Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS Gaspra observations in terms of a comprehensive sequence summary, PA summary and Observation Table (OBSTAB).

The NIMS Sequence Summary is a time-ordered listing of all spacecraft activity pertinent to NIMS operations for the EJ7 Sequence. The information in this summary is derived from the EJ7 SEF (Spacecraft Event File) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are eight columns of information in this table:

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

Also, 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 PA Summary is a time-ordered listing of all PAs (Profile Activities) listed in the EJ7 SEF which affect NIMS observations.

The NIMS Observation Table (OBSTAB) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing. It is also derived from the EJ7 SEF.

Sequence: EJ7HIA   Created: 06/29/94   Begin: 94-193/03:21:00.000   Finish: 94-227/23:10:00.000

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
193	04:00:03.866	20AA6A	6DMSC	S806,1	Tape slew 806.4kb		2,477,751:68
193	04:07:03.866	20AA6B	6DMSR		Tape recorder rewind		2,477,758:61
193	05:15:00.000	NIMSSHLDOF	0	-----START------			2,477,825:78
193	05:15:03.866	20A3A	37F2PR	1	Shield Flash Heater OFF (primary relay)		2,477,825:84
193	05:15:09.866	20A3B	37F2PR	2	Shield Flash Heater OFF (primary relay)		2,477,826:02
193	05:20:00.000	NIMSSHLDOF		-----STOP-------			2,477,830:73
193	05:30:03.866	20AB3A	40T1P	1	PCT Heater 1 ON (primary relay)		2,477,840:69
193	05:30:09.866	20AB3B	40T1P	2	PCT Heater 1 ON (primary relay)		2,477,840:78
193	06:30:00.000	SLNNIMSON01	-7123	-----START------			2,477,900:03
193	06:29:59.866	20ZU3Q	37HR	1	Replacement Heaters OFF		2,477,900:03
193	06:30:01.866	20ZU3S	37HR	2	Replacement Heaters OFF		2,477,900:06
193	06:30:27.866	20ZU3R	37A	1	NIMS Power ON	260	2,477,900:45
193	06:30:29.866	20ZU3T	37A	2	NIMS Power ON	260	2,477,900:48
193	06:32:29.200	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	2,477,902:45
193	06:40:00.000	SLNNIMSON01		-----STOP-------		2R0	2,477,909:84
193	06:44:59.866	480A6A	6MROH	36,202C,0,A		2R0	2,477,914:79
193	06:46:19.866	480A6B	6MROH	36,202C,0,A		2R0	2,477,916:17
193	06:47:39.866	480A6C	6MROH	36,202C,0,A		2R0	2,477,917:46
193	09:49:59.866	480NJ6A	6MROH	21,5000,33,A		2R0	2,478,097:76
194	23:49:59.733	480NK6A	6MROH	21,6216,29,A		2R0	2,480,352:71
195	00:39:59.733	480AA6A	6MROH	7,6CCC,0,A		2R0	2,480,402:21
195	00:41:19.733	480AA6B	6MROH	7,6CCC,0,A		2R0	2,480,403:50
195	00:42:39.733	480AA6C	6MROH	7,6CCC,0,A		2R0	2,480,404:79
195	01:41:59.733	20AE4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	2,480,463:50
195	01:42:59.733	20AE4C	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,480,464:49
195	01:49:29.733	20AE4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2R0	2,480,470:88
195	01:49:30.400	20AE4H	7VENT	0.611,11.022,8	ALERT -- Thruster fire	2R0	2,480,470:89
195	01:49:50.400	20AE4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2R0	2,480,471:28
195	01:49:51.066	20AE4J	7VENT	0.611,11.022,6	ALERT -- Thruster fire	2R0	2,480,471:29
195	01:50:11.066	20AE4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	2,480,471:59
195	01:50:11.733	20AE4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	2,480,471:60
195	01:50:21.733	20AE4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2R0	2,480,471:75
195	01:50:22.400	20AE4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2R0	2,480,471:76
195	01:50:32.400	20AE4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2R0	2,480,472:00
195	01:50:33.066	20AE4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2R0	2,480,472:01
195	01:53:39.733	20AE4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2R0	2,480,475:08
195	01:53:40.400	20AE4T	7VENT	0.611,11.022,7	ALERT -- Thruster fire	2R0	2,480,475:09
195	01:54:00.400	20AE4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2R0	2,480,475:39
195	01:54:01.066	20AE4V	7VENT	0.611,11.022,1	ALERT -- Thruster fire	2R0	2,480,475:40
195	01:54:21.066	20AE4W	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	2,480,475:70

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
195	01:54:21.733	20AE4X	7VENT	0.611,.666,3	ALERT -- Thruster fire	2R0	2,480,475:71
195	01:54:31.733	20AE4Y	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2R0	2,480,475:86
195	01:54:32.400	20AE4Z	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2R0	2,480,475:87
195	01:54:42.400	20AE4AA	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2R0	2,480,476:11
195	01:54:43.066	20AE4AB	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2R0	2,480,476:12
195	02:03:49.733	20AE4AG	7SLEW	INIT,NEG,3.5	Stator movement	2R0	2,480,485:13
195	02:10:03.733	20AF4A	7SLEW	DIS,POS,0.0	Stator movement	2R0	2,480,491:28
195	03:06:05.733	20AF4C	7MODE	CRU	AACS CRUISE MODE	2R0	2,480,546:66
195	03:32:06.400	20AF4E	7MODE	INT	AACS INERTIAL MODE	2R0	2,480,572:41
195	04:10:03.733	20AG3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	2R0	2,480,609:90
195	04:10:09.733	20AG3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	2R0	2,480,610:08
195	06:36:59.733	480NL6A	6MROH	21,6B76,62,A		2R0	2,480,755:28
195	08:00:59.733	480NL6B	6MROH	21,5000,64,A		2R0	2,480,838:35
195	08:04:37.733	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,480,841:89
195	08:04:38.400	165JA4B	7SCAN	NORM,176.344,6.7	Check S/P Position	2R0	2,480,841:90
195	08:05:00.000	SLJNREFJUP01	-4181	-----START------		2R0	2,480,842:31
195	08:06:35.733	157JA156A121A4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	2,480,843:84
195	08:07:36.400	157JA156A121B4A	37IOP	7,2	Fixed Map, Grating Start Position =2	2R7	2,480,844:84
195	08:08:32.400	117JA	CSMOS	GS	***** GROUP START *****	2R7	2,480,845:77
195	08:08:33.066	176JA6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + NIMS RECOR	2R7	2,480,845:78
195	08:08:37.733	175JA422A6A	6DMSC	R28,0	Tape runup 28.8kbp	2R7	2,480,845:85
195	08:08:41.733	117JA105A106A4A	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,480,846:00
195	08:08:47.066	117JA105A106A4B	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,480,846:08
195	08:08:52.400	117JA105A106A4C	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,480,846:16
195	08:08:57.733	117JA105A106A4D	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,480,846:24
195	08:09:03.066	117JA105A106A4E	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,480,846:32
195	08:09:08.400	117JA105A106A4F	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,480,846:40
195	08:09:13.733	117JA105A106A4G	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,480,846:48
195	08:09:19.066	117JA105A106A4H	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,480,846:56
195	08:09:24.400	117JA105A106A4I	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,480,846:64
195	08:09:29.733	117JA105A106A4J	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,480,846:72
195	08:09:35.066	117JA105A106A4K	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,480,846:80
195	08:09:40.400	117JA11A	CSMOS	GE	****** GROUP END ******	2R7	2,480,846:88
195	08:09:41.733	175JA422A6B	6DMSC	RDY,0	Tape stop	2R7	2,480,846:90
195	08:10:38.400	157JA156A121C4A	37IOP	0,2	Safe, Grating Start Position =2	2R0	2,480,847:84
195	08:15:00.000	SLJNREFJUP01		-----STOP-------		2R0	2,480,852:21
195	08:19:49.066	176KB6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	2R0	2,480,857:00
195	08:19:59.733	165KB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,480,857:16
195	08:20:00.400	165KB4B	7SCAN	NORM,176.415998,	Check S/P Position	2R0	2,480,857:17
195	08:20:48.400	175KB422A6A	6DMSC	R7,0	Tape runup 7.68kps	2R0	2,480,857:89
195	08:29:55.733	175KB422A6B	6DMSC	RDY,0	Tape stop	2R0	2,480,867:00
195	09:00:05.066	20EB4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,480,896:75

