Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS IDA 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 EJ2 and EJ3 Sequences. The information in this summary is derived from the EJ2 and EJ3 SEFs (Spacecraft Event File) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are ten columns of information in this table:

1) YR - Year
2) DOY - Day of Year.
3) Time - SCET Time (UTC).
4) PSID - Parameter Set ID of the SEF line.
5) Command - Command name from the SEF.
6) Parameters - Parameters from the above Command Line.
7) Description - Description of the above Command for NIMS.
8) GCM - NIMS Gain, Chopper mode, Instrument Mode.
   Gain = 1,2,3 or 4.
   Chopper Mode = R (Reference) or 6 (63Hz).
   Instrement Mode = 0-15
9) O S - Grating Offset.
10) 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 EJ2 and EJ3 SEFs 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 EJ2 and EJ3 SEFs.

Sequence: EJ02CC   Created: 06/14/93   Begin: 93-187/16:15:00.000   Finish: 93-239/11:00:00.000

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	187	21:25:05.466	20K3A	40T1P	1	PCT Heater 1 ON (primary relay)			1,950,415:64:0		
93	187	21:25:10.800	20K3B	40T1P	2	PCT Heater 1 ON (primary relay)			1,950,415:72:0		
93	188	14:44:04.133	20A4B	7SAFE	UNSTOW	Check S/P Position			1,951,443:24:0		
93	188	15:05:04.133	20A4F	7SLEW	DIS,POS,0.0	Stator movement			1,951,464:03:0		
93	188	15:07:04.133	20A4H	7MODE	SPNL	All-Spin Mod			1,951,466:01:0		
93	188	15:09:04.133	20A4I	7SAFE	UNSTOW	Check S/P Position			1,951,467:90:0		
93	188	15:15:04.066	20A4K	7VENT	0.6,1.333,8	ALERT -- Thruster fire			1,951,473:84:0		
93	188	15:15:04.733	20A4L	7VENT	0.6,11.022,8	ALERT -- Thruster fire			1,951,473:85:0		
93	188	15:16:04.733	20A4M	7VENT	0.6,1.333,6	ALERT -- Thruster fire			1,951,474:84:0		
93	188	15:16:05.400	20A4N	7VENT	0.6,11.022,6	ALERT -- Thruster fire			1,951,474:85:0		
93	188	15:20:18.066	20A4Q	7VENT	0.6,1.333,7	ALERT -- Thruster fire			1,951,479:09:0		
93	188	15:20:18.733	20A4R	7VENT	0.6,11.022,7	ALERT -- Thruster fire			1,951,479:10:0		
93	188	15:21:18.733	20A4S	7VENT	0.6,1.333,1	ALERT -- Thruster fire			1,951,480:09:0		
93	188	15:21:19.400	20A4T	7VENT	0.6,11.022,1	ALERT -- Thruster fire			1,951,480:10:0		
93	188	15:23:32.066	20A4V	7MODE	CRU	Dual-Spin Mo			1,951,482:27:0		
93	188	15:35:00.066	498A4B	7SAFE	UNSTOW	Check S/P Position			1,951,493:58:0		
93	188	16:07:00.066	498A4D	7MODE	INT	Dual-Spin Mo			1,951,525:26:0		
93	188	16:09:01.400	498A4F	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster fire			1,951,527:26:0		
93	188	16:22:26.066	498A4G	7BURN	LAT,179.745998,-	ALERT -- Thruster fire			1,951,540:50:0		
93	188	16:35:51.400	498A4I	7BURN	LAT,179.745998,-	ALERT -- Thruster fire			1,951,553:75:0		
93	188	16:49:16.066	498A4J	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster fire			1,951,567:08:0		
93	188	17:02:41.400	498A4L	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster fire			1,951,580:33:0		
93	188	17:16:01.400	498A4N	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster fire			1,951,593:50:0		
93	188	18:15:02.066	490A412A4B	7MODE	INT	Dual-Spin Mo			1,951,651:83:0		
93	188	18:17:52.066	490A476A6A	6TMCHG	ELSLRS	NO DNL			1,951,654:65:0		
93	188	18:20:00.066	490A412A4D	7SAFE	UNSTOW	Check S/P Position			1,951,656:75:0		
93	188	16:30:00.000	490A412A4E	7VECT	RTH	Inertial vect update U			1,951,660:86:0		
93	188	18:24:14.066	490A412A4F	7TURN	1,RTH	ALERT -- Thruster fire			1,951,661:01:0		
93	188	18:28:02.066	490A412A406A4A	7STAR	1,1701,278.81399	Star catalog update			1,951,664:70:0		
93	188	18:28:04.066	490A412A406A4B	7STAR	2,159,27.236,89.	Star catalog update			1,951,664:73:0		
93	188	18:28:06.066	490A412A406A4C	7STAR	3,172,89.077999,	Star catalog update			1,951,664:76:0		
93	188	18:28:08.066	490A412A406A4D	7STAR	4,395,305.426998	Star catalog update			1,951,664:79:0		
93	188	18:28:10.066	490A412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update			1,951,664:82:0		
93	188	18:28:12.066	490A412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update			1,951,664:85:0		
93	188	19:43:10.733	490A412A4K	7MODE	CRU	Dual-Spin Mo			1,951,739:08:0		
93	188	19:45:12.733	490A412A4M	7SAFE	UNSTOW	Check S/P Position			1,951,741:09:0		
93	189	17:05:05.400	20L3A	40T1PR	1	PCT Heater 1 OFF (primary relay)			1,953,006:83:0		
93	189	17:05:10.733	20L3B	40T1PR	2	PCT Heater 1 OFF (primary relay)			1,953,007:00:0		
93	193	16:03:19.800	444A443A4B	7MODE	INT	Dual-Spin Mo			1,958,642:49:0		
93	193	16:38:59.800	20DA6A	6DMSC	RDY,2	Tape stopped			1,958,677:74:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	193	16:45:15.133	192GA4A	7CONE	10.0,175.0	Check S/P Position			1,958,684	00	0
93	193	16:48:15.800	165GA4A	7TMOT	DIS,TMC	Target motion compensa			1,958,686	89	0
93	193	16:48:16.466	165GA4B	7SCAN	NORM,192.308998,	Check S/P Position			1,958,686	90	0
93	193	16:53:20.466	176GA6A	6TMCHG	NCGHCM	Dnlnk			1,958,692	00	0
93	193	16:56:56.466	118GA110A111A4A	7STRP	0.0,-0.0005,14,0	Slew =,2.43			1,958,695	51	0
93	93/	16:57:05.800	118GA110A111A4B	7STRP	-0.0006,-0.0005,	Slew =,2.41			1,958,695	65	0
93	193	16:57:10.466	118GA110A111A4C	7STRP	0.0,-0.0005,14,0	Slew =,2.43			1,958,695	72	0
93	193	16:57:22.466	175GA422A6A	6DMSC	R115,0	Record 115.2kbps			1,958,695	90	0
93	193	16:57:53.800	175GA422A6B	6DMSC	RDY,0	Tape stopped			1,958,696	46	0
93	193	16:58:29.133	20GA4A	7SAFE	UNSTOW	Check S/P Position			1,958,697	08	0
93	193	17:05:31.800	20EA6A	6DMSC	S115,3	Slew 115.2kbps			1,958,704	05	0
93	193	17:06:03.133	20EA6B	6DMSC	RDY,2	Tape stopped			1,958,704	52	0
93	193	17:14:59.800	444B443A4A	7MODE	CRU	Dual-Spin Mo			1,958,713	38	0
93	193	18:15:03.133	423A6A	6TMCHG	LPB	NO DNL			1,958,772	74	0
93	193	18:15:09.133	423A6B	6DMSC	P7,2	Playback 7.68kbps			1,958,772	83	0
93	193	18:16:22.466	423A6I	6DMSC	RDY,0	Tape stopped			1,958,774	11	0
93	193	18:16:31.133	423A6J	6TMCHG	ELS	NO DNL			1,958,774	24	0
93	193	18:18:02.466	423A6K	6DMSC	S7,1	Slew 7.68kbps			1,958,775	70	0
93	193	18:18:09.800	423A6L	6DMSC	RDY,2	Tape stopped			1,958,775	81	0
93	193	23:15:03.133	423B6A	6TMCHG	LPB	NO DNL			1,959,069	47	0
93	193	23:15:09.133	423B6B	6DMSC	P7,2	Playback 7.68kbps			1,959,069	56	0
93	193	23:16:22.466	423B6I	6DMSC	RDY,0	Tape stopped			1,959,070	75	0
93	193	23:16:31.133	423B6J	6TMCHG	ELS	NO DNL			1,959,070	88	0
93	193	23:18:02.466	423B6K	6DMSC	S7,1	Slew 7.68kbps			1,959,072	43	0
93	193	23:18:09.800	423B6L	6DMSC	RDY,2	Tape stopped			1,959,072	54	0
93	194	20:10:03.066	423C6A	6TMCHG	LPB	NO DNL			1,960,310	66	0
93	194	20:10:09.066	423C6B	6DMSC	P7,2	Playback 7.68kbps			1,960,310	75	0
93	194	20:11:22.400	423C6I	6DMSC	RDY,0	Tape stopped			1,960,312	03	0
93	194	20:11:31.066	423C6J	6TMCHG	ELS	NO DNL			1,960,312	16	0
93	194	20:13:02.400	423C6K	6DMSC	S7,1	Slew 7.68kbps			1,960,313	62	0
93	194	20:13:09.733	423C6L	6DMSC	RDY,2	Tape stopped			1,960,313	73	0
93	197	17:13:44.266	20D4B	7STAT	+17.45,0.0,90.0	Stator inertial point			1,964,408	80	0
93	197	17:16:44.266	20D4C	7SAFE	UNSTOW	Check S/P Position			1,964,411	77	0
93	198	06:15:04.266	423D6A	6TMCHG	LPB	NO DNL			1,965,181	57	0
93	198	06:15:10.266	423D6B	6DMSC	P7,2	Playback 7.68kbps			1,965,181	66	0
93	198	06:16:23.600	423D6I	6DMSC	RDY,0	Tape stopped			1,965,182	85	0
93	198	06:16:32.266	423D6J	6TMCHG	ELS	NO DNL			1,965,183	07	0
93	198	06:18:03.600	423D6K	6DMSC	S7,1	Slew 7.68kbps			1,965,184	53	0
93	198	06:18:10.933	423D6L	6DMSC	RDY,2	Tape stopped			1,965,184	64	0
93	198	11:00:04.266	423E6A	6TMCHG	LPB	NO DNL			1,965,463	45	0
93	198	11:00:10.266	423E6B	6DMSC	P7,2	Playback 7.68kbps			1,965,463	54	0
93	198	11:01:23.600	423E6I	6DMSC	RDY,0	Tape stopped			1,965,464	73	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O	S	RIM	MF	I
93	198	11:01:32.266	423E6J	6TMCHG	ELS	NO DNL				1,965,464	86	0
93	198	11:03:03.600	423E6K	6DMSC	S7,1	Slew 7.68kbps				1,965,466	41	0
93	198	11:03:10.933	423E6L	6DMSC	RDY,2	Tape stopped				1,965,466	52	0
93	198	16:00:04.200	423F6A	6TMCHG	LPB	NO DNL				1,965,760	18	0
93	198	16:00:10.200	423F6B	6DMSC	P7,2	Playback 7.68kbps				1,965,760	27	0
93	198	16:01:23.533	423F6I	6DMSC	RDY,0	Tape stopped				1,965,761	46	0
93	198	16:01:32.200	423F6J	6TMCHG	ELS	NO DNL				1,965,761	59	0
93	198	16:03:03.533	423F6K	6DMSC	S7,1	Slew 7.68kbps				1,965,763	14	0
93	198	16:03:10.866	423F6L	6DMSC	RDY,2	Tape stopped				1,965,763	25	0
93	198	21:00:04.200	423G6A	6TMCHG	LPB	NO DNL				1,966,056	82	0
93	198	21:00:10.200	423G6B	6DMSC	P7,2	Playback 7.68kbps				1,966,057	00	0
93	198	21:01:23.533	423G6I	6DMSC	RDY,0	Tape stopped				1,966,058	19	0
93	198	21:01:32.200	423G6J	6TMCHG	ELS	NO DNL				1,966,058	32	0
93	203	21:47:19.933	444C443A4B	7MODE	INT	Dual-Spin Mo				1,973,224	48	0
93	203	22:23:11.933	192GB4A	7CONE	10.0,175.0	Check S/P Position				1,973,260	00	0
93	203	22:26:12.600	165GB4A	7TMOT	DIS,TMC	Target motion compensa				1,973,262	89	0
93	203	22:26:13.266	165GB4B	7SCAN	NORM,192.299999,	Check S/P Position				1,973,262	90	0
93	203	22:31:17.266	176GB6A	6TMCHG	NCGHCM	Dnlnk				1,973,268	00	0
93	203	22:34:53.266	118GB110A111A4A	7STRP	0.0,-0.0005,14,0	Slew =,2.42				1,973,271	51	0
93	03/	22:35:02.600	118GB110A111A4B	7STRP	-0.0006,-0.0005,	Slew =,2.41				1,973,271	65	0
93	203	22:35:07.266	118GB110A111A4C	7STRP	0.0,-0.0005,14,0	Slew =,2.42				1,973,271	72	0
93	203	22:35:19.266	175GB422A6A	6DMSC	R115,0	Record 115.2kbps				1,973,271	90	0
93	203	22:35:50.600	175GB422A6B	6DMSC	RDY,0	Tape stopped				1,973,272	46	0
93	203	22:36:25.266	20GB4A	7SAFE	UNSTOW	Check S/P Position				1,973,273	07	0
93	203	22:43:27.933	20EB6A	6DMSC	S115,3	Slew 115.2kbps				1,973,280	04	0
