0,9.0**	3R3	4	0	5,272,849:16:0
533	99	329	18:32:31.133	117GC105A106A4CM	**7STRP**	**0.038018,0.0,0,0**	**Slew =,0.61**	3R3	4	0	5,272,849:32:0
534	99	329	18:33:39.133	117GC11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	5,272,850:43:0
535	99	329	18:34:41.133	176GC6B	6TMREC	**NRC**	NO RECORD Record Mode Change	3R3	4	0	5,272,851:45:0
536	99	329	18:34:43.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2204.25 +/- 1	3R3	4	0	5,272,851:48:0
537	99	329	18:34:43.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,851:48:0
538	99	329	18:34:49.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 2204.25 +/- 1	3R3	4	0	5,272,851:58:0
539	99	329	18:34:51.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *2204.37 +/- 1	3R3	4	0	5,272,851:60:1
540	99	329	18:34:53.133		DMS:	**: *RECORD**	R7, TRACK 1, FWD, TIC *2204.82 +/- 1	3R3	4	0	5,272,851:63:0
541	99	329	18:35:12.466	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,852:01:0
542	99	329	18:35:12.466		DMS:	**: *RUNDOWN**	R7, TRACK 1, FWD, TIC *2209.36 +/- 1	3R3	4	0	5,272,852:01:0
543	99	329	18:35:13.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2209.42 +/- 1	3R3	4	0	5,272,852:02:8
544	99	329	18:42:15.800	165JD4A	**7SCAN**	**NORM,72.679999,2**	Check S/P Position	3R3	4	0	5,272,858:90:0
545	99	329	18:46:09.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2209.42 +/- 1	3R3	4	0	5,272,862:76:0
546	99	329	18:46:09.133	175JD422A6A	6DMSC	R806,1	DMS Control	3R3	4	0	5,272,862:76:0
547	99	329	18:46:11.133	118JD	**SMOS**	GS		3R3	4	0	5,272,862:79:0
548	99	329	18:46:15.800		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2209.42 +/- 1	3R3	4	0	5,272,862:86:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	329	18:46:17.800	165JD4B	7VECT		Inert vect update UTC	3R3	4	0	5,272,862:89:0	
550	99	329	18:46:20.466	175JD176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	5,272,863:02:0	
551	99	329	18:46:21.066		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2275.42 +/- 1	3R3	4	0	5,272,863:02:9	
552	99	329	18:46:21.066		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *2275.42 +/- 1	3R3	4	0	5,272,863:02:9	
553	99	329	18:46:21.133	118JD110A111A4A	7STRP	0.0,0.0073,26,0,	Slew =,2.01	3R3	4	0	5,272,863:03:0	
554	99	329	18:46:29.800	118JD110A111B4A	7STRP	0.00666,-0.01460	Slew =,6.01	3R3	4	0	5,272,863:16:0	
555	99	329	18:46:38.466	118JD110A111B4B	7STRP	0.0,0.0073,26,0,	Slew =,2.01	3R3	4	0	5,272,863:29:0	
556	99	329	18:47:04.466	118JD110A111C4A	7STRP	0.00666,-0.02190	Slew =,6.01	3R3	4	0	5,272,863:68:0	
557	99	329	18:47:13.133	118JD110A111C4B	7STRP	0.0,0.0073,26,0,	Slew =,2.01	3R3	4	0	5,272,863:81:0	
558	99	329	18:47:39.133	118JD110A111D4A	7STRP	0.00666,-0.01200	Slew =,6.01	3R3	4	0	5,272,864:29:0	
559	99	329	18:47:47.800	118JD110A111D4B	7STRP	0.0,0.0073,26,0,	Slew =,2.01	3R3	4	0	5,272,864:42:0	
560	99	329	18:47:56.466	118JD11A	SMOS	GE		3R3	4	0	5,272,864:55:0	
561	99	329	18:48:03.133		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *4787.21 +/- 1	3R3	4	0	5,272,864:65:0	
562	99	329	18:48:03.133	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,864:65:0	
563	99	329	18:48:05.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4798.71 +/- 1	3R3	4	0	5,272,864:69:1	
564	99	329	18:48:19.800	165GH4A	7SCAN	NORM,71.388,20.3	Check S/P Position	3R3	4	0	5,272,864:90:0	
565	99	329	18:48:20.466	176GH6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	3R3	4	0	5,272,865:00:0	
566	99	329	18:49:11.800	117GH	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,272,865:77:0	
567	99	329	18:49:21.133	117GH105A106A4A	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,866:00:0	
568	99	329	18:52:08.466	117GH105A106A4B	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,868:69:0	
569	99	329	18:52:17.133	117GH105A106A4C	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,868:82:0	
570	99	329	18:55:04.466	117GH105A106A4D	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,871:60:0	
571	99	329	18:55:13.133	117GH105A106A4E	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,871:73:0	
572	99	329	18:58:00.466	117GH105A106A4F	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,874:51:0	
573	99	329	18:58:09.133	117GH105A106A4G	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,874:64:0	
574	99	329	19:00:55.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4798.71 +/- 1	3R3	4	0	5,272,877:40:0	
575	99	329	19:00:55.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,877:40:0	
576	99	329	19:00:56.466	117GH105A106A4H	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,877:42:0	
577	99	329	19:01:01.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4798.71 +/- 1	3R3	4	0	5,272,877:50:0	
578	99	329	19:01:03.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4798.83 +/- 1	3R3	4	0	5,272,877:52:1	
579	99	329	19:01:05.133	117GH105A106A4I	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,877:55:0	
580	99	329	19:01:20.466		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *4802.88 +/- 1	3R3	4	0	5,272,877:78:0	
581	99	329	19:01:43.133	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,878:21:0	
582	99	329	19:01:43.133		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *4808.19 +/- 1	3R3	4	0	5,272,878:21:0	
583	99	329	19:01:44.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4808.25 +/- 1	3R3	4	0	5,272,878:22:8	
584	99	329	19:03:52.466	117GH105A106A4J	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,880:33:0	
585	99	329	19:04:01.133	117GH105A106A4K	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,880:46:0	
586	99	329	19:06:48.466	117GH105A106A4L	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,883:24:0	
587	99	329	19:06:57.133	117GH105A106A4M	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,883:37:0	
588	99	329	19:09:44.466	117GH105A106A4N	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,886:15:0	
589	99	329	19:09:53.133	117GH105A106A4O	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,886:28:0	
590	99	329	19:12:40.466	117GH105A106A4P	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,889:06:0	
591	99	329	19:12:49.133	117GH105A106A4Q	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,889:19:0	
592	99	329	19:13:57.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4808.25 +/- 1	3R3	4	0	5,272,890:30:0	
593	99	329	19:13:57.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,272,890:30:0	
594	99	329	19:14:03.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4808.25 +/- 1	3R3	4	0	5,272,890:40:0	
595	99	329	19:14:05.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4808.37 +/- 1	3R3	4	0	5,272,890:42:1	
596	99	329	19:14:22.466		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *4812.42 +/- 1	3R3	4	0	5,272,890:68:0	
597	99	329	19:14:45.133	50ZZ6RE	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,891:11:0	
598	99	329	19:14:45.133		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *4817.73 +/- 1	3R3	4	0	5,272,891:11:0	
599	99	329	19:14:46.333		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4817.79 +/- 1	3R3	4	0	5,272,891:12:8	
600	99	329	19:15:36.466	117GH105A106A4R	7STRP	0.024975,-0.0006	Slew =12.01	3R3	4	0	5,272,891:88:0	
601	99	329	19:15:45.133	117GH105A106A4S	7STRP	-0.026006,0.0,0,	Slew =,0.16	3R3	4	0	5,272,892:10:0	
602	**99**	**329**	**19:16:46.466**	**20EC5A**	**37PL**		**Program Load (halts microprocessor & unwri**	**3R3**	**4**	**0**	**5,272,893:11:0**	
603	**99**	**329**	**19:16:49.800**	**20EC5B**	**37MRL**		**Memory Realocate (software operates from R**	**3R3**	**4**	**0**	**5,272,893:16:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
604	99	329	19:16:53.133	20EC6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	3R3	4	0	5,272,893:21:0	
605	99	329	19:17:03.133	20EC6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	3R3	4	0	5,272,893:36:0	
606	99	329	19:17:13.133	20EC5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	5,272,893:51:0	
607	99	329	19:17:16.466	20EC5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,272,893:56:0	
608	99	329	19:17:32.466	20EC4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,272,893:80:0	
609	99	329	19:17:43.799	25NNEQUATR01-		-----START------		2R0	4	0	: :	
610	99	329	19:18:32.466	117GH105A106B4A	7STRP	-0.001,0.0,0,0,0	Slew =12.01	2R0	4	0	5,272,894:79:0	
611	99	329	19:18:35.800	125EC4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R0	4	0	5,272,894:84:0	
612	99	329	19:18:35.800	125EC	NIMSINIT	GS	##### GROUP START INIT	3R0	4	0	5,272,894:84:0	
613	99	329	19:18:42.466	117GH105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.16	3R0	4	0	5,272,895:03:0	
614	99	329	19:19:36.466	125EC11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	5,272,895:84:0	
615	99	329	19:19:36.466	125EC4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	3R0	4	0	5,272,895:84:0	
616	99	329	19:19:39.800	117GH11A	CSMOS	GE	***** GROUP END CSMOS	3R0	4	0	5,272,895:89:0	
617	99	329	19:20:11.133	176GH6B	6TMREC	NRC	NO RECORD Record Mode Change	3R0	4	0	5,272,896:45:0	
618	99	329	19:20:13.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R0	4	0	5,272,896:48:0	
619	99	329	19:20:13.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4817.79 +/- 1	3R0	4	0	5,272,896:48:0	
620	99	329	19:20:19.800		DMS:	: *RUNUP	R7, TRACK 1, FWD, TIC 4817.79 +/- 1	3R0	4	0	5,272,896:58:0	
621	99	329	19:20:21.200		DMS:	: *AT_SPD	R7, TRACK 1, FWD, TIC *4817.91 +/- 1	3R0	4	0	5,272,896:60:1	
622	99	329	19:20:23.133		DMS:	: *RECORD	R7, TRACK 1, FWD, TIC *4818.36 +/- 1	3R0	4	0	5,272,896:63:0	
623	99	329	19:20:38.466		DMS:	: *RUNDOWN	R7, TRACK 1, FWD, TIC *4821.96 +/- 1	3R0	4	0	5,272,896:86:0	
624	99	329	19:20:38.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	3R0	4	0	5,272,896:86:0	
625	99	329	19:20:39.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4822.02 +/- 1	3R0	4	0	5,272,896:87:8	
626	99	329	19:20:41.133	165EC4A	7SCAN	NORM,73.441,21.1	Check S/P Position	3R0	4	0	5,272,896:90:0	
627	99	329	19:20:45.799	25ENEQUATR01-		-----START------		3R0	4	0	: :	
628	99	329	19:20:45.799	25NNEQUATR01-		-----STOP-------		3R0	4	0	: :	
629	99	329	19:21:37.800	127EC4A	37IOP	3,0	Long Map, Grating Start Position =00	3R3	4	0	5,272,897:84:0	
630	99	329	19:21:37.800	127EC	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	5,272,897:84:0	
631	99	329	19:21:38.466	127EC4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	3R3	4	0	5,272,897:85:0	
632	99	329	19:21:46.466	127EC11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	5,272,898:06:0	
633	99	329	19:24:35.133	117EC	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,272,900:77:0	
634	99	329	19:24:44.466	117EC105A106A4A	7STRP	0.016802,-0.0058	Slew =,0.02	3R3	4	0	5,272,901:00:0	
635	99	329	19:25:31.800	175EC422A6A	6DMSC	R28,1	DMS Control	3R3	4	0	5,272,901:71:0	
636	99	329	19:25:31.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4822.02 +/- 1	3R3	4	0	5,272,901:71:0	
637	99	329	19:25:38.466		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 4822.02 +/- 1	3R3	4	0	5,272,901:81:0	
638	99	329	19:25:41.800	175EC176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	5,272,901:86:0	
639	99	329	19:25:42.466		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 4823.52 +/- 2	3R3	4	0	5,272,901:87:0	
640	99	329	19:25:42.466		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *4823.52 +/- 1	3R3	4	0	5,272,901:87:0	
641	99	329	19:25:42.466	25ENEQUATR01-	NIMPBK	301EC	EUROPA EQUATR OBSERVATION	3R3	4	0	: :	
642	99	329	19:32:10.466	25ENEQUATR01-	NIMPBK	301EG	EUROPA EQUATR OBSERVATION	3R3	4	0	: :	
643	99	329	19:32:19.133	25ENEQUATR01-	DESELC	300EC	EUROPA EQUATR OBSERVATION	3R3	4	0	: :	
644	99	329	19:35:47.133	125FC	NIMSINIT	GS	##### GROUP START INIT	3R3	4	0	5,272,911:84:0	
645	99	329	19:35:47.133	125FC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	5,272,911:84:0	
646	99	329	19:36:47.800	125FC4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R3	4	0	5,272,912:84:0	
647	99	329	19:36:47.800	125FC11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,272,912:84:0	
648	99	329	19:38:51.800	25ENEQUATR01-	DESELC	300EG	EUROPA EQUATR OBSERVATION	4R3	4	0	: :	
649	99	329	19:38:52.466		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *5517.85 +/- 2	4R3	4	0	5,272,914:89:0	
650	99	329	19:38:52.466	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,272,914:89:0	
651	99	329	19:38:53.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5518.15 +/- 2	4R3	4	0	5,272,914:90:8	
652	99	329	19:38:53.800	117EC11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	5,272,915:00:0	
653	99	329	19:38:57.799	25ENEQUATR01-		-----STOP-------		4R3	4	0	: :	
654	99	329	19:38:57.799	25NNGLOBAL01-		-----START------		4R3	4	0	: :	
655	99	329	19:39:58.466	25ENGLOBAL01-		-----START------		4R3	4	0	: :	
656	99	329	19:39:58.466	25NNGLOBAL01-		-----STOP-------		4R3	4	0	: :	
657	99	329	19:40:01.800	20ED5A	37PL		Program Load (halts microprocessor & unwri	4R3	4	0	5,272,916:11:0	
658	99	329	19:40:05.133	20ED5B	37MRL		Memory Realocate (software operates from R	4R3	4	0	5,272,916:16:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	99	329	19:40:08.466	20ED6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	4R3	4	0	5,272,916:21:0
660	99	329	19:40:18.466	20ED6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	4R3	4	0	5,272,916:36:0
661	99	329	19:40:28.466	20ED5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	5,272,916:51:0
662	99	329	19:40:31.800	20ED5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,272,916:56:0
663	99	329	19:40:47.800	20ED4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,272,916:80:0
664	99	329	19:40:54.466	165ED4A	7SCAN	NORM,73.110999,2	Check S/P Position	2R0	4	0	5,272,916:90:0
665	99	329	19:41:51.133	125ED	NIMSINIT	GS	##### GROUP START INIT	2R0	4	0	5,272,917:84:0
666	99	329	19:41:51.133	125ED4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R0	4	0	5,272,917:84:0
667	99	329	19:42:51.800	125ED11A	NIMSINIT	GE	##### GROUP END INIT	3R0	4	0	5,272,918:84:0
668	99	329	19:42:51.800	125ED4B	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	3R0	4	0	5,272,918:84:0
669	99	329	19:43:52.466	127ED4A	37IOP	3,0	Long Map, Grating Start Position =00	3R3	4	0	5,272,919:84:0
670	99	329	19:43:52.466	127ED	NIMSTAB	GS	%%%%% GROUP START TAB	3R3	4	0	5,272,919:84:0
671	99	329	19:43:53.133	127ED4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	3R3	4	0	5,272,919:85:0
672	99	329	19:44:01.133	127ED11A	NIMSTAB	GE	%%%%% GROUP END TAB	3R3	4	0	5,272,920:06:0
673	99	329	19:44:44.466		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5518.15 +/- 2	3R3	4	0	5,272,920:71:0
674	99	329	19:44:44.466	175ED422A6A	6DMSC	R28,1	DMS Control	3R3	4	0	5,272,920:71:0
675	99	329	19:44:48.466	117ED	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,272,920:77:0
676	99	329	19:44:51.133		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 5518.15 +/- 2	3R3	4	0	5,272,920:81:0
677	99	329	19:44:54.466	175ED176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	5,272,920:86:0
678	99	329	19:44:55.133	25ENGLOBAL01-	NIMPBK	301ED	EUROPA GLOBAL OBSERVATION	3R3	4	0	: :
679	99	329	19:44:55.133		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *5519.65 +/- 2	3R3	4	0	5,272,920:87:0
680	99	329	19:44:55.133		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 5519.65 +/- 2	3R3	4	0	5,272,920:87:0
681	99	329	19:44:57.800	117ED105A106A4A	7STRP	0.0057,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,272,921:00:0
682	99	329	19:46:36.466	117ED105A106A4B	7STRP	-0.0057,0.0075,0	Slew =12.01	3R3	4	0	5,272,922:57:0
683	99	329	19:46:47.133	117ED105A106A4C	7STRP	0.0057,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,272,922:73:0
684	99	329	19:46:55.133	25ENGLOBAL01-	DESELC	300ED	EUROPA GLOBAL OBSERVATION	3R3	4	0	: :
685	99	329	19:48:25.800	117ED105A106A4D	7STRP	-0.0057,0.0075,0	Slew =12.01	3R3	4	0	5,272,924:39:0
686	99	329	19:48:36.466	117ED105A106A4E	7STRP	0.0057,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,272,924:55:0
687	99	329	19:50:15.133	117ED11A	CSMOS	GE	***** GROUP END CSMOS	3R3	4	0	5,272,926:21:0
688	99	329	19:53:18.466	175ED422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,272,929:23:0
689	99	329	19:53:18.466		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *5962.04 +/- 2	3R3	4	0	5,272,929:23:0
690	99	329	19:53:19.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5962.34 +/- 2	3R3	4	0	5,272,929:24:8
691	99	329	20:01:03.800	20RD6B	6RTSL1		R/T Select of DDS and	3R3	4	0	5,272,936:84:0
692	99	329	20:24:27.799	25ENGLOBAL01-		-----STOP-------		3R3	4	0	: :
693	99	329	20:30:27.800	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	3R3	4	0	5,272,966:00:0
694	99	329	20:30:27.800		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5962.34 +/- 2	3R3	4	0	5,272,966:00:0
695	99	329	20:36:59.800	480SF6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	3R3	4	0	5,272,972:42:0
696	99	329	20:38:19.800	480SF6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	3R3	4	0	5,272,973:71:0
697	99	329	21:06:23.133	175MA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R3	4	0	5,273,001:48:0
698	99	329	21:06:23.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5962.34 +/- 2	3R3	4	0	5,273,001:48:0
699	99	329	21:06:24.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5962.46 +/- 2	3R3	4	0	5,273,001:50:1
700	99	329	21:06:29.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5963.69 +/- 2	3R3	4	0	5,273,001:58:0
701	99	329	21:06:31.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5963.75 +/- 2	3R3	4	0	5,273,001:59:8
702	99	329	21:06:31.800	175MA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	3R3	4	0	5,273,001:61:0
703	99	329	21:06:32.400		DMS:	: *RECORD	R7, TRACK 2, REV, TIC *5963.63 +/- 2	3R3	4	0	5,273,001:61:9
704	99	329	21:06:32.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC 5963.63 +/- 2	3R3	4	0	5,273,001:61:9
705	99	329	21:06:49.133	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl	3R3	4	0	5,273,001:87:0
706	99	329	21:06:51.800	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	3R3	4	0	5,273,002:00:0
707	99	329	22:01:03.800	20RP6B	6RTSL1		R/T Select of DDS and	3R3	4	0	5,273,055:55:0
708	99	329	22:44:09.133	488AC6A	6TMSED	NORM,EH4	Sci, Eng, and D/L Chan	3R3	4	0	5,273,098:20:0
709	99	329	22:47:57.800	165GD4A	7SCAN	NORM,233.434999,	Check S/P Position	3R3	4	0	5,273,101:90:0
710	99	329	22:53:53.133	117GD	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,273,107:77:0
711	99	329	22:54:02.466	117GD105A106A4A	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,108:00:0
712	99	329	22:57:50.466	117GD105A106A4B	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,111:69:0
713	99	329	22:57:59.800	117GD105A106A4C	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,111:83:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	329	23:01:47.800	117GD105A106A4D	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,115:61:0	
715	99	329	23:01:57.133	117GD105A106A4E	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,115:75:0	
716	99	329	23:05:45.133	117GD105A106A4F	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,119:53:0	
717	99	329	23:05:54.466	117GD105A106A4G	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,119:67:0	
718	99	329	23:09:42.466	117GD105A106A4H	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,123:45:0	
719	99	329	23:09:51.800	117GD105A106A4I	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,123:59:0	
720	99	329	23:13:39.800	117GD105A106A4J	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,127:37:0	
721	99	329	23:13:49.133	117GD105A106A4K	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,127:51:0	
722	99	329	23:17:37.133	117GD105A106A4L	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,131:29:0	
723	99	329	23:17:46.466	117GD105A106A4M	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,131:43:0	
724	99	329	23:21:34.466	117GD105A106A4N	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,135:21:0	
725	99	329	23:21:43.800	117GD105A106A4O	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,135:35:0	
726	99	329	23:25:31.800	117GD105A106A4P	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,139:13:0	
727	99	329	23:25:41.133	117GD105A106A4Q	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,139:27:0	
728	99	329	23:29:29.133	117GD105A106A4R	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,143:05:0	
729	99	329	23:29:38.466	117GD105A106A4S	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,143:19:0	
730	99	329	23:33:26.466	117GD105A106A4T	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,146:88:0	
731	99	329	23:33:35.800	117GD105A106A4U	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,147:11:0	
732	99	329	23:37:23.800	117GD105A106A4V	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,150:80:0	
733	99	329	23:37:33.133	117GD105A106A4W	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,151:03:0	
734	99	329	23:41:21.133	117GD105A106A4X	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,154:72:0	
735	99	329	23:41:30.466	117GD105A106A4Y	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,154:86:0	
736	99	329	23:41:45.133	488AC6B	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	3R3	4	0	5,273,155:17:0	
737	99	329	23:45:18.466	117GD105A106A4Z	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,158:64:0	
738	99	329	23:45:27.800	117GD105A106A4AA	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,158:78:0	
739	99	329	23:49:15.800	117GD105A106A4AB	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,162:56:0	
740	99	329	23:49:25.133	117GD105A106A4AC	7STRP	-0.035515,0.0,0,	Slew =,0.16	3R3	4	0	5,273,162:70:0	
741	99	329	23:52:55.800	20FA5A	37PL		Program Load (halts microprocessor & unwri	3R3	4	0	5,273,166:22:0	
742	99	329	23:52:57.133	20FA5B	37MRL		Memory Realocate (software operates from R	3R3	4	0	5,273,166:24:0	
743	99	329	23:53:02.466	20FA6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7	3R3	4	0	5,273,166:32:0	
744	99	329	23:53:12.466	20FA6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D	3R3	4	0	5,273,166:47:0	
745	99	329	23:53:13.133	117GD105A106A4AD	7STRP	0.036116,-0.0007	Slew =12.01	3R3	4	0	5,273,166:48:0	
746	99	329	23:53:15.800	20FA5C	37IRT		Instrument Reset (goes into POR state)	260	4	0	5,273,166:52:0	
747	99	329	23:53:22.466	117GD105A106A4AE	7STRP	-0.035515,0.0,0,	Slew =,0.16	260	4	0	5,273,166:62:0	
748	99	329	23:53:22.466	20FA5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,273,166:62:0	
749	99	329	23:53:29.800	20FA4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,273,166:73:0	
750	99	329	23:54:30.466	20FA4B	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	5,273,167:73:0	
751	99	329	23:55:31.133	20FA4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	5,273,168:73:0	
752	99	329	23:56:31.800	20FA4D	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,273,169:73:0	
753	99	329	23:56:32.466	20FA4E	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,273,169:74:0	
754	99	329	23:57:10.466	117GD105A106A4AF	7STRP	0.036116,-0.0007	Slew =12.01	2R3	4	0	5,273,170:40:0	
755	99	329	23:57:19.800	117GD105A106A4AG	7STRP	-0.035515,0.0,0,	Slew =,0.16	2R3	4	0	5,273,170:54:0	
756	99	329	23:59:49.800	20FF6A	6MCOPY	B1A1A,6800,NIMS,	B1A1A,6800,NIMS,150F,1517	2R3	4	0	5,273,173:06:0	
757	99	329	23:59:58.466	20FF6B	6MCOPY	B1A1A,6809,NIMS,	B1A1A,6809,NIMS,150F,1517	2R3	4	0	5,273,173:19:0	
758	99	330	00:00:51.133	20FF6C	6MCOPY	B1A1A,6812,NIMS,	B1A1A,6812,NIMS,150F,1517	2R3	4	0	5,273,174:07:0	
759	99	330	00:00:59.800	20FF6D	6MCOPY	B1A1A,681B,NIMS,	B1A1A,681B,NIMS,150F,1517	2R3	4	0	5,273,174:20:0	
760	99	330	00:01:03.800	20RE6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,273,174:26:0	
761	99	330	00:01:07.800	117GD105A106A4AH	7STRP	0.036116,-0.0007	Slew =12.01	2R3	4	0	5,273,174:32:0	
762	99	330	00:01:17.133	117GD105A106A4AI	7STRP	-0.035515,0.0,0,	Slew =,0.16	2R3	4	0	5,273,174:46:0	
763	99	330	00:01:52.466	20FF6E	6MCOPY	B1A1A,6824,NIMS,	B1A1A,6824,NIMS,150F,1517	2R3	4	0	5,273,175:08:0	
764												
765						SPACECRAFT	SAFING					