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
195	09:27:59.733	480MA6A	6MROH	35,4800,16,A		2R0	2,480,924:39
195	09:52:01.066	480KZ6A	6MROH	28,0900,20,A		2R0	2,480,948:17
195	10:20:59.733	480MD6A	6MROH	29,0200,6,A		2R0	2,480,976:77
195	10:30:19.733	480MD6B	6MROH	29,0220,6,A		2R0	2,480,986:07
195	10:39:39.733	480MD6C	6MROH	29,0240,5,A		2R0	2,480,995:28
195	10:47:39.733	480MD6D	6MROH	29,0685,3,A		2R0	2,481,003:20
195	10:52:59.733	480MD6E	6MROH	29,06A5,3,A		2R0	2,481,008:45
195	10:58:19.733	480MD6F	6MROH	29,06C5,2,A		2R0	2,481,013:70
195	11:11:59.733	480WA6A	6MROH	29,0000,25,A		2R0	2,481,027:26
195	11:46:39.733	480WA6B	6MROH	29,0020,24,A		2R0	2,481,061:52
195	12:19:59.733	480WA6C	6MROH	29,0040,24,A		2R0	2,481,094:49
195	12:53:19.733	480WA6D	6MROH	29,0000,25,A		2R0	2,481,127:46
195	13:27:59.733	480WA6E	6MROH	29,0020,24,A		2R0	2,481,161:72
195	14:01:19.733	480WA6F	6MROH	29,0040,24,A		2R0	2,481,194:69
195	14:35:59.733	480WB6A	6MROH	29,0480,3,A		2R0	2,481,229:04
195	14:41:19.733	480WB6B	6MROH	29,04B0,3,A		2R0	2,481,234:29
195	14:46:39.733	480WB6C	6MROH	29,0480,3,A		2R0	2,481,239:54
195	14:51:59.733	480WB6D	6MROH	29,04B0,3,A		2R0	2,481,244:79
196	01:45:00.333	480MB6A	6MROH	29,0200,6,A		2R0	2,481,890:64
196	01:54:20.333	480MB6B	6MROH	29,0230,6,A		2R0	2,481,899:85
196	02:03:40.333	480MB6C	6MROH	29,0685,3,A		2R0	2,481,909:15
196	02:09:00.333	480MB6D	6MROH	29,06B5,2,A		2R0	2,481,914:40
196	03:01:59.666	480NM6A	6MROH	21,6450,85,A		2R0	2,481,966:77
196	04:56:39.666	480NM6B	6MROH	21,5000,50,A		2R0	2,482,080:23
196	06:48:20.333	480NX6A	6MROH	21,5E6E,4,A		2R0	2,482,190:64
197	06:34:00.266	480NN6A	6MROH	21,5FC9,8,A		2R0	2,483,600:64
197	06:39:59.600	165LA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,483,606:57
197	06:40:00.266	165LA4B	7SCAN	NORM,176.369999,	Check S/P Position	2R0	2,483,606:58
198	03:46:00.266	480LC6A	6MROH	10,4000,201,A		2R0	2,484,858:66
198	05:26:26.000	SLJNFRAGMC01	-52	-----START------		2R0	2,484,958:04
198	05:27:22.266	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,484,958:89
198	05:27:22.933	165JB4B	7SCAN	NORM,176.285,6.7	Check S/P Position	2R0	2,484,958:90
198	05:30:20.933	157JB156A121A4A	37IOP	7,2	Fixed Map, Grating Start Position =2	2R7	2,484,961:84
198	05:31:16.933	117JB	CSMOS	GS	***** GROUP START *****	2R7	2,484,962:77
198	05:31:26.266	117JB105A106A4A	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,484,963:00
198	05:31:26.266	176JB6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + NIMS RECOR	2R7	2,484,963:00
198	05:31:31.600	117JB105A106A4B	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,484,963:08
198	05:31:36.933	117JB105A106A4C	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,484,963:16
198	05:31:42.266	117JB105A106A4D	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,484,963:24
198	05:31:47.600	117JB105A106A4E	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,484,963:32
				This slew pattern repats every 16 mf until ...			
198	07:08:03.533	117JB105A106C4BQ	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,485,058:51