93	203	22:43:59.266	20EB6B	6DMSC	RDY,2	Tape stopped				1,973,280	51	0
93	203	22:54:59.933	444D443A4A	7MODE	CRU	Dual-Spin Mo				1,973,291	41	0
93	204	00:55:03.266	423I6A	6TMCHG	LPB	NO DNL				1,973,410	17	0
93	204	00:55:09.266	423I6B	6DMSC	P7,2	Playback 7.68kbps				1,973,410	26	0
93	204	00:56:22.600	423I6I	6DMSC	RDY,0	Tape stopped				1,973,411	45	0
93	204	00:56:31.266	423I6J	6TMCHG	ELS	NO DNL				1,973,411	58	0
93	204	00:58:02.600	423I6K	6DMSC	S7,1	Slew 7.68kbps				1,973,413	13	0
93	204	00:58:09.933	423I6L	6DMSC	RDY,2	Tape stopped				1,973,413	24	0
93	204	14:56:03.933	423J6A	6TMCHG	LPB	NO DNL				1,974,241	87	0
93	204	14:56:09.933	423J6B	6DMSC	P7,2	Playback 7.68kbps				1,974,242	05	0
93	204	14:57:23.266	423J6I	6DMSC	RDY,0	Tape stopped				1,974,243	24	0
93	204	14:57:31.933	423J6J	6TMCHG	ELS	NO DNL				1,974,243	37	0
93	204	14:59:03.266	423J6K	6DMSC	S7,1	Slew 7.68kbps				1,974,244	83	0
93	204	14:59:10.600	423J6L	6DMSC	RDY,2	Tape stopped				1,974,245	03	0
93	204	22:22:03.866	423K6A	6TMCHG	LPB	NO DNL				1,974,683	05	0
93	204	22:22:09.866	423K6B	6DMSC	P7,2	Playback 7.68kbps				1,974,683	14	0
93	204	22:23:23.200	423K6I	6DMSC	RDY,0	Tape stopped				1,974,684	33	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	204	22:23:31.866	423K6J	6TMCHG	ELS	NO DNL			1,974,684:46:0
93	204	22:25:03.200	423K6K	6DMSC	S7,1	Slew 7.68kbps			1,974,686:01:0
93	204	22:25:10.533	423K6L	6DMSC	RDY,2	Tape stopped			1,974,686:12:0
93	205	14:58:03.866	423L6A	6TMCHG	LPB	NO DNL			1,975,668:10:0
93	205	14:58:09.866	423L6B	6DMSC	P7,2	Playback 7.68kbps			1,975,668:19:0
93	205	14:59:23.200	423L6I	6DMSC	RDY,0	Tape stopped			1,975,669:38:0
93	205	14:59:31.866	423L6J	6TMCHG	ELS	NO DNL			1,975,669:51:0
93	205	15:01:03.200	423L6K	6DMSC	S7,1	Slew 7.68kbps			1,975,671:06:0
93	205	15:01:10.533	423L6L	6DMSC	RDY,2	Tape stopped			1,975,671:17:0
93	205	21:38:03.800	423M6A	6TMCHG	LPB	NO DNL			1,976,063:65:0
93	205	21:38:09.800	423M6B	6DMSC	P7,2	Playback 7.68kbps			1,976,063:74:0
93	205	21:39:23.133	423M6I	6DMSC	RDY,0	Tape stopped			1,976,065:02:0
93	205	21:39:31.800	423M6J	6TMCHG	ELS	NO DNL			1,976,065:15:0
93	205	21:41:03.133	423M6K	6DMSC	S7,1	Slew 7.68kbps			1,976,066:61:0
93	205	21:41:10.466	423M6L	6DMSC	RDY,2	Tape stopped			1,976,066:72:0
93	206	20:20:03.800	423N6A	6TMCHG	LPB	NO DNL			1,977,410:68:0
93	206	20:20:09.800	423N6B	6DMSC	P7,2	Playback 7.68kbps			1,977,410:77:0
93	206	20:21:23.133	423N6I	6DMSC	RDY,0	Tape stopped			1,977,412:05:0
93	206	20:21:31.800	423N6J	6TMCHG	ELS	NO DNL			1,977,412:18:0
93	206	20:23:03.133	423N6K	6DMSC	S7,1	Slew 7.68kbps			1,977,413:64:0
93	206	20:23:10.466	423N6L	6DMSC	RDY,2	Tape stopped			1,977,413:75:0
93	207	01:06:03.800	423O6A	6TMCHG	LPB	NO DNL			1,977,693:55:0
93	207	01:06:09.800	423O6B	6DMSC	P7,2	Playback 7.68kbps			1,977,693:64:0
93	207	01:07:23.133	423O6I	6DMSC	RDY,0	Tape stopped			1,977,694:83:0
93	207	01:07:31.800	423O6J	6TMCHG	ELS	NO DNL			1,977,695:05:0
93	208	21:55:05.666	20M3A	40T1P	1	PCT Heater 1 ON (primary relay)			1,980,353:08:0
93	208	21:55:11.000	20M3B	40T1P	2	PCT Heater 1 ON (primary relay)			1,980,353:16:0
93	209	14:44:04.266	20E4B	7SAFE	UNSTOW	Check S/P Position			1,981,350:89:0
93	209	15:05:04.266	20E4F	7SLEW	DIS,POS,0.0	Stator movement			1,981,371:68:0
93	209	15:07:04.266	20E4H	7MODE	SPNL	All-Spin Mod			1,981,373:66:0
93	209	15:09:04.266	20E4I	7SAFE	UNSTOW	Check S/P Position			1,981,375:64:0
93	209	15:15:04.266	20E4K	7VENT	0.6,1.333,8	ALERT -- Thruster fire			1,981,381:58:0
93	209	15:15:04.933	20E4L	7VENT	0.6,11.022,8	ALERT -- Thruster fire			1,981,381:59:0
93	209	15:16:04.933	20E4M	7VENT	0.6,1.333,6	ALERT -- Thruster fire			1,981,382:58:0
93	209	15:16:05.600	20E4N	7VENT	0.6,11.022,6	ALERT -- Thruster fire			1,981,382:59:0
93	209	15:20:18.266	20E4Q	7VENT	0.6,1.333,7	ALERT -- Thruster fire			1,981,386:74:0
93	209	15:20:18.933	20E4R	7VENT	0.6,11.022,7	ALERT -- Thruster fire			1,981,386:75:0
93	209	15:21:18.933	20E4S	7VENT	0.6,1.333,1	ALERT -- Thruster fire			1,981,387:74:0
93	209	15:21:19.600	20E4T	7VENT	0.6,11.022,1	ALERT -- Thruster fire			1,981,387:75:0
93	209	15:23:32.266	20E4V	7MODE	CRU	Dual-Spin Mo			1,981,390:01:0
93	209	15:34:59.600	498B4B	7SAFE	UNSTOW	Check S/P Position			1,981,401:31:0
93	209	16:06:59.600	498B4D	7MODE	INT	Dual-Spin Mo			1,981,432:90:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF I
93	209	16:09:00.933	498B4F	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster fire			1,981,434:90:0	
93	209	16:22:25.600	498B4G	7BURN	LAT,179.745998,-	ALERT -- Thruster fire			1,981,448:23:0	
93	209	16:35:50.933	498B4I	7BURN	LAT,179.745998,-	ALERT -- Thruster fire			1,981,461:48:0	
93	209	16:49:15.600	498B4J	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster fire			1,981,474:72:0	
93	209	17:02:40.933	498B4L	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster fire			1,981,488:06:0	
93	209	17:16:00.933	498B4N	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster fire			1,981,501:23:0	
93	209	17:29:22.933	498B4O	7MODE	CRU	Dual-Spin Mo			1,981,514:43:0	
93	210	21:35:05.533	20N3A	40T1PR	1	PCT Heater 1 OFF (primary relay)			1,983,181:60:0	
93	210	21:35:10.866	20N3B	40T1PR	2	PCT Heater 1 OFF (primary relay)			1,983,181:68:0	
93	217	23:08:44.533	20F4B	7STAT	+17.45,0.0,90.0	Stator inertial point			1,993,243:47:0	
93	217	23:11:44.533	20F4C	7SAFE	UNSTOW	Check S/P Position			1,993,246:44:0	
93	221	15:40:05.666	20O3A	40T1P	1	PCT Heater 1 ON (primary relay)			1,998,496:46:0	
93	221	15:40:11.000	20O3B	40T1P	2	PCT Heater 1 ON (primary relay)			1,998,496:54:0	
93	223	22:53:02.200	490B412A4B	7MODE	INT	Dual-Spin Mo			2,001,773:04:0	
93	223	22:55:52.866	490B476A6A	6TMCHG	ELSLRS	NO DNL			2,001,775:78:0	
93	223	22:58:00.200	490B412A4D	7SAFE	UNSTOW	Check S/P Position			2,001,777:87:0	
93	223	16:30:00.000	490B412A4E	7VECT	RTH	Inertial vect update U			2,001,782:07:0	
93	223	23:02:14.200	490B412A4F	7TURN	1,RTH	ALERT -- Thruster fire			2,001,782:13:0	
93			490B412A406A4A	7VECT		Inertial vect update U			2,001,785:82:0	
93	223	23:06:04.200	490B412A406A4B	7STAR	1,714,297.091999	Star catalog update			2,001,785:85:0	
93	223	23:06:06.200	490B412A406A4C	7STAR	2,159,27.236,89.	Star catalog update			2,001,785:88:0	
93	223	23:06:08.200	490B412A406A4D	7STAR	3,377,95.124,-17	Star catalog update			2,001,786:00:0	
93	223	23:06:10.200	490B412A406A4E	7STAR	4,0,0.0,0.0	Star catalog update			2,001,786:03:0	
93	223	23:06:12.200	490B412A406A4F	7STAR	5,0,0.0,0.0	Star catalog update			2,001,786:06:0	
93	223	23:06:14.200	490B412A406A4G	7STAR	6,0,0.0,0.0	Star catalog update			2,001,786:09:0	
93	224	00:17:12.866	490B412A4K	7SAFE	UNSTOW	Check S/P Position			2,001,856:27:0	
93	224	01:09:29.533	192GC4A	7CONE	10.0,175.0	Check S/P Position			2,001,908:00:0	
93	224	01:12:30.200	165GC4A	7TMOT	DIS,TMC	Target motion compensa			2,001,910:89:0	
93	224	01:12:30.866	165GC4B	7SCAN	NORM,192.330999,	Check S/P Position			2,001,910:90:0	
93	224	01:17:34.866	176GC6A	6TMCHG	NCGHCM	Dnlnk			2,001,916:00:0	
93	224	01:21:10.866	118GC110A111A4A	7STRP	0.0,-0.0005,14,0	Slew =,2.63			2,001,919:51:0	
93	24/	01:21:20.200	118GC110A111A4B	7STRP	-0.0006,-0.0005,	Slew =,2.62			2,001,919:65:0	
93	224	01:21:24.866	118GC110A111A4C	7STRP	0.0,-0.0005,14,0	Slew =,2.63			2,001,919:72:0	
93	224	01:21:36.866	175GC422A6A	6DMSC	R115,0	Record 115.2kbps			2,001,919:90:0	
93	224	01:22:08.200	175GC422A6B	6DMSC	RDY,0	Tape stopped			2,001,920:46:0	
93	224	01:22:42.866	20GC4A	7SAFE	UNSTOW	Check S/P Position			2,001,921:07:0	
93	224	01:29:44.866	20EC6A	6DMSC	S115,3	Slew 115.2kbps			2,001,928:03:0	
93	224	01:30:16.200	20EC6B	6DMSC	RDY,2	Tape stopped			2,001,928:50:0	
93	224	15:01:00.133	444E443A4A	7MODE	CRU	Dual-Spin Mo			2,002,730:34:0	
93	225	11:46:04.133	423Q6A	6TMCHG	LPB	NO DNL			2,003,961:69:0	
93	225	11:46:10.133	423Q6B	6DMSC	P7,2	Playback 7.68kbps			2,003,961:78:0	
93	225	11:47:23.466	423Q6I	6DMSC	RDY,0	Tape stopped			2,003,963:06:0	

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	225	11:47:32.133	423Q6J	6TMCHG	ELS	NO DNL			2,003,963:19:0
93	225	11:49:03.466	423Q6K	6DMSC	S7,1	Slew 7.68kbps			2,003,964:65:0
93	225	11:49:10.800	423Q6L	6DMSC	RDY,2	Tape stopped			2,003,964:76:0
93	225	16:32:04.066	423R6A	6TMCHG	LPB	NO DNL			2,004,244:56:0
93	225	16:32:10.066	423R6B	6DMSC	P7,2	Playback 7.68kbps			2,004,244:65:0
93	225	16:33:23.400	423R6I	6DMSC	RDY,0	Tape stopped			2,004,245:84:0
93	225	16:33:32.066	423R6J	6TMCHG	ELS	NO DNL			2,004,246:06:0
93	225	16:35:03.400	423R6K	6DMSC	S7,1	Slew 7.68kbps			2,004,247:52:0
93	225	16:35:10.733	423R6L	6DMSC	RDY,2	Tape stopped			2,004,247:63:0
93	226	07:00:05.400	20P3A	37F2PR	1	Shield Flash Heater OFF (primary relay)			2,005,103:09:0
93	226	07:00:10.733	20P3B	37F2PR	2	Shield Flash Heater OFF (primary relay)			2,005,103:17:0
93	226	14:39:04.066	423S6A	6TMCHG	LPB	NO DNL			2,005,557:03:0
93	226	14:39:10.066	423S6B	6DMSC	P7,2	Playback 7.68kbps			2,005,557:12:0
93	226	14:40:23.400	423S6I	6DMSC	RDY,0	Tape stopped			2,005,558:31:0
93	226	14:40:32.066	423S6J	6TMCHG	ELS	NO DNL			2,005,558:44:0
93	226	14:42:03.400	423S6K	6DMSC	S7,1	Slew 7.68kbps			2,005,559:90:0
93	226	14:42:10.733	423S6L	6DMSC	RDY,2	Tape stopped			2,005,560:10:0
93	226	22:16:04.000	423T6A	6TMCHG	LPB	NO DNL			2,006,009:01:0
93	226	22:16:10.000	423T6B	6DMSC	P7,2	Playback 7.68kbps			2,006,009:10:0
93	226	22:17:23.333	423T6I	6DMSC	RDY,0	Tape stopped			2,006,010:29:0
93	226	22:17:32.000	423T6J	6TMCHG	ELS	NO DNL			2,006,010:42:0
93	226	22:19:03.333	423T6K	6DMSC	S7,1	Slew 7.68kbps			2,006,011:88:0