Sequence: I25AQB   Created: 11/25/99   Begin: 99-330/04:11:00   Finish: 99-331/01:15:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	99	330	04:10:59.733		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-				5,273,421:43:0
2	99	330	04:11:00.000	20A3EY	37C1PR	Initial Condition	Optics Heater 1 OFF (primary relay)				5,273,421:43:4
3	99	330	04:11:00.000	20A3FA	37F1PR	Initial Condition	Radiator Flash Heater OFF (primary relay)				5,273,421:43:4
4	99	330	04:11:00.000	20A3EW	37AR	Initial Condition	NIMS Power OFF				5,273,421:43:4
5	99	330	04:11:00.000	20A3EX	37HR	Initial Condition	Replacement Heaters OFF				5,273,421:43:4
6	99	330	04:11:00.000	20A3EZ	37C2PR	Initial Condition	Optics Heater 2 OFF (primary relay)				5,273,421:43:4
7	99	330	04:11:00.000	20A3FF	40T2R	Initial Condition	PCT Heater 2 OFF				5,273,421:43:4
8	99	330	04:11:00.000	20A3FE	40T1PR	Initial Condition	PCT Heater 1 OFF (primary relay)				5,273,421:43:4
9	99	330	04:11:00.000	20A3FD	40HRPR	Initial Condition	RCT Heater OFF (primary relay)				5,273,421:43:4
10	99	330	04:11:00.000	20A3FB	37F2PR	Initial Condition	Shield Flash Heater OFF (primary relay)				5,273,421:43:4
11	99	330	04:12:36.399	25INPRMETH01-		-----STOP-------					: :
12	99	330	04:13:30.400	20OA6A	6HICON						5,273,423:87:0
13	99	330	04:13:37.066	25INSOPOLE02-		-----START------					: :
14	99	330	04:15:33.066	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT				5,273,425:89:0
15	99	330	04:15:33.733	432JA431A6A	6RCDSL	DDSDSL,PLSDSL,EP	Record Deselect (DDS o				5,273,425:90:0
16	99	330	04:15:34.400	432JA6C	6RTSL1		R/T Select of DDS and				5,273,426:00:0
17	99	330	04:15:34.400	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT				5,273,426:00:0
18	99	330	04:15:38.399	25INSOPOLE02-		-----STOP-------					: :
19	99	330	04:16:39.066	25INEMAKNG01-		-----START------					: :
20	99	330	04:17:39.733	25INEMAKNG01-		-----STOP-------					: :
21	99	330	04:19:41.066	25INITUPAN01-		-----START------					: :
22	99	330	04:20:41.733	25INITUPAN01-		-----STOP-------					: :
23	99	330	04:21:42.399	25INSAPPNG02-		-----START------					: :
24	99	330	04:22:43.066	25INSAPPNG02-		-----STOP-------					: :
25	99	330	04:22:43.066	25NNITUPAN02-		-----START------					: :
26	99	330	04:23:43.733	25INITUPAN02-		-----START------					: :
27	99	330	04:23:43.733	25NNITUPAN02-		-----STOP-------					: :
28	99	330	04:31:19.066	20ZS6A	6CKSUM	MAG,4040,46F0					5,273,441:52:0
29	99	330	04:31:59.066	20ZS6B	6MROH	12	read from LLM1A12,2282,0,A1				5,273,442:21:0
30	99	330	04:31:59.066	20ZS6B	6MROH	12,2282,0,A10	read from LLM1A12,2282,0,A1				5,273,442:21:0
31	99	330	04:32:09.733	20ZU3Q	37HR	1	Replacement Heaters OFF				5,273,442:37:0
32	99	330	04:32:11.733	20ZU3S	37HR	2	Replacement Heaters OFF				5,273,442:40:0
33	99	330	04:32:37.733	20ZU3R	37A	1	NIMS Power ON Phase 0	260	4	0	5,273,442:79:0
34	99	330	04:32:39.733	20ZU3T	37A	2	NIMS Power ON Phase 0	260	4	0	5,273,442:82:0
35	99	330	04:34:39.066	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,273,444:79:0
36	99	330	04:34:51.066	25INITUPAN02-		-----STOP-------		2R0	4	0	: :
37	99	330	04:36:50.400	432OB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R0	4	0	5,273,447:03:0
38	99	330	04:36:51.066	432OB6A	6RTSL1		R/T Select of DDS and	2R0	4	0	5,273,447:04:0
39	99	330	04:37:33.733	20RM6B	6RTSL1		R/T Select of DDS and	2R0	4	0	5,273,447:68:0
40	99	330	04:37:48.400	165IH4A	7SCAN	NORM,54.522,25.1	Check S/P Position	2R0	4	0	5,273,447:90:0
41	99	330	04:37:49.066		DMS:	: READY	RDY, TRACK *4, *REV, TIC 202.12 +/-	2R0	4	0	5,273,448:00:0
42	99	330	04:37:49.066	465KE6A	6DMSC	RDY,4	DMS Control Tape stop	2R0	4	0	5,273,448:00:0
43	99	330	04:37:59.733	41SX99A	POWER	PWR MODE change	Change to Data Taking Mode	2R0	4	0	5,273,448:16:0
44	99	330	04:38:03.733	41SX3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	2R0	4	0	5,273,448:22:0
45	99	330	04:38:13.733	41SX3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	2R0	4	0	5,273,448:37:0
46	99	330	04:38:23.733	41SX3C	40T2R	1	PCT Heater 2 OFF	2R0	4	0	5,273,448:52:0
47	99	330	04:38:33.733	41SX3D	40T2R	2	PCT Heater 2 OFF	2R0	4	0	5,273,448:67:0
48	99	330	04:39:39.066	175II422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	5,273,449:74:0
49	99	330	04:39:39.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 202.12 +/-	2R0	4	0	5,273,449:74:0
50	99	330	04:39:40.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 202.24 +/-	2R0	4	0	5,273,449:76:1
51	99	330	04:39:45.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 203.48 +/-	2R0	4	0	5,273,449:84:0
52	99	330	04:39:46.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC * 203.54 +/-	2R0	4	0	5,273,449:85:8
53	99	330	04:39:49.066	165IH4B	7VECT		Inert vect update UTC	2R0	4	0	5,273,449:89:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	330	04:39:51.733	175II176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	5,273,450:02:0	
55	99	330	04:39:52.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 137.54 +/-	2R0	4	0	5,273,450:02:7	
56	99	330	04:39:52.200		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC * 137.54 +/-	2R0	4	0	5,273,450:02:7	
57	99	330	04:39:57.733		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC * 1.37 +/-	2R0	4	0	5,273,450:11:0	
58	99	330	04:39:57.733	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,273,450:11:0	
59	99	330	04:40:00.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC * -10.13 +/-	2R0	4	0	5,273,450:15:1	
60	99	330	04:41:05.733	175IJ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	5,273,451:22:0	
61	99	330	04:41:08.400	116IH4A	7STRP	0.0065,0.0,0,0,0	Slew =0,5.0	2R0	4	0	5,273,451:26:0	
62	99	330	04:41:18.400	175IJ176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R0	4	0	5,273,451:41:0	
63	99	330	04:41:24.400	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,273,451:50:0	
64	99	330	04:42:31.733	175DJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	5,273,452:60:0	
65	99	330	04:42:43.066	175DJ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R0	4	0	5,273,452:77:0	
66	99	330	04:43:35.733	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,273,453:65:0	
67	**99**	**330**	**04:43:57.066**	**25INEMAKNG02-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
68	99	330	04:44:53.066	165IJ4A	**7SCAN**	**NORM,54.127,29.0**	Check S/P Position	2R0	4	0	5,273,454:90:0	
69	**99**	**330**	**04:44:57.733**	**25INEMAKNG02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**	
70	**99**	**330**	**04:46:18.400**	**20DK5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,273,456:36:0**	
71	**99**	**330**	**04:46:21.733**	**20DK5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,273,456:41:0**	
72	**99**	**330**	**04:46:25.066**	**20DK6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,273,456:46:0**	
73	**99**	**330**	**04:46:35.066**	**20DK6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,273,456:61:0**	
74	99	330	04:46:43.733	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb		4	0	5,273,456:74:0	
75	**99**	**330**	**04:46:45.066**	**20DK5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,273,456:76:0**	
76	99	330	04:46:47.066	118IJ	**SMOS**	GS			4	0	5,273,456:79:0	
77	**99**	**330**	**04:46:48.400**	**20DK5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,273,456:81:0**	
78	99	330	04:46:53.733	165IJ4B	7VECT		Inert vect update UTC	260	4	0	5,273,456:89:0	
79	99	330	04:46:56.400	175IL176A6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	260	4	0	5,273,457:02:0	
80	99	330	04:46:57.066	118IJ110A111A4A	7STRP	0.0065,0.0,26,0,	Slew =,2.01	260	4	0	5,273,457:03:0	
81	**99**	**330**	**04:46:59.066**	**25NNGIANTS01-**		**-----START------**		**260**	**4**	**0**	**: :**	
82	99	330	04:47:05.733	118IJ11A	**SMOS**	GE		260	4	0	5,273,457:16:0	
83	99	330	04:47:12.400	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	5,273,457:26:0	
84	**99**	**330**	**04:47:15.733**	**20DK4A**	**37IST**	**1,2,0,OFF,0,1,2**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**3R0**	**4**	**0**	**5,273,457:31:0**	
85	99	330	04:47:46.400	117DZ	**CSMOS**	GS	***** GROUP START CSMOS	3R0	4	0	5,273,457:77:0	
86	99	330	04:47:55.733	117DZ105A106A4A	**7STRP**	**-0.0041,0.0,0,0,**	**Slew =,0.03**	3R0	4	0	5,273,458:00:0	
87	**99**	**330**	**04:48:16.400**	**20DK4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**5,273,458:31:0**	
88	**99**	**330**	**04:48:17.066**	**20DK4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**5,273,458:32:0**	
89	99	330	04:48:18.400	175DK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	5,273,458:34:0	
90	99	330	04:48:29.733	175DK176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	5,273,458:51:0	
91	**99**	**330**	**04:48:30.400**	**25INGIANTS01-**	**NIMPBK**	**301DO**	**IO GIANT CALDERA OBSERVATION**	**3R3**	**4**	**0**	**: :**	
92	**99**	**330**	**04:50:01.066**	**25INGIANTS01-**		**-----START------**		**3R3**	**4**	**0**	**: :**	
93	**99**	**330**	**04:50:01.066**	**25NNGIANTS01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
94	**99**	**330**	**04:50:11.733**	**25INGIANTS01-**	**DESELC**	**300DO**	**IO GIANT CALDERA OBSERVATION**	**3R3**	**4**	**0**	**: :**	
95	99	330	04:50:14.400	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,273,460:26:0	
96	99	330	04:50:15.733	117DZ11A	**CSMOS**	GE	***** GROUP END CSMOS	3R3	4	0	5,273,460:28:0	
97	99	330	04:50:57.066	165IK4A	**7SCAN**	**NORM,58.373,21.9**	Check S/P Position	3R3	4	0	5,273,460:90:0	
98	**99**	**330**	**04:51:45.066**	**25INGIANTS01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
99	99	330	04:52:49.066	175IN422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	5,273,462:76:0	
100	99	330	04:52:51.066	118IK	**SMOS**	GS		3R3	4	0	5,273,462:79:0	
101	99	330	04:52:57.733	165IK4B	7VECT		Inert vect update UTC	3R3	4	0	5,273,462:89:0	
102	99	330	04:53:00.400	175IN176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	5,273,463:02:0	
103	99	330	04:53:01.066	118IK110A111A4A	7STRP	-0.0061,0.0,26,0	Slew =,3.01	3R3	4	0	5,273,463:03:0	
104	99	330	04:53:09.733	118IK110A111B4A	7STRP	0.0061,-0.0061,0	Slew =,3.01	3R3	4	0	5,273,463:16:0	
105	99	330	04:53:18.400	118IK110A111B4B	7STRP	-0.0061,0.0,26,0	Slew =,3.01	3R3	4	0	5,273,463:29:0	
106	99	330	04:53:27.066	118IK110A111A4B	7STRP	0.0061,0.0061,0,	Slew =,3.01	3R3	4	0	5,273,463:42:0	
107	99	330	04:53:35.733	118IK110A111A4C	7STRP	-0.0061,0.0,26,0	Slew =,3.01	3R3	4	0	5,273,463:55:0	
108	**99**	**330**	**04:53:39.733**	**20DL5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,273,463:61:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	**99**	**330**	**04:53:43.066**	**20DL5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,273,463:66:0**	
110	99	330	04:53:44.400	118IK110A111B4C	7STRP	0.0061,-0.0061,0	Slew =,3.01		4	0	5,273,463:68:0	
111	**99**	**330**	**04:53:46.400**	**20DL6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,273,463:71:0**	
112	99	330	04:53:53.066	118IK110A111B4D	7STRP	-0.0061,0.0,26,0	Slew =,3.01		4	0	5,273,463:81:0	
113	**99**	**330**	**04:53:56.400**	**20DL6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,273,463:86:0**	
114	99	330	04:54:01.733	118IK110A111A4D	7STRP	0.0061,0.0061,0,	Slew =,3.01		4	0	5,273,464:03:0	
115	**99**	**330**	**04:54:10.400**	**20DL5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,273,464:16:0**	
116	99	330	04:54:10.400	118IK110A111A4E	7STRP	-0.0061,0.0,26,0	Slew =,3.01		4	0	5,273,464:16:0	
117	**99**	**330**	**04:54:13.733**	**20DL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,273,464:21:0**	
118	99	330	04:54:19.066	118IK110A111B4E	7STRP	0.0061,-0.0061,0	Slew =,3.01	260	4	0	5,273,464:29:0	
119	99	330	04:54:27.733	118IK110A111B4F	7STRP	-0.0061,0.0,26,0	Slew =,3.01	260	4	0	5,273,464:42:0	
120	99	330	04:54:36.400	118IK11A	**SMOS**	GE		260	4	0	5,273,464:55:0	
121	99	330	04:54:43.066	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	5,273,464:65:0	
122	**99**	**330**	**04:54:53.733**	**20DL4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**5,273,464:81:0**	
123	**99**	**330**	**04:55:04.399**	**25NNCULANN01-**		**-----START------**		**2R0**	**4**	**0**	**: :**	
124	99	330	04:55:49.066	175DL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	5,273,465:73:0	
125	99	330	04:55:52.400	116DL4A	**7STRP**	**0.0025,0.0,0,0,0**	**Slew =0,5.0**	2R0	4	0	5,273,465:78:0	
126	**99**	**330**	**04:55:54.400**	**20DL4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,273,465:81:0**	
127	**99**	**330**	**04:55:55.066**	**20DL4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,273,465:82:0**	
128	99	330	04:56:00.400	175DL176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,273,465:90:0	
129	**99**	**330**	**04:56:01.066**	**25INCULANN01-**	**NIMPBK**	**301DP**	**IO CULANN OBSERVATION**	**2R3**	**4**	**0**	**: :**	
130	**99**	**330**	**04:56:50.400**	**25INCULANN01-**	**DESELC**	**300DP**	**IO CULANN OBSERVATION**	**2R3**	**4**	**0**	**: :**	
131	99	330	04:56:53.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,273,466:78:0	
132	**99**	**330**	**04:58:06.399**	**25NNCULANN01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
133	**99**	**330**	**04:58:06.399**	**25INCULANN01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
134	**99**	**330**	**05:00:07.733**	**25INCULANN01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**	
135	99	330	05:01:03.733	165IL4A	**7SCAN**	**NORM,52.377,24.4**	Check S/P Position	2R3	4	0	5,273,470:90:0	
136	**99**	**330**	**05:01:08.399**	**25NNINTERM01-**		**-----START------**		**2R3**	**4**	**0**	**: :**	
137	**99**	**330**	**05:01:45.066**	**20DM5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,273,471:61:0**	
138	**99**	**330**	**05:01:48.400**	**20DM5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,273,471:66:0**	
139	**99**	**330**	**05:01:51.733**	**20DM6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,273,471:71:0**	
140	**99**	**330**	**05:02:01.733**	**20DM6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,273,471:86:0**	
141	**99**	**330**	**05:02:15.733**	**20DM5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,273,472:16:0**	
142	**99**	**330**	**05:02:19.066**	**20DM5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,273,472:21:0**	
143	99	330	05:02:55.733	175IS422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	260	4	0	5,273,472:76:0	
144	99	330	05:02:57.733	118IL	**SMOS**	GS		260	4	0	5,273,472:79:0	
145	**99**	**330**	**05:02:59.066**	**20DM4A**	**37IST**	**1,2,0,OFF,0,1,2**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**3R0**	**4**	**0**	**5,273,472:81:0**	
146	99	330	05:03:04.400	165IL4B	7VECT		Inert vect update UTC	3R0	4	0	5,273,472:89:0	
147	99	330	05:03:07.066	175IS176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	3R0	4	0	5,273,473:02:0	
148	99	330	05:03:07.733	118IL110A111A4A	7STRP	0.0056,0.0056,26	Slew =3,5.0	3R0	4	0	5,273,473:03:0	
149	99	330	05:03:25.066	118IL11A	**SMOS**	GE		3R0	4	0	5,273,473:29:0	
150	99	330	05:03:31.733	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R0	4	0	5,273,473:39:0	
151	**99**	**330**	**05:03:59.733**	**20DM4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**3R3**	**4**	**0**	**5,273,473:81:0**	
152	**99**	**330**	**05:04:00.400**	**20DM4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**3R3**	**4**	**0**	**5,273,473:82:0**	
153	**99**	**330**	**05:04:10.399**	**25NNINTERM01-**		**-----STOP-------**		**3R3**	**4**	**0**	**: :**	
154	99	330	05:04:10.400	118IM	**SMOS**	GS		3R3	4	0	5,273,474:06:0	
155	99	330	05:04:32.400	116IL4A	7STRP	0.017702,0.02902	Slew =,6.01	3R3	4	0	5,273,474:39:0	
156	99	330	05:04:39.733	175IT422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	4	0	5,273,474:50:0	
157	99	330	05:04:51.066	175IT176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	3R3	4	0	5,273,474:67:0	
158	99	330	05:04:51.733	118IM110A111A4A	7STRP	0.0013,0.0062,26	Slew =,3.01	3R3	4	0	5,273,474:68:0	
159	99	330	05:05:09.066	118IM11A	**SMOS**	GE		3R3	4	0	5,273,475:03:0	
160	99	330	05:05:15.733	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,273,475:13:0	
161	99	330	05:06:16.400	116DM4A	**7STRP**	**-0.018002,-0.028**	**Slew =,7.01**	3R3	4	0	5,273,476:13:0	
162	99	330	05:06:21.733	175DM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	5,273,476:21:0	
163	99	330	05:06:33.066	175DM176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	5,273,476:38:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	330	05:06:33.733	25INTERMAP01-	NIMPBK	301DQ	IO TERMAP OBSERVATION	3R3	4	0	: :	
165	99	330	05:07:12.399	25ININTERM01-		-----START------		3R3	4	0	: :	
166	99	330	05:07:23.066	25INTERMAP01-	DESELC	300DQ	IO TERMAP OBSERVATION	3R3	4	0	: :	
167	99	330	05:07:28.400	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,273,477:30:0	
168	99	330	05:07:49.066	20DN5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,273,477:61:0	
169	99	330	05:07:52.400	20DN5B	37MRL		Memory Realocate (software operates from R		4	0	5,273,477:66:0	
170	99	330	05:07:55.733	20DN6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,273,477:71:0	
171	99	330	05:08:05.733	20DN6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,273,477:86:0	
172	99	330	05:08:19.733	20DN5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,273,478:16:0	
173	99	330	05:08:23.066	20DN5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,273,478:21:0	
174	99	330	05:09:03.066	20DN4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,273,478:81:0	
175	99	330	05:09:09.066	165DN4A	7SCAN	NORM,57.292,22.7	Check S/P Position	2R0	4	0	5,273,478:90:0	
176	99	330	05:09:13.733	25INREGION01-		-----START------		2R0	4	0	: :	
177	99	330	05:09:13.733	25ININTERM01-		-----STOP-------		2R0	4	0	: :	
178	99	330	05:09:55.733	175DN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R0	4	0	5,273,479:69:0	
179	99	330	05:10:01.066	117DN	CSMOS	GS	***** GROUP START CSMOS	2R0	4	0	5,273,479:77:0	
180	99	330	05:10:03.733	20DN4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,273,479:81:0	
181	99	330	05:10:04.400	20DN4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,273,479:82:0	
182	99	330	05:10:07.066	175DN176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,273,479:86:0	
183	99	330	05:10:09.066	165DN4B	7VECT		Inert vect update UTC	2R3	4	0	5,273,479:89:0	
184	99	330	05:10:09.066	25INREGION01-	NIMPBK	301DR	IO REGION OBSERVATION	2R3	4	0	: :	
185	99	330	05:10:10.400	117DN105A106A4A	7STRP	0.045131,0.0,0,0	Slew =,0.03	2R3	4	0	5,273,480:00:0	
186	99	330	05:35:19.066	117DN105A106A4B	7STRP	-0.040021,0.0080	Slew =,7.68	2R3	4	0	5,273,504:79:0	
187	99	330	05:35:19.066	25INREGION01-	DESELC	300DR	IO REGION OBSERVATION	2R3	4	0	: :	
188	99	330	05:35:24.733	25INREGION01-	NIMPBK	301EY	IO REGION OBSERVATION	2R3	4	0	: :	
189	99	330	05:35:29.733	117DN105A106A4C	7STRP	0.045131,0.0,0,0	Slew =,0.03	2R3	4	0	5,273,505:04:0	
190	99	330	05:54:59.733	25INREGION01-	DESELC	300EY	IO REGION OBSERVATION	2R3	4	0	: :	
191	99	330	05:55:09.733	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,273,524:45:0	
192	99	330	06:00:38.400	117DN11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,273,529:83:0	
193	99	330	06:01:03.733	20RR6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,273,530:30:0	
194	99	330	06:03:49.733	25INREGION01-		-----STOP-------		2R3	4	0	: :	
195	99	330	07:30:59.733	480SI6A	6MROH	44,23E8,0,A2	read from LLM2A44,23E8,0,A2	2R3	4	0	5,273,619:25:0	
196	99	330	07:37:39.733	480SI6B	6MROH	45,23E8,0,B2	read from LLM2B45,23E8,0,B2	2R3	4	0	5,273,625:79:0	
197	99	330	07:52:58.400	488AE6A	6TMSED	NORM,DL5	Sci, Eng, and D/L Chan	2R3	4	0	5,273,641:01:0	
198	99	330	08:01:03.733	20RG6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,273,649:01:0	
199	99	330	08:07:17.066	165JZ4A	7SCAN	NORM,50.585,19.6	Check S/P Position	2R3	4	0	5,273,655:15:0	
200	99	330	08:07:56.400	175IU422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,273,655:74:0	
201	99	330	08:08:06.400	165JZ4B	7VECT		Inert vect update UTC	2R3	4	0	5,273,655:89:0	
202	99	330	08:08:09.066	175IU176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,273,656:02:0	
203	99	330	08:08:11.733	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,273,656:06:0	
204	99	330	08:16:17.066	488AE6B	6TMSED	NORM,EL5	Sci, Eng, and D/L Chan	2R3	4	0	5,273,664:06:0	
205	99	330	08:18:14.400	192GG4A	7CONE	9.0,0.0	Check S/P Position	2R3	4	0	5,273,666:00:0	
206	99	330	08:25:19.066	176GG6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	2R3	4	0	5,273,673:00:0	
207	99	330	08:30:22.400	192GG4B	7CONE	9.0,90.0	Check S/P Position	2R3	4	0	5,273,678:00:0	
208	99	330	08:37:40.400	176GG6B	6TMREC	NRC	NO RECORD Record Mode Change	2R3	4	0	5,273,685:20:0	
209	99	330	08:37:42.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,273,685:23:0	
210	99	330	08:59:32.400	175KA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,273,706:77:0	
211	99	330	08:59:41.066	175KA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,273,706:90:0	
212	99	330	08:59:43.066	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,273,707:02:0	
213	99	330	08:59:48.400	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,273,707:10:0	
214	99	331	00:52:13.733	25NNRELOAD01-		-----START------		2R3	4	0	: :	
215	99	331	01:02:20.399	25NNRELOAD01-		-----STOP-------		2R3	4	0	: :	
216	99	331	01:04:21.733	25NNCHOPOF01-		-----START------		2R3	4	0	: :	
217	99	331	01:14:28.399	25NNCHOPOF01-		-----STOP-------		2R3	4	0	: :	
218	99	331	01:14:59.733		DMS:	: READY	RDY, TRACK 4, REV, TIC -10.13 +/-	2R3	4	0	5,274,671:53:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	331	01:15:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	2R3	4	0	5,274,671:53:4	
220	99	331	01:15:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	2R3	4	0	5,274,671:53:4	
221	99	331	01:15:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	2R3	4	0	5,274,671:53:4	
222	99	331	01:15:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	2R3	4	0	5,274,671:53:4	
223	99	331	01:15:00.000	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	2R3	4	0	5,274,671:53:4	
224	99	331	01:15:00.000	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	2R3	4	0	5,274,671:53:4	
225	99	331	01:15:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	2R3	4	0	5,274,671:53:4	
226	99	331	01:15:00.000	20A3EX	37HR	Final Condition	Replacement Heaters OFF	2R3	4	0	5,274,671:53:4	
227	99	331	01:15:00.000	20A3EW	37A	Final Condition	NIMS Power ON	2R3	4	0	5,274,671:53:4	