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
198	07:08:08.866	117JB105A106C4BR	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,485,058:59
198	07:08:14.200	117JB105A106C4BS	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,485,058:67
198	07:08:19.533	117JB105A106C4BT	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,485,058:75
198	07:08:24.866	117JB11A	CSMOS	GE	****** GROUP END ******	2R7	2,485,058:83
198	07:08:32.000	SLJNFRAGMC01		-----STOP-------		2R7	2,485,059:02
198	07:24:40.866	20VM4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R7	2,485,075:00
198	08:15:20.200	480LC6B	6MROH	11,4000,184,A		2R7	2,485,125:09
198	09:37:06.866	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	2,485,205:89
198	09:37:07.533	165ID4B	7SCAN	NORM,176.115999,	Check S/P Position	2R7	2,485,205:90
198	09:41:12.866	118ID110A111A4A	7STRP	0.00087,0.0,26,0	Slew =,0.51	2R7	2,485,210:03
198	09:41:36.866	61ID176KD6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	2R7	2,485,210:39
198	09:42:13.533	118ID110A111B4A	7STRP	0.0,0.00087,0,0,	Slew =,4.01	2R7	2,485,211:03
198	09:42:22.200	118ID110A111B4B	7STRP	0.00087,0.0,26,0	Slew =,0.51	2R7	2,485,211:16
198	09:43:22.866	118ID110A111B4C	7STRP	0.0,0.00087,0,0,	Slew =,4.01	2R7	2,485,212:16
				This slew pattern repats every 13 mf until ...			
198	15:43:02.866	118IF110A111B4EZ	7STRP	0.00087,0.0,26,0	Slew =,0.51	2R7	2,485,567:81
198	15:44:03.533	118IF110A111C4Y	7STRP	0.0,0.00087,0,0,	Slew =,4.01	2R7	2,485,568:81
198	15:44:10.200	61IE176IE6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RECORD	2R7	2,485,569:00
198	15:44:12.200	118IF110A111C4Z	7STRP	0.00087,0.0,26,0	Slew =,0.51	2R7	2,485,569:03
	15:44:46.866	118IF110A111D4Y	7STRP	-0.00348,-0.0060	Slew =,4.01	2R7	2,485,569:55
198	15:44:55.533	118IF110A111D4Z	7STRP	0.00087,0.0,26,0	Slew =,0.51	2R7	2,485,569:68
198	22:38:53.533	20SA6A	6DMSC	S28,1	Tape slew 28.8kbp	2R7	2,485,979:15
198	22:49:54.000	SLJNFRAGMF01	-53	-----START------		2R7	2,485,990:04
198	22:51:50.866	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	2,485,991:89
198	22:51:51.533	165JC4B	7SCAN	NORM,176.271,6.7	Check S/P Position	2R7	2,485,991:90
198	22:55:45.533	117JC	CSMOS	GS	***** GROUP START *****	2R7	2,485,995:77
198	22:55:54.866	176JC6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + NIMS RECOR	2R7	2,485,996:00
198	22:55:54.866	117JC105A106A4A	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,485,996:00
198	22:56:00.200	117JC105A106A4B	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,485,996:08
198	22:56:05.533	117JC105A106A4C	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,485,996:16
198	22:56:10.866	117JC105A106A4D	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,485,996:24
				This slew pattern repats every 16 mf until ...			
199	00:32:32.200	117JC105A106C4BQ	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,486,091:51
199	00:32:37.533	117JC105A106C4BR	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,486,091:59
199	00:32:42.866	117JC105A106C4BS	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,486,091:67
199	00:32:48.200	117JC105A106C4BT	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,486,091:75
199	00:32:53.533	117JC11A	CSMOS	GE	****** GROUP END ******	2R7	2,486,091:83
199	00:33:01.000	SLJNFRAGMF01		-----STOP-------		2R7	2,486,092:03
199	05:16:30.200	480MC6A	6MROH	35,4800,16,A		2R7	2,486,372:37
199	05:39:10.200	480MC6B	6MROH	29,0200,6,A		2R7	2,486,394:75
199	05:48:30.200	480MC6C	6MROH	29,0220,6,A		2R7	2,486,404:05
199	05:57:50.200	480MC6D	6MROH	29,0685,3,A		2R7	2,486,413:26

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
199	06:03:10.200	480MC6E	6MROH	29,06A5,3,A		2R7	2,486,418:51
199	06:09:30.200	480LD6A	6MROH	11,7981,17,A		2R7	2,486,424:75
199	06:11:46.000	SLJNFRAGMG01	-52	-----START------		2R7	2,486,427:05
199	06:12:41.533	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	2,486,427:89
199	06:12:42.200	165JD4B	7SCAN	NORM,176.264999,	Check S/P Position	2R7	2,486,427:90
199	06:16:36.200	117JD	CSMOS	GS	***** GROUP START *****	2R7	2,486,431:77
199	06:16:45.533	176JD6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + NIMS RECOR	2R7	2,486,432:00
199	06:16:45.533	117JD105A106A4A	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,486,432:00
199	06:16:50.866	117JD105A106A4B	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,486,432:08
199	06:16:56.200	117JD105A106A4C	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,486,432:16
199	06:17:01.533	117JD105A106A4D	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,486,432:24
				This slew pattern repats every 16 mf until ...			
199	07:53:22.866	117JD105A106C4BQ	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,486,527:51
199	07:53:28.200	117JD105A106C4BR	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,486,527:59
199	07:53:33.533	117JD105A106C4BS	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,486,527:67
199	07:53:38.866	117JD105A106C4BT	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,486,527:75
199	07:53:44.200	117JD11A	CSMOS	GE	****** GROUP END ******	2R7	2,486,527:83
199	07:54:45.533	157JY156A121A4A	37IOP	0,2	Safe, Grating Start Position =2	2R0	2,486,528:84
199	07:54:53.000	SLJNFRAGMG01		-----STOP-------		2R0	2,486,529:04
199	07:59:53.533	20VN4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,486,534:00
199	09:57:00.200	480NP6A	6MROH	21,52D0,100,A		2R0	2,486,649:75
199	12:14:59.466	165LB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,486,786:27
199	12:15:00.133	165LB4B	7SCAN	NORM,176.33,6.74	Check S/P Position	2R0	2,486,786:28
199	22:55:30.133	20SB6A	6DMSC	S28,2		2R0	2,487,419:70
199	23:00:00.133	20SB6B	6DMSC	RDY,3	Tape stop	2R0	2,487,424:20
199	23:01:00.133	480LF6A	6MROH	10,4000,201,A		2R0	2,487,425:19
200	03:30:20.133	480LF6B	6MROH	11,4000,52,A		2R0	2,487,691:53
200	05:39:00.133	480LG6A	6MROH	11,5090,148,A		2R0	2,487,818:76
200	08:49:14.133	165IK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,488,006:89
200	08:49:14.800	165IK4B	7SCAN	NORM,176.115999,	Check S/P Position	2R0	2,488,006:90
200	08:53:10.800	117IK	CSMOS	GS	***** GROUP START *****	2R0	2,488,010:80
200	08:53:18.133	176IK6A	6TMCHG	NCGHCM		2R0	2,488,011:00
200	08:53:20.133	117IK105A106A4A	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,488,011:03
200	08:53:46.800	117IK105A106A4B	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,488,011:43
200	08:53:50.800	117IK105A106A4C	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,488,011:49
200	08:54:17.466	117IK105A106B4A	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,488,011:89
				This slew pattern repats every Rim until ...			
200	10:52:08.800	117IK105A106G4CV	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,488,128:49
200	10:52:35.466	117IK105A106G4CW	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,488,128:89
200	10:52:39.466	117IK105A106G4CX	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,488,129:04
200	10:53:06.133	117IK105A106H4AG	7STRP	-0.006,0.0,0,0,0	Slew =0,3.5	2R0	2,488,129:44
200	10:53:29.466	117IK105A106H4AH	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.17	2R0	2,488,129:79