93	226	22:19:10.666	423T6L	6DMSC	RDY,2	Tape stopped			2,006,012:08:0
93	227	03:02:04.000	423U6A	6TMCHG	LPB	NO DNL			2,006,291:79:0
93	227	03:02:10.000	423U6B	6DMSC	P7,2	Playback 7.68kbps			2,006,291:88:0
93	227	03:03:23.333	423U6I	6DMSC	RDY,0	Tape stopped			2,006,293:16:0
93	227	03:03:32.000	423U6J	6TMCHG	ELS	NO DNL			2,006,293:29:0
93	227	03:05:03.333	423U6K	6DMSC	S7,1	Slew 7.68kbps			2,006,294:75:0
93	227	03:05:10.666	423U6L	6DMSC	RDY,2	Tape stopped			2,006,294:86:0
93	227	07:48:04.000	423V6A	6TMCHG	LPB	NO DNL			2,006,574:66:0
93	227	07:48:10.000	423V6B	6DMSC	P7,2	Playback 7.68kbps			2,006,574:75:0
93	227	07:49:23.333	423V6I	6DMSC	RDY,0	Tape stopped			2,006,576:03:0
93	227	07:49:32.000	423V6J	6TMCHG	ELS	NO DNL			2,006,576:16:0
93	227	07:51:03.333	423V6K	6DMSC	S7,1	Slew 7.68kbps			2,006,577:62:0
93	227	07:51:10.666	423V6L	6DMSC	RDY,2	Tape stopped			2,006,577:73:0
93	227	14:55:04.000	423W6A	6TMCHG	LPB	NO DNL			2,006,997:03:0
93	227	14:55:10.000	423W6B	6DMSC	P7,2	Playback 7.68kbps			2,006,997:12:0
93	227	14:56:23.333	423W6I	6DMSC	RDY,0	Tape stopped			2,006,998:31:0
93	227	14:56:32.000	423W6J	6TMCHG	ELS	NO DNL			2,006,998:44:0
93	228	20:44:03.933	20G4B	7SAFE	UNSTOW	Check S/P Position			2,008,766:34:0
93	228	21:05:03.933	20G4F	7SLEW	DIS,POS,0.0	Stator movement			2,008,787:13:0
93	228	21:07:03.933	20G4H	7MODE	SPNL	All-Spin Mod			2,008,789:11:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	228	21:09:03.933	20G4I	7SAFE	UNSTOW	Check S/P Position			2,008,791:09:0
93	228	21:15:03.933	20G4K	7VENT	0.6,1.333,8	ALERT -- Thruster fire			2,008,797:03:0
93	228	21:15:04.600	20G4L	7VENT	0.6,11.022,8	ALERT -- Thruster fire			2,008,797:04:0
93	228	21:16:04.600	20G4M	7VENT	0.6,1.333,6	ALERT -- Thruster fire			2,008,798:03:0
93	228	21:16:05.266	20G4N	7VENT	0.6,11.022,6	ALERT -- Thruster fire			2,008,798:04:0
93	228	21:20:17.933	20G4Q	7VENT	0.6,1.333,7	ALERT -- Thruster fire			2,008,802:19:0
93	228	21:20:18.600	20G4R	7VENT	0.6,11.022,7	ALERT -- Thruster fire			2,008,802:20:0
93	228	21:21:18.600	20G4S	7VENT	0.6,1.333,1	ALERT -- Thruster fire			2,008,803:19:0
93	228	21:21:19.266	20G4T	7VENT	0.6,11.022,1	ALERT -- Thruster fire			2,008,803:20:0
93	228	21:23:31.933	20G4V	7MODE	CRU	Dual-Spin Mo			2,008,805:37:0
93	228	21:34:59.933	498C4B	7SAFE	UNSTOW	Check S/P Position			2,008,816:68:0
93	228	22:06:59.933	498C4D	7MODE	INT	Dual-Spin Mo			2,008,848:36:0
93	228	22:09:01.266	498C4F	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster fire			2,008,850:36:0
93	228	22:22:25.933	498C4G	7BURN	LAT,179.745998,-	ALERT -- Thruster fire			2,008,863:60:0
93	228	22:35:51.266	498C4I	7BURN	LAT,179.745998,-	ALERT -- Thruster fire			2,008,876:85:0
93	228	22:49:15.933	498C4J	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster fire			2,008,890:18:0
93	228	23:02:41.266	498C4L	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster fire			2,008,903:43:0
93	228	23:16:01.266	498C4N	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster fire			2,008,916:60:0
93	229	00:56:43.933	20ZU3Q	37HR	CMD,37HR,20ZU3Q,	Replacement Heaters OFF			2,009,016:24:0
93	229	00:57:11.933	20ZU3R	37A	CMD,37A,20ZU3R,,	NIMS Power ON	260	00	2,009,016:66:0
93	229	00:59:13.266	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	00	2,009,018:66:0
93	229	15:25:00.533	192GD4A	7CONE	10.0,175.0	Check S/P Position	2R0	00	2,009,875:00:0
93	229	20:25:05.200	20Q3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	2R0	00	2,010,171:71:0
93	229	20:25:10.533	20Q3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	2R0	00	2,010,171:79:0
93	229	20:32:21.866	165GD4A	7TMOT	DIS,TMC	Target motion compensa	2R0	00	2,010,178:89:0
93	229	20:32:22.533	165GD4B	7SCAN	NORM,192.330999,	Check S/P Position	2R0	00	2,010,178:90:0
93	229	20:37:26.533	176GD6A	6TMCHG	NCGHCM	Dnlnk	2R0	00	2,010,184:00:0
93	229	20:39:23.200	157JA156A121A4A	37IOP	3,0	Long Map, Grating Start Position =0	2R3	00	2,010,185:84:0
93	229	20:41:02.533	118GD110A111A4A	7STRP	0.0,-0.0005,14,0	Slew =,2.63	2R3	00	2,010,187:51:0
93	29/	20:41:11.866	118GD110A111A4B	7STRP	-0.0006,-0.0005,	Slew =,2.62	2R3	00	2,010,187:65:0
93	229	20:41:16.533	118GD110A111A4C	7STRP	0.0,-0.0005,14,0	Slew =,2.63	2R3	00	2,010,187:72:0
93	229	20:41:24.533	157JA156A121B4A	37IST	1,2,1,OFF,1,1,1	Chopper ON, Sync, Chopper (Ref)OPCALGain S	4R3	00	2,010,187:84:0
93	229	20:41:28.533	175GD422A6A	6DMSC	R115,0	Record 115.2kbps	4R3	00	2,010,187:90:0
93	229	20:41:59.866	175GD422A6B	6DMSC	RDY,0	Tape stopped	4R3	00	2,010,188:46:0
93	229	20:42:35.200	20GD4A	7SAFE	UNSTOW	Check S/P Position	4R3	00	2,010,189:08:0
93	229	20:48:29.200	157JA156A121C4A	37IOP	0,0	Safe, Grating Start Position =0	4R0	00	2,010,194:84:0
93	229	20:49:37.866	20ED6A	6DMSC	S115,3	Slew 115.2kbps	4R0	00	2,010,196:05:0
93	229	20:50:09.200	20ED6B	6DMSC	RDY,2	Tape stopped	4R0	00	2,010,196:52:0
93	229	21:05:59.866	20H4A	7MODE	CRU	Dual-Spin Mo	4R0	00	2,010,212:22:0
93	229	22:56:59.866	20H4B	7STAT	+17.45,0.0,90.0	Stator inertial point	4R0	00	2,010,322:02:0
93	229	22:59:59.866	20H4C	7SAFE	UNSTOW	Check S/P Position	4R0	00	2,010,324:90:0
93	230	04:25:03.866	423Z6A	6TMCHG	LPB	NO DNL	4R0	00	2,010,646:44:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	230	04:25:09.866	423Z6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,010,646:53:0
93	230	04:26:23.200	423Z6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,010,647:72:0
93	230	04:26:31.866	423Z6J	6TMCHG	ELS	NO DNL	4R0	00	2,010,647:85:0
93	230	04:28:03.200	423Z6K	6DMSC	S7,1	Slew 7.68kbps	4R0	00	2,010,649:40:0
93	230	04:28:10.533	423Z6L	6DMSC	RDY,2	Tape stopped	4R0	00	2,010,649:51:0
93	230	12:00:03.866	423AA6A	6TMCHG	LPB	NO DNL	4R0	00	2,011,096:44:0
93	230	12:00:09.866	423AA6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,011,096:53:0
93	230	12:01:23.200	423AA6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,011,097:72:0
93	230	12:01:31.866	423AA6J	6TMCHG	ELS	NO DNL	4R0	00	2,011,097:85:0
93	230	12:03:03.200	423AA6K	6DMSC	S7,1	Slew 7.68kbps	4R0	00	2,011,099:40:0
93	230	12:03:10.533	423AA6L	6DMSC	RDY,2	Tape stopped	4R0	00	2,011,099:51:0
93	230	21:26:03.800	423AB6A	6TMCHG	LPB	NO DNL	4R0	00	2,011,656:24:0
93	230	21:26:09.800	423AB6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,011,656:33:0
93	230	21:27:23.133	423AB6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,011,657:52:0
93	230	21:27:31.800	423AB6J	6TMCHG	ELS	NO DNL	4R0	00	2,011,657:65:0
93	230	21:29:03.133	423AB6K	6DMSC	S7,1	Slew 7.68kbps	4R0	00	2,011,659:20:0
93	230	21:29:10.466	423AB6L	6DMSC	RDY,2	Tape stopped	4R0	00	2,011,659:31:0
93	231	02:12:03.800	423AC6A	6TMCHG	LPB	NO DNL	4R0	00	2,011,939:11:0
93	231	02:12:09.800	423AC6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,011,939:20:0
93	231	02:13:23.133	423AC6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,011,940:39:0
93	231	02:13:31.800	423AC6J	6TMCHG	ELS	NO DNL	4R0	00	2,011,940:52:0
93	231	02:15:03.133	423AC6K	6DMSC	S7,1	Slew 7.68kbps	4R0	00	2,011,942:07:0
93	231	02:15:10.466	423AC6L	6DMSC	RDY,2	Tape stopped	4R0	00	2,011,942:18:0
93	231	06:58:03.800	423AD6A	6TMCHG	LPB	NO DNL	4R0	00	2,012,221:89:0
93	231	06:58:09.800	423AD6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,012,222:07:0
93	231	06:59:23.133	423AD6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,012,223:26:0
93	231	06:59:31.800	423AD6J	6TMCHG	ELS	NO DNL	4R0	00	2,012,223:39:0
93	231	07:01:03.133	423AD6K	6DMSC	S7,1	Slew 7.68kbps	4R0	00	2,012,224:85:0
93	231	07:01:10.466	423AD6L	6DMSC	RDY,2	Tape stopped	4R0	00	2,012,225:05:0
93	231	14:44:03.800	423AE6A	6TMCHG	LPB	NO DNL	4R0	00	2,012,682:78:0
93	231	14:44:09.800	423AE6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,012,682:87:0
93	231	14:45:23.133	423AE6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,012,684:15:0
93	231	14:45:31.800	423AE6J	6TMCHG	ELS	NO DNL	4R0	00	2,012,684:28:0
93	231	14:47:03.133	423AE6K	6DMSC	S7,1	Slew 7.68kbps	4R0	00	2,012,685:74:0
93	231	14:47:10.466	423AE6L	6DMSC	RDY,2	Tape stopped	4R0	00	2,012,685:85:0
93	232	06:05:03.733	423AF6A	6TMCHG	LPB	NO DNL	4R0	00	2,013,593:67:0
93	232	06:05:09.733	423AF6B	6DMSC	P7,2	Playback 7.68kbps	4R0	00	2,013,593:76:0
93	232	06:06:23.066	423AF6I	6DMSC	RDY,0	Tape stopped	4R0	00	2,013,595:04:0
93	232	06:06:31.733	423AF6J	6TMCHG	ELS	NO DNL	4R0	00	2,013,595:17:0
93	233	14:01:20.333	444F443A4B	7MODE	INT	Dual-Spin Mo	4R0	00	2,015,488:87:0
93	233	14:40:49.000	192GE4A	7CONE	10.0,175.0	Check S/P Position	4R0	00	2,015,528:00:0
93	233	14:43:49.666	165GE4A	7TMOT	DIS,TMC	Target motion compensa	4R0	00	2,015,530:89:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	233	14:43:50.333	165GE4B	7SCAN	NORM,192.334999,	Check S/P Position	4R0	00	2,015,530	90	0
93	233	14:48:54.333	176GE6A	6TMCHG	NCGHCM	Dnlnk	4R0	00	2,015,536	00	0
93	233	14:50:51.000	157JB156A121A4A	37IOP	1,0	Full Map, Grating Start Position =0	4R1	00	2,015,537	84	0
93	233	14:52:30.333	118GE110A111A4A	7STRP	0.0,-0.0005,14,0	Slew =,2.63	4R1	00	2,015,539	51	0
93	33/	14:52:39.666	118GE110A111A4B	7STRP	-0.0006,-0.0005,	Slew =,2.62	4R1	00	2,015,539	65	0
93	233	14:52:44.333	118GE110A111A4C	7STRP	0.0,-0.0005,14,0	Slew =,2.63	4R1	00	2,015,539	72	0
93	233	14:52:52.333	157JB156A121B4A	37IST	0,0,1,ON,0,1,0	ECALGain State 2	2R1	00	2,015,539	84	0
93	233	14:52:56.333	175GE422A6A	6DMSC	R115,0	Record 115.2kbps	2R1	00	2,015,539	90	0
93	233	14:53:27.666	175GE422A6B	6DMSC	RDY,0	Tape stopped	2R1	00	2,015,540	46	0
93	233	14:54:02.333	20GE4A	7SAFE	UNSTOW	Check S/P Position	2R1	00	2,015,541	07	0
93	233	14:59:57.000	157JB156A121C4A	37IOP	0,0	Safe, Grating Start Position =0	2R0	00	2,015,546	84	0