Sequence: I25A2B + IAP **Created: 11/25/99** **Begin: 99-331/01:17:00 Finish: 99-348/08:00:00**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	99	331	01:16:59.733		DMS:	: READY	RDY, TRACK 4, REV, TIC -10.13 +/-	2R3	4	0	5,274,673:51:0	
2	**99**	**331**	**01:17:00.000**	**20A3FE**	**40T1PR**	**CMD,40T1PR,20A3F**	**PCT Heater 1 OFF (primary relay)**	**2R3**	**4**	**0**	**5,274,673:51:4**	
3	**99**	**331**	**01:17:00.000**	**20A3FF**	**40T2R**	**CMD,40T2R,20A3FF**	**PCT Heater 2 OFF**	**2R3**	**4**	**0**	**5,274,673:51:4**	
4	**99**	**331**	**01:17:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**2R3**	**4**	**0**	**5,274,673:51:4**	
5	**99**	**331**	**01:17:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**2R3**	**4**	**0**	**5,274,673:51:4**	
6	**99**	**331**	**01:17:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**2R3**	**4**	**0**	**5,274,673:51:4**	
7	**99**	**331**	**01:17:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**2R3**	**4**	**0**	**5,274,673:51:4**	
8	**99**	**331**	**01:17:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**2R3**	**4**	**0**	**5,274,673:51:4**	
9	**99**	**331**	**01:17:00.000**	**20A3EX**	**37HR**	**CMD,37HR,20A3EX,**	**Replacement Heaters OFF**	**2R3**	**4**	**0**	**5,274,673:51:4**	
10	**99**	**331**	**01:17:00.000**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**2R3**	**4**	**0**	**5,274,673:51:4**	
11	99	331	01:17:26.400	465KG6A	6DMSC	RDY,3	DMS Control Tape stop	2R3	4	0	5,274,674:00:0	
12	99	331	01:17:59.733	20TS4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,274,674:50:0	
13	99	331	01:18:49.733	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,274,675:34:0	
14	99	331	01:18:57.733	20TS4F	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,274,675:46:0	
15	99	331	01:18:59.733	20TS4G	7STAR	2,371,138.159,-6	Star catalog update	2R3	4	0	5,274,675:49:0	
16	99	331	01:19:01.733	20TS4H	7STAR	3,317,120.456,-3	Star catalog update	2R3	4	0	5,274,675:52:0	
17	99	331	01:19:03.733	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R3	4	0	5,274,675:55:0	
18	99	331	01:19:05.733	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R3	4	0	5,274,675:58:0	
19	99	331	01:19:07.733	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R3	4	0	5,274,675:61:0	
20	**99**	**331**	**01:27:31.733**	**432JB6B**	**6RTDS2**	**NIMNCG,AACDSL,RT**	**AACS DESELECT**	**2R3**	**4**	**0**	**5,274,683:89:0**	
21	99	331	01:28:03.733	20VL4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,274,684:46:0	
22	99	331	01:28:53.733	20VL4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,274,685:30:0	
23	99	331	01:31:34.400	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,274,687:89:0	
24	99	331	01:35:42.400	20ZM6A	6EUVON			2R3	4	0	5,274,692:06:0	
25	99	331	01:36:39.066	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,274,693:00:0	
26	99	331	01:38:40.400	176BA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,274,695:00:0	
27	99	331	01:38:42.400	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	4	0	5,274,695:03:0	
28	99	331	01:41:41.733	165BA4A	7SCAN	NORM,116.995999,	Check S/P Position	2R3	4	0	5,274,697:90:0	
29	99	331	01:46:53.733	20UT4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,274,703:12:0	
30	99	331	01:47:43.733	20UT4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,274,703:87:0	
31	99	331	01:48:47.066	176BB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R3	4	0	5,274,705:00:0	
32	99	331	03:41:01.066	176BC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,274,816:00:0	
33	99	331	03:44:02.400	165CH4A	7SCAN	NORM,82.872,24.0	Check S/P Position	2R3	4	0	5,274,818:90:0	
34	99	331	03:48:04.400	165CH4B	7VECT		Inert vect update UTC	2R3	4	0	5,274,822:89:0	
35	99	331	03:49:14.400	20UU4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,274,824:12:0	
36	99	331	03:50:04.400	20UU4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,274,824:87:0	
37	99	331	03:51:07.733	176BD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R3	4	0	5,274,826:00:0	
38	99	331	04:23:29.066	176BE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,274,858:00:0	
39	99	331	04:30:20.400	165CI4A	7SCAN	NORM,84.98,24.17	Check S/P Position	2R3	4	0	5,274,864:71:0	
40	99	331	04:30:56.400	165CI4B	7VECT		Inert vect update UTC	2R3	4	0	5,274,865:34:0	
41	99	331	04:31:42.400	20UX4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,274,866:12:0	
42	99	331	04:32:32.400	20UX4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,274,866:87:0	
43	99	331	04:33:35.733	176BF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R3	4	0	5,274,868:00:0	
44	99	331	05:42:21.066	176BG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,274,936:00:0	
45	99	331	05:45:22.400	165BB4A	7SCAN	NORM,116.995999,	Check S/P Position	2R3	4	0	5,274,938:90:0	
46	99	331	05:50:34.400	20UV4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,274,944:12:0	
47	99	331	05:51:24.400	20UV4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,274,944:87:0	
48	99	331	05:52:27.733	176BH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R3	4	0	5,274,946:00:0	
49	99	331	09:17:45.066	488AI6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,275,149:03:0	
50	99	331	09:58:17.066	488AI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,275,189:11:0	
51	99	331	11:10:21.666	488AI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,275,260:37:0	
52	99	331	11:37:11.000	488AI6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,275,286:85:0	
53	99	331	13:14:33.000	488AI6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,275,383:21:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	331	15:03:21.000	488AJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,275,490:76:0	
55	99	331	15:25:54.333	488AJ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,275,513:13:0	
56	99	331	15:28:57.000	488AJ6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2R3	4	0	5,275,516:14:0	
57	99	331	15:39:37.000	488AJ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,275,526:64:0	
58	99	331	23:59:23.000	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,276,020:89:0	
59	99	332	00:02:33.000	20YC6A	6HICON			2R3	4	0	5,276,024:10:0	
60	99	332	00:03:27.000	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,276,025:00:0	
61	99	332	02:45:00.333	41AB99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	2R3	4	0	5,276,184:71:0	
62	**99**	**332**	**02:46:54.333**	**41AB3G**	**40T1P**		**1 PCT Heater 1 ON (primary relay)**	**2R3**	**4**	**0**	**5,276,186:60:0**	
63	**99**	**332**	**02:47:04.333**	**41AB3H**	**40T1P**		**2 PCT Heater 1 ON (primary relay)**	**2R3**	**4**	**0**	**5,276,186:75:0**	
64	**99**	**332**	**02:47:14.333**	**41AB3I**	**40T2**		**1 PCT Heater 2 ON**	**2R3**	**4**	**0**	**5,276,186:90:0**	
65	**99**	**332**	**02:47:24.333**	**41AB3J**	**40T2**		**2 PCT Heater 2 ON**	**2R3**	**4**	**0**	**5,276,187:14:0**	
66	99	332	05:58:56.333	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,276,376:53:0	
67	99	332	06:12:09.000	488AK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,276,389:59:0	
68	99	332	07:18:00.333	488AK6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R3	4	0	5,276,454:71:0	
69	99	332	07:18:13.666	176SL6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,276,455:00:0	
70	99	332	07:21:35.666	20SZ4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R3	4	0	5,276,458:30:0	
71	99	332	07:25:34.333	20SY4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,276,462:24:0	
72	99	332	07:26:24.333	20SY4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,276,463:08:0	
73	99	332	07:41:45.000	488AK6D	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2R3	4	0	5,276,478:24:0	
74	99	332	07:54:00.333	20SV4I	**7MODE**	**INT**	AACS INERTIAL MODE	2R3	4	0	5,276,490:35:0	
75	99	332	08:09:00.333	20SV4K	7SLEW	INIT,POS,17.45	Stator movement	2R3	4	0	5,276,505:20:0	
76	99	332	08:21:00.333	20SV4L	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,276,517:08:0	
77	99	332	08:28:00.333	20SV4M	7SLEW	INIT,NEG,17.45	Stator movement	2R3	4	0	5,276,524:01:0	
78	99	332	08:40:00.333	20SV4N	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,276,535:80:0	
79	99	332	08:52:00.333	20SV4AH	**7MODE**	**CRU**	AACS CRUISE MODE	2R3	4	0	5,276,547:68:0	
80	99	332	08:53:30.333	20UB4A	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,276,549:21:0	
81	99	332	08:53:32.333	20UB4B	7STAR	2,111,285.778,13	Star catalog update	2R3	4	0	5,276,549:24:0	
82	99	332	08:53:34.333	20UB4C	7STAR	3,371,138.159,-6	Star catalog update	2R3	4	0	5,276,549:27:0	
83	99	332	08:53:36.333	20UB4D	7STAR	4,317,120.456,-3	Star catalog update	2R3	4	0	5,276,549:30:0	
84	99	332	08:53:38.333	20UB4E	7STAR	5,0,0.,0.	Star catalog update	2R3	4	0	5,276,549:33:0	
85	99	332	08:53:40.333	20UB4F	7STAR	6,0,0.,0.	Star catalog update	2R3	4	0	5,276,549:36:0	
86	99	332	09:08:04.333	20SU4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,276,563:58:0	
87	99	332	09:08:54.333	20SU4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,276,564:42:0	
88	99	332	09:09:27.000	176TE6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R3	4	0	5,276,565:00:0	
89	99	332	09:28:00.333	488AK6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R3	4	0	5,276,583:32:0	
90	99	332	13:38:01.000	488AL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,276,830:56:0	
91	99	332	15:07:37.000	488AL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,276,919:21:0	
92	99	332	15:14:01.000	488AL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,276,925:51:0	
93	99	332	15:35:21.000	488AL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,276,946:60:0	
94	99	332	16:29:07.666	488AL6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,276,999:77:0	
95	99	332	16:58:13.666	488AM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,277,028:57:0	
96	99	332	17:26:17.000	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,056:34:0	
97	99	332	22:37:44.933	488AM6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,277,364:38:0	
98	99	332	22:59:04.933	488AN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,277,385:47:0	
99	99	332	23:49:09.600	488AN6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,277,435:04:0	
100	99	332	23:59:13.600	431MJ6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,277,445:00:0	
101	99	333	00:11:36.933	488AN6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,457:23:0	
102	99	333	00:20:26.266	488AN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,465:89:0	
103	99	333	04:45:51.600	488AN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,728:44:0	
104	99	333	04:48:56.933	488AO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,277,731:49:0	
105	99	333	07:03:49.600	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,277,864:85:0	
106	99	333	07:26:48.933	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,887:61:0	
107	99	333	08:15:34.933	488AO6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,935:82:0	
108	99	333	08:42:24.266	488AO6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,277,962:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
109	99	333	13:36:12.266	176QA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,278,253:00:0
110	99	333	13:41:20.266	20UM4B	7SAFE	UNSTOW	S/P TO 153 deg cone	2R3	4	0	5,278,258:07:0
111	99	333	13:44:24.933	488AP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,261:11:0
112	99	333	14:00:20.266	20UM4D	**7MODE**	**INT**	AACS INERTIAL MODE	2R3	4	0	5,278,276:79:0
113	99	333	15:02:28.933	488AP6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,338:30:0
114	99	333	15:03:20.933	488AP6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,278,339:17:0
115	99	333	15:15:33.600	488AP6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2R3	4	0	5,278,351:24:0
116	99	333	15:31:04.933	488AP6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,366:56:0
117	99	333	16:14:13.600	488AQ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,409:26:0
118	99	333	16:47:00.266	20UM4F	**7MODE**	**CRU**	AACS CRUISE MODE	2R3	4	0	5,278,441:64:0
119	99	333	16:53:00.266	488AQ6B	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,447:58:0
120	99	333	16:53:19.600	488AQ6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,447:87:0
121	99	333	17:22:00.933	488AQ6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R3	4	0	5,278,476:30:0
122	99	334	00:09:28.933	488AR6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2R3	4	0	5,278,879:29:0
123	99	334	01:09:12.933	488AR6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R3	4	0	5,278,938:36:0
124	99	334	02:15:39.600	488AR6C	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	2R3	4	0	5,279,004:10:0
125	99	334	02:47:29.533	488AR6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2R3	4	0	5,279,035:54:0
126	99	334	04:01:00.200	488AR6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,279,108:27:0
127	99	334	04:01:42.866	176QF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2R3	4	0	5,279,109:00:0
128	99	334	04:05:00.200	444SB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2R3	4	0	5,279,112:23:0
129	99	334	04:10:04.200	20UF4A	7SAFE	STOP	S/P NO MOVEMENT	2R3	4	0	5,279,117:24:0
130	99	334	04:10:54.200	20UF4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,279,118:08:0
131	99	334	04:12:50.200	176SP6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2R3	4	0	5,279,120:00:0
132	99	334	05:48:40.866	488AS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2R3	4	0	5,279,214:72:0
133	99	334	06:05:44.866	488AS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,279,231:61:0
134	99	334	07:00:40.866	488AS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2R3	4	0	5,279,286:00:0
135	99	334	07:26:48.866	488AS6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2R3	4	0	5,279,311:77:0
136	99	334	07:27:22.866	488AS6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2R3	4	0	5,279,312:37:0
137	**99**	**334**	**12:08:16.866**	**IAP_99S383**		**-----START------**		**2R3**	**4**	**0**	**: :**
138	**99**	**334**	**12:08:24.866**	**31VN5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,279,590:32:0**
139	**99**	**334**	**12:09:25.533**	**31VN5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,279,591:32:0**
140	**99**	**334**	**12:10:26.200**	**31VN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,279,592:32:0**
141	**99**	**334**	**12:11:26.866**	**31VN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,279,593:32:0**
142	**99**	**334**	**12:12:27.533**	**31VN5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,279,594:32:0**
143	**99**	**334**	**12:13:28.200**	**31VN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,279,595:32:0**
144	**99**	**334**	**12:24:08.866**	**31VN4A**	**37IST**	**1,1,0,OFF,0,0,1**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O0**	**4**	**0**	**5,279,605:83:0**
145	**99**	**334**	**12:24:12.866**	**IAP_99S383**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**
146	99	334	13:33:44.866	488AT6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,279,674:68:0
147	99	334	14:59:04.866	488AT6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,279,759:13:0
148	99	334	15:14:00.866	488AT6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,279,773:83:0
149	99	334	15:14:43.533	488AT6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	2O0	4	0	5,279,774:56:0
150	99	334	15:35:20.866	488AT6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,279,795:01:0
151	99	334	20:12:45.533	488AU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,280,069:34:0
152	99	335	01:24:08.866	488AU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,280,377:31:0
153	99	335	02:13:12.866	488AV6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,280,425:79:0
154	99	335	02:16:45.533	488AV6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,280,429:34:0
155	99	335	02:26:00.866	488AV6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,280,438:48:0
156	99	335	04:16:49.533	488AV6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,280,548:11:0
157	99	335	05:59:20.866	488AV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,280,649:47:0
158	99	335	09:13:28.866	488AW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,280,841:47:0
159	99	335	09:44:28.200	488AW6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,280,872:15:0
160	99	335	09:51:52.866	488AW6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,280,879:45:0
161	99	335	20:32:38.133	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,281,513:19:0
162	99	335	21:45:51.466	488AX6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,281,585:57:0
163	**99**	**335**	**22:00:27.466**	**25NNPCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
164	99	335	22:00:31.466	41FB3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	2O0	4	0	5,281,600:12:0
165	99	335	22:00:41.466	41FB3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	2O0	4	0	5,281,600:27:0
166	99	335	22:00:51.466	41FB3C	40T2R	1	PCT Heater 2 OFF	2O0	4	0	5,281,600:42:0
167	99	335	22:01:01.466	41FB3D	40T2R	2	PCT Heater 2 OFF	2O0	4	0	5,281,600:57:0
168	99	335	22:12:41.466	488AX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,281,612:15:0
169	99	335	23:52:24.800	488AX6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,281,710:72:0
170	99	336	01:43:20.800	488AX6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,281,820:46:0
171	99	336	02:13:12.800	488AY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,281,850:04:0
172	99	336	02:30:16.800	488AY6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,281,866:84:0
173	99	336	03:12:16.800	488AY6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,281,908:42:0
174	99	336	03:36:50.133	488AY6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,281,932:68:0
175	99	336	04:04:23.466	176FB6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,281,960:00:0
176	99	336	04:07:32.133	444FB443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2O0	4	0	5,281,963:10:0
177	99	336	04:11:32.133	444FB443A4B	7MODE	SPNL	AACS ALL-SPIN LOW	2O0	4	0	5,281,967:06:0
178	99	336	04:20:32.133	444FB443A4C	7CLK	17.45,0.0	Check S/P Position	2O0	4	0	5,281,975:88:0
179	99	336	04:23:31.466	125FB	NIMSINIT	GS	##### GROUP START INIT	2O0	4	0	5,281,978:84:0
180	99	336	04:23:31.466	125FB4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	260	4	0	5,281,978:84:0
181	99	336	04:24:32.133	125FB4B	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R0	4	0	5,281,979:84:0
182	99	336	04:25:32.800	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,281,980:84:0
183	99	336	04:25:32.800	125FB4C	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	5,281,980:84:0
184	99	336	04:28:34.800	127FB4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	5,281,983:84:0
185	99	336	04:28:34.800	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,281,983:84:0
186	99	336	04:28:35.466	127FB4B	37ETB	0A,CA,19,FF,C0,1	Loads wavelength edit table	4R3	4	0	5,281,983:85:0
187	99	336	04:28:43.466	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,281,984:06:0
188	99	336	04:28:59.466	432FB6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,281,984:30:0
189	99	336	04:30:59.466	432FC6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,281,986:28:0
190	99	336	04:31:41.466	192FC4A	7CONE	17.0,54.88	Check S/P Position	4R3	4	0	5,281,987:00:0
191	99	336	04:31:42.133	192FC4B	7CLK	17.0,244.07	Check S/P Position	4R3	4	0	5,281,987:01:0
192	99	336	04:35:03.466	432FD6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,281,990:30:0
193	99	336	04:45:08.800	432FE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,282,000:28:0
194	99	336	04:45:46.133	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,282,000:84:0
195	99	336	04:45:46.133	127FE4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	5,282,000:84:0
196	99	336	04:45:46.800	127FE4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	5,282,000:85:0
197	99	336	04:45:54.800	20FE4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R0	4	0	5,282,001:06:0
198	99	336	04:45:54.800	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	5,282,001:06:0
199	99	336	04:47:47.466	125FE4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,282,002:84:0
200	99	336	04:47:47.466	125FE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	5,282,002:84:0
201	99	336	04:48:48.133	125FE4B	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	5,282,003:84:0
202	99	336	04:49:48.800	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	5,282,004:84:0
203	99	336	04:49:48.800	125FE4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4O0	4	0	5,282,004:84:0
204	99	336	04:51:00.800	444FF443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	5,282,006:10:0
205	99	336	04:55:00.800	444FF443A4B	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	5,282,010:06:0
206	99	336	05:05:07.466	41FG99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	5,282,020:06:0
207	99	336	05:07:01.466	41FG3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	5,282,021:86:0
208	99	336	05:07:11.466	41FG3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	5,282,022:10:0
209	99	336	05:07:21.466	41FG3I	40T2	1	PCT Heater 2 ON	4O0	4	0	5,282,022:25:0
210	99	336	05:07:31.466	41FG3J	40T2	2	PCT Heater 2 ON	4O0	4	0	5,282,022:40:0
211	99	336	05:09:14.133	20FI4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,282,024:12:0
212	99	336	05:10:04.133	20FI4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,282,024:87:0
213	99	336	05:11:07.466	176FH6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,282,026:00:0
214	99	336	05:33:44.800	488AY6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,282,048:34:0
215	99	336	05:50:37.466	25NNPCTRLT01-		-----STOP-------		4O0	4	0	: :
216	99	336	05:56:37.466	176UW6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,282,071:00:0
217	99	336	06:02:00.133	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,282,076:29:0
218	99	336	06:03:00.133	20UQ4D	7MODE	SPNL	AACS ALL-SPIN LOW	4O0	4	0	5,282,077:28:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
219	99	336	06:05:00.133	20UQ4E	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	5,282,079:26:0
220	99	336	06:10:30.133	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	5,282,084:66:0
221	99	336	06:10:30.800	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	5,282,084:67:0
222	99	336	06:10:50.800	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	5,282,085:06:0
223	99	336	06:10:51.466	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	5,282,085:07:0
224	99	336	06:11:11.466	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,282,085:37:0
225	99	336	06:11:12.133	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,282,085:38:0
226	99	336	06:11:22.133	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,282,085:53:0
227	99	336	06:11:22.800	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,282,085:54:0
228	99	336	06:11:32.800	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	5,282,085:69:0
229	99	336	06:11:33.466	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	5,282,085:70:0
230	99	336	06:13:20.133	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	5,282,087:48:0
231	99	336	06:13:20.800	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	5,282,087:49:0
232	99	336	06:13:40.800	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	5,282,087:79:0
233	99	336	06:13:41.466	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	5,282,087:80:0
234	99	336	06:14:01.466	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,282,088:19:0
235	99	336	06:14:02.133	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,282,088:20:0
236	99	336	06:14:12.133	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,282,088:35:0
237	99	336	06:14:12.800	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,282,088:36:0
238	99	336	06:14:22.800	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	5,282,088:51:0
239	99	336	06:14:23.466	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	5,282,088:52:0
240	99	336	06:15:20.133	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,282,089:46:0
241	99	336	06:40:04.133	20UW4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,282,113:88:0
242	99	336	06:40:54.133	20UW4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,282,114:72:0
243	99	336	06:42:07.466	176UX6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,282,116:00:0
244	99	336	09:09:12.800	488AZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,282,261:43:0
245	99	336	09:42:17.466	488AZ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,282,294:17:0
246	99	336	09:43:20.800	488AZ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,282,295:21:0
247	99	336	09:51:52.800	488AZ6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,282,303:61:0
248	99	336	20:37:32.066	488BA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,282,942:21:0
249	99	336	22:25:41.400	488BA6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,283,049:18:0
250	99	337	00:42:31.400	488BA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,283,184:48:0
251	99	337	03:00:08.733	488BB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,283,320:58:0
252	99	337	04:57:28.733	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,283,436:62:0
253	99	337	09:02:48.733	488BC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,283,679:29:0
254	99	337	09:34:15.400	488BC6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,283,710:38:0
255	99	337	09:41:12.733	488BC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,283,717:27:0
256	99	337	20:42:25.400	488BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,284,371:22:0
257	99	338	01:02:48.733	488BD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,284,628:70:0
258	99	338	01:57:08.066	488BD6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,284,682:45:0
259	99	338	01:58:16.733	488BD6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,284,683:57:0
260	99	338	02:06:48.733	488BD6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,284,692:06:0
261	99	338	04:27:23.333	488BE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,284,831:09:0
262	99	338	05:41:07.333	488BE6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,284,904:02:0
263	99	338	06:07:57.333	488BE6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,284,930:51:0
264	99	338	08:03:04.666	488BE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,285,044:38:0
265	99	338	09:17:44.666	488BE6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,285,118:24:0
266	99	338	09:26:22.000	488BF6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,285,126:72:0
267	99	338	09:34:48.666	488BF6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,285,135:13:0
268	99	338	20:37:18.000	488BG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,285,790:32:0
269	99	339	00:58:32.666	488BG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,286,048:66:0
270	99	339	01:51:36.000	488BG6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,286,101:18:0
271	99	339	01:51:52.666	488BG6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,286,101:43:0
272	99	339	02:00:24.666	488BG6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,286,109:83:0
273	99	339	04:27:16.000	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,286,255:14:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	339	08:52:08.666	488BH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,286,517:11:0	
275	99	339	09:27:05.333	488BH6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,286,551:62:0	
276	99	339	09:28:24.666	488BH6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,286,552:90:0	
277	99	339	09:36:56.666	488BH6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,286,561:39:0	
278	99	339	20:37:11.266	488BI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,287,214:38:0	
279	99	339	21:51:18.600	488BI6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,287,287:66:0	
280	99	339	22:18:07.933	488BI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,287,314:23:0	
281	99	339	23:03:20.600	488BI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,287,358:88:0	
282	99	340	00:33:56.600	488BI6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,287,448:52:0	
283	99	340	00:43:03.933	488BJ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,287,457:54:0	
284	99	340	00:56:24.600	488BJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,287,470:72:0	
285	99	340	01:46:20.600	488BJ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,287,520:16:0	
286	99	340	02:13:09.933	488BJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,287,546:64:0	
287	99	340	08:26:32.600	488BK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,287,915:89:0	
288	99	340	12:46:48.600	488BK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,288,173:35:0	
289	99	340	14:27:04.600	488BL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,288,272:50:0	
290	99	340	14:42:00.600	488BL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,288,287:29:0	
291	99	340	15:01:12.600	488BL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,288,306:28:0	
292	99	340	15:46:00.600	488BL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,288,350:56:0	
293	99	341	08:37:12.533	488BM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,289,350:64:0	
294	99	341	09:16:43.200	488BM6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,289,389:71:0	
295	99	341	09:17:44.533	488BM6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,289,390:72:0	
296	99	341	09:26:16.533	488BM6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,399:21:0	
297	99	341	09:47:00.533	488BM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,419:67:0	
298	99	341	11:01:29.866	488BN6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,493:37:0	
299	99	341	11:28:19.200	488BN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,519:85:0	
300	99	341	12:27:36.533	488BN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,289,578:52:0	
301	99	341	14:18:32.533	488BN6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,289,688:26:0	
302	99	341	14:54:48.533	488BN6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,289,724:14:0	
303	99	341	15:39:36.533	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,768:42:0	
304	99	341	15:41:30.533	488BO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,770:31:0	
305	99	341	16:08:20.533	488BO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,289,796:80:0	
306	99	341	23:59:59.866	481UD4A	7VECT		Inert vect update UTC	4O0	4	0	5,290,263:32:0	
307	99	342	00:30:06.533	488BP6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,290,293:12:0	
308	99	342	04:11:55.133	488BP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,290,512:46:0	
309	99	342	08:32:56.466	488BQ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,290,770:60:0	
310	99	342	09:11:53.133	488BQ6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,290,809:16:0	
311	99	342	09:13:28.466	488BQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,290,810:68:0	
312	99	342	09:22:00.466	488BQ6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,290,819:17:0	
313	99	342	10:10:59.800	488BQ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,290,867:58:0	
314	99	342	12:31:52.466	488BR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,006:88:0	
315	99	342	14:16:24.466	488BR6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,291,110:32:0	
316	99	342	14:37:44.466	488BR6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,291,131:41:0	
317	99	342	14:38:48.466	488BR6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,291,132:46:0	
318	99	342	14:59:04.466	488BR6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,291,152:50:0	
319	99	342	16:57:44.466	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,291,269:83:0	
320	99	342	17:56:08.466	488BS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,327:61:0	
321	99	342	18:11:38.466	488BS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,343:00:0	
322	99	342	18:38:28.466	488BS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,369:49:0	
323	99	342	21:52:56.466	488BS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,291,561:79:0	
324	99	342	22:20:40.466	488BT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,291,589:27:0	
325	99	342	23:05:17.800	488BT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,291,633:39:0	
326	99	342	23:39:23.800	488BT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,291,667:14:0	
327	99	342	23:50:16.466	488BT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,677:83:0	
328	99	343	00:52:59.800	488BT6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,739:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	343	00:56:05.133	176UC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,291,743:00:0	
330	99	343	01:23:29.800	20SN4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,291,770:10:0	
331	99	343	01:38:29.800	20SN4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	5,291,784:86:0	
332	99	343	01:50:29.800	20SN4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,291,796:74:0	
333	99	343	01:57:29.800	20SN4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	5,291,803:67:0	
334	99	343	02:09:29.800	20SN4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,291,815:55:0	
335	99	343	02:16:29.800	20SN4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	5,291,822:48:0	
336	99	343	02:28:29.800	20SN4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,291,834:36:0	
337	99	343	02:35:29.800	20SN4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	5,291,841:29:0	
338	99	343	02:47:29.800	20SN4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,291,853:17:0	
339	99	343	02:59:29.800	20SN4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,291,865:05:0	
340	99	343	03:14:59.800	488BU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,880:35:0	
341	99	343	03:15:03.800	20UC4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,291,880:41:0	
342	99	343	03:15:53.800	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,291,881:25:0	
343	99	343	03:17:38.466	176UD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,291,883:00:0	
344	99	343	05:09:58.466	488BU6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,291,994:09:0	
345	99	343	05:14:32.466	488BU6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,291,998:56:0	
346	99	343	10:50:53.066	488BV6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,292,331:24:0	
347	99	343	12:27:36.400	488BV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,292,426:84:0	
348	99	343	14:12:08.400	488BV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,292,530:28:0	
349	99	343	14:31:20.400	488BV6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,292,549:27:0	
350	99	343	14:33:41.733	488BV6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,292,551:57:0	
351	99	343	14:52:40.400	488BW6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,292,570:36:0	
352	99	344	11:40:45.733	488BX6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,293,804:70:0	
353	99	344	12:16:56.400	488BX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,293,840:50:0	
354	99	344	14:07:52.400	488BX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,293,950:24:0	
355	99	344	14:27:04.400	488BX6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,293,969:23:0	
356	99	344	14:32:42.400	488BX6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,293,974:75:0	
357	99	344	14:37:44.400	488BY6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,293,979:73:0	
358	99	344	14:52:40.400	488BY6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,293,994:52:0	
359	99	344	23:17:29.666	488BZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,294,493:77:0	
360	99	344	23:50:16.333	488BZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,294,526:24:0	
361	99	345	00:31:54.333	488BZ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,294,567:40:0	
362	99	345	00:58:44.333	488BZ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,294,593:89:0	
363	99	345	05:29:44.333	488CA6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,294,862:00:0	
364	99	345	05:35:52.333	488CA6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,294,868:06:0	
365	99	345	12:06:16.333	488CB6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,295,254:16:0	
366	99	345	12:11:32.333	488CB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,295,259:35:0	
367	99	345	14:01:28.333	488CB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,295,368:10:0	
368	99	345	14:22:48.333	488CB6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,295,389:19:0	
369	99	345	14:26:57.000	488CB6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,295,393:28:0	
370	99	345	14:31:20.333	488CC6A	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,295,397:59:0	
371	99	345	14:46:16.333	488CC6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,295,412:38:0	
372	99	346	12:11:24.933	488CD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,296,683:40:0	
373	99	346	13:57:12.266	488CD6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,296,788:06:0	
374	99	346	14:16:24.266	488CD6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,296,807:05:0	
375	99	346	14:35:36.266	488CD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,296,826:04:0	
376	99	346	15:35:20.266	488CD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,296,885:11:0	
377	99	347	01:12:08.933	488CE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,297,455:54:0	
378	99	347	01:38:58.266	488CE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,297,482:11:0	
379	99	347	06:32:10.933	488CE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,297,772:10:0	
380	99	347	06:59:00.266	488CE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,297,798:58:0	
381	99	347	07:14:00.266	488CF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,297,813:43:0	
382	99	347	07:35:35.600	488CF6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,297,834:75:0	
383	99	347	07:37:28.266	488CF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,297,836:62:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	347	12:21:18.200	488CF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,298,117:36:0	
385	99	347	13:52:56.200	488CG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,298,208:02:0	
386	99	347	14:15:46.866	488CG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,298,230:56:0	
387	99	347	14:16:24.200	488CG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,298,231:21:0	
388	99	347	14:24:56.200	488CG6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,298,239:61:0	
389	99	347	20:02:08.866	488CH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,298,573:16:0	
390	99	347	21:15:51.533	488CH6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,298,646:07:0	
391	99	347	21:44:57.533	488CH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,298,674:78:0	
392	99	348	00:30:48.200	488CH6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,298,838:80:0	
393	99	348	00:50:00.200	488CH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,298,857:79:0	
394	99	348	01:52:16.866	488CI6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,298,919:42:0	
395	99	348	02:24:06.200	488CI6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,298,950:85:0	
396	99	348	07:02:17.533	488CI6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,299,226:06:0	
397	99	348	07:22:32.200	488CI6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,299,246:08:0	
398	99	348	07:27:02.200	488CI6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,299,250:49:0	
399	99	348	07:57:50.200	176SF6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,299,281:00:0	
400	**99**	**348**	**08:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**5,299,283:12:7**	
401	**99**	**348**	**08:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**5,299,283:12:7**	
402	**99**	**348**	**08:00:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,299,283:12:7**	
403	**99**	**348**	**08:00:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**5,299,283:12:7**	
404	**99**	**348**	**08:00:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,299,283:12:7**	
405	**99**	**348**	**08:00:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,299,283:12:7**	
406	**99**	**348**	**08:00:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,299,283:12:7**	
407	**99**	**348**	**08:00:00.000**	**20A3FE**	**40T1P**	**Final Condition**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**5,299,283:12:7**	
408	**99**	**348**	**08:00:00.000**	**20A3FF**	**40T2**	**Final Condition**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**5,299,283:12:7**	
409	99	348	08:00:00.200		DMS:	: READY	RDY, TRACK 4, REV, TIC -10.13 +/-	4O0	4	0	5,299,283:13:0	