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
200	10:53:35.466	117IK11A	CSMOS	GE	****** GROUP END ******	2R0	2,488,129:88
200	10:58:40.800	20VO4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,488,135:00
200	12:23:00.133	480NR6A	6MROH	21,7236,12,A		2R0	2,488,218:36
200	12:39:59.466	165LC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,488,235:18
200	12:40:00.133	165LC4B	7SCAN	NORM,176.309999,	Check S/P Position	2R0	2,488,235:19
200	23:15:40.066	480NS6A	6MROH	21,7646,27,A		2R0	2,488,863:81
200	23:53:00.066	480NS6B	6MROH	21,5000,129,A		2R0	2,488,900:74
201	02:46:30.066	480LI6A	6MROH	10,7140,43,A		2R0	2,489,072:37
201	03:45:10.066	480LI6B	6MROH	11,4000,30,A		2R0	2,489,130:39
201	08:32:52.733	165IN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,489,414:89
201	08:32:53.400	165IN4B	7SCAN	NORM,176.095999,	Check S/P Position	2R0	2,489,414:90
201	08:36:49.400	117IN	CSMOS	GS	***** GROUP START *****	2R0	2,489,418:80
201	08:36:56.733	176IN6A	6TMCHG	NCGHCM		2R0	2,489,419:00
201	08:36:58.733	117IN105A106A4A	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,489,419:03
201	08:37:25.400	117IN105A106A4B	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,489,419:43
201	08:37:29.400	117IN105A106A4C	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,489,419:49
201	08:37:56.066	117IN105A106B4A	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,489,419:89
				This slew pattern repats every Rim until ...			
201	10:35:16.733	117IN105A106G4CT	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,489,536:03
201	10:35:43.400	117IN105A106G4CU	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,489,536:43
201	10:35:47.400	117IN105A106G4CV	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,489,536:49
201	10:36:14.066	117IN105A106G4CW	7STRP	0.0,-0.0034,0,0,	Slew =0,3.5	2R0	2,489,536:89
201	10:36:18.066	117IN105A106G4CX	7STRP	0.001,0.0034,0,0	Slew =,0.17	2R0	2,489,537:04
201	10:36:44.733	117IN105A106H4AG	7STRP	-0.006,0.0,0,0,0	Slew =0,3.5	2R0	2,489,537:44
201	10:37:08.066	117IN105A106H4AH	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.17	2R0	2,489,537:79
201	10:37:14.066	117IN11A	CSMOS	GE	****** GROUP END ******	2R0	2,489,537:88
201	11:07:36.066	20VP4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,489,568:00
201	12:56:10.733	165LD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,489,675:35
201	12:56:11.400	165LD4B	7SCAN	NORM,176.294998,	Check S/P Position	2R0	2,489,675:36
201	12:58:00.066	480NT6A	6MROH	21,78A0,20,A		2R0	2,489,677:17
201	13:05:54.066	176LA6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	2R0	2,489,685:00
201	13:26:00.066	480NT6B	6MROH	21,5000,32,A		2R0	2,489,704:80
201	13:55:25.400	20LD6A	6DMSC	R7,0	Tape runup 7.68kps	2R0	2,489,733:89
201	16:55:26.733	20LD6B	6DMSC	RDY,0	Tape stop	2R0	2,489,912:02
202	03:45:30.000	20SC6A	6DMSC	S115,3	Tape slew 115.2kb	2R0	2,490,554:85
202	03:46:00.000	480LM6A	6MROH	10,5E80,103,A		2R0	2,490,555:39
202	03:57:00.000	20SC6B	6DMSC	RDY,4	Tape stop	2R0	2,490,566:28
202	04:15:57.000	SLJNFRAGMR01	-52	-----START------		2R0	2,490,585:04
202	04:16:53.333	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,490,585:89
202	04:16:54.000	165JE4B	7SCAN	NORM,176.206999,	Check S/P Position	2R0	2,490,585:90
202	04:19:52.000	157JE156A121A4A	37IOP	7,2	Fixed Map, Grating Start Position =2	2R7	2,490,588:84
202	04:20:48.000	117JE	CSMOS	GS	***** GROUP START *****	2R7	2,490,589:77

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
202	04:20:57.333	176JE6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + NIMS RECOR	2R7	2,490,590:00
202	04:20:57.333	117JE105A106A4A	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,490,590:00
202	04:21:02.666	117JE105A106A4B	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,490,590:08
202	04:21:08.000	117JE105A106A4C	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,490,590:16
202	04:21:13.333	117JE105A106A4D	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,490,590:24
				This slew pattern repats every 16 mf until ...			
202	05:57:34.666	117JE105A106C4BQ	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,490,685:51
202	05:57:40.000	117JE105A106C4BR	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,490,685:59
202	05:57:45.333	117JE105A106C4BS	7STRP	-0.003,0.0,0,0,0	Slew =,0.92	2R7	2,490,685:67
202	05:57:50.666	117JE105A106C4BT	7STRP	0.003,0.0,0,0,0,	Slew =,0.92	2R7	2,490,685:75
202	05:57:56.000	117JE11A	CSMOS	GE	****** GROUP END ******	2R7	2,490,685:83
202	05:58:57.333	157JX156A121A4A	37IOP	0,0	Safe, Grating Start Position =0	2R0	2,490,686:84
202	05:59:04.000	SLJNFRAGMR01		-----STOP-------		2R0	2,490,687:02
202	06:04:05.333	20VQ4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,490,692:00
202	06:04:40.000	480LM6B	6MROH	11,4000,201,A		2R0	2,490,692:52
202	10:34:00.000	480LM6C	6MROH	17,5000,52,B		2R0	2,490,958:86
202	11:44:59.333	165LE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,491,029:14
202	11:45:00.000	165LE4B	7SCAN	NORM,176.279999,	Check S/P Position	2R0	2,491,029:15
203	02:05:16.000	165IV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,491,879:89
203	02:05:16.666	165IV4B	7SCAN	NORM,176.023998,	Check S/P Position	2R0	2,491,879:90
203	02:09:12.666	117IV	CSMOS	GS	***** GROUP START *****	2R0	2,491,883:80
203	02:09:20.000	176IV6A	6TMCHG	NCGHCM		2R0	2,491,884:00
203	02:09:22.000	117IV105A106A4A	7STRP	0.00609,0.0,0,0,	Slew =,0.31	2R0	2,491,884:03
203	02:09:48.666	117IV105A106B4A	7STRP	0.0,0.00087,0,0,	Slew =,3.51	2R0	2,491,884:43
203	02:09:52.666	117IV105A106B4B	7STRP	-0.00609,0.0,0,0	Slew =,0.31	2R0	2,491,884:49
203	02:10:18.666	117IV105A106C4A	7STRP	0.0,0.00087,0,0,	Slew =,3.51	2R0	2,491,884:88
				This slew pattern repats every Rim until ...			
203	04:06:09.266	117IV105A106P4Z	7STRP	0.00609,0.0,0,0,	Slew =,0.31	2R0	2,491,999:49
203	04:06:35.266	117IV105A106Q4Y	7STRP	0.0,0.00087,0,0,	Slew =,3.51	2R0	2,491,999:88
203	04:06:39.266	117IV105A106Q4Z	7STRP	-0.00609,0.0,0,0	Slew =,0.31	2R0	2,492,000:03
203	04:07:05.933	117IV105A106R4Y	7STRP	0.0,-0.00609,0,0	Slew =,3.51	2R0	2,492,000:43
203	04:07:25.933	117IV105A106R4Z	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.31	2R0	2,492,000:73
203	04:07:35.933	117IV11A	CSMOS	GE	****** GROUP END ******	2R0	2,492,000:88
203	05:50:39.933	480NU6B	6MROH	21,5000,73,A		2R0	2,492,102:82
203	06:47:21.933	165IW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	2,492,158:89
203	06:47:22.600	165IW4B	7SCAN	NORM,176.021999,	Check S/P Position	2R0	2,492,158:90
203	06:51:16.600	117IW	CSMOS	GS	***** GROUP START *****	2R0	2,492,162:77
203	06:51:25.933	117IW105A106A4A	7STRP	0.0061,0.0,0,0,0	Slew =,0.39	2R0	2,492,163:00
203	06:51:25.933	176IW6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RECORD	2R0	2,492,163:00
203	06:51:44.600	117IW105A106B4A	7STRP	0.0,0.00087,0,0,	Slew =,0.41	2R0	2,492,163:28
203	06:51:49.266	117IW105A106B4B	7STRP	-0.0061,0.0,0,0,	Slew =,0.39	2R0	2,492,163:35
203	06:52:07.933	117IW105A106C4A	7STRP	0.0,0.00087,0,0,	Slew =,0.41	2R0	2,492,163:63