93	233	15:01:05.000	20EE6A	6DMSC	S115,3	Slew 115.2kbps	2R0	00	2,015,548	04	0
93	233	15:01:36.333	20EE6B	6DMSC	RDY,2	Tape stopped	2R0	00	2,015,548	51	0
93	233	15:05:04.333	423AH6A	6TMCHG	LPB	NO DNL	2R0	00	2,015,551	90	0
93	233	15:05:10.333	423AH6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,015,552	08	0
93	233	15:06:23.666	423AH6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,015,553	27	0
93	233	15:06:32.333	423AH6J	6TMCHG	ELS	NO DNL	2R0	00	2,015,553	40	0
93	233	15:08:03.666	423AH6K	6DMSC	S7,1	Slew 7.68kbps	2R0	00	2,015,554	86	0
93	233	15:08:11.000	423AH6L	6DMSC	RDY,2	Tape stopped	2R0	00	2,015,555	06	0
93	233	18:00:00.333	444G443A4A	7MODE	CRU	Dual-Spin Mo	2R0	00	2,015,725	00	0
93	233	21:45:04.333	423AI6A	6TMCHG	LPB	NO DNL	2R0	00	2,015,947	54	0
93	233	21:45:10.333	423AI6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,015,947	63	0
93	233	21:46:23.666	423AI6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,015,948	82	0
93	233	21:46:32.333	423AI6J	6TMCHG	ELS	NO DNL	2R0	00	2,015,949	04	0
93	233	21:48:03.666	423AI6K	6DMSC	S7,1	Slew 7.68kbps	2R0	00	2,015,950	50	0
93	233	21:48:11.000	423AI6L	6DMSC	RDY,2	Tape stopped	2R0	00	2,015,950	61	0
93	234	04:16:04.333	423AJ6A	6TMCHG	LPB	NO DNL	2R0	00	2,016,334	27	0
93	234	04:16:10.333	423AJ6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,016,334	36	0
93	234	04:17:23.666	423AJ6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,016,335	55	0
93	234	04:17:32.333	423AJ6J	6TMCHG	ELS	NO DNL	2R0	00	2,016,335	68	0
93	234	04:19:03.666	423AJ6K	6DMSC	S7,1	Slew 7.68kbps	2R0	00	2,016,337	23	0
93	234	04:19:11.000	423AJ6L	6DMSC	RDY,2	Tape stopped	2R0	00	2,016,337	34	0
93	234	11:46:04.266	423AK6A	6TMCHG	LPB	NO DNL	2R0	00	2,016,779	32	0
93	234	11:46:10.266	423AK6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,016,779	41	0
93	234	11:47:23.600	423AK6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,016,780	60	0
93	234	11:47:32.266	423AK6J	6TMCHG	ELS	NO DNL	2R0	00	2,016,780	73	0
93	234	11:49:03.600	423AK6K	6DMSC	S7,1	Slew 7.68kbps	2R0	00	2,016,782	28	0
93	234	11:49:10.933	423AK6L	6DMSC	RDY,2	Tape stopped	2R0	00	2,016,782	39	0
93	234	16:29:04.266	423AL6A	6TMCHG	LPB	NO DNL	2R0	00	2,017,059	22	0
93	234	16:29:10.266	423AL6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,017,059	31	0
93	234	16:30:23.600	423AL6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,017,060	50	0
93	234	16:30:32.266	423AL6J	6TMCHG	ELS	NO DNL	2R0	00	2,017,060	63	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	234	16:32:03.600	423AL6K	6DMSC	S7,1	Slew 7.68kbps	2R0	00	2,017,062	18	0
93	234	16:32:10.933	423AL6L	6DMSC	RDY,2	Tape stopped	2R0	00	2,017,062	29	0
93	234	23:43:04.266	423AM6A	6TMCHG	LPB	NO DNL	2R0	00	2,017,488	43	0
93	234	23:43:10.266	423AM6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,017,488	52	0
93	234	23:44:23.600	423AM6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,017,489	71	0
93	234	23:44:32.266	423AM6J	6TMCHG	ELS	NO DNL	2R0	00	2,017,489	84	0
93	234	23:46:03.600	423AM6K	6DMSC	S7,1	Slew 7.68kbps	2R0	00	2,017,491	39	0
93	234	23:46:10.933	423AM6L	6DMSC	RDY,2	Tape stopped	2R0	00	2,017,491	50	0
93	235	05:57:04.266	423AN6A	6TMCHG	LPB	NO DNL	2R0	00	2,017,858	33	0
93	235	05:57:10.266	423AN6B	6DMSC	P7,2	Playback 7.68kbps	2R0	00	2,017,858	42	0
93	235	05:58:23.600	423AN6I	6DMSC	RDY,0	Tape stopped	2R0	00	2,017,859	61	0
93	235	05:58:32.266	423AN6J	6TMCHG	ELS	NO DNL	2R0	00	2,017,859	74	0
93	237	23:05:05.400	20R3A	40T1P	1	PCT Heater 1 ON (primary relay)	2R0	00	2,021,723	40	0
93	237	23:05:10.733	20R3B	40T1P	2	PCT Heater 1 ON (primary relay)	2R0	00	2,021,723	48	0
93	239	10:51:02.000	20AH4B	7SLEW	DIS,POS,0.0	Stator movement	2R0	00	2,023,845	73	0

Sequence: EJ03DI   Created: 07/27/93   Begin: 93-239/11:00:00.000   Finish: 93-270/16:00:00.000

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	239	11:00:00.333		DMS:	READY	RDY, TRACK 2, REV, TIC 4372 +/- 23;			2,023,854	63	0
93	239	20:00:04.333		DMS:	*RUNUP	S806, TRACK *1, *FWD, TIC 4372 +/- 23;			2,024,388	75	0
93	239	20:00:04.333	20AG6A	6DMSC	S806,1	DMS Control Tape slew 806.4kb			2,024,388	75	0
93	239	20:00:09.533		DMS:	*SLEW	S806, TRACK 1, FWD, TIC *4437 +/- 26;			2,024,388	82	8
93	239	20:02:00.800		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC 7177 +/- 26;			2,024,390	67	7
93	239	20:02:00.800		DMS:	*AUTOSTOP	S806, TRACK 1, FWD, TIC *7177 +/- 26;			2,024,390	67	7
93	239	20:02:03.466		DMS:	*READY	RDY, TRACK 1, FWD, TIC *7188 +/- 27;			2,024,390	71	7
93	239	20:07:04.333	20AG6B	6DMSR	CMD,6DMSR,20AG6B	Tape recorder rewind			2,024,395	68	0
93	239	20:07:04.333		DMS:	*REWIND	S806, TRACK *4, *REV, TIC 7188 +/- 27;			2,024,395	68	0
93	239	20:12:09.466		DMS:	*READY	RDY, TRACK *1, *FWD, TIC * 201 +/- 0;			2,024,400	70	7
93	240	05:55:02.333	490A412A4B	7MODE	INT	AACS INERTIAL MODE			2,024,977	23	0
93	240	05:57:57.666	490A476A6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s			2,024,980	13	0
93	240	06:00:00.333	490A412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone			2,024,982	15	0
93	240	06:04:10.333	490A412A4E	7VECT	RTH	Inert vect update UTC			2,024,986	26	0
93	240	06:04:14.333	490A412A4F	7TURN	1,RTH	ALERT Thruster			2,024,986	32	0
93	240	06:08:02.333	490A412A406A4A	7STAR	1,484,121.997999	Star catalog update			2,024,990	10	0
93	240	06:08:04.333	490A412A406A4B	7STAR	2,425,331.274998	Star catalog update			2,024,990	13	0
93	240	06:08:06.333	490A412A406A4C	7STAR	3,150,319.349998	Star catalog update			2,024,990	16	0
93	240	06:08:08.333	490A412A406A4D	7STAR	4,159,27.236,89.	Star catalog update			2,024,990	19	0
93	240	06:08:10.333	490A412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update			2,024,990	22	0
93	240	06:08:12.333	490A412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update			2,024,990	25	0
93	240	07:04:31.666		DMS:	*RUNUP	R7, TRACK 1, FWD, TIC 201 +/- 0;			2,025,045	89	0
93	240	07:04:31.666	175ES422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps			2,025,045	89	0
93	240	07:04:33.000	176ES6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s			2,025,046	00	0
93	240	07:04:33.133		DMS:	*RECORD	R7, TRACK 1, FWD, TIC * 202 +/- 0;			2,025,046	00	2
93	240	07:27:13.000	490A412A4K	7SAFE	UNSTOW	S/P TO 153 deg cone			2,025,068	38	0
93	240	11:22:21.666	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion			2,025,300	89	0
93	240	11:22:22.333	165IA4B	7SCAN	NORM,192.081999,	Check S/P Position			2,025,300	90	0
93	240	11:24:43.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3860 +/- 0;			2,025,303	28	0
93	240	11:24:43.000	175ES422A6B	6DMSC	RDY,0	DMS Control Tape stop			2,025,303	28	0
93	240	11:24:44.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3861 +/- 0;			2,025,303	29	9
93	240	11:25:20.333	128IA149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	7	06	2,025,303	84	0
93	240	11:26:16.333	117JA	CSMOS	GS	***** GROUP START CSMOS	7	06	2,025,304	77	0
93	240	11:26:21.000	128IA149A131B4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R7	06	2,025,304	84	0
93	240	11:26:21.666	175JA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	06	2,025,304	85	0
93	240	11:26:21.666		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 3861 +/- 0;	4R7	06	2,025,304	85	0
93	240	11:26:24.333	165IA4C	7VECT		Inert vect update UTC	4R7	06	2,025,304	89	0
93	240	11:26:25.000	165IA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	06	2,025,304	90	0
93	240	11:26:25.666	117JA105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.76	4R7	06	2,025,305	00	0
93	240	11:26:25.666		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *3863 +/- 0;	4R7	06	2,025,305	00	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	11:26:25.666	176JA6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R7	06	2,025,305	00	0
93	240	11:26:30.000	IDUNRTURXM01+		-----START------		4R7	06			
93	240	11:26:30.000	IDUSROTATI01*		-----START------		4R7	06			
93	240	11:26:35.000	117JA11A	CSMOS	GE	***** GROUP END CSMOS	4R7	06	2,025,305	14	0
93	240	11:26:45.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3881 +/- 0;	4R7	06	2,025,305	30	0
93	240	11:26:45.666	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	06	2,025,305	30	0
93	240	11:26:46.866		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3882 +/- 0;	4R7	06	2,025,305	31	8
93	240	11:27:26.333	116IA4A	7STRP	-0.002,0.00001,0	Slew =0,1.0	4R7	06	2,025,306	00	0
93	240	11:27:30.000	IDUNRTURXM01+		-----STOP-------		4R7	06			
93	240	11:28:26.333	175IA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	06	2,025,306	90	0
93	240	11:28:26.333		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 3882 +/- 0;	4R7	06	2,025,306	90	0
93	240	11:28:27.000	176IA6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R7	06	2,025,307	00	0
93	240	11:28:30.333		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *3888 +/- 1;	4R7	06	2,025,307	05	0
93	240	11:28:57.666	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	06	2,025,307	46	0
93	240	11:28:57.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3984 +/- 1;	4R7	06	2,025,307	46	0
93	240	11:28:58.866		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3985 +/- 1;	4R7	06	2,025,307	47	8
93	240	11:51:41.666		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 3985 +/- 1;	4R7	06	2,025,329	90	0
93	240	11:51:41.666	175IB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	06	2,025,329	90	0
93	240	11:51:42.333	176IB6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R7	06	2,025,330	00	0
93	240	11:51:45.666		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *3992 +/- 1;	4R7	06	2,025,330	05	0