Sequence: 5BDE + NIMROD + IAPs   Created: 12/8/99   Begin: 99-348/08:00:00   Finish: 00-001/23:30:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	99	348	08:00:00.000	20A3FF	40T2	CMD,40T2,20A3FF,	PCT Heater 2 ON	4O0	4	0	5,299,283:12:7	
2	99	348	08:00:00.000	20A3EW	37A	CMD,37A,20A3EW,,	NIMS Power ON	4O0	4	0	5,299,283:12:7	
3	99	348	08:00:00.000	20A3EX	37HR	CMD,37HR,20A3EX,	Replacement Heaters OFF	4O0	4	0	5,299,283:12:7	
4	99	348	08:00:00.000	20A3EY	37C1PR	CMD,37C1PR,20A3E	Optics Heater 1 OFF (primary relay)	4O0	4	0	5,299,283:12:7	
5	99	348	08:00:00.000	20A3EZ	37C2PR	CMD,37C2PR,20A3E	Optics Heater 2 OFF (primary relay)	4O0	4	0	5,299,283:12:7	
6	99	348	08:00:00.000	20A3FA	37F1PR	CMD,37F1PR,20A3F	Radiator Flash Heater OFF (primary relay)	4O0	4	0	5,299,283:12:7	
7	99	348	08:00:00.000	20A3FB	37F2PR	CMD,37F2PR,20A3F	Shield Flash Heater OFF (primary relay)	4O0	4	0	5,299,283:12:7	
8	99	348	08:00:00.000	20A3FD	40HRPR	CMD,40HRPR,20A3F	RCT Heater OFF (primary relay)	4O0	4	0	5,299,283:12:7	
9	99	348	08:00:00.000	20A3FE	40T1P	CMD,40T1P,20A3FE	PCT Heater 1 ON (primary relay)	4O0	4	0	5,299,283:12:7	
10	99	348	08:00:00.200		DMS:	: READY	RDY, TRACK 2, REV, TIC 365.79 +/- 8	4O0	4	0	5,299,283:13:0	
11	99	348	08:00:56.200	488AA6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,299,284:06:0	
12	99	348	08:01:51.533	432NA6B	6RTDS2	NIMDSL,AACDSL,RT	NIMS R/T DESELECTAACS DESELECT	4O0	4	0	5,299,284:89:0	
13	99	348	08:05:04.200	20WA4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,299,288:14:0	
14	99	348	08:05:54.200	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,299,288:89:0	
15	99	348	08:07:56.866	176SE6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,299,291:00:0	
16	99	348	08:20:26.866	488AA6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,299,303:33:0	
17	99	348	08:22:16.200	488AA6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,299,305:15:0	
18	99	348	09:26:48.866	176QC6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,299,369:00:0	
19	99	348	09:31:20.200	20UL4B	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	5,299,373:43:0	
20	99	348	09:50:20.200	20UL4D	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	5,299,392:24:0	
21	99	348	12:16:10.200	488AA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,299,536:45:0	
22	99	348	12:37:00.200	20UL4F	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	5,299,557:09:0	
23	99	348	12:38:00.200	488AA6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,299,558:08:0	
24	99	348	12:49:00.200	20BA4AA	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,299,568:88:0	
25	99	348	12:49:12.200	20BA6AA	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	4O0	4	0	5,299,569:15:0	
26	99	348	12:55:00.200	474BA416A4B	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	5,299,574:82:0	
27	99	348	12:57:00.200	474BA416A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4O0	4	0	5,299,576:80:0	
28	99	348	12:57:20.200	20BA4AD	7STAT	17.45,320.3613,-	Stator inertial point	4O0	4	0	5,299,577:19:0	
29	99	348	13:01:14.200	474BA416A4E	7BURN	320.361298,-76.8	ALERT -- Thruster fire	4O0	4	0	5,299,581:06:0	
30	99	348	13:46:32.200	488AB6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,299,625:79:0	
31	99	348	13:53:30.200	20BA4AF	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,299,632:69:0	
32	99	348	13:59:22.200	20BA4AG	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	5,299,638:51:0	
33	99	348	14:05:44.200	488AB6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,299,644:78:0	
34	99	348	14:06:14.200	20BE6A	6TMSED	NORM,BA4	Sci, Eng, and D/L Chan	4O0	4	0	5,299,645:32:0	
35	99	348	14:21:38.200	20BA4AK	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,299,660:53:0	
36	99	348	14:21:50.200	20BA6AB	6MROH	7,6744,0,A40	read from AACSA7,6744,0,A40	4O0	4	0	5,299,660:71:0	
37	99	348	14:27:38.200	20BA4AM	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	5,299,666:47:0	
38	99	348	14:29:38.200	474BA416A4I	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,299,668:45:0	
39	99	348	14:54:48.200	488AB6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,299,693:35:0	
40	99	348	15:25:57.533	488AB6D	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,299,724:18:0	
41	99	348	15:55:03.533	488AB6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,299,752:89:0	
42	99	348	16:00:54.200	20BA4AO	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,299,758:69:0	
43	99	348	16:05:46.200	20BA4AP	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	5,299,763:52:0	
44	99	348	17:13:02.200	20BA4AV	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,299,830:09:0	
45	99	348	17:13:14.200	20BA6AC	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	4O0	4	0	5,299,830:27:0	
46	99	348	17:19:02.200	20BA4AX	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	5,299,836:03:0	
47	99	348	17:21:02.200	474BA416A4O	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,299,838:01:0	
48	99	348	18:52:18.133	20BA4AZ	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,299,928:25:0	
49	99	348	18:57:10.133	20BA4BA	7MODE	CRU	AACS CRUISE MODE	4O0	4	0	5,299,933:08:0	
50	99	348	20:04:26.133	20BA4BG	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,299,999:56:0	
51	99	348	20:04:38.133	20BA6AD	6MROH	7,6744,0,A10	read from AACSA7,6744,0,A10	4O0	4	0	5,299,999:74:0	
52	99	348	20:10:26.133	20BA4BI	7MODE	INT	AACS INERTIAL MODE	4O0	4	0	5,300,005:50:0	
53	99	348	20:12:26.133	474BA416A4U	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,300,007:48:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	99	348	21:43:42.133	20BA4BK	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,300,097:72:0
55	99	348	21:48:34.133	20BA4BL	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,300,102:55:0
56	99	348	22:55:50.133	20BA4BR	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,300,169:12:0
57	**99**	**348**	**22:56:02.133**	**20BA6AE**	**6MROH**	**7,6744,0,A10**	**read from AACSA7,6744,0,A10**	**4O0**	**4**	**0**	**5,300,169:30:0**
58	99	348	23:01:50.133	20BA4BT	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,300,175:06:0
59	99	348	23:03:50.133	474BA416A4AA	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,300,177:04:0
60	99	348	23:50:59.466	488AC6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,223:62:0
61	99	349	00:11:36.133	488AC6B	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,300,244:06:0
62	99	349	00:21:48.133	488AC6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,300,254:14:0
63	99	349	00:21:49.466	20BE6B	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4O0	4	0	5,300,254:16:0
64	99	349	00:35:06.133	20BA4BV	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,300,267:28:0
65	99	349	00:39:58.133	20BA4BW	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,300,272:11:0
66	99	349	01:47:14.133	20BA4CC	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,300,338:59:0
67	**99**	**349**	**01:47:26.133**	**20BA6AF**	**6MROH**	**7,6744,0,A40**	**read from AACSA7,6744,0,A40**	**4O0**	**4**	**0**	**5,300,338:77:0**
68	99	349	01:53:14.133	20BA4CE	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,300,344:53:0
69	99	349	01:55:14.133	474BA416A4AG	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,300,346:51:0
70	99	349	03:26:30.133	20BA4CG	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,300,436:75:0
71	99	349	03:31:22.133	20BA4CH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,300,441:58:0
72	99	349	04:38:38.133	20BC4CN	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,300,508:15:0
73	**99**	**349**	**04:38:50.133**	**20BC6AG**	**6MROH**	**7,6744,0,A40**	**read from AACSA7,6744,0,A40**	**4O0**	**4**	**0**	**5,300,508:33:0**
74	99	349	04:42:32.133	488AC6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,300,512:02:0
75	99	349	04:44:38.133	20BC4CP	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,300,514:09:0
76	99	349	04:46:38.133	474BA416A4AM	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,300,516:07:0
77	99	349	05:18:48.133	488AC6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,547:81:0
78	99	349	05:46:01.466	488AD6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,574:74:0
79	99	349	06:17:54.133	20BC4CR	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,300,606:31:0
80	99	349	06:20:07.466	488AD6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,608:49:0
81	99	349	06:22:46.133	20BC4CS	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,300,611:14:0
82	99	349	07:30:02.133	20BC4CY	7STAT	10.00,320.3613,-	Stator inertial point	4O0	4	0	5,300,677:62:0
83	**99**	**349**	**07:30:14.133**	**20BC6AH**	**6MROH**	**7,6744,0,A10**	**read from AACSA7,6744,0,A10**	**4O0**	**4**	**0**	**5,300,677:80:0**
84	99	349	07:36:02.133	20BC4DA	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,300,683:56:0
85	99	349	07:38:02.133	474BA416A4AS	7BURN	0.361298,-76.876	ALERT -- Thruster fire	4O0	4	0	5,300,685:54:0
86	99	349	08:13:44.133	488AD6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,300,720:82:0
87	99	349	08:14:14.133	20BE6C	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4O0	4	0	5,300,721:36:0
88	99	349	08:58:38.800	488AD6D	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,300,765:29:0
89	99	349	09:00:40.133	488AD6E	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,767:29:0
90	99	349	09:08:58.800	20BC4DC	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,300,775:49:0
91	99	349	09:13:50.800	20BC4DD	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,300,780:32:0
92	99	349	09:20:41.466	20BE6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,787:11:0
93	99	349	10:45:22.800	20BB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,300,870:80:0
94	99	349	10:46:12.800	20BB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,300,871:64:0
95	99	349	10:47:31.466	176BA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,300,873:00:0
96	99	349	12:31:56.800	488AE6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,300,976:25:0
97	99	349	13:31:36.133	488AE6B	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	5,301,035:25:0
98	99	349	13:41:12.800	488AE6C	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	4O0	4	0	5,301,044:71:0
99	99	349	14:18:16.800	488AE6D	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	4O0	4	0	5,301,081:40:0
100	99	349	14:20:40.133	488AE6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,301,083:73:0
101	99	349	15:09:44.133	488AF6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,301,132:30:0
102	99	349	15:11:04.800	488AF6B	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,301,133:60:0
103	99	349	16:00:10.800	488AF6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,301,182:20:0
104	99	349	18:46:00.133	488AF6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,301,346:20:0
105	99	349	18:46:47.466	176QD6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,301,347:00:0
106	99	349	18:50:00.133	444SA443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,301,350:16:0
107	99	349	18:55:04.133	20UE4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,301,355:17:0
108	99	349	18:55:54.133	20UE4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,301,356:01:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	99	349	18:57:54.800	176SQ6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,301,358:00:0	
110	99	349	21:32:40.000	RNMRD3_RBS		-----START------		4O0	4	0	: :	
111	99	349	21:33:21.466	20NA3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	4O0	4	0	5,301,511:67:0	
112	99	349	21:33:21.466	20NA3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	4O0	4	0	5,301,511:67:0	
113	99	349	21:33:28.133	20NA3C	40T2R	1	PCT Heater 2 OFF	4O0	4	0	5,301,511:77:0	
114	99	349	21:33:28.133	20NA3D	40T2R	2	PCT Heater 2 OFF	4O0	4	0	5,301,511:77:0	
115	99	349	21:33:41.466	20NA3G	37C1P	1	Optics Heater 1 ON (primary relay)	4O0	4	0	5,301,512:06:0	
116	99	349	21:33:41.466	20NA3H	37C1P	2	Optics Heater 1 ON (primary relay)	4O0	4	0	5,301,512:06:0	
117	99	349	21:34:50.800	20NA4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,301,513:19:0	
118	99	349	21:35:51.466	20NA4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	4R0	4	0	5,301,514:19:0	
119	99	349	21:36:52.133	20NA4C	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R0	4	0	5,301,515:19:0	
120	99	349	21:38:36.133	20NA4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	5,301,516:84:0	
121	99	349	21:39:37.466	20NA4E	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	4R0	4	0	5,301,517:85:0	
122	99	349	21:39:54.133	20NA4F	37IOP	8,11	Band Edge Map, Grating Start Position =11	4R8	4	11	5,301,518:19:0	
123	99	349	21:40:54.800	20NA4G	37MPT	1,139,151	Modify Parameter Table (affects scanning m	4R8	4	11	5,301,519:19:0	
124	99	349	21:43:44.133	20NA6A	6MROH	37,150F,0,A10	read from NIMS37,150F,0,A1	4R8	4	11	5,301,522:00:0	
125	99	349	22:44:24.133	20NA6B	6MROH	37,150F,0,A10	read from NIMS37,150F,0,A1	4R8	4	11	5,301,582:00:0	
126	99	349	22:51:02.133	20NC6B	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4R8	4	11	5,301,588:51:0	
127	99	349	23:45:04.133	20NA6C	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	4R8	4	11	5,301,642:00:0	
128	99	350	00:39:20.800	20NC6C	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	4R8	4	11	5,301,695:62:0	
129	99	350	00:45:44.133	20NA6D	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	4R8	4	11	5,301,702:00:0	
130	99	350	01:46:24.066	20NA6E	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	4R8	4	11	5,301,762:00:0	
131	99	350	02:47:04.066	20NA6F	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	4R8	4	11	5,301,822:00:0	
132	99	350	03:00:00.066	RNMLDA_DAC		-----START------		4R8	4	11	: :	
133	99	350	03:00:43.400	RNMLDA_DAC		-----STOP-------		4R8	4	11	: :	
134	99	350	03:47:44.066	20NA6G	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	4R8	4	11	5,301,882:00:0	
135	99	350	04:07:00.000	IAP_99S401		-----START------		4R8	4	11	: :	
136	99	350	04:17:04.066	31CA3A	37AR	1	NIMS Power OFF				5,301,911:01:0	
137	99	350	04:17:17.400	31CA3B	37AR	2	NIMS Power OFF				5,301,911:21:0	
138	99	350	04:17:30.733	31CA3C	37H	1	Replacement Heaters ON				5,301,911:41:0	
139	99	350	04:17:44.066	31CA3D	37H	2	Replacement Heaters ON				5,301,911:61:0	
140	99	350	04:18:44.066	31CA3E	37HR	1	Replacement Heaters OFF				5,301,912:60:0	
141	99	350	04:18:57.400	31CA3F	37HR	2	Replacement Heaters OFF				5,301,912:80:0	
142	99	350	04:19:10.733	31CA3G	37A	1	NIMS Power ON	260	4	0	5,301,913:09:0	
143	99	350	04:19:24.066	31CA3H	37A	1	NIMS Power ON	260	4	0	5,301,913:29:0	
144	99	350	04:19:25.000	IAP_99S401		-----STOP-------		260	4	0	: :	
145	99	350	04:36:09.400	20NC6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	260	4	0	5,301,929:81:0	
146	99	350	04:48:24.066	20NA6H	6MROH	37,150F,0,A10	read from NIMS37,150F,0,A1	260	4	0	5,301,942:00:0	
147	99	350	05:04:22.066	20NC6E	6TMSED	NORM,BA6	Sci, Eng, and D/L Chan	260	4	0	5,301,957:72:0	
148	99	350	05:44:55.000	IAP_99S402		-----START------		260	4	0	: :	
149	99	350	05:44:56.066	20ZA4A	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	260	4	0	5,301,997:83:0	
150	99	350	05:45:56.733	20ZA4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,301,998:83:0	
151	99	350	05:46:57.400	20ZA4A	37IOP	8,11	Band Edge Map, Grating Start Position =11	2R8	4	11	5,301,999:83:0	
152	99	350	05:47:58.066	20ZA4A	37MPT	1,139,151	Modify Parameter Table (affects scanning m	2R8	4	11	5,302,000:83:0	
153	99	350	05:47:59.000	IAP_99S402		-----STOP-------		2R8	4	11	: :	
154	99	350	05:49:04.066	20NA6I	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	2R8	4	11	5,302,002:00:0	
155	99	350	06:29:30.733	20NA6J	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	2R8	4	11	5,302,042:00:0	
156	99	350	06:49:44.066	20NA6K	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	2R8	4	11	5,302,062:00:0	
157	99	350	07:09:57.400	20NA6L	6MROH	37,150F,0,A40	read from NIMS37,150F,0,A4	2R8	4	11	5,302,082:00:0	
158	99	350	07:20:25.400	20NC6F	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2R8	4	11	5,302,092:32:0	
159	99	350	07:30:10.733	20NA6N	6MROH	37,150F,0,A10	read from NIMS37,150F,0,A1	2R8	4	11	5,302,102:00:0	
160	99	350	07:33:20.733	20NB6A	6MROH	37,150F,0,A10	read from NIMS37,150F,0,A1	2R8	4	11	5,302,105:12:0	
161	99	350	07:41:22.066	20NA3J	37C1PR	2	Optics Heater 1 OFF (primary relay)	2R8	4	11	5,302,113:06:0	
162	99	350	07:41:22.066	20NA3I	37C1PR	1	Optics Heater 1 OFF (primary relay)	2R8	4	11	5,302,113:06:0	
163	99	350	07:43:19.400	176NB6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	2R8	4	11	5,302,115:00:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	**99**	**350**	**07:44:28.066**	**20NB6B**	**6MROH**	**37,150F,0,A10**	**read from NIMS37,150F,0,A1**	**2R8**	**4**	**11**	**5,302,116:12:0**	
165	**99**	**350**	**07:46:16.733**	**20NB4A**	**37IST**	**0,2,1,OFF,1,0,1**	**OPCAL**	**2R8**	**4**	**11**	**5,302,117:84:0**	
166	**99**	**350**	**07:46:18.066**	**20NB6C**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**2R8**	**4**	**11**	**5,302,117:86:0**	
167	**99**	**350**	**07:48:18.066**	**20NB4B**	**37IST**	**0,2,1,ON,0,1,0**	**ECALGain State 2**	**2R8**	**4**	**11**	**5,302,119:84:0**	
168	**99**	**350**	**07:51:21.400**	**20NB6D**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**2R8**	**4**	**11**	**5,302,122:86:0**	
169	**99**	**350**	**07:53:34.066**	**20NB6E**	**6MROH**	**37,150F,0,A10**	**read from NIMS37,150F,0,A1**	**2R8**	**4**	**11**	**5,302,125:12:0**	
170	**99**	**350**	**07:54:22.066**	**20NB4C**	**37IST**	**1,0,0,OFF,0,0,1**	**Chopper ON, Sync, 63Hz (Ref)**	**268**	**4**	**11**	**5,302,125:84:0**	
171	**99**	**350**	**07:55:22.733**	**20NB4D**	**37IST**	**1,1,0,OFF,0,0,1**	**Chopper OFF, N/A, 63Hz (Ref)**	**2O8**	**4**	**11**	**5,302,126:84:0**	
172	**99**	**350**	**07:56:23.400**	**20NB4E**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**2O8**	**4**	**11**	**5,302,127:84:0**	
173	**99**	**350**	**07:57:24.733**	**20NB4F**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**2O8**	**4**	**11**	**5,302,128:85:0**	
174	**99**	**350**	**07:58:24.733**	**20NB4G**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**2O0**	**4**	**0**	**5,302,129:84:0**	
175	**99**	**350**	**08:03:40.733**	**20NB6F**	**6MROH**	**37,150F,0,A10**	**read from NIMS37,150F,0,A1**	**2O0**	**4**	**0**	**5,302,135:12:0**	
176	**99**	**350**	**10:00:41.000**	**RNMRD3_RBS**		**-----STOP-------**		**2O0**	**4**	**0**	**: :**	
177	99	350	12:15:56.066	488AI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,302,384:56:0	
178	99	350	13:35:52.066	488AI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,302,463:61:0	
179	99	350	14:01:28.066	488AI6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,302,488:90:0	
180	99	350	14:07:03.400	488AI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,302,494:47:0	
181	99	350	14:12:08.066	488AI6E	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	2O0	4	0	5,302,499:49:0	
182	99	350	14:27:04.066	488AJ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,302,514:28:0	
183	99	350	20:41:47.400	488AK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,302,884:83:0	
184	99	350	21:56:13.400	488AK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,302,958:48:0	
185	99	350	22:25:19.400	488AK6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,302,987:28:0	
186	99	351	00:15:52.066	488AK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,303,096:58:0	
187	99	351	00:59:53.400	488AK6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,303,140:16:0	
188	99	351	01:09:12.066	488AL6A	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,303,149:35:0	
189	99	351	07:39:56.733	488AM6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,303,535:76:0	
190	99	351	11:10:48.000	488AM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,303,744:34:0	
191	99	351	13:31:36.000	488AM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,303,883:57:0	
192	99	351	13:57:12.000	488AN6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,303,908:86:0	
193	99	351	13:59:10.000	488AN6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,303,910:81:0	
194	99	351	14:05:44.000	488AN6C	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	2O0	4	0	5,303,917:35:0	
195	99	351	14:42:00.000	488AN6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,303,953:23:0	
196	99	352	00:25:45.333	488AO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,304,530:54:0	
197	99	352	02:41:39.333	176VA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,304,665:00:0	
198	99	352	02:47:43.333	465WK6A	6DMST	5000	DMS Slew to TIC	2O0	4	0	5,304,671:00:0	
199	99	352	02:47:43.333		DMS:	: *SLEW-TIC	P7, TRACK *1, *FWD, TIC 365.79 +/- 8	2O0	4	0	5,304,671:00:0	
200	99	352	02:47:43.333		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 365.79 +/- 8	2O0	4	0	5,304,671:00:0	
201	99	352	02:47:50.000		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 365.79 +/- 8	2O0	4	0	5,304,671:10:0	
202	99	352	02:47:51.400		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 365.91 +/- 8	2O0	4	0	5,304,671:12:1	
203	99	352	04:31:52.000	488AO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,304,774:00:0	
204	99	352	05:08:08.000	488AO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,304,809:79:0	
205	99	352	05:41:22.666	488AO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,304,842:68:0	
206	**99**	**352**	**05:41:29.333**	**31XN5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,304,842:78:0**	
207	**99**	**352**	**05:41:32.000**	**31XN5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,304,842:82:0**	
208	**99**	**352**	**05:41:34.666**	**31XN6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,304,842:86:0**	
209	**99**	**352**	**05:41:48.000**	**31XN6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,304,843:15:0**	
210	**99**	**352**	**05:42:01.333**	**31XN5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,304,843:35:0**	
211	**99**	**352**	**05:42:04.666**	**31XN5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,304,843:40:0**	
212	99	352	06:10:28.666	488AO6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	5,304,871:48:0	
213	99	352	08:17:13.466		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/- 8	260	4	0	5,304,996:80:2	
214	99	352	08:17:14.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/- 8	260	4	0	5,304,996:82:0	
215	99	352	08:41:24.666	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	260	4	0	5,305,020:73:0	
216	99	352	08:41:24.666		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/- 8	260	4	0	5,305,020:73:0	
217	99	352	08:41:26.066		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/- 8	260	4	0	5,305,020:75:1	
218	99	352	08:41:31.333		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/- 8	260	4	0	5,305,020:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	352	08:41:32.533		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/- 8	260	4	0	5,305,020:84:8	
220	99	352	08:41:36.400		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/- 8	260	4	0	5,305,020:90:6	
221	99	352	08:41:36.400		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/- 8	260	4	0	5,305,020:90:6	
222	99	352	09:07:16.666	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	260	4	0	5,305,046:35:0	
223	99	352	09:07:16.666		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/- 8	260	4	0	5,305,046:35:0	
224	99	352	09:07:17.866		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/- 8	260	4	0	5,305,046:36:8	
225	99	352	11:06:05.333	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	260	4	0	5,305,163:81:0	
226	99	352	11:06:05.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/- 8	260	4	0	5,305,163:81:0	
227	99	352	11:06:05.333		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/- 8	260	4	0	5,305,163:81:0	
228	99	352	11:06:06.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/- 8	260	4	0	5,305,163:83:1	