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
203	06:52:12.600	117IW105A106C4B	7STRP	0.0061,0.0,0,0,0	Slew =,0.39	2R0	2,492,163:70
				This slew pattern repats every Rim until ...			
203	08:51:03.266	117IW105A106G4BH	7STRP	0.0061,0.0,0,0,0	Slew =,0.39	2R0	2,492,281:28
203	08:51:21.933	117IW105A106H4BG	7STRP	0.0,0.00087,0,0,	Slew =,0.41	2R0	2,492,281:56
203	08:51:26.600	117IW105A106H4BH	7STRP	-0.0061,0.0,0,0,	Slew =,0.39	2R0	2,492,281:63
203	08:51:45.266	117IW105A106I4BG	7STRP	0.0,-0.00609,0,0	Slew =,0.41	2R0	2,492,282:00
203	08:52:34.600	117IW105A106I4BH	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.39	2R0	2,492,282:74
203	08:52:41.266	117IW11A	CSMOS	GE	****** GROUP END ******	2R0	2,492,282:84
203	08:57:55.933	20EC4A	7SAFE	UNSTOW	S/P TO 153 deg cone	2R0	2,492,288:10
203	10:05:03.933	20F6A	6MROH	36,202C,0,A		2R0	2,492,354:46
203	10:06:23.933	20F6B	6MROH	36,202C,0,A		2R0	2,492,355:75
203	10:07:43.933	20F6C	6MROH	36,202C,0,A		2R0	2,492,357:13
203	10:20:03.933	20F6D	6MROH	36,202C,0,A		2R0	2,492,369:31
203	10:21:23.933	20F6E	6MROH	36,202C,0,A		2R0	2,492,370:60
203	10:22:43.933	20F6F	6MROH	36,202C,0,A		2R0	2,492,371:89
203	13:29:59.933	480AB6A	6MROH	7,6CCC,0,A		2R0	2,492,557:17
203	13:31:19.933	480AB6B	6MROH	7,6CCC,0,A		2R0	2,492,558:46
203	13:32:39.933	480AB6C	6MROH	7,6CCC,0,A		2R0	2,492,559:75
203	13:34:30.600	20B3B	37F2P	2	Shield Flash Heater ON (primary relay)	2R0	2,492,561:59
203	13:34:33.933	20B3A	37F2P	1	Shield Flash Heater ON (primary relay)	2R0	2,492,561:64
203	13:40:00.000	NIMSSHLDON	0	-----START------		2R0	2,492,567:06
203	13:39:59.933	20YU4A	37IOP	0,0	Safe, Grating Start Position =0	2R0	2,492,567:07
203	13:41:00.600	20YU3A	37AR	1	NIMS Power OFF		2,492,568:07
203	13:41:03.266	20YU3C	37AR	2	NIMS Power OFF		2,492,568:11
203	13:41:20.600	20YU3B	37H	1	Replacement Heaters ON		2,492,568:37
203	13:41:23.266	20YU3D	37H	2	Replacement Heaters ON		2,492,568:41
203	13:45:00.000	NIMSSHLDON		-----STOP-------			2,492,572:01
203	13:48:00.000	SLNNNIMSOF01	7551	-----START------			2,492,574:89
203	13:58:00.000	SLNNNIMSOF01		-----STOP-------			2,492,584:80
203	14:15:03.933	20AH4B	7MODE	CRU	AACS CRUISE MODE		2,492,601:69
203	14:20:03.933	20AI4A	7MODE	SPNL	AACS ALL-SPIN LOW		2,492,606:64
203	14:30:03.933	20AI4B	7SLEW	INIT,NEG,3.5	Stator movement		2,492,616:54
204	03:29:59.933	480LP6A	6MROH	10,4000,140,A			2,493,387:87
204	06:41:59.933	480NV6A	6MROH	21,6720,76,A			2,493,577:77
204	08:24:39.866	480NV6B	6MROH	21,5000,55,A			2,493,679:35
205	07:00:29.866	20SD6A	6DMSR		Tape recorder rewind		2,495,020:29
205	07:14:59.866	20SD6B	6DMSC	S7,1	Tape slew 7.68kbps		2,495,034:60
205	07:16:25.200	20SD6C	6DMSC	RDY,1	Tape stop		2,495,036:06
205	09:06:59.866	480LQ6A	6MROH	10,6C10,60,A			2,495,145:39
205	10:28:19.866	480LQ6B	6MROH	11,4000,41,A			2,495,225:79
206	03:44:59.800	480LR6A	6MROH	11,4D20,159,A			2,496,251:13
206	07:18:19.800	480LR6B	6MROH	17,5000,150,B			2,496,462:12

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
206	10:39:59.800	480NW6A	6MROH	21,6100,95,A			2,496,661:53
207	03:29:03.733	423SK6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,497,659:51
207	03:29:09.733	423SK6B	6DMSC	P7,1	Tape P/B 7.68kbps		2,497,659:60
207	03:30:23.066	423SK6I	6DMSC	RDY,0	Tape stop		2,497,660:79
207	03:30:31.733	423SK6J	6TMCHG	ELS	10 BPS TDM		2,497,661:01
207	03:33:00.400	423SK6K	6MROH	10,4000,19,A			2,497,663:42
207	04:59:59.733	480MF6A	6MROH	35,4800,16,A			2,497,749:45
207	05:22:39.733	480MF6B	6MROH	29,0200,6,A			2,497,771:83
207	05:31:59.733	480MF6C	6MROH	29,0220,6,A			2,497,781:13
207	05:41:19.733	480MF6D	6MROH	29,0685,3,A			2,497,790:34
207	05:46:39.733	480MF6E	6MROH	29,06A5,3,A			2,497,795:59
207	05:52:00.400	423SK6L	6MROH	10,4640,108,A			2,497,800:85
207	13:00:01.066	20SE6A	6DMSC	S7,1	Tape slew 7.68kbps		2,498,224:22
207	13:02:25.733	20SE6B	6DMSC	RDY,1	Tape stop		2,498,226:57
207	22:44:00.333	423SK6M	6MROH	10,6850,70,A			2,498,801:74
208	00:18:40.333	423SK6N	6MROH	17,5000,151,B			2,498,895:40
208	03:41:20.333	423SK6O	6MROH	21,5000,18,A			2,499,095:80
208	04:44:00.333	423SK6P	6MROH	21,55F0,108,A			2,499,157:78
208	07:15:04.333	423TK6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,499,307:24
208	07:15:10.333	423TK6B	6DMSC	P7,1	Tape P/B 7.68kbps		2,499,307:33
208	07:16:23.666	423TK6I	6DMSC	RDY,0	Tape stop		2,499,308:52
208	07:16:32.333	423TK6J	6TMCHG	ELS	10 BPS TDM		2,499,308:65
208	07:20:00.333	423TK6K	6MROH	4,EB00,63,A			2,499,312:13
208	08:45:20.333	423TK6L	6MROH	10,4000,199,A			2,499,396:49
208	13:12:00.333	423TK6M	6MROH	17,5000,51,B			2,499,660:25
209	05:14:00.266	423TK6N	6MROH	17,6040,99,B			2,500,611:64
209	07:27:20.266	423TK6O	6MROH	21,5000,151,A			2,500,743:52
209	10:50:00.266	423TK6P	6MROH	11,4000,19,A			2,500,944:01
209	23:00:00.266	480MG6A	6MROH	35,4800,16,A			2,501,665:90
209	23:22:40.266	480MG6B	6MROH	29,0200,18,A			2,501,688:37
209	23:48:00.266	480MG6C	6MROH	29,0230,18,A			2,501,713:42
210	00:15:00.266	423TK6Q	6MROH	11,4640,116,A			2,501,740:15
210	10:46:00.200	423TK6R	6MROH	11,6AD0,22,A			2,502,364:21
210	11:25:10.200	20SF6A	6DMSC	S115,2	Tape slew 115kbps		2,502,402:88
210	12:06:04.866	20SH6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,502,443:39
210	12:06:10.866	20SH6A	6DMSC	P7,1	Tape P/B 7.68kbps		2,502,443:48
210	12:26:18.200	20SH6AS	6DMSC	RDY,1	Tape stop		2,502,463:39
210	12:26:26.866	20SH6TB	6TMCHG	ELS	10 BPS TDM		2,502,463:52
210	12:27:00.200	423SN6A	6MROH	4,EB00,63,A			2,502,464:11
210	13:52:20.200	423SN6B	6MROH	10,4000,9,A			2,502,548:47
211	04:05:00.200	423SN6C	6MROH	10,4320,189,A			2,503,391:74
211	08:18:20.200	423SN6D	6MROH	17,5000,102,B			2,503,642:33