93	240	11:54:39.666	128JD149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	4R1	00	2,025,332	84	0
93	240	11:54:44.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4620 +/- 1;	4R1	00	2,025,333	00	0
93	240	11:54:44.333	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	00	2,025,333	00	0
93	240	11:54:45.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4621 +/- 2;	4R1	00	2,025,333	01	8
93	240	11:55:35.666	117JB	CSMOS	GS	***** GROUP START CSMOS	4R1	00	2,025,333	77	0
93	240	11:55:40.333	128JD149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R1	00	2,025,333	84	0
93	240	11:55:45.000	117JB105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.06	4R1	00	2,025,334	00	0
93	240	11:55:45.000	176JB6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R1	00	2,025,334	00	0
93	240	11:55:49.000	IDUNRT90FM01+		-----START------		4R1	00			
93	240	11:55:50.333	117JB105A106B4A	7STRP	-0.0025,0.0,0,0,	Slew =,1.25	4R1	00	2,025,334	08	0
93	240	11:55:51.000	175JB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	00	2,025,334	09	0
93	240	11:55:51.000		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4621 +/- 2;	4R1	00	2,025,334	09	0
93	240	11:55:55.000		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4622 +/- 2;	4R1	00	2,025,334	15	0
93	240	11:55:57.000	117JB105A106B4B	7STRP	0.00475,0.0,0,0,	Slew =,0.06	4R1	00	2,025,334	18	0
93	240	11:57:24.333	117JB11A	CSMOS	GE	***** GROUP END CSMOS	4R1	00	2,025,335	58	0
93	240	11:57:32.333	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	00	2,025,335	70	0
93	240	11:57:32.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4708 +/- 2;	4R1	00	2,025,335	70	0
93	240	11:57:33.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4709 +/- 2;	4R1	00	2,025,335	71	8
93	240	11:58:51.000	IDUNRT90FM01+		-----STOP-------		4R1	00			
93	240	12:05:47.000	128JE149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	4R5	02	2,025,343	84	0
93	240	12:06:47.666	128JE149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R5	02	2,025,344	84	0
93	240	12:06:56.000	IDUNRT15SM01+		-----START------		4R5	02			

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	12:06:56.333	117JC	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,345	06	0
93	240	12:07:22.333	117JC105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,345	45	0
93	240	12:07:27.666	117JC105A106B4A	7STRP	-0.005,0.0,0,0,0	Slew =0,2.5	4R5	02	2,025,345	53	0
93	240	12:07:31.666		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4709 +/- 2;	4R5	02	2,025,345	59	0
93	240	12:07:31.666	175JC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,345	59	0
93	240	12:07:35.666		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4710 +/- 3;	4R5	02	2,025,345	65	0
93	240	12:07:37.666	117JC105A106B4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.11	4R5	02	2,025,345	68	0
93	240	12:08:43.000	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,346	75	0
93	240	12:08:43.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4769 +/- 3;	4R5	02	2,025,346	75	0
93	240	12:08:43.666	117JC11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,346	76	0
93	240	12:08:44.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4770 +/- 3;	4R5	02	2,025,346	76	8
93	240	12:10:26.000	IDUNRT15SM01+		-----STOP-------		4R5	02			
93	240	12:13:57.000	116IB4A	7STRP	-0.00227,0.00001	Slew =0,1.0	4R5	02	2,025,352	00	0
93	240	12:14:57.000		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 4770 +/- 3;	4R5	02	2,025,352	90	0
93	240	12:14:57.000	175IC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	02	2,025,352	90	0
93	240	12:14:57.666	176IC6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R5	02	2,025,353	00	0
93	240	12:15:01.000		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *4777 +/- 3;	4R5	02	2,025,353	05	0
93	240	12:15:28.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4873 +/- 3;	4R5	02	2,025,353	46	0
93	240	12:15:28.333	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,353	46	0
93	240	12:15:29.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4874 +/- 3;	4R5	02	2,025,353	47	8
93	240	12:18:51.000	117JD	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,356	77	0
93	240	12:19:00.333	176JD6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,357	00	0
93	240	12:19:00.333	117JD105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,357	00	0
93	240	12:19:04.000	IDUNRT30SM01+		-----START------		4R5	02			
93	240	12:19:05.666	117JD105A106B4A	7STRP	-0.0023,0.0,0,0,	Slew =,1.25	4R5	02	2,025,357	08	0
93	240	12:19:09.666		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4874 +/- 3;	4R5	02	2,025,357	14	0
93	240	12:19:09.666	175JD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,357	14	0
93	240	12:19:13.666		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4875 +/- 4;	4R5	02	2,025,357	20	0
93	240	12:19:15.666	117JD105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,357	23	0
93	240	12:20:16.333	117JD11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,358	23	0
93	240	12:20:21.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4935 +/- 4;	4R5	02	2,025,358	30	0
93	240	12:20:21.000	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,358	30	0
93	240	12:20:22.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4936 +/- 4;	4R5	02	2,025,358	31	8
93	240	12:22:06.000	IDUNRT30SM01+		-----STOP-------		4R5	02			
93	240	12:30:11.666	117JE	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,368	06	0
93	240	12:30:12.000	IDUNRT15SM02+		-----START------		4R5	02			
93	240	12:30:37.666	117JE105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,368	45	0
93	240	12:30:43.000	117JE105A106B4A	7STRP	-0.00475,0.0,0,0	Slew =0,2.5	4R5	02	2,025,368	53	0
93	240	12:30:47.000		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4936 +/- 4;	4R5	02	2,025,368	59	0
93	240	12:30:47.000	175JE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,368	59	0
93	240	12:30:51.000		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4937 +/- 4;	4R5	02	2,025,368	65	0
93	240	12:30:53.000	117JE105A106B4B	7STRP	0.005,0.00004,0,	Slew =,0.11	4R5	02	2,025,368	68	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	12:31:53.666	117JE11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,369:68:0
93	240	12:31:58.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4996 +/- 4;	4R5	02	2,025,369:75:0
93	240	12:31:58.333	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,369:75:0
93	240	12:31:59.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4997 +/- 5;	4R5	02	2,025,369:76:8
93	240	12:33:41.000	IDUNRT15SM02+		-----STOP-------		4R5	02	: :
93	240	12:37:12.333	116IC4A	7STRP	-0.00247,-0.0000	Slew =0,1.0	4R5	02	2,025,375:00:0
93	240	12:38:12.333		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 4997 +/- 5;	4R5	02	2,025,375:90:0
93	240	12:38:12.333	175ID422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	02	2,025,375:90:0
93	240	12:38:13.000	176ID6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R5	02	2,025,376:00:0
93	240	12:38:16.333		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *5004 +/- 5;	4R5	02	2,025,376:05:0
93	240	12:38:43.666	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,376:46:0
93	240	12:38:43.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *5100 +/- 5;	4R5	02	2,025,376:46:0
93	240	12:38:44.866		DMS:	*READY	RDY, TRACK 1, FWD, TIC *5101 +/- 5;	4R5	02	2,025,376:47:8
93	240	12:42:06.333	117JF	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,379:77:0
93	240	12:42:15.666	117JF105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,380:00:0
93	240	12:42:15.666	176JF6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,380:00:0
93	240	12:42:20.000	IDUNRT30SM02+		-----START------		4R5	02	: :
93	240	12:42:21.000	117JF105A106B4A	7STRP	-0.00225,0.0,0,0	Slew =,1.25	4R5	02	2,025,380:08:0
93	240	12:42:25.000	175JF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,380:14:0
93	240	12:42:25.000		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 5101 +/- 5;	4R5	02	2,025,380:14:0
93	240	12:42:29.000		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *5102 +/- 6;	4R5	02	2,025,380:20:0
93	240	12:42:31.000	117JF105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,380:23:0
93	240	12:43:31.666	117JF11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,381:23:0
93	240	12:43:36.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *5162 +/- 6;	4R5	02	2,025,381:30:0
93	240	12:43:36.333	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,381:30:0
93	240	12:43:37.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *5163 +/- 6;	4R5	02	2,025,381:31:8
93	240	12:45:22.000	IDUNRT30SM02+		-----STOP-------		4R5	02	: :
93	240	12:53:27.000	117JG	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,391:06:0
93	240	12:53:27.000	IDUNRT15SM03+		-----START------		4R5	02	: :
93	240	12:53:53.000	117JG105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,391:45:0
93	240	12:53:58.333	117JG105A106B4A	7STRP	-0.005,0.0,0,0,0	Slew =0,2.5	4R5	02	2,025,391:53:0
93	240	12:54:02.333	175JG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,391:59:0
93	240	12:54:02.333		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 5163 +/- 6;	4R5	02	2,025,391:59:0
93	240	12:54:06.333		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *5164 +/- 6;	4R5	02	2,025,391:65:0
93	240	12:54:08.333	117JG105A106B4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.11	4R5	02	2,025,391:68:0
93	240	12:55:09.000	117JG11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,392:68:0
93	240	12:55:13.666	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,392:75:0