229	99	352	11:06:12.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/- 8	260	4	0	5,305,164:00:0	
230	99	352	11:06:13.200		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/- 8	260	4	0	5,305,164:01:8	
231	99	352	11:06:14.600		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/- 8	260	4	0	5,305,164:03:9	
232	99	352	11:10:09.333	488AP6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	260	4	0	5,305,167:83:0	
233	99	352	11:10:15.266		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 8	260	4	0	5,305,168:00:9	
234	99	352	11:10:16.466		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 8	260	4	0	5,305,168:02:7	
235	99	352	11:10:16.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 8	260	4	0	5,305,168:02:7	
236	99	352	11:10:17.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	260	4	0	5,305,168:04:8	
237	99	352	11:10:29.866		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	260	4	0	5,305,168:22:8	
238	99	352	11:10:31.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	260	4	0	5,305,168:24:6	
239	99	352	11:16:08.000	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	260	4	0	5,305,173:75:0	
240	99	352	11:16:08.000		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	260	4	0	5,305,173:75:0	
241	99	352	11:16:14.666		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	260	4	0	5,305,173:85:0	
242	99	352	11:16:18.533		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	260	4	0	5,305,173:90:8	
243	99	352	11:16:18.533		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	260	4	0	5,305,173:90:8	
244	99	352	11:48:02.000	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	260	4	0	5,305,205:34:0	
245	99	352	11:48:02.000		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	260	4	0	5,305,205:34:0	
246	99	352	11:48:03.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	260	4	0	5,305,205:35:8	
247	99	352	12:03:38.000	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	260	4	0	5,305,220:73:0	
248	99	352	12:03:38.000		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	260	4	0	5,305,220:73:0	
249	99	352	12:03:39.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	260	4	0	5,305,220:75:1	
250	99	352	12:03:44.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	260	4	0	5,305,220:83:0	
251	99	352	12:03:45.866		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	260	4	0	5,305,220:84:8	
252	99	352	12:03:49.733		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	260	4	0	5,305,220:90:6	
253	99	352	12:03:49.733		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	260	4	0	5,305,220:90:6	
254	99	352	12:35:46.000	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	260	4	0	5,305,252:53:0	
255	99	352	12:35:46.000		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	260	4	0	5,305,252:53:0	
256	99	352	12:35:47.200		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	260	4	0	5,305,252:54:8	
257	99	352	12:35:51.066		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	260	4	0	5,305,252:60:6	
258	99	352	12:35:51.066		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	260	4	0	5,305,252:60:6	
259	99	352	13:07:46.666	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	260	4	0	5,305,284:22:0	
260	99	352	13:07:46.666		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	260	4	0	5,305,284:22:0	
261	99	352	13:07:47.866		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	260	4	0	5,305,284:23:8	
262	99	352	13:16:40.000	488AP6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	260	4	0	5,305,293:03:0	
263	99	352	13:22:30.000	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	260	4	0	5,305,298:73:0	
264	99	352	13:22:30.000		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	260	4	0	5,305,298:73:0	
265	99	352	13:22:31.400		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	260	4	0	5,305,298:75:1	
266	99	352	13:22:36.666		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	260	4	0	5,305,298:83:0	
267	99	352	13:22:37.866		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	260	4	0	5,305,298:84:8	
268	99	352	13:22:41.733		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	260	4	0	5,305,298:90:6	
269	99	352	13:22:41.733		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	260	4	0	5,305,298:90:6	
270	99	352	13:24:29.333	488AP6C	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	260	4	0	5,305,300:70:0	
271	99	352	13:31:36.000	488AP6D	6TMSED	FILL,AH3	Sci, Eng, and D/L Chan	260	4	0	5,305,307:73:0	
272	99	352	13:44:41.333	488AP6E	6TMSED	NORM,AH3	Sci, Eng, and D/L Chan	260	4	0	5,305,320:68:0	
273	99	352	13:54:37.333		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	260	4	0	5,305,330:52:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
274	99	352	13:54:37.333	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	260	4	0	5,305,330:52:0
275	99	352	13:54:38.533		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	260	4	0	5,305,330:53:8
276	99	352	13:54:42.400		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	260	4	0	5,305,330:59:6
277	99	352	13:54:42.400		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	260	4	0	5,305,330:59:6
278	99	352	13:55:04.000	488AQ6A	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	260	4	0	5,305,331:01:0
279	99	352	13:55:43.333		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	260	4	0	5,305,331:60:0
280	99	352	13:55:43.333	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	260	4	0	5,305,331:60:0
281	99	352	13:55:44.533		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	260	4	0	5,305,331:61:8
282	99	352	13:56:59.333	488AQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	5,305,332:83:0
283	99	352	14:10:13.333		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	260	4	0	5,305,346:00:0
284	99	352	14:10:13.333	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	260	4	0	5,305,346:00:0
285	99	352	14:11:07.333		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	260	4	0	5,305,346:81:0
286	99	352	14:11:07.333	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	260	4	0	5,305,346:81:0
287	99	352	14:11:07.333		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	260	4	0	5,305,346:81:0
288	99	352	14:11:08.733		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	260	4	0	5,305,346:83:1
289	99	352	14:11:14.000		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	260	4	0	5,305,347:00:0
290	99	352	14:11:15.200		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	260	4	0	5,305,347:01:8
291	99	352	14:11:16.600		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	260	4	0	5,305,347:03:9
292	99	352	14:22:42.400		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	260	4	0	5,305,358:31:6
293	99	352	14:22:43.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	260	4	0	5,305,358:33:4
294	99	352	14:22:43.600		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	260	4	0	5,305,358:33:4
295	99	352	14:22:45.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	260	4	0	5,305,358:35:5
296	99	352	14:22:57.000		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	260	4	0	5,305,358:53:5
297	99	352	14:22:58.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	260	4	0	5,305,358:55:3
298	99	352	14:38:04.000	20VP4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	260	4	0	5,305,373:49:0
299	99	352	14:38:39.333	488AQ6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	260	4	0	5,305,374:11:0
300	99	352	14:38:54.000	20VP4B	7SLEW	DIS,POS,0.0	Stator movement	260	4	0	5,305,374:33:0
301	99	352	14:40:33.333	176VB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	260	4	0	5,305,376:00:0
302	99	352	15:03:20.000	488AQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	260	4	0	5,305,398:48:0
303	99	352	15:30:31.333	488AQ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	5,305,425:38:0
304	99	353	00:00:55.933	488AR6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	5,305,930:20:0
305	99	353	00:59:39.266	488AR6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	260	4	0	5,305,988:27:0
306	99	353	01:09:11.933	488AR6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	260	4	0	5,305,997:67:0
307	99	353	03:05:37.266	20UU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	260	4	0	5,306,112:80:0
308	99	353	07:30:15.933	20UU6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	260	4	0	5,306,374:56:0
309	99	353	17:45:33.266	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	260	4	0	5,306,983:13:0
310	99	353	17:59:37.933	41XE99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	260	4	0	5,306,997:06:0
311	**99**	**353**	**17:59:37.933**	**25NNRCTRLT01-**		**-----START------**		**260**	**4**	**0**	**: :**
312	**99**	**353**	**17:59:41.933**	**41XE3I**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**260**	**4**	**0**	**5,306,997:12:0**
313	**99**	**353**	**17:59:51.933**	**41XE3J**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**260**	**4**	**0**	**5,306,997:27:0**
314	**99**	**353**	**18:00:01.933**	**41XE3K**	**40T2R**	**1**	**PCT Heater 2 OFF**	**260**	**4**	**0**	**5,306,997:42:0**
315	**99**	**353**	**18:00:11.933**	**41XE3L**	**40T2R**	**2**	**PCT Heater 2 OFF**	**260**	**4**	**0**	**5,306,997:57:0**
316	99	353	18:10:41.266	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	260	4	0	5,307,008:00:0
317	99	353	18:13:47.266	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	260	4	0	5,307,011:06:0
318	99	353	18:17:53.933	20DD4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	260	4	0	5,307,015:12:0
319	99	353	18:18:43.933	20DD4B	7SLEW	DIS,POS,0.0	Stator movement	260	4	0	5,307,015:87:0
320	99	353	18:20:47.933	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	260	4	0	5,307,018:00:0
321	**99**	**353**	**18:21:48.600**	**185XE10A3A**	**40HRP**	**1**	**RCT Heater ON (primary relay)**	**260**	**4**	**0**	**5,307,019:00:0**
322	**99**	**353**	**18:21:53.933**	**185XE10B3A**	**40HRP**	**2**	**RCT Heater ON (primary relay)**	**260**	**4**	**0**	**5,307,019:08:0**
323	99	353	23:16:07.933	488AS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	260	4	0	5,307,310:08:0
324	99	354	00:35:03.933	488AT6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	260	4	0	5,307,388:14:0
325	99	354	00:49:31.933	488AT6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	260	4	0	5,307,402:42:0
326	99	354	00:58:31.933	488AT6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	260	4	0	5,307,411:33:0
327	99	354	05:25:30.533	488AT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	260	4	0	5,307,675:37:0
328	**99**	**354**	**06:16:35.200**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,307,725:84:0**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
329	99	354	06:16:35.200	125XE	NIMSINIT	GS	##### GROUP START INIT	260	4	0	5,307,725:84:0
330	99	354	06:17:35.866	125XE4B	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,307,726:84:0
331	99	354	06:18:36.533	125XE4C	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R0	4	0	5,307,727:84:0
332	99	354	06:19:37.200	125XE4D	37MB	1B,1B,0,0,0,0	Selects mirror (spatial) edit table	1R0	4	0	5,307,728:84:0
333	99	354	06:19:37.200	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	5,307,728:84:0
334	99	354	06:21:38.533	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	5,307,730:84:0
335	99	354	06:21:38.533	127XE4A	37IOP	3,0	Long Map, Grating Start Position =00	1R3	4	0	5,307,730:84:0
336	99	354	06:21:39.200	127XE4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	5,307,730:85:0
337	99	354	06:21:47.200	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	5,307,731:06:0
338	99	354	06:25:45.866	176XE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	5,307,735:00:0
339	99	354	06:27:47.866	20UA4A	7SCAN	NORM,32.29772,11	Check S/P Position	1R3	4	0	5,307,737:01:0
340	99	354	06:31:49.866	192XE4A	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	5,307,741:00:0
341	99	354	06:34:11.200	432XE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,307,743:30:0
342	99	354	06:35:10.533	432XF6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,307,744:28:0
343	99	354	06:37:53.866	192XE4B	7CONE	17.0,0.0	Check S/P Position	1R3	4	0	5,307,747:00:0
344	99	354	06:40:15.200	432XU6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,307,749:30:0
345	99	354	06:42:15.200	432XV6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,307,751:28:0
346	99	354	06:43:57.866	192XE4C	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	5,307,753:00:0
347	99	354	06:45:59.200	185XE10C3A	40HRPR	1	RCT Heater OFF (primary relay)	1R3	4	0	5,307,755:00:0
348	99	354	06:46:04.533	185XE10D3A	40HRPR	2	RCT Heater OFF (primary relay)	1R3	4	0	5,307,755:08:0
349	99	354	06:46:19.200	432XW6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,307,755:30:0
350	99	354	06:47:18.533	432XY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,307,756:28:0
351	99	354	06:48:56.533	125DC11A	NIMSINIT	GE	##### GROUP END INIT	1R3	4	0	5,307,757:84:0
352	99	354	06:48:56.533	125DC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	5,307,757:84:0
353	99	354	06:48:56.533	125DC	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,307,757:84:0
354	99	354	06:49:57.200	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,307,758:84:0
355	99	354	06:49:57.200	127DC4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	5,307,758:84:0
356	99	354	06:49:57.866	127DC4B	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	5,307,758:85:0
357	99	354	06:50:01.866	192XE4D	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	5,307,759:00:0
358	99	354	06:50:05.866	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,307,759:06:0
359	99	354	06:50:21.866	432DC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,307,759:30:0
360	99	354	06:50:57.866	125DD4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	5,307,759:84:0
361	99	354	06:50:57.866	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,307,759:84:0
362	99	354	06:50:57.866	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,307,759:84:0
363	99	354	06:52:59.200	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,307,761:84:0
364	99	354	06:52:59.200	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,307,761:84:0
365	99	354	06:52:59.200	125DE4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	5,307,761:84:0
366	99	354	06:53:22.533	432DE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,307,762:28:0
367	99	354	06:57:01.866	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,307,765:84:0
368	99	354	06:57:01.866	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	5,307,765:84:0
369	99	354	06:57:02.533	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	5,307,765:85:0
370	99	354	06:57:10.533	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	5,307,766:06:0
371	99	354	07:00:03.866	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	5,307,768:84:0
372	99	354	07:00:03.866	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	5,307,768:84:0
373	99	354	07:01:04.533	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,307,769:84:0
374	99	354	07:02:05.200	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	5,307,770:84:0
375	99	354	07:02:05.200	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	5,307,770:84:0
376	99	354	07:08:17.866	41XU99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	5,307,777:06:0
377	99	354	07:10:11.866	41XU3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	5,307,778:86:0
378	99	354	07:10:21.866	41XU3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	5,307,779:10:0
379	99	354	07:10:31.866	41XU3I	40T2	1	PCT Heater 2 ON	4O0	4	0	5,307,779:25:0
380	99	354	07:10:41.866	41XU3J	40T2	2	PCT Heater 2 ON	4O0	4	0	5,307,779:40:0
381	99	354	07:15:22.599	25NNRCTRLT01-		-----STOP-------		4O0	4	0	: :
382	99	354	07:18:28.533	20DG4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,307,787:12:0
383	99	354	07:19:18.533	20DG4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,307,787:87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
384	99	354	07:21:22.533	176XF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,307,790:00:0	
385	99	354	07:28:55.866	488AU6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,307,797:43:0	
386	99	354	10:40:55.866	488AU6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,307,987:33:0	
387	99	354	13:16:39.866	488AU6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,308,141:35:0	
388	99	354	13:46:31.866	488AV6A	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,308,170:84:0	
389	99	354	13:46:37.866	488AV6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,308,171:02:0	
390	99	354	14:16:23.866	488AV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,308,200:42:0	
391	99	355	00:40:24.533	488AW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,308,817:56:0	
392	99	355	01:58:06.533	488AW6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,308,894:42:0	
393	99	355	02:24:56.533	488AW6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,308,921:00:0	
394	99	355	05:05:59.866	488AW6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,080:26:0	
395	99	355	07:31:44.533	488AX6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,224:39:0	
396	99	355	08:05:50.533	488AX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,258:14:0	
397	99	355	13:01:43.800	488AX6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,309,550:72:0	
398	99	355	13:43:57.133	488AY6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,309,592:50:0	
399	99	355	13:46:31.800	488AY6B	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,309,595:09:0	
400	99	355	14:01:27.800	488AY6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,609:79:0	
401	99	355	18:01:12.466	488AY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,846:89:0	
402	99	355	19:16:48.466	488AY6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,921:68:0	
403	99	355	19:42:59.800	488AZ6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,947:59:0	
404	99	355	19:45:54.466	488AZ6B	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,309,950:48:0	
405	99	355	19:46:23.133	176QE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,309,951:00:0	
406	99	355	23:16:49.800	488AZ6C	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,310,159:12:0	
407	99	355	23:50:55.800	488AZ6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,310,192:78:0	
408	99	356	00:32:55.800	488AZ6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,310,234:36:0	
409	99	356	01:50:59.800	488BA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,310,311:55:0	
410	99	356	01:51:23.800	176QB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,310,312:00:0	
411	99	356	04:16:55.800	488BA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,310,455:85:0	
412	99	356	04:48:55.800	488BA6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,310,487:53:0	
413	99	356	05:33:14.466	488BA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,310,531:37:0	
414	99	356	06:00:04.466	488BA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,310,557:86:0	
415	99	356	07:43:51.800	488BB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,310,660:54:0	
416	99	356	10:11:03.800	488BB6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,310,806:16:0	
417	99	356	13:05:59.800	488BB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,310,979:17:0	
418	99	356	13:40:07.800	488BB6D	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,311,012:86:0	
419	99	356	13:42:09.800	488BB6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,311,014:87:0	
420	99	356	14:01:27.800	488BC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,311,034:04:0	
421	99	356	19:40:11.066	488BC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,311,369:04:0	
422	99	356	20:58:18.400	488BD6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,311,446:28:0	
423	99	356	21:25:08.400	488BD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,311,472:77:0	
424	99	356	21:31:35.733	488BD6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,311,479:21:0	
425	99	356	21:52:59.733	488BD6D	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,311,500:36:0	
426	99	356	21:56:38.400	176UA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,311,504:00:0	
427	99	356	22:05:59.733	20SM4C	7STAT	10.00,203.62,-8.	Stator inertial point	4O0	4	0	5,311,513:23:0	
428	**99**	**356**	**22:06:11.733**	**20SM6D**	**6MROH**	**7,6744,0,A10**	**read from AACSA7,6744,0,A10**	**4O0**	**4**	**0**	**5,311,513:41:0**	
429	99	356	22:25:01.733	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,311,532:07:0	
430	99	356	22:29:59.733	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,311,536:90:0	
431	99	356	22:30:19.733	20SM4D	7STAT	17.45,203.62,-8.	Stator inertial point	4O0	4	0	5,311,537:29:0	
432	99	356	22:34:09.733	490UA412A4E	7VECT		Inert vect update UTC	4O0	4	0	5,311,541:10:0	
433	99	356	22:34:13.733	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	5,311,541:16:0	
434	99	356	22:38:01.733	490UA412A406A4A	7STAR	11,610,278.81	Star catalog update	4O0	4	0	5,311,544:85:0	
435	99	356	22:38:03.733	490UA412A406A4B	7STAR	2,317,120.46	Star catalog update	4O0	4	0	5,311,544:88:0	
436	99	356	22:38:05.733	490UA412A406A4C	7STAR	3,133,165.16	Star catalog update	4O0	4	0	5,311,545:00:0	
437	99	356	22:38:07.733	490UA412A406A4D	7STAR	4,0,0.0,0.0	Star catalog update	4O0	4	0	5,311,545:03:0	
438	99	356	22:38:09.733	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	5,311,545:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	356	22:38:11.733	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	5,311,545:09:0	
440	99	356	22:48:05.733	20SM4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,311,554:81:0	
441	99	356	22:56:09.733	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,311,562:79:0	
442	99	357	00:11:35.733	488BD6E	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,311,637:43:0	
443	99	357	00:30:03.733	20US4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,311,655:67:0	
444	99	357	00:30:53.733	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,311,656:51:0	
445	99	357	00:30:59.733	488BE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,311,656:60:0	
446	99	357	00:32:21.066	176UB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,311,658:00:0	
447	99	357	00:39:11.066	488BE6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,311,664:69:0	
448	99	357	00:47:51.733	488BE6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,311,673:31:0	
449	99	357	04:16:02.400	488BE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,311,879:21:0	
450	99	357	04:27:35.733	488BE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,311,890:60:0	
451	99	357	06:14:15.733	488BF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,311,996:14:0	
452	99	357	11:29:59.733	488BF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,312,308:38:0	
453	99	357	13:16:39.733	488BG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,312,413:83:0	
454	99	357	13:34:48.400	488BG6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,312,431:78:0	
455	99	357	13:35:51.733	488BG6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,312,432:82:0	
456	99	357	13:44:23.733	488BG6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,312,441:31:0	
457	99	357	20:20:04.400	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,312,832:61:0	
458	99	357	23:31:03.733	488BH6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,313,021:51:0	
459	99	358	00:28:39.733	488BH6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,313,078:48:0	
460	99	358	00:37:11.733	488BH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,086:88:0	
461	99	358	01:53:27.666	488BH6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,162:36:0	
462	99	358	02:20:17.000	488BI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,188:84:0	
463	99	358	02:56:45.666	176UY6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,313,225:00:0	