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
211	22:30:00.133	480MH6A	6MROH	29,0200,18,A			2,504,484:61
211	22:55:20.133	480MH6B	6MROH	29,0220,18,A			2,504,509:66
211	23:22:00.133	423SN6E	6MROH	17,7030,48,B			2,504,536:09
212	00:27:20.133	423SN6F	6MROH	21,5000,151,A			2,504,600:65
212	03:50:00.133	423SN6G	6MROH	11,4000,148,A			2,504,801:14
212	07:15:04.133	20SK6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,505,003:88
212	07:15:10.133	20SK6A	6DMSC	P7,1	Tape P/B 7.68kbps		2,505,004:06
212	07:35:17.466	20SK6AS	6DMSC	RDY,1	Tape stop		2,505,023:88
212	07:35:26.133	20SK6TB	6TMCHG	ELS	10 BPS TDM		2,505,024:10
212	07:39:00.133	423SO6A	6MROH	4,EB00,63,A			2,505,027:58
212	09:04:20.133	423SO6B	6MROH	10,4000,186,A			2,505,112:03
213	10:22:00.066	423SO6C	6MROH	10,7A70,12,A			2,506,613:02
213	10:39:20.066	423SO6D	6MROH	17,5000,135,B			2,506,630:15
214	04:13:00.000	480MI6A	6MROH	35,4700,19,A			2,507,672:23
214	04:39:40.000	480MI6B	6MROH	29,0200,18,A			2,507,698:57
214	05:05:00.000	480MI6C	6MROH	29,0230,18,A			2,507,723:62
214	05:32:00.000	423SO6E	6MROH	17,7A80,15,B			2,507,750:35
214	05:53:20.000	423SO6F	6MROH	21,5000,151,A			2,507,771:44
214	09:16:00.000	423SO6G	6MROH	11,4000,148,A			2,507,971:84
214	12:55:01.333	20SM6A	6DMSC	S28,1	Tape slew 28.8kbp		2,508,188:49
214	13:15:04.000	20AO3A	40T1P	1	PCT Heater 1 ON (primary relay)		2,508,208:33
214	13:15:10.000	20AO3B	40T1P	2	PCT Heater 1 ON (primary relay)		2,508,208:42
214	23:32:00.000	20AP4B	7SLEW	DIS,POS,0.0	Stator movement		2,508,818:47
214	23:33:00.000	20AP4C	7SAFE	UNSTOW	S/P TO 153 deg cone		2,508,819:46
214	23:39:30.000	20AP4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire		2,508,825:85
214	23:39:30.666	20AP4H	7VENT	0.611,11.022,8	ALERT -- Thruster fire		2,508,825:86
214	23:39:50.666	20AP4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire		2,508,826:25
214	23:39:51.333	20AP4J	7VENT	0.611,11.022,6	ALERT -- Thruster fire		2,508,826:26
214	23:40:11.333	20AP4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire		2,508,826:56
214	23:40:12.000	20AP4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire		2,508,826:57
214	23:40:22.000	20AP4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire		2,508,826:72
214	23:40:22.666	20AP4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire		2,508,826:73
214	23:40:32.666	20AP4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire		2,508,826:88
214	23:40:33.333	20AP4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire		2,508,826:89
214	23:43:40.000	20AP4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire		2,508,830:05
214	23:43:40.666	20AP4T	7VENT	0.611,11.022,7	ALERT -- Thruster fire		2,508,830:06
214	23:44:00.666	20AP4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire		2,508,830:36
214	23:44:01.333	20AP4V	7VENT	0.611,11.022,1	ALERT -- Thruster fire		2,508,830:37
214	23:44:21.333	20AP4W	7VENT	0.611,1.333,2	ALERT -- Thruster fire		2,508,830:67
214	23:44:22.000	20AP4X	7VENT	0.611,0.666,3	ALERT -- Thruster fire		2,508,830:68
214	23:44:32.000	20AP4Y	7VENT	0.611,1.333,2	ALERT -- Thruster fire		2,508,830:83
214	23:44:32.666	20AP4Z	7VENT	0.611,0.666,3	ALERT -- Thruster fire		2,508,830:84