93	240	12:55:13.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *5223 +/- 6;	4R5	02	2,025,392:75:0
93	240	12:55:14.866		DMS:	*READY	RDY, TRACK 1, FWD, TIC *5224 +/- 6;	4R5	02	2,025,392:76:8
93	240	12:56:56.000	IDUNRT15SM03+		-----STOP-------		4R5	02	: :
93	240	12:57:30.000	IDUNRTURXM02+		-----START------		4R5	02	: :
93	240	12:57:30.000	IDUSROTATI01*		-----STOP-------		4R5	02	: :

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	12:58:21.666	128JF149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	4R7	06	2,025,395:84:0
93	240	12:58:30.000	IDUSROTATI02*		-----START------		4R7	06	: :
93	240	12:58:55.666	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	06	2,025,396:44:0
93	240	12:58:56.333	165IB4B	7SCAN	NORM,192.112999,	Check S/P Position	4R7	06	2,025,396:45:0
93	240	12:59:17.666	117JH	CSMOS	GS	***** GROUP START CSMOS	4R7	06	2,025,396:77:0
93	240	12:59:22.333	128JF149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R7	06	2,025,396:84:0
93	240	12:59:23.000	175JH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	06	2,025,396:85:0
93	240	12:59:23.000		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 5224 +/- 6;	4R7	06	2,025,396:85:0
93	240	12:59:25.666	165IB4C	7VECT		Inert vect update UTC	4R7	06	2,025,396:89:0
93	240	12:59:26.333	165IB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	06	2,025,396:90:0
93	240	12:59:27.000	117JH105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.76	4R7	06	2,025,397:00:0
93	240	12:59:27.000	176JH6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R7	06	2,025,397:00:0
93	240	12:59:27.000		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *5226 +/- 7;	4R7	06	2,025,397:00:0
93	240	12:59:31.000	IDUNRTURXM02+		-----STOP-------		4R7	06	: :
93	240	12:59:36.333	117JH11A	CSMOS	GE	***** GROUP END CSMOS	4R7	06	2,025,397:14:0
93	240	12:59:47.000	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	06	2,025,397:30:0
93	240	12:59:47.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *5243 +/- 7;	4R7	06	2,025,397:30:0
93	240	12:59:48.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *5244 +/- 7;	4R7	06	2,025,397:31:8
93	240	13:00:27.666	116ID4A	7STRP	-0.002,0.00001,0	Slew =0,1.3	4R7	06	2,025,398:00:0
93	240	13:01:27.666	175IE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	06	2,025,398:90:0
93	240	13:01:27.666		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 5244 +/- 7;	4R7	06	2,025,398:90:0
93	240	13:01:28.333	176IE6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R7	06	2,025,399:00:0
93	240	13:01:31.666		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *5251 +/- 7;	4R7	06	2,025,399:05:0
93	240	13:04:25.666	128JG149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	4R5	02	2,025,401:84:0
93	240	13:04:30.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *5879 +/- 7;	4R5	02	2,025,402:00:0
93	240	13:04:30.333	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,402:00:0
93	240	13:04:31.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *5880 +/- 8;	4R5	02	2,025,402:01:8
93	240	13:05:21.666	117JI	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,402:77:0
93	240	13:05:26.333	128JG149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R5	02	2,025,402:84:0
93	240	13:05:31.000	117JI105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.06	4R5	02	2,025,403:00:0
93	240	13:05:31.000	176JI6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,403:00:0
93	240	13:05:35.000	IDUNRT90FM02+		-----START------		4R5	02	: :
93	240	13:05:36.333	117JI105A106B4A	7STRP	-0.0025,0.0,0,0,	Slew =,1.25	4R5	02	2,025,403:08:0
93	240	13:05:37.000		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 5880 +/- 8;	4R5	02	2,025,403:09:0
93	240	13:05:37.000	175JI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,403:09:0
93	240	13:05:41.000		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *5881 +/- 8;	4R5	02	2,025,403:15:0
93	240	13:05:43.000	117JI105A106B4B	7STRP	0.00475,0.0,0,0,	Slew =,0.06	4R5	02	2,025,403:18:0
93	240	13:07:10.333	117JI11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,404:58:0
93	240	13:07:18.333	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,404:70:0
93	240	13:07:18.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *5967 +/- 8;	4R5	02	2,025,404:70:0
93	240	13:07:19.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *5968 +/- 8;	4R5	02	2,025,404:71:8
93	240	13:08:37.000	IDUNRT90FM02+		-----STOP-------		4R5	02	: :

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	13:15:33.000	128JH149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	4R5	02	2,025,412:84:0
93	240	13:16:33.666	128JH149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R5	02	2,025,413:84:0
93	240	13:16:42.000	IDUNRT15SM04+		-----START------		4R5	02	: :
93	240	13:16:42.333	117JJ	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,414:06:0
93	240	13:17:08.333	117JJ105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,414:45:0
93	240	13:17:13.666	117JJ105A106B4A	7STRP	-0.005,0.0,0,0,0	Slew =0,2.5	4R5	02	2,025,414:53:0
93	240	13:17:17.666		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 5968 +/- 8;	4R5	02	2,025,414:59:0
93	240	13:17:17.666	175JJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,414:59:0
93	240	13:17:21.666		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *5969 +/- 9;	4R5	02	2,025,414:65:0
93	240	13:17:23.666	117JJ105A106B4B	7STRP	0.005,0.00004,0,	Slew =,0.11	4R5	02	2,025,414:68:0
93	240	13:18:24.333	117JJ11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,415:68:0
93	240	13:18:29.000	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,415:75:0
93	240	13:18:29.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6029 +/- 9;	4R5	02	2,025,415:75:0
93	240	13:18:30.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6030 +/- 9;	4R5	02	2,025,415:76:8
93	240	13:20:12.000	IDUNRT15SM04+		-----STOP-------		4R5	02	: :
93	240	13:23:43.000	116IE4A	7STRP	-0.00227,-0.0000	Slew =0,1.0	4R5	02	2,025,421:00:0
93	240	13:24:43.000		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 6030 +/- 9;	4R5	02	2,025,421:90:0
93	240	13:24:43.000	175IF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	02	2,025,421:90:0
93	240	13:24:43.666	176IF6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R5	02	2,025,422:00:0
93	240	13:24:47.000		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *6036 +/- 9;	4R5	02	2,025,422:05:0
93	240	13:25:14.333	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,422:46:0
93	240	13:25:14.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6132 +/- 9;	4R5	02	2,025,422:46:0
93	240	13:25:15.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6133 +/- 9;	4R5	02	2,025,422:47:8
93	240	13:28:37.000	117JK	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,425:77:0
93	240	13:28:46.333	117JK105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,426:00:0
93	240	13:28:46.333	176JK6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,426:00:0
93	240	13:28:50.000	IDUNRT30SM03+		-----START------		4R5	02	: :
93	240	13:28:51.666	117JK105A106B4A	7STRP	-0.0023,0.0,0,0,	Slew =,1.25	4R5	02	2,025,426:08:0
93	240	13:28:55.666		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 6133 +/- 9;	4R5	02	2,025,426:14:0
93	240	13:28:55.666	175JK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,426:14:0
93	240	13:28:59.666		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *6135 +/- 10;	4R5	02	2,025,426:20:0
93	240	13:29:01.666	117JK105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,426:23:0
93	240	13:30:02.333	117JK11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,427:23:0
93	240	13:30:07.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6194 +/- 10;	4R5	02	2,025,427:30:0
93	240	13:30:07.000	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,427:30:0
93	240	13:30:08.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6195 +/- 10;	4R5	02	2,025,427:31:8
93	240	13:31:52.000	IDUNRT30SM03+		-----STOP-------		4R5	02	: :
93	240	13:39:57.666	117JL	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,437:06:0
93	240	13:39:58.000	IDUNRT15SM05+		-----START------		4R5	02	: :
93	240	13:40:23.666	117JL105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,437:45:0
93	240	13:40:29.000	117JL105A106B4A	7STRP	-0.00475,0.0,0,0	Slew =0,2.5	4R5	02	2,025,437:53:0
93	240	13:40:33.000		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 6195 +/- 10;	4R5	02	2,025,437:59:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	13:40:33.000	175JL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,437:59:0
93	240	13:40:37.000		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *6196 +/- 10;	4R5	02	2,025,437:65:0
93	240	13:40:39.000	117JL105A106B4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.11	4R5	02	2,025,437:68:0
93	240	13:41:39.666	117JL11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,438:68:0
93	240	13:41:44.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6255 +/- 10;	4R5	02	2,025,438:75:0
93	240	13:41:44.333	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,438:75:0
93	240	13:41:45.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6256 +/- 11;	4R5	02	2,025,438:76:8
93	240	13:43:27.000	IDUNRT15SM05+		-----STOP-------		4R5	02	: :
93	240	13:46:58.266	116IF4A	7STRP	-0.00247,0.00001	Slew =0,1.0	4R5	02	2,025,444:00:0
93	240	13:47:58.266		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 6256 +/- 11;	4R5	02	2,025,444:90:0
93	240	13:47:58.266	175IG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	02	2,025,444:90:0