464	99	358	03:02:00.333	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,313,230:17:0	
465	99	358	03:03:00.333	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	5,313,231:16:0	
466	99	358	03:05:00.333	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,313,233:14:0	
467	99	358	03:10:30.333	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	5,313,238:54:0	
468	99	358	03:10:31.000	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	5,313,238:55:0	
469	99	358	03:10:51.000	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	5,313,238:85:0	
470	99	358	03:10:51.666	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	5,313,238:86:0	
471	99	358	03:11:11.666	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,313,239:25:0	
472	99	358	03:11:12.333	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,313,239:26:0	
473	99	358	03:11:22.333	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,313,239:41:0	
474	99	358	03:11:23.000	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,313,239:42:0	
475	99	358	03:11:33.000	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	5,313,239:57:0	
476	99	358	03:11:33.666	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	5,313,239:58:0	
477	99	358	03:13:20.333	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	5,313,241:36:0	
478	99	358	03:13:21.000	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	5,313,241:37:0	
479	99	358	03:13:41.000	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	5,313,241:67:0	
480	99	358	03:13:41.666	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	5,313,241:68:0	
481	99	358	03:14:01.666	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,313,242:07:0	
482	99	358	03:14:02.333	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,313,242:08:0	
483	99	358	03:14:12.333	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,313,242:23:0	
484	99	358	03:14:13.000	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,313,242:24:0	
485	99	358	03:14:23.000	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	5,313,242:39:0	
486	99	358	03:14:23.666	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	5,313,242:40:0	
487	99	358	03:15:20.333	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,313,243:34:0	
488	99	358	03:40:04.333	20UY4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,313,267:76:0	
489	99	358	03:40:54.333	20UY4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,313,268:60:0	
490	99	358	03:42:15.666	176UZ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,313,270:00:0	
491	99	358	04:06:15.666	488BI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,313,293:67:0	
492	99	358	04:27:35.666	488BI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,314:76:0	
493	99	358	05:28:28.333	488BI6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,375:04:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	358	05:55:18.333	488BI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,401:53:0	
495	99	358	06:18:31.666	488BJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,313,424:50:0	
496	99	358	11:21:27.666	488BJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,313,724:14:0	
497	99	358	13:10:15.666	488BK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,313,831:69:0	
498	99	358	13:31:35.666	488BK6B	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,313,852:78:0	
499	99	358	13:31:55.666	488BK6C	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,313,853:17:0	
500	99	358	13:52:55.666	488BK6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,313,873:87:0	
501	99	358	20:57:37.666	488BL6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,314,293:90:0	
502	99	358	21:08:07.666	488BL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,314,304:34:0	
503	99	358	21:37:59.666	488BL6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,314,333:83:0	
504	99	359	03:59:51.666	488BM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,314,711:53:0	
505	99	359	04:27:35.666	488BM6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,314,739:01:0	
506	99	359	05:17:12.333	488BM6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,314,788:07:0	
507	99	359	05:46:18.333	488BM6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,314,816:78:0	
508	99	359	06:44:07.666	488BM6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,314,874:04:0	
509	99	359	10:45:11.600	488BN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,315,112:42:0	
510	99	359	12:59:35.600	488BN6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,315,245:35:0	
511	99	359	13:48:39.600	488BN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,315,293:83:0	
512	99	359	14:32:15.600	488BN6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,315,337:03:0	
513	99	359	14:54:47.600	488BN6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,315,359:29:0	
514	99	359	14:59:48.266	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,315,364:25:0	
515	99	359	15:28:01.600	488BO6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,315,392:17:0	
516	99	359	20:24:50.266	488BO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,315,685:67:0	
517	99	360	03:59:51.600	488BP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,316,135:69:0	
518	99	360	04:23:19.600	488BP6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,316,158:88:0	
519	99	360	06:37:43.600	488BP6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,316,291:81:0	
520	99	360	10:45:11.600	488BQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,316,536:58:0	
521	99	360	12:59:35.600	488BQ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,316,669:51:0	
522	99	360	13:20:55.600	488BQ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,316,690:60:0	
523	99	360	13:37:59.600	488BQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,316,707:49:0	
524	99	360	14:44:07.600	488BQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,316,772:86:0	
525	99	360	16:07:20.266	488BR6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,316,855:22:0	
526	99	360	16:09:27.600	488BR6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,316,857:31:0	
527	99	360	22:20:35.533	488BS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,317,224:36:0	
528	99	360	23:18:15.533	488BS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,317,281:39:0	
529	99	360	23:38:47.533	488BS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,317,301:67:0	
530	99	361	00:05:37.533	488BS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,317,328:25:0	
531	99	361	03:55:35.533	488BS6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,317,555:65:0	
532	99	361	04:33:59.533	488BT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,317,593:63:0	
533	99	361	05:07:26.200	488BT6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,317,626:70:0	
534	99	361	05:41:32.866	488BT6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,317,660:46:0	
535	99	361	08:45:53.533	488BT6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,317,842:75:0	
536	99	361	08:49:59.533	488BT6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,317,846:80:0	
537	99	361	13:12:18.200	488BU6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,318,106:28:0	
538	99	361	13:33:43.533	488BU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,318,127:45:0	
539	99	361	14:52:39.533	488BU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,318,205:51:0	
540	99	361	22:44:07.533	488BV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,318,671:77:0	
541	99	362	00:05:11.533	488BV6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,318,752:02:0	
542	99	362	00:23:36.200	488BV6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,318,770:21:0	
543	99	362	00:32:55.533	488BV6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,318,779:41:0	
544	99	362	05:24:33.466	488BW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,319,067:80:0	
545	99	362	12:40:23.466	488BX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,319,498:84:0	
546	99	362	13:14:31.466	488BX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,319,532:62:0	
547	99	362	14:12:07.466	488BX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,319,589:59:0	
548	99	362	14:37:35.466	488BX6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,319,614:76:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
549	99	362	15:06:41.466	488BX6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,319,643:56:0	
550	99	362	22:57:38.800	488BY6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,320,109:36:0	
551	99	362	23:31:44.800	488BY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,320,143:11:0	
552	99	363	03:44:55.466	488BY6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,320,393:47:0	
553	99	363	04:38:15.466	488BY6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,320,446:24:0	
554	99	363	04:57:39.466	488BZ6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,320,465:41:0	
555	99	363	05:31:45.466	488BZ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,320,499:16:0	
556	99	363	12:14:47.400	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,320,897:71:0	
557	99	363	13:37:59.400	488CA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,320,980:06:0	
558	99	363	14:17:42.733	488CA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,321,019:32:0	
559	99	363	14:46:48.733	488CA6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,321,048:12:0	
560	99	363	15:37:27.400	488CA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,321,098:20:0	
561	99	363	21:29:27.400	488CB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,321,446:32:0	
562	99	363	23:45:59.400	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,321,581:35:0	
563	99	364	00:23:22.066	488CB6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,321,618:32:0	
564	99	364	01:00:00.066	481UE4A	7VECT		Inert vect update UTC	4O0	4	0	5,321,654:53:0	
565	99	364	03:52:00.733	488CC6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,321,824:64:0	
566	99	364	04:01:59.400	488CC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,321,834:52:0	
567	99	364	04:42:31.400	488CC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,321,874:60:0	
568	99	364	12:10:31.400	488CD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,322,317:67:0	
569	99	364	12:59:35.400	488CD6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,322,366:24:0	
570	99	364	13:07:06.733	488CD6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,322,373:64:0	
571	99	364	13:10:15.400	488CD6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,322,376:74:0	
572	99	364	13:20:55.400	488CD6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,322,387:33:0	
573	99	364	17:10:10.666	488CE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,322,614:09:0	
574	99	364	18:27:50.666	488CE6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,322,690:83:0	
575	99	364	18:56:56.666	488CE6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,322,719:63:0	
576	99	364	22:24:55.333	488CE6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,322,925:35:0	
577	99	365	00:13:43.333	488CF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,032:90:0	
578	99	365	01:17:52.666	488CF6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,096:40:0	
579	99	365	02:01:58.666	488CF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,140:05:0	
580	99	365	04:29:43.333	488CF6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,323,286:16:0	
581	99	365	05:08:07.333	488CF6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,324:14:0	
582	99	365	05:47:53.333	488CG6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,363:44:0	
583	99	365	06:21:59.333	488CG6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,397:19:0	
584	99	365	07:53:00.000	488CG6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,487:20:0	
585	99	365	07:56:49.333	176QG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,323,491:00:0	
586	99	365	11:29:59.333	488CG6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,323,701:75:0	
587	99	365	12:01:00.000	488CH6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,323,732:45:0	
588	99	365	12:01:30.666	176QH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,323,733:00:0	
589	99	365	12:05:00.000	41FZ99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	5,323,736:41:0	
590	**99**	**365**	**12:05:04.000**	**41FZ3A**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,323,736:47:0**	
591	**99**	**365**	**12:05:14.000**	**41FZ3B**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,323,736:62:0**	
592	**99**	**365**	**12:05:24.000**	**41FZ3C**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,323,736:77:0**	
593	**99**	**365**	**12:05:34.000**	**41FZ3D**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,323,737:01:0**	
594	99	365	13:02:02.000	488CH6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,323,792:78:0	
595	99	365	13:03:51.333	488CH6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,323,794:60:0	
596	99	365	13:18:47.333	488CH6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,323,809:39:0	
597	99	365	17:15:03.333	488CH6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,324,043:09:0	
598	99	365	18:32:56.666	488CI6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,324,120:12:0	
599	99	365	19:02:02.666	488CI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,324,148:83:0	
600	99	365	20:55:25.333	488CI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,324,261:04:0	
601	99	365	20:59:35.333	488CI6D	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,324,265:15:0	
602	99	365	23:55:21.333	176SB6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	5,324,439:00:0	
603	99	365	23:59:23.333	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,324,442:90:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	99	365	23:59:24.000	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,324,443:00:0
605	0	1	03:41:48.600	488CJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,324,662:88:0
606	0	1	04:50:13.266	488CJ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,324,730:57:0
607	0	1	05:02:43.933		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,324,743:00:0
608	0	1	05:02:43.933		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,324,743:00:0
609	0	1	05:02:43.933		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,324,743:00:0
610	0	1	05:02:43.933	465WA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	5,324,743:00:0
611	0	1	05:02:50.600		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,324,743:10:0
612	0	1	05:02:52.000		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	5,324,743:12:1
613	0	1	05:23:52.600	488CJ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,324,763:83:0
614	0	1	05:27:19.266	488CJ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,324,767:29:0
615	0	1	10:43:52.733		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	5,325,080:36:2
616	0	1	10:43:53.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	5,325,080:38:0
617	0	1	10:56:25.266	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,325,092:73:0
618	0	1	10:56:25.266		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	5,325,092:73:0
619	0	1	10:56:26.666		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	5,325,092:75:1
620	0	1	10:56:31.933		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	5,325,092:83:0
621	0	1	10:56:33.133		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	5,325,092:84:8
622	0	1	10:56:37.000		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	5,325,092:90:6
623	0	1	10:56:37.000		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	5,325,092:90:6
624	0	1	11:08:39.266	488CK6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,104:82:0
625	0	1	11:22:17.266		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	5,325,118:35:0
626	0	1	11:22:17.266	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,325,118:35:0
627	0	1	11:22:18.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	5,325,118:36:8
628	0	1	13:21:05.933	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	4O0	4	0	5,325,235:81:0
629	0	1	13:21:05.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	5,325,235:81:0
630	0	1	13:21:05.933		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	5,325,235:81:0
631	0	1	13:21:07.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	5,325,235:83:1
632	0	1	13:21:12.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	5,325,236:00:0
633	0	1	13:21:13.800		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	5,325,236:01:8
634	0	1	13:21:15.200		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	5,325,236:03:9
635	0	1	13:25:09.266	488CK6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,239:82:0
636	0	1	13:25:15.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	5,325,240:00:9
637	0	1	13:25:17.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	5,325,240:02:7
638	0	1	13:25:17.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	5,325,240:02:7
639	0	1	13:25:18.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,325,240:04:8
640	0	1	13:25:30.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,325,240:22:8
641	0	1	13:25:31.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,325,240:24:6
642	0	1	13:31:08.600	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,325,245:75:0
643	0	1	13:31:08.600		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,325,245:75:0
644	0	1	13:31:15.266		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,325,245:85:0
645	0	1	13:31:19.133		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	5,325,245:90:8
646	0	1	13:31:19.133		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	5,325,245:90:8
647	0	1	14:03:02.600		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	5,325,277:34:0
648	0	1	14:03:02.600	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	5,325,277:34:0
649	0	1	14:03:03.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	5,325,277:35:8
650	0	1	14:05:15.266	488CK6C	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,279:51:0
651	0	1	14:18:38.600		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	5,325,292:73:0
652	0	1	14:18:38.600	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,325,292:73:0
653	0	1	14:18:40.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	5,325,292:75:1
654	0	1	14:18:45.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	5,325,292:83:0
655	0	1	14:18:46.466		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	5,325,292:84:8
656	0	1	14:18:50.333		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	5,325,292:90:6
657	0	1	14:18:50.333		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	5,325,292:90:6
658	0	1	14:43:54.600	488CK6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,317:72:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
659	0	1	14:50:46.600		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	5,325,324:53:0
660	0	1	14:50:46.600	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,325,324:53:0
661	0	1	14:50:47.800		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	5,325,324:54:8
662	0	1	14:50:51.666		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	5,325,324:60:6
663	0	1	14:50:51.666		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	5,325,324:60:6
664	0	1	15:22:47.266		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	5,325,356:22:0
665	0	1	15:22:47.266	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,325,356:22:0
666	0	1	15:22:48.466		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	5,325,356:23:8
667	0	1	15:33:11.266	488CK6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,325,366:48:0
668	0	1	15:37:30.600		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	5,325,370:73:0
669	0	1	15:37:30.600	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,325,370:73:0
670	0	1	15:37:32.000		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	5,325,370:75:1
671	0	1	15:37:37.266		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	5,325,370:83:0
672	0	1	15:37:38.466		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	5,325,370:84:8
673	0	1	15:37:42.333		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	5,325,370:90:6
674	0	1	15:37:42.333		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	5,325,370:90:6
675	0	1	16:09:37.933		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	5,325,402:52:0
676	0	1	16:09:37.933	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,325,402:52:0
677	0	1	16:09:39.133		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	5,325,402:53:8
678	0	1	16:09:43.000		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	5,325,402:59:6
679	0	1	16:09:43.000		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	5,325,402:59:6
680	0	1	16:10:43.933		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	5,325,403:60:0
681	0	1	16:10:43.933	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,325,403:60:0
682	0	1	16:10:45.133		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	5,325,403:61:8
683	0	1	16:11:59.266	488CL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,325,404:82:0
684	0	1	16:25:13.933	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,325,418:00:0
685	0	1	16:25:13.933		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	5,325,418:00:0
686	0	1	16:26:07.933	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4O0	4	0	5,325,418:81:0
687	0	1	16:26:07.933		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	5,325,418:81:0
688	0	1	16:26:07.933		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	5,325,418:81:0
689	0	1	16:26:09.333		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	5,325,418:83:1
690	0	1	16:26:14.600		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	5,325,419:00:0
691	0	1	16:26:15.800		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	5,325,419:01:8
692	0	1	16:26:17.200		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	5,325,419:03:9
693	0	1	16:37:43.000		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	5,325,430:31:6
694	0	1	16:37:44.200		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	5,325,430:33:4
695	0	1	16:37:44.200		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	5,325,430:33:4
696	0	1	16:37:45.600		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,325,430:35:5
697	0	1	16:37:57.600		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,325,430:53:5
698	0	1	16:37:58.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,325,430:55:3
699	0	1	21:25:11.266	488CL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,325,714:60:0
700	0	1	23:29:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,325,838:09:0
701	**0**	**1**	**23:30:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**5,325,838:09:1**
702	**0**	**1**	**23:30:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**5,325,838:09:1**
703	**0**	**1**	**23:30:00.000**	**20A3EY**	**37C1PR**	**Final Condition**	**Optics Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,325,838:09:1**
704	**0**	**1**	**23:30:00.000**	**20A3EZ**	**37C2PR**	**Final Condition**	**Optics Heater 2 OFF (primary relay)**	**4O0**	**4**	**0**	**5,325,838:09:1**
705	**0**	**1**	**23:30:00.000**	**20A3FA**	**37F1PR**	**Final Condition**	**Radiator Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,325,838:09:1**
706	**0**	**1**	**23:30:00.000**	**20A3FB**	**37F2PR**	**Final Condition**	**Shield Flash Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,325,838:09:1**
707	**0**	**1**	**23:30:00.000**	**20A3FD**	**40HRPR**	**Final Condition**	**RCT Heater OFF (primary relay)**	**4O0**	**4**	**0**	**5,325,838:09:1**
708	**0**	**1**	**23:30:00.000**	**20A3FE**	**40T1PR**	**Final Condition**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,325,838:09:1**
709	**0**	**1**	**23:30:00.000**	**20A3FF**	**40T2R**	**Final Condition**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,325,838:09:1**