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
214	23:44:42.666	20AP4AA	7VENT	1.211,1.333,9	ALERT -- Thruster fire		2,508,831:08
214	23:44:43.333	20AP4AB	7VENT	1.211,0.666,11	ALERT -- Thruster fire		2,508,831:09
214	23:53:50.000	20AP4AG	7SLEW	INIT,NEG,3.5	Stator movement		2,508,840:10
215	02:00:04.000	20AQ3A	40T1PR	1	PCT Heater 1 OFF (primary relay)		2,508,964:87
215	02:00:10.000	20AQ3B	40T1PR	2	PCT Heater 1 OFF (primary relay)		2,508,965:05
215	04:20:04.000	423SL6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,509,103:38
215	04:20:10.000	423SL6B	6DMSC	P7,2	Tape P/B 7.68kbps		2,509,103:47
215	04:21:23.333	423SL6I	6DMSC	RDY,0	Tape stop		2,509,104:66
215	04:21:32.000	423SL6J	6TMCHG	ELS	10 BPS TDM		2,509,104:79
215	06:02:00.600	423SL6K	6MROH	10,4000,199,A			2,509,204:22
215	10:28:40.600	423SL6L	6MROH	17,5000,135,B			2,509,467:89
215	23:58:00.600	423SL6M	6MROH	17,7A80,15,B			2,510,268:38
216	00:19:20.600	423SL6N	6MROH	21,5000,127,A			2,510,289:47
216	03:00:01.266	20SP6A	6DMSC	S115,2	Tape slew 115kbps		2,510,448:39
216	03:28:03.933	20SR6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,510,476:15
216	03:28:09.933	20SR6A	6DMSC	P7,3	Tape P/B 7.68kbps		2,510,476:24
216	03:47:37.933	20SR6AJ	6DMSC	RDY,3	Tape stop		2,510,495:47
216	03:47:46.600	20SR6TB	6TMCHG	ELS	10 BPS TDM		2,510,495:60
216	04:38:00.600	423SV6A	6MROH	4,EB00,63,A			2,510,545:31
216	06:03:20.600	423SV6B	6MROH	10,4000,199,A			2,510,629:67
216	10:30:00.533	423SV6C	6MROH	17,5000,3,B			2,510,893:43
216	22:13:00.533	423SV6D	6MROH	17,5140,147,B			2,511,588:68
217	01:30:20.533	423SV6E	6MROH	21,5000,44,A			2,511,783:83
217	10:17:00.533	423SV6F	6MROH	21,5E10,106,A			2,512,304:72
217	12:39:40.533	423SV6G	6MROH	11,4000,44,A			2,512,445:81
217	22:12:59.800	480MJ6A	6MROH	35,4700,19,A			2,513,012:83
217	22:39:39.800	480MJ6B	6MROH	29,0200,18,A			2,513,039:26
217	23:04:59.800	480MJ6C	6MROH	29,0220,18,A			2,513,064:31
219	01:22:00.400	423SV6H	6MROH	11,4E10,154,A			2,514,624:02
219	04:48:40.400	423SV6I	6MROH	5,EB00,17,B			2,514,828:38
219	07:22:59.733	480MK6A	6MROH	29,0200,18,A			2,514,981:04
219	07:48:19.733	480MK6B	6MROH	29,0230,18,A			2,515,006:09
219	08:33:03.733	20SU6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,515,050:31
219	08:33:09.733	20SU6A	6DMSC	P7,3	Tape P/B 7.68kbps		2,515,050:40
219	08:52:37.733	20SU6AJ	6DMSC	RDY,3	Tape stop		2,515,069:63
219	08:52:46.400	20SU6TB	6TMCHG	ELS	10 BPS TDM		2,515,069:76
219	08:58:00.400	423SZ6A	6MROH	4,EB00,63,A			2,515,075:01
219	10:23:20.400	423SZ6B	6MROH	10,4000,8,A			2,515,159:37
219	23:12:00.400	423SZ6C	6MROH	10,42D0,177,A			2,515,919:57
		481AA4A	7VECT		Inert vect update UTC		2,518,948:88
222	04:38:00.266	480ML6A	6MROH	35,4700,19,A			2,519,090:36
222	05:04:40.266	480ML6B	6MROH	29,0200,18,A			2,519,116:70

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
222	05:30:00.266	480ML6C	6MROH	29,0220,18,A			2,519,141:75
222	06:00:00.266	423SZ6D	6MROH	10,7A70,12,A			2,519,171:45
222	06:17:20.266	423SZ6E	6MROH	17,5000,94,B			2,519,188:58
223	21:42:00.133	480MM6A	6MROH	35,4700,19,A			2,521,527:29
223	22:08:40.133	480MM6B	6MROH	29,0200,18,A			2,521,553:63
223	22:34:00.133	480MM6C	6MROH	29,0230,18,A			2,521,578:68
223	23:00:00.133	423SZ6F	6MROH	17,6DB0,56,B			2,521,604:42
224	00:16:00.133	423SZ6G	6MROH	21,5000,91,A			2,521,679:57
224	02:47:00.133	423SZ6H	6MROH	21,6CC0,59,A			2,521,828:88
224	04:07:00.133	423SZ6I	6MROH	11,4000,199,A			2,521,908:08
224	08:33:40.133	423SZ6J	6MROH	5,EB00,17,B			2,522,171:75
224	09:05:00.800	20SW6A	6DMSC	S115,3	Tape slew 115.2kb		2,522,202:75
224	10:10:04.133	423SM6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,522,267:15
224	10:10:10.133	423SM6B	6DMSC	P7,4	Tape P/B 7.68kbps		2,522,267:24
224	10:11:23.466	423SM6I	6DMSC	RDY,0	Tape stop		2,522,268:43
224	10:11:32.133	423SM6J	6TMCHG	ELS	10 BPS TDM		2,522,268:56
224	10:32:00.133	423SM6K	6MROH	10,4000,109,A			2,522,288:78
225	03:33:00.066	423SM6L	6MROH	10,6260,89,A			2,523,298:58
225	05:33:00.066	423SM6M	6MROH	17,5000,151,B			2,523,417:29
225	08:55:40.066	423SM6N	6MROH	21,5000,127,A			2,523,617:69
225	11:40:00.733	20SZ6A	6DMSC	S115,2	Tape slew 115kbps		2,523,780:27
225	12:40:04.066	20TE6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,523,839:63
225	12:40:10.066	20TE6A	6DMSC	P7,1	Tape P/B 7.68kbps		2,523,839:72
225	12:40:47.400	20TE6E	6DMSC	RDY,1	Tape stop		2,523,840:37
225	12:40:56.066	20TE6TB	6TMCHG	ELS	10 BPS TDM		2,523,840:50
225	23:58:00.066	423TE6A	6MROH	10,4000,97,A			2,524,510:16
226	03:11:00.000	423TE6B	6MROH	10,5EA0,101,A			2,524,701:05
226	05:27:00.000	423TE6C	6MROH	17,5000,18,B			2,524,835:51
226	06:01:00.000	423TE6D	6MROH	17,55F0,132,B			2,524,869:17
226	08:58:20.000	423TE6E	6MROH	21,5000,43,A			2,525,044:52
226	10:06:04.000	20TF6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,525,111:51
226	10:06:10.000	20TF6A	6DMSC	P7,1	Tape P/B 7.68kbps		2,525,111:60
226	10:06:47.333	20TF6E	6DMSC	RDY,1	Tape stop		2,525,112:25
226	10:06:56.000	20TF6TB	6TMCHG	ELS	10 BPS TDM		2,525,112:38
226	10:10:00.000	423TF6A	6MROH	10,4000,126,A			2,525,115:41
227	03:18:00.000	423TF6B	6MROH	10,67B0,72,A			2,526,132:14
227	04:55:20.000	423TF6C	6MROH	17,5000,151,B			2,526,228:38
227	08:17:59.933	423TF6D	6MROH	21,5000,43,A			2,526,428:78
227	09:35:03.933	20TG6TA	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK		2,526,505:07
227	09:35:09.933	20TG6A	6DMSC	P7,1	Tape P/B 7.68kbps		2,526,505:16
227	09:35:47.266	20TG6E	6DMSC	RDY,1	Tape stop		2,526,505:72
227	09:35:55.933	20TG6TB	6TMCHG	ELS	10 BPS TDM		2,526,505:85

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
227	09:40:00.600	423TG6A	6MROH	10,4000,148,A			2,526,509:88
227	14:26:00.600	423TG6B	6MROH	10,6E90,50,A			2,526,792:75
227	15:34:00.600	423TG6C	6MROH	17,5000,151,B			2,526,860:07
227	18:56:40.600	423TG6D	6MROH	21,5000,43,A			2,527,060:47

PA Summary Table

This summary is a listing of the PAs (Profile Activities) used by NIMS during the SL9 Encounter.