93	240	13:47:58.933	176IG6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R5	02	2,025,445:00:0
93	240	13:48:02.266		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *6263 +/- 11;	4R5	02	2,025,445:05:0
93	240	13:48:29.600		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6359 +/- 11;	4R5	02	2,025,445:46:0
93	240	13:48:29.600	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,445:46:0
93	240	13:48:30.800		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6360 +/- 11;	4R5	02	2,025,445:47:8
93	240	13:51:52.266	117JM	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,448:77:0
93	240	13:52:01.600	117JM105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,449:00:0
93	240	13:52:01.600	176JM6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,449:00:0
93	240	13:52:06.000	IDUNRT30SM04+		-----START------		4R5	02	: :
93	240	13:52:06.933	117JM105A106B4A	7STRP	-0.0024,0.0,0,0,	Slew =,1.25	4R5	02	2,025,449:08:0
93	240	13:52:10.933	175JM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,449:14:0
93	240	13:52:10.933		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 6360 +/- 11;	4R5	02	2,025,449:14:0
93	240	13:52:14.933		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *6362 +/- 12;	4R5	02	2,025,449:20:0
93	240	13:52:16.933	117JM105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,449:23:0
93	240	13:53:17.600	117JM11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,450:23:0
93	240	13:53:22.266	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,450:30:0
93	240	13:53:22.266		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6421 +/- 12;	4R5	02	2,025,450:30:0
93	240	13:53:23.466		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6422 +/- 12;	4R5	02	2,025,450:31:8
93	240	13:55:08.000	IDUNRT30SM04+		-----STOP-------		4R5	02	: :
93	240	14:03:12.933	117JN	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,460:06:0
93	240	14:03:13.000	IDUNRT15SM06+		-----START------		4R5	02	: :
93	240	14:03:38.933	117JN105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,460:45:0
93	240	14:03:44.266	117JN105A106B4A	7STRP	-0.005,0.0,0,0,0	Slew =0,2.5	4R5	02	2,025,460:53:0
93	240	14:03:48.266	175JN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,460:59:0
93	240	14:03:48.266		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 6422 +/- 12;	4R5	02	2,025,460:59:0
93	240	14:03:52.266		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *6423 +/- 12;	4R5	02	2,025,460:65:0
93	240	14:03:54.266	117JN105A106B4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.11	4R5	02	2,025,460:68:0
93	240	14:04:54.933	117JN11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,461:68:0
93	240	14:04:59.600	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,461:75:0
93	240	14:04:59.600		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6482 +/- 12;	4R5	02	2,025,461:75:0
93	240	14:05:00.800		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6483 +/- 12;	4R5	02	2,025,461:76:8

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	14:06:42.000	IDUNRT15SM06+		-----STOP-------		4R5	02			
93	240	14:07:06.933	128JI149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	4R7	06	2,025,463	84	0
93	240	14:07:16.000	IDUSROTATI02*		-----STOP-------		4R7	06			
93	240	14:07:40.933	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	06	2,025,464	44	0
93	240	14:07:41.600	165JA4B	7SCAN	NORM,192.158998,	Check S/P Position	4R7	06	2,025,464	45	0
93	240	14:08:02.933	117JO	CSMOS	GS	***** GROUP START CSMOS	4R7	06	2,025,464	77	0
93	240	14:08:07.600	128JI149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R7	06	2,025,464	84	0
93	240	14:08:08.266	175JO422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R7	06	2,025,464	85	0
93	240	14:08:08.266		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 6483 +/- 12;	4R7	06	2,025,464	85	0
93	240	14:08:10.933	165JA4C	7VECT		Inert vect update UTC	4R7	06	2,025,464	89	0
93	240	14:08:11.600	165JA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	4R7	06	2,025,464	90	0
93	240	14:08:12.266		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *6485 +/- 13;	4R7	06	2,025,465	00	0
93	240	14:08:12.266	117JO105A106A4A	7STRP	0.004,0.0,0,0,0,	Slew =,0.76	4R7	06	2,025,465	00	0
93	240	14:08:12.266	176JO6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R7	06	2,025,465	00	0
93	240	14:08:16.000	IDUSROTATI03*		-----START------		4R7	06			
93	240	14:08:16.000	IDUNRTURXM03+		-----START------		4R7	06			
93	240	14:08:21.600	117JO11A	CSMOS	GE	***** GROUP END CSMOS	4R7	06	2,025,465	14	0
93	240	14:08:32.266	175JO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R7	06	2,025,465	30	0
93	240	14:08:32.266		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6502 +/- 13;	4R7	06	2,025,465	30	0
93	240	14:08:33.466		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6503 +/- 13;	4R7	06	2,025,465	31	8
93	240	14:10:13.600	116IG4A	7STRP	-0.002,0.00001,0	Slew =0,1.0	4R7	06	2,025,467	00	0
93	240	14:10:18.000	IDUNRTURXM03+		-----STOP-------		4R7	06			
93	240	14:11:13.600	175IH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R7	06	2,025,467	90	0
93	240	14:11:13.600		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 6503 +/- 13;	4R7	06	2,025,467	90	0
93	240	14:11:14.266	176IH6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R7	06	2,025,468	00	0
93	240	14:11:17.600		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *6510 +/- 13;	4R7	06	2,025,468	05	0
93	240	14:14:11.600	128JJ149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	4R1	00	2,025,470	84	0
93	240	14:14:16.266		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *7138 +/- 13;	4R1	00	2,025,471	00	0
93	240	14:14:16.266	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	00	2,025,471	00	0
93	240	14:14:17.466		DMS:	*READY	RDY, TRACK 1, FWD, TIC *7139 +/- 14;	4R1	00	2,025,471	01	8
93	240	14:14:20.266	20ET6A	6DMSC	RDY,2	DMS Control Tape stop	4R1	00	2,025,471	06	0
93	240	14:14:20.266		DMS:	READY	RDY, TRACK *2, *REV, TIC 7139 +/- 14;	4R1	00	2,025,471	06	0
93	240	14:15:07.600	117JP	CSMOS	GS	***** GROUP START CSMOS	4R1	00	2,025,471	77	0
93	240	14:15:12.266	128JJ149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R1	00	2,025,471	84	0
93	240	14:15:16.933	117JP105A106A4A	7STRP	0.0001,0.0,0,0,0	Slew =,0.06	4R1	00	2,025,472	00	0
93	240	14:15:16.933	176JP6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R1	00	2,025,472	00	0
93	240	14:15:21.000	IDUNRT90FM03+		-----START------		4R1	00			
93	240	14:15:22.266	117JP105A106B4A	7STRP	-0.002,0.0,0,0,0	Slew =,1.01	4R1	00	2,025,472	08	0
93	240	14:15:22.933	175JP422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R1	00	2,025,472	09	0
93	240	14:15:22.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 7139 +/- 14;	4R1	00	2,025,472	09	0
93	240	14:15:26.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *7137 +/- 14;	4R1	00	2,025,472	15	0
93	240	14:15:28.933	117JP105A106B4B	7STRP	0.004,0.0,0,0,0,	Slew =,0.06	4R1	00	2,025,472	18	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	14:17:09.600	117JP11A	CSMOS	GE	***** GROUP END CSMOS	4R1	00	2,025,473:78:0
93	240	14:17:20.933	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R1	00	2,025,474:04:0
93	240	14:17:20.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *7037 +/- 14;	4R1	00	2,025,474:04:0
93	240	14:17:22.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *7036 +/- 14;	4R1	00	2,025,474:05:8
93	240	14:18:23.000	IDUNRT90FM03+		-----STOP-------		4R1	00	: :
93	240	14:25:18.933	128JK149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	4R5	02	2,025,481:84:0
93	240	14:26:19.600	128JK149A131B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R5	02	2,025,482:84:0
93	240	14:26:28.000	IDUNRT15SM07+		-----START------		4R5	02	: :
93	240	14:26:28.266	117JQ	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,483:06:0
93	240	14:26:54.266	117JQ105A106A4A	7STRP	0.0001,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,483:45:0
93	240	14:26:59.600	117JQ105A106B4A	7STRP	-0.004,0.0,0,0,0	Slew =,1.25	4R5	02	2,025,483:53:0
93	240	14:27:03.600		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 7036 +/- 14;	4R5	02	2,025,483:59:0
93	240	14:27:03.600	175JQ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,483:59:0
93	240	14:27:07.600		DMS:	*RECORD	R28, TRACK 2, REV, TIC *7035 +/- 15;	4R5	02	2,025,483:65:0
93	240	14:27:09.600	117JQ105A106B4B	7STRP	0.004,0.0,0,0,0,	Slew =,0.11	4R5	02	2,025,483:68:0
93	240	14:28:23.600	117JQ11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,484:88:0
93	240	14:28:28.266	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,485:04:0
93	240	14:28:28.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6964 +/- 15;	4R5	02	2,025,485:04:0
93	240	14:28:29.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *6963 +/- 15;	4R5	02	2,025,485:05:8
93	240	14:29:58.000	IDUNRT15SM07+		-----STOP-------		4R5	02	: :
93	240	14:33:28.933	116IH4A	7STRP	-0.002201,0.0,0,	Slew =,1.01	4R5	02	2,025,490:00:0
93	240	14:34:28.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 6963 +/- 15;	4R5	02	2,025,490:90:0
93	240	14:34:28.933	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	02	2,025,490:90:0
93	240	14:34:29.600	176II6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R5	02	2,025,491:00:0
93	240	14:34:32.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *6956 +/- 15;	4R5	02	2,025,491:05:0
93	240	14:37:01.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6434 +/- 15;	4R5	02	2,025,493:46:0
93	240	14:37:01.600	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,493:46:0