25ENNOPOLE01

OAPEL:	25ENNOPOLE01	ALIAS:	25ENNOPOLE01
EXT:	A	PSID:	EA
SCLK1:	05272736:87:0	SCLK2:	05272742:52:0
SCET1:	99-329/16:38:52.466	SCET2:	99-329/16:44:33.133
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:	216	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: 0326216001 03 26 216 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039F8	0,0011,1001,1111,1000
1	039F8	0,0011,1001,1111,1000
2	039F8	0,0011,1001,1111,1000
3	039F8	0,0011,1001,1111,1000
4	039F8	0,0011,1001,1111,1000
5	039F8	0,0011,1001,1111,1000
6	039F8	0,0011,1001,1111,1000
7	039F8	0,0011,1001,1111,1000
8	039F8	0,0011,1001,1111,1000
9	039F8	0,0011,1001,1111,1000
10	039F8	0,0011,1001,1111,1000
11	039F8	0,0011,1001,1111,1000
12	039F8	0,0011,1001,1111,1000
13	039F8	0,0011,1001,1111,1000
14	039F8	0,0011,1001,1111,1000
15	039F8	0,0011,1001,1111,1000
16	039F8	0,0011,1001,1111,1000
17	039F8	0,0011,1001,1111,1000
18	039F8	0,0011,1001,1111,1000
19	039F8	0,0011,1001,1111,1000
20	039F8	0,0011,1001,1111,1000
21	039F8	0,0011,1001,1111,1000
22	039F8	0,0011,1001,1111,1000
23	039F8	0,0011,1001,1111,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25ENNOPOLE01

OAPEL:	25ENNOPOLE01	ALIAS:	25ENNOPOLE01
EXT:	B	PSID:	EA
SCLK1:	05272736:87:0	SCLK2:	05272742:52:0
SCET1:	99-329/16:38:52.466	SCET2:	99-329/16:44:33.133
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:	144	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: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18407	1,1000,0100,0000,0111
1	18407	1,1000,0100,0000,0111
2	18407	1,1000,0100,0000,0111
3	18407	1,1000,0100,0000,0111
4	18407	1,1000,0100,0000,0111
5	18407	1,1000,0100,0000,0111
6	18407	1,1000,0100,0000,0111
7	18407	1,1000,0100,0000,0111
8	18407	1,1000,0100,0000,0111
9	18407	1,1000,0100,0000,0111
10	18407	1,1000,0100,0000,0111
11	18407	1,1000,0100,0000,0111
12	18407	1,1000,0100,0000,0111
13	18407	1,1000,0100,0000,0111
14	18407	1,1000,0100,0000,0111
15	18407	1,1000,0100,0000,0111
16	18407	1,1000,0100,0000,0111
17	18407	1,1000,0100,0000,0111
18	18407	1,1000,0100,0000,0111
19	18407	1,1000,0100,0000,0111
20	18407	1,1000,0100,0000,0111
21	18407	1,1000,0100,0000,0111
22	18407	1,1000,0100,0000,0111
23	18407	1,1000,0100,0000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25ENNOPOLE01

OAPEL:	25ENNOPOLE01	ALIAS:	25ENNOPOLE01
EXT:	I	PSID:	EA
SCLK1:	05272736:87:0	SCLK2:	05272742:52:0
SCET1:	99-329/16:38:52.466	SCET2:	99-329/16:44:33.133
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:	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

25ENNOPOLE01

OAPEL:	25ENNOPOLE01	ALIAS:	25ENNOPOLE01
EXT:	C	PSID:	EA
SCLK1:	05272742:53:0	SCLK2:	05272747:75:0
SCET1:	99-329/16:44:34.000	SCET2:	99-329/16:49:51.800
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:	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

25ENSUBJUP01

OAPEL:	25ENSUBJUP01	ALIAS:	25ENSUBJUP01
EXT:	A	PSID:	EB
SCLK1:	05272772:87:0	SCLK2:	05272776:07:0
SCET1:	99-329/17:15:16.466	SCET2:	99-329/17:18:25.800
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

25ENEQUATR01

OAPEL:	25ENEQUATR01	ALIAS:	25ENEQUATR01
EXT:	A	PSID:	EC
SCLK1:	05272901:87:0	SCLK2:	05272908:44:0
SCET1:	99-329/19:25:42.466	SCET2:	99-329/19:32:19.133
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:	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