INPUT FILE: EJ7HIA.SEF

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
S/C-HTRS	UTILITY	20A	02477825:78	02477830:73	94-193/05:14:59	
S/C-HTRS	UTILITY	20AB	02477840:63	02477845:58	94-193/05:29:59	
SLNNNIMSON01	UTILITY	20ZU	02477900:03	02477902:69	94-193/06:29:59	NIMS ON
SLJNREFJUP01	TARGET	165JA	02480841:89	02480847:00	94-195/08:04:37	JUPITER
SLJNREFJUP01	CMDRS	157JA	02480843:00	02480849:00	94-195/08:05:39	JUPITER
SLJNREFJUP01	CSMOS	117JA	02480845:77	02480846:88	94-195/08:08:32	JUPITER
SLJNREFJUP01	SCITLM	176JA	02480845:78	02480846:00	94-195/08:08:33	JUPITER
SLJNREFJUP01	SCIREC	175JA	02480845:85	02480847:01	94-195/08:08:37	JUPITER
SLJNFRAGMC01	TARGET	165JB	02484958:89	02484963:00	94-198/05:27:22	JUPITER
SLJNFRAGMC01	CMDRS	157JB	02484961:00	02484964:00	94-198/05:29:24	JUPITER
SLJNFRAGMC01	CSMOS	117JB	02484962:77	02485058:83	94-198/05:31:16	JUPITER
SLJNFRAGMC01	SCITLM	176JB	02484963:00	02484963:13	94-198/05:31:26	JUPITER
SLJNFRAGMC01	CMDRS	157JZ	02485059:00	02485062:00	94-198/07:08:30	JUPITER
SLJNFRAGMF01	TARGET	165JC	02485991:89	02485996:00	94-198/22:51:50	JUPITER
SLJNFRAGMF01	CMDRS	157JC	02485994:00	02485997:00	94-198/22:53:53	JUPITER
SLJNFRAGMF01	CSMOS	117JC	02485995:77	02486091:83	94-198/22:55:45	JUPITER
SLJNFRAGMF01	SCITLM	176JC	02485996:00	02485996:13	94-198/22:55:54	JUPITER
SLJNFRAGMF01	CMDRS	157JW	02486092:00	02486095:00	94-199/00:32:58	JUPITER
SLJNFRAGMG01	TARGET	165JD	02486427:89	02486432:00	94-199/06:12:41	JUPITER
SLJNFRAGMG01	CMDRS	157JD	02486430:00	02486433:00	94-199/06:14:44	JUPITER
SLJNFRAGMG01	CSMOS	117JD	02486431:77	02486527:83	94-199/06:16:36	JUPITER
SLJNFRAGMG01	SCITLM	176JD	02486432:00	02486432:13	94-199/06:16:45	JUPITER
SLJNFRAGMG01	CMDRS	157JY	02486528:00	02486531:00	94-199/07:53:49	JUPITER
SLJNFRAGMR01	TARGET	165JE	02490585:89	02490590:00	94-202/04:16:53	JUPITER
SLJNFRAGMR01	CMDRS	157JE	02490588:00	02490591:00	94-202/04:18:56	JUPITER
SLJNFRAGMR01	CSMOS	117JE	02490589:77	02490685:83	94-202/04:20:48	JUPITER
SLJNFRAGMR01	SCITLM	176JE	02490590:00	02490590:13	94-202/04:20:57	JUPITER
SLJNFRAGMR01	CMDRS	157JX	02490686:00	02490689:00	94-202/05:58:01	JUPITER
SLNNNIMOFF01	UTILITY	20YU	02492567:07	02492568:51	94-203/13:39:59	NIMS OFF

```
                    NIMS Obstab (Planned)

 Heading             Columns     Comments
------------------------------------------------------------------------------
  OAPEL                1 -  12     .Oapel Name from SEF (no aliases yet)
  EXT                 14 -  14     .Extension (allow for split OAPELs)
  PSID                16 -  17     .2 Letter ID for the OAPEL
  SCLK1               19 -  29     .Start time of OBS in SCLK
  SCLK2               31 -  41     .STOP time of OBS in SCLK
  MODE                43 -  44     .NIMS Instrument MODE
  GAIN                46 -  47     .Gain State (true value)
  CHOP                49 -  50     .Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)
  GRAT_OFF            52 -  53     .Grating Offset
  PTAB_A(6)           55 -  71     .First PTAB  (repeat count,mirror op,autobias...
  PTAB_B(6)           73 -  89     .Second PTAB (...grating start, grating delta...
                                   .            (...number of grating postions)
  ECAL                92 -  92     .Electronics Calibration Active (1=yes)
  OPCAL               94 -  94     .Optics Calibration active (1=yes)
  UTC1                96 - 112     .Start time of OBS in UTC (from SEF - ISO STANDARD)
  REAL_TIME          115 - 115     .NIMS in Real-Time Telemetry (1=yes)
  RECORD             117 - 117     .NIMS in Record Telemetry(1=yes)
  TARGET             120 - 127     .Primary Target of OBS
                                    JUPITER     - J - Jupiter
  (the single letter abbreviation appears as the third character in the OBSNAME (OAPEL Name) ).
 INPUT SEF FILE: EJ7HIA.SEF
------------------------------------------------------------------------------------------------------------------------------
OAPEL, EXT, PSID, SCLK1, SCLK2, MODE, GAIN, CHOP, GRAT_OFF, PTAB_A(6), PTAB_B(6), ECAL, OPCAL, UTC1, REAL_TIME, RECORD, TARGET

OAPEL      EXT PSID SCLK1       SCLK2      M  G  C  O  |    PTAB A    |  |    PTAB B    |  E O      UTC1          R T  TARGET
------------------------------------------------------------------------------------------------------------------------------
SLJNREFJUP01 A JA 02480846:00 02480846:90  7  2  1  4  1  1  0  2  0 12  1  1  0  2  0 12  0 0 1994-195T08:08:41  0 1  JUPITER

SLJNFRAGMC01 A JB 02484979:06 02485043:06  7  2  1  4  1  1  0  2  0 12  1  1  0  2  0 12  0 0 1994-198T05:47:40  0 1  JUPITER

SLJNFRAGMF01 A JC 02486012:06 02486076:06  7  2  1  4  1  1  0  2  0 12  1  1  0  2  0 12  0 0 1994-198T23:12:09  0 1  JUPITER

SLJNFRAGMG01 A JD 02486448:06 02486512:06  7  2  1  4  1  1  0  2  0 12  1  1  0  2  0 12  0 0 1994-199T06:33:00  0 1  JUPITER

SLJNFRAGMR01 A JE 02490606:06 02490670:06  7  2  1  4  1  1  0  2  0 12  1  1  0  2  0 12  0 0 1994-202T04:37:12  0 1  JUPITER
------------------------------------------------------------------------------------------------------------------------------
```