93	240	14:37:02.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *6433 +/- 15;	4R5	02	2,025,493:47:8
93	240	14:38:22.933	117JR	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,494:77:0
93	240	14:38:32.266	117JR105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,495:00:0
93	240	14:38:32.266	176JR6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,495:00:0
93	240	14:38:36.000	IDUNRT30SM05+		-----START------		4R5	02	: :
93	240	14:38:37.600	117JR105A106B4A	7STRP	-0.00225,0.0,0,0	Slew =,1.25	4R5	02	2,025,495:08:0
93	240	14:38:41.600	175JR422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,495:14:0
93	240	14:38:41.600		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 6433 +/- 15;	4R5	02	2,025,495:14:0
93	240	14:38:45.600		DMS:	*RECORD	R28, TRACK 2, REV, TIC *6431 +/- 16;	4R5	02	2,025,495:20:0
93	240	14:38:47.600	117JR105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,495:23:0
93	240	14:39:48.266	117JR11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,496:23:0
93	240	14:39:52.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6372 +/- 16;	4R5	02	2,025,496:30:0
93	240	14:39:52.933	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,496:30:0
93	240	14:39:54.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *6371 +/- 16;	4R5	02	2,025,496:31:8
93	240	14:41:38.000	IDUNRT30SM05+		-----STOP-------		4R5	02	: :

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	14:49:43.600	117JS	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,506	06	0
93	240	14:49:44.000	IDUNRT15SM08+		-----START------		4R5	02			
93	240	14:50:09.600	117JS105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,506	45	0
93	240	14:50:14.933	117JS105A106B4A	7STRP	-0.0045,0.0,0,0,	Slew =0,2.5	4R5	02	2,025,506	53	0
93	240	14:50:18.933	175JS422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,506	59	0
93	240	14:50:18.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 6371 +/- 16;	4R5	02	2,025,506	59	0
93	240	14:50:22.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *6370 +/- 16;	4R5	02	2,025,506	65	0
93	240	14:50:24.933	117JS105A106B4B	7STRP	0.00425,0.00004,	Slew =,0.11	4R5	02	2,025,506	68	0
93	240	14:51:25.600	117JS11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,507	68	0
93	240	14:51:30.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6310 +/- 16;	4R5	02	2,025,507	75	0
93	240	14:51:30.266	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,507	75	0
93	240	14:51:31.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *6309 +/- 17;	4R5	02	2,025,507	76	8
93	240	14:53:13.000	IDUNRT15SM08+		-----STOP-------		4R5	02			
93	240	14:56:44.266	116II4A	7STRP	-0.002021,-0.000	Slew =0,1.0	4R5	02	2,025,513	00	0
93	240	14:57:44.266	175IJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R5	02	2,025,513	90	0
93	240	14:57:44.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 6309 +/- 17;	4R5	02	2,025,513	90	0
93	240	14:57:44.933	176IJ6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R5	02	2,025,514	00	0
93	240	14:57:48.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *6303 +/- 17;	4R5	02	2,025,514	05	0
93	240	15:00:16.933	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,516	46	0
93	240	15:00:16.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5780 +/- 17;	4R5	02	2,025,516	46	0
93	240	15:00:18.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *5779 +/- 17;	4R5	02	2,025,516	47	8
93	240	15:01:38.266	117JT	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,517	77	0
93	240	15:01:47.600	117JT105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,518	00	0
93	240	15:01:47.600	176JT6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R5	02	2,025,518	00	0
93	240	15:01:52.000	IDUNRT30SM06+		-----START------		4R5	02			
93	240	15:01:52.933	117JT105A106B4A	7STRP	-0.00225,0.0,0,0	Slew =,1.25	4R5	02	2,025,518	08	0
93	240	15:01:56.933	175JT422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,518	14	0
93	240	15:01:56.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 5779 +/- 17;	4R5	02	2,025,518	14	0
93	240	15:02:00.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *5778 +/- 18;	4R5	02	2,025,518	20	0
93	240	15:02:02.933	117JT105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,518	23	0
93	240	15:03:03.600	117JT11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,519	23	0
93	240	15:03:08.266	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,519	30	0
93	240	15:03:08.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5719 +/- 18;	4R5	02	2,025,519	30	0
93	240	15:03:09.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *5718 +/- 18;	4R5	02	2,025,519	31	8
93	240	15:04:54.000	IDUNRT30SM06+		-----STOP-------		4R5	02			
93	240	15:12:58.933	117JU	CSMOS	GS	***** GROUP START CSMOS	4R5	02	2,025,529	06	0
93	240	15:12:59.000	IDUNRT15SM09+		-----START------		4R5	02			
93	240	15:13:24.933	117JU105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	4R5	02	2,025,529	45	0
93	240	15:13:30.266	117JU105A106B4A	7STRP	-0.0045,0.0,0,0,	Slew =0,2.5	4R5	02	2,025,529	53	0
93	240	15:13:34.266	175JU422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R5	02	2,025,529	59	0
93	240	15:13:34.266		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 5718 +/- 18;	4R5	02	2,025,529	59	0
93	240	15:13:38.266		DMS:	*RECORD	R28, TRACK 2, REV, TIC *5716 +/- 18;	4R5	02	2,025,529	65	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	15:13:40.266	117JU105A106B4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.11	4R5	02	2,025,529	68	0
93	240	15:14:40.933	117JU11A	CSMOS	GE	***** GROUP END CSMOS	4R5	02	2,025,530	68	0
93	240	15:14:45.600	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R5	02	2,025,530	75	0
93	240	15:14:45.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5657 +/- 18;	4R5	02	2,025,530	75	0
93	240	15:14:46.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *5656 +/- 18;	4R5	02	2,025,530	76	8
93	240	15:16:28.000	IDUNRT15SM09+		-----STOP-------		4R5	02			
93	240	15:17:02.000	IDUSROTATI03*		-----STOP-------		4R5	02			
93	240	15:17:53.600	128JL149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	4R7	06	2,025,533	84	0
93	240	15:18:27.600	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R7	06	2,025,534	44	0
93	240	15:18:28.266	165JB4B	7SCAN	NORM,192.276999,	Check S/P Position	4R7	06	2,025,534	45	0
93	240	15:18:49.600	117JV	CSMOS	GS	***** GROUP START CSMOS	4R7	06	2,025,534	77	0
93	240	15:18:54.266	128JL149A131B4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R7	06	2,025,534	84	0
93	240	15:18:54.933	175JV422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R7	06	2,025,534	85	0
93	240	15:18:54.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 5656 +/- 18;	3R7	06	2,025,534	85	0
93	240	15:18:57.600	165JB4C	7VECT		Inert vect update UTC	3R7	06	2,025,534	89	0
93	240	15:18:58.266	165JB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R7	06	2,025,534	90	0
93	240	15:18:58.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *5655 +/- 19;	3R7	06	2,025,535	00	0
93	240	15:18:58.933	176JV6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R7	06	2,025,535	00	0
93	240	15:18:58.933	117JV105A106A4A	7STRP	0.0045,0.0,0,0,0	Slew =,0.76	3R7	06	2,025,535	00	0
93	240	15:19:03.000	IDUSROTATI04*		-----START------		3R7	06			
93	240	15:19:03.000	IDUNRTURXM04+		-----START------		3R7	06			
93	240	15:19:10.933	117JV11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,535	18	0
93	240	15:19:18.933	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R7	06	2,025,535	30	0
93	240	15:19:18.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5637 +/- 19;	3R7	06	2,025,535	30	0
93	240	15:19:20.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *5636 +/- 19;	3R7	06	2,025,535	31	8
93	240	15:19:59.600	116IJ4A	7STRP	-0.0025,0.0,0,0,	Slew =,1.31	3R7	06	2,025,536	00	0
93	240	15:20:04.000	IDUNRTURXM04+		-----STOP-------		3R7	06			
93	240	15:20:59.600		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 5636 +/- 19;	3R7	06	2,025,536	90	0
93	240	15:20:59.600	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R7	06	2,025,536	90	0
93	240	15:21:00.266	176IK6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R7	06	2,025,537	00	0
93	240	15:21:03.600		DMS:	*RECORD	R115, TRACK 2, REV, TIC *5629 +/- 19;	3R7	06	2,025,537	05	0
93	240	15:23:57.600	128JM149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	3R1	00	2,025,539	84	0
93	240	15:24:02.266	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	00	2,025,540	00	0
93	240	15:24:02.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5001 +/- 19;	3R1	00	2,025,540	00	0
93	240	15:24:03.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *5000 +/- 20;	3R1	00	2,025,540	01	8
93	240	15:24:53.600	117JW	CSMOS	GS	***** GROUP START CSMOS	3R1	00	2,025,540	77	0
93	240	15:24:58.266	128JM149A131B4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R1	00	2,025,540	84	0
93	240	15:25:02.933	117JW105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.06	3R1	00	2,025,541	00	0
93	240	15:25:02.933	176JX6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R1	00	2,025,541	00	0
93	240	15:25:07.000	IDUNRT90FM04+		-----START------		3R1	00			
93	240	15:25:08.266	117JW105A106B4A	7STRP	-0.0025,0.0,0,0,	Slew =,1.25	3R1	00	2,025,541	08	0
93	240	15:25:08.933	175JX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R1	00	2,025,541	09	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	15:25:08.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 5000 +/- 20;	3R1	00	2,025,541	09	0
93	240	15:25:12.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *4999