25ENGLOBAL01

OAPEL: 25ENGLOBAL01
ALIAS: 25ENGLOBAL01
EXT: A
PSID: ED
SCLK1: 05272920:87:0
SCLK2: 05272924:39:0
SCET1: 99-329/19:44:55.133
SCET2: 99-329/19:48:25.800
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: 216
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: 0326216001 03 26 216 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039F8	0,0011,1001,1111,1000
1	039F8	0,0011,1001,1111,1000
2	039F8	0,0011,1001,1111,1000
3	039F8	0,0011,1001,1111,1000
4	039F8	0,0011,1001,1111,1000
5	039F8	0,0011,1001,1111,1000
6	039F8	0,0011,1001,1111,1000
7	039F8	0,0011,1001,1111,1000
8	039F8	0,0011,1001,1111,1000
9	039F8	0,0011,1001,1111,1000
10	039F8	0,0011,1001,1111,1000
11	039F8	0,0011,1001,1111,1000
12	039F8	0,0011,1001,1111,1000
13	039F8	0,0011,1001,1111,1000
14	039F8	0,0011,1001,1111,1000
15	039F8	0,0011,1001,1111,1000
16	039F8	0,0011,1001,1111,1000
17	039F8	0,0011,1001,1111,1000
18	039F8	0,0011,1001,1111,1000
19	039F8	0,0011,1001,1111,1000
20	039F8	0,0011,1001,1111,1000
21	039F8	0,0011,1001,1111,1000
22	039F8	0,0011,1001,1111,1000
23	039F8	0,0011,1001,1111,1000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25ENGLOBAL01

OAPEL:	25ENGLOBAL01	ALIAS:	25ENGLOBAL01
EXT:	B	PSID:	ED
SCLK1:	05272920:87:0	SCLK2:	05272924:39:0
SCET1:	99-329/19:44:55.133	SCET2:	99-329/19:48:25.800
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:	144	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: 0326144001 03 26 144 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18407	1,1000,0100,0000,0111
1	18407	1,1000,0100,0000,0111
2	18407	1,1000,0100,0000,0111
3	18407	1,1000,0100,0000,0111
4	18407	1,1000,0100,0000,0111
5	18407	1,1000,0100,0000,0111
6	18407	1,1000,0100,0000,0111
7	18407	1,1000,0100,0000,0111
8	18407	1,1000,0100,0000,0111
9	18407	1,1000,0100,0000,0111
10	18407	1,1000,0100,0000,0111
11	18407	1,1000,0100,0000,0111
12	18407	1,1000,0100,0000,0111
13	18407	1,1000,0100,0000,0111
14	18407	1,1000,0100,0000,0111
15	18407	1,1000,0100,0000,0111
16	18407	1,1000,0100,0000,0111
17	18407	1,1000,0100,0000,0111
18	18407	1,1000,0100,0000,0111
19	18407	1,1000,0100,0000,0111
20	18407	1,1000,0100,0000,0111
21	18407	1,1000,0100,0000,0111
22	18407	1,1000,0100,0000,0111
23	18407	1,1000,0100,0000,0111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25ENGLOBAL01

OAPEL:	25ENGLOBAL01	ALIAS:	25ENGLOBAL01
EXT:	D	PSID:	ED
SCLK1:	05272920:87:0	SCLK2:	05272924:39:0
SCET1:	99-329/19:44:55.133	SCET2:	99-329/19:48:25.800
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

25ENGLOBAL01

OAPEL: 25ENGLOBAL01
ALIAS: 25ENGLOBAL01
EXT: C
PSID: ED
SCLK1: 05272924:45:0
SCLK2: 05272926:28:0
SCET1: 99-329/19:48:30.166
SCET2: 99-329/19:50:19.800
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

25INGIANTS01

OAPEL:	25INGIANTS01	ALIAS:	25INGIANTS01
EXT:	A	PSID:	DK
SCLK1:	05273458:52:0	SCLK2:	05273460:21:0
SCET1:	99-330/04:48:30.400	SCET2:	99-330/04:50:11.733
TARGET:	IO	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:	288	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: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INGIANTS01

```
OAPEL:  25INGIANTS01            ALIAS:  25INGIANTS01
EXT:    B                       PSID:   DK
SCLK1:  05273458:52:0           SCLK2:  05273460:21:0
SCET1:    99-330/04:48:30.400   SCET2:    99-330/04:50:11.733
TARGET: IO                      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:    MPW

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	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INGIANTS01

OAPEL:	25INGIANTS01	ALIAS:	25INGIANTS01
EXT:	C	PSID:	DK
SCLK1:	05273458:52:0	SCLK2:	05273460:21:0
SCET1:	99-330/04:48:30.400	SCET2:	99-330/04:50:11.733
TARGET:	IO	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

25INCULANN01

OAPEL:	25INCULANN01	ALIAS:	25INCULANN01
EXT:	A	PSID:	DL
SCLK1:	05273466:00:0	SCLK2:	05273466:74:0
SCET1:	99-330/04:56:01.066	SCET2:	99-330/04:56:50.400
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	288	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: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INCULANN01

```
OAPEL:  25INCULANN01            ALIAS:  25INCULANN01
EXT:    B                       PSID:   DL
SCLK1:  05273466:00:0           SCLK2:  05273466:74:0
SCET1:    99-330/04:56:01.066   SCET2:    99-330/04:56:50.400
TARGET: IO                      PARTITION: 1

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

MB_DOWN:    00000               MB_UP:      00000
COMP_FLAG:  1
EST_COMP:   2.0                 EST_COMPV:  0.3
RATE_CON1:  00000               RATE_CON2:  65525
NWAVETOT:    72                 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:     0326072001         03  26  072  001
WTGRP_SIZ:  26
```

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INCULANN01

OAPEL:	25INCULANN01	ALIAS:	25INCULANN01
EXT:	C	PSID:	DL
SCLK1:	05273466:00:0	SCLK2:	05273466:74:0
SCET1:	99-330/04:56:01.066	SCET2:	99-330/04:56:50.400
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

THRESHOLD_SEL: 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

25INTERMAP01

OAPEL:	25INTERMAP01	ALIAS:	25INTERMAP01
EXT:	A	PSID:	DM
SCLK1:	05273476:38:0	SCLK2:	05273477:21:0
SCET1:	99-330/05:06:33.733	SCET2:	99-330/05:07:23.066
TARGET:	IO	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:	288	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: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INTERMAP01

OAPEL:	25INTERMAP01	ALIAS:	25INTERMAP01
EXT:	B	PSID:	DM
SCLK1:	05273476:38:0	SCLK2:	05273477:21:0
SCET1:	99-330/05:06:33.733	SCET2:	99-330/05:07:23.066
TARGET:	IO	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:	MPW

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	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INTERMAP01

OAPEL:	25INTERMAP01	ALIAS:	25INTERMAP01
EXT:	C	PSID:	DM
SCLK1:	05273476:38:0	SCLK2:	05273477:21:0
SCET1:	99-330/05:06:33.733	SCET2:	99-330/05:07:23.066
TARGET:	IO	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

25INREGION01

OAPEL:	25INREGION01	ALIAS:	25INREGION01
EXT:	A	PSID:	DN
SCLK1:	05273479:88:0	SCLK2:	05273504:78:0
SCET1:	99-330/05:10:09.066	SCET2:	99-330/05:35:19.066
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:	288	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: 0326288001 03 26 288 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	039FF	0,0011,1001,1111,1111
1	039FF	0,0011,1001,1111,1111
2	039FF	0,0011,1001,1111,1111
3	039FF	0,0011,1001,1111,1111
4	039FF	0,0011,1001,1111,1111
5	039FF	0,0011,1001,1111,1111
6	039FF	0,0011,1001,1111,1111
7	039FF	0,0011,1001,1111,1111
8	039FF	0,0011,1001,1111,1111
9	039FF	0,0011,1001,1111,1111
10	039FF	0,0011,1001,1111,1111
11	039FF	0,0011,1001,1111,1111
12	039FF	0,0011,1001,1111,1111
13	039FF	0,0011,1001,1111,1111
14	039FF	0,0011,1001,1111,1111
15	039FF	0,0011,1001,1111,1111
16	039FF	0,0011,1001,1111,1111
17	039FF	0,0011,1001,1111,1111
18	039FF	0,0011,1001,1111,1111
19	039FF	0,0011,1001,1111,1111
20	039FF	0,0011,1001,1111,1111
21	039FF	0,0011,1001,1111,1111
22	039FF	0,0011,1001,1111,1111
23	039FF	0,0011,1001,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INREGION01

OAPEL:	25INREGION01	ALIAS:	25INREGION01
EXT:	B	PSID:	DN
SCLK1:	05273479:88:0	SCLK2:	05273504:78:0
SCET1:	99-330/05:10:09.066	SCET2:	99-330/05:35:19.066
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:	72	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: 0326072001 03 26 072 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18400	1,1000,0100,0000,0000
1	18400	1,1000,0100,0000,0000
2	18400	1,1000,0100,0000,0000
3	18400	1,1000,0100,0000,0000
4	18400	1,1000,0100,0000,0000
5	18400	1,1000,0100,0000,0000
6	18400	1,1000,0100,0000,0000
7	18400	1,1000,0100,0000,0000
8	18400	1,1000,0100,0000,0000
9	18400	1,1000,0100,0000,0000
10	18400	1,1000,0100,0000,0000
11	18400	1,1000,0100,0000,0000
12	18400	1,1000,0100,0000,0000
13	18400	1,1000,0100,0000,0000
14	18400	1,1000,0100,0000,0000
15	18400	1,1000,0100,0000,0000
16	18400	1,1000,0100,0000,0000
17	18400	1,1000,0100,0000,0000
18	18400	1,1000,0100,0000,0000
19	18400	1,1000,0100,0000,0000
20	18400	1,1000,0100,0000,0000
21	18400	1,1000,0100,0000,0000
22	18400	1,1000,0100,0000,0000
23	18400	1,1000,0100,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

25INREGION01

```
OAPEL:  25INREGION01              ALIAS:  25INREGION01
EXT:    I                         PSID:   DN
SCLK1:  05273479:88:0             SCLK2:  05273504:78:0
SCET1:    99-330/05:10:09.066     SCET2:    99-330/05:35:19.066
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

25INREGION01

OAPEL:	25INREGION01	ALIAS:	25INREGION01
EXT:	C	PSID:	DN
SCLK1:	05273504:87:0	SCLK2:	05273524:30:0
SCET1:	99-330/05:35:24.733	SCET2:	99-330/05:54:59.733
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

THRESHOLD_SEL: 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

25NNPCTRLT01

OAPEL:	25NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	R	PSID:	FB
SCLK1:	05281985:00:0	SCLK2:	05281986:12:0
SCET1:	1999-336/04:29:40.033	SCET2:	1999-336/04:30:48.800
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

25NNPCTRLT01

OAPEL:	25NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	S	PSID:	FB
SCLK1:	05281991:00:0	SCLK2:	05282000:12:0
SCET1:	1999-336/04:35:44.033	SCET2:	1999-336/04:44:58.133
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

25NNRCTRLT01

OAPEL:	25NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	R	PSID:	XU
SCLK1:	05307744:00:0	SCLK2:	05307744:12:0
SCET1:	1999-354/06:34:51.833	SCET2:	1999-354/06:34:59.833
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

25NNRCTRLT01

OAPEL:	25NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	S	PSID:	XU
SCLK1:	05307750:00:0	SCLK2:	05307751:12:0
SCET1:	1999-354/06:40:55.866	SCET2:	1999-354/06:42:04.533
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

25NNRCTRLT01

OAPEL:	25NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	T	PSID:	XU
SCLK1:	05307756:00:0	SCLK2:	05307756:12:0
SCET1:	1999-354/06:46:59.866	SCET2:	1999-354/06:47:07.866
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

25NNOPCAL_01

OAPEL:	25NNOPCAL_01	ALIAS:	LSNNOPCAL_01
EXT:	R	PSID:	DC
SCLK1:	05307760:00:0	SCLK2:	05307762:12:0
SCET1:	1999-354/06:51:02.533	SCET2:	1999-354/06:53:11.866
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 I25 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS I25 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

The source below is one of:

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

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

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

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  MODE          2  72 -  73     .NIMS Instrument MODE (0-15)                SEF: 37IOP, data byte 2, bits 5-8
  GAIN          1  74 -  74     .Gain State (true value)                    SEF: 37IST, data byte 3, bits 7-8 (if bit 6 = 1)
                                                                                  0=gs2, 1=gs4, 2=gs3, 3=gs1
  CHOP          1  75 -  75     .Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)   SEF: 37IST, data byte 2, bits 7-8 (if bit 6 = 1)
                                                                                  0=63hz, 1=off, 2=ref, 3=freerun
  GRAT_OFF      1  76 -  76     .Grating Offset (0-7, default 4)            SEF: 37GOF, data byte 2, bits 5-8
  PTAB_A(6)    12  77 -  88     .First PTAB  |repeat count,mirror op,autobias...SEF: functions of MODE (from 37IOP) as modified by
  PTAB_B(6)    12  89 - 100     .Second PTAB |...grating start, grating delta...      37MPT, unless special sequence (modes 12-15)
                                .            |...number of grating positions)        in which case values come from 37SS
                                                                                  parameters <tbd>
  ECAL          1 101 - 101     .Electronics Calibration Active (1=yes)     SEF: 37IST, data byte 3, bit 4 (1=on)
  OPCAL         1 102 - 102     .Optics Calibration active (1=yes)          SEF: 37IST, data byte 3, bit 5 (1=on)
# REAL_TIME     1 103 - 103     .NIMS in Real-Time Telemetry (1=yes)        SEF: track RT_INST_SEL .and. 37RT
# RECORD        1 104 - 104     .NIMS in Record Telemetry (1=yes)           SEF: track DMS status event:
                                                                                  RECORD, REVERSE, RESUME, RUNDOWN <tbd>


* THRESHSEL     1 105 - 105     .Threshold value select (>0 = yes)          PBK: THRESHLD_TBL > 0 (i.e. 1-3)
  <spare>       1 106 - 106     .
# RTISELDN      5 107 - 111     .RTI select, 5 binary bits (for mirror      SEF: 37MB data byte 1, bits 4-8 <tbd>
                                  position blocking, down scan)
# RTISELUP      5 112 - 116     .RTI select, 5 binary bits (for mirror      SEF: 37MB data byte 2, bits 4-8 <tbd>
                                  position blocking, up scan)
  <spare>       1 117 - 117     .
* RICEFLAG      1 118 - 118     .Rice compression flag                      PBK: 0 no compression
                                                                                 1 Rice compression, ref vals each mirror scan
                                                                                 3 Rice compression, ref vals each RIM rollover
  <spare>       1 119 - 119     .
  ESTCOMP       3 120 - 122     .Rice estimated compression ratio (m.n)     PBK: CMPR_DVSR <tbd>
  ESTCOMPV      3 123 - 125     .Rice estimated error in compression ratio (m.n)PBK: CMPR_UNC <tbd>
# RATECON1      5 126 - 130     .Rate control lower limit                   PBK: | S/W table entry indexed by LOSSY_COMP (1-7)
# RATECON2      5 131 - 135     .Rate control upper limit                   PBK: | or 0 if LOSSY_COMP = 0 (no rate control)
  <spare>      17 136 - 152
  NWAVETOT      3 153 - 155     .Total number of wavelengths selected       Compute from relevant Wavelength Edit Table group
  TLMFMT        3 156 - 158     .Telemetry format (MPW et al, LPU or LNR)     SEF: 6TMREC command
  SCET1        21 159 - 179     .Start time of played-back OBS in UTC       PBK (except realtime data: SEF)
  SCET2        21 180 - 200     .Stop time of played-back OBS in UTC        PBK (except realtime data: SEF)
<spares>       67 201 - 267     .Start time of played-back OBS in UTC       PBK (except realtime data: SEF)
* THRESH       51 268 - 318     .Threshold values (17 3-digit values, 0-999)    PBK: S/W table indexed by THRESH_TBL > 0, else 0s
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# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeelllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
--------------------------------
.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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25ENNOPOLE0125ENNOPOLE01AEA05272736:87:005272742:52:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        216MPW  99-329/16:38:52.466  99-329/16:44:33.133
           00000000000000000000000000000000000000000000000000003262160012601039F801039F801039F801039F801039F801039F801039F801039
F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801000000100000
25ENNOPOLE0125ENNOPOLE01BEA05272736:87:005272742:52:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        4        144MPW  99-329/16:38:52.466  99-329/16:44:33.133
           000000000000000000000000000000000000000000000000000032614400126011840701184070118407011840701184070118407011840701184
07011840701184070118407011840701184070118407011840701184070118407011840701184070118407011840701184070118407011840701000000100000
25ENNOPOLE0125ENNOPOLE01IEA05272736:87:005272742:52:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        4        360MPW  99-329/16:38:52.466  99-329/16:44:33.133
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25ENNOPOLE0125ENNOPOLE01CEA05272742:53:005272747:75:01         EUROPA   3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        4        360MPW  99-329/16:44:34.000  99-329/16:49:51.800
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25ENSUBJUP0125ENSUBJUP01AEB05272772:87:005272776:07:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        360MPW  99-329/17:15:16.466  99-329/17:18:25.800
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25ENEQUATR0125ENEQUATR01AEC05272901:87:005272908:44:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        360MPW  99-329/19:25:42.466  99-329/19:32:19.133
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25ENGLOBAL0125ENGLOBAL01AED05272920:87:005272924:39:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2        216MPW  99-329/19:44:55.133  99-329/19:48:25.800
           00000000000000000000000000000000000000000000000000003262160012601039F801039F801039F801039F801039F801039F801039F801039
F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801039F801000000100000
25ENGLOBAL0125ENGLOBAL01BED05272920:87:005272924:39:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        4        144MPW  99-329/19:44:55.133  99-329/19:48:25.800
           000000000000000000000000000000000000000000000000000032614400126011840701184070118407011840701184070118407011840701184
07011840701184070118407011840701184070118407011840701184070118407011840701184070118407011840701184070118407011840701000000100000
25ENGLOBAL0125ENGLOBAL01DED05272920:87:005272924:39:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        4        360MPW  99-329/19:44:55.133  99-329/19:48:25.800
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25ENGLOBAL0125ENGLOBAL01CED05272924:45:005272926:28:01         EUROPA   3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        4        360MPW  99-329/19:48:30.166  99-329/19:50:19.800
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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25INGIANTS0125INGIANTS01ADK05273458:52:005273460:21:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         288MPW  99-330/04:48:30.400  99-330/04:50:11.733
           00000000000000000000000000000000000000000000000000003262880012601039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
25INGIANTS0125INGIANTS01BDK05273458:52:005273460:21:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3          72MPW  99-330/04:48:30.400  99-330/04:50:11.733
           00000000000000000000000000000000000000000000000000003260720012601184000118400011840001184000118400011840001184000118
40001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
25INGIANTS0125INGIANTS01CDK05273458:52:005273460:21:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360MPW  99-330/04:48:30.400  99-330/04:50:11.733
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25INCULANN0125INCULANN01ADL05273466:00:005273466:74:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         288MPW  99-330/04:56:01.066  99-330/04:56:50.400
           00000000000000000000000000000000000000000000000000003262880012601039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
25INCULANN0125INCULANN01BDL05273466:00:005273466:74:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3          72MPW  99-330/04:56:01.066  99-330/04:56:50.400
           00000000000000000000000000000000000000000000000000003260720012601184000118400011840001184000118400011840001184000118
40001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
25INCULANN0125INCULANN01CDL05273466:00:005273466:74:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360MPW  99-330/04:56:01.066  99-330/04:56:50.400
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25INTERMAP0125INTERMAP01ADM05273476:38:005273477:21:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         288MPW  99-330/05:06:33.733  99-330/05:07:23.066
           00000000000000000000000000000000000000000000000000003262880012601039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
25INTERMAP0125INTERMAP01BDM05273476:38:005273477:21:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3          72MPW  99-330/05:06:33.733  99-330/05:07:23.066
           00000000000000000000000000000000000000000000000000003260720012601184000118400011840001184000118400011840001184000118
40001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001000000100000
25INTERMAP0125INTERMAP01CDM05273476:38:005273477:21:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360MPW  99-330/05:06:33.733  99-330/05:07:23.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25INREGION0125INREGION01ADN05273479:88:005273504:78:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         288MPW  99-330/05:10:09.066  99-330/05:35:19.066
           00000000000000000000000000000000000000000000000000003262880012601039FF01039FF01039FF01039FF01039FF01039FF01039FF01039
FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01039FF01000000100000
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25INREGION0125INREGION01BDN05273479:88:005273504:78:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         72MPW  99-330/05:10:09.066  99-330/05:35:19.066
           0000000000000000000000000000000000000000000000000000326072001260118400011840001184000118400011840001184000118400011840001184
0001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000118400011840001184000100000010000
25INREGION0125INREGION01IDN05273479:88:005273504:78:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360MPW  99-330/05:10:09.066  99-330/05:35:19.066
           0000000000000000000000000000000000000000000000000000326360001260011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25INREGION0125INREGION01CDN05273504:87:005273524:30:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360MPW  99-330/05:35:24.733  99-330/05:54:59.733
           0000000000000000000000000000000000000000000000000000326360001260011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
25NNPCTRLT01LSNNPCTRLT01RFB05281985:00:005281986:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-336/04:29:40.0331999-336/04:30:48.800
           0000000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

25NNPCTRLT01LSNNPCTRLT01SFB05281991:00:005282000:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-336/04:35:44.0331999-336/04:44:58.133
           0000000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

25NNRCTRLT01LSNNRCTRTA01RXU05307744:00:005307744:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-354/06:34:51.8331999-354/06:34:59.833
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

25NNRCTRLT01LSNNRCTRTA01SXU05307750:00:005307751:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-354/06:40:55.8661999-354/06:42:04.533
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

25NNRCTRLT01LSNNRCTRTA01TXU05307756:00:005307756:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-354/06:46:59.8661999-354/06:47:07.866
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

25NNOPCAL_01LSNNOPCAL_01RDC05307760:00:005307762:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                 048RT 1999-354/06:51:02.5331999-354/06:53:11.866
           0000000000000000000000000000000000000000000000000000302048000 224180000200000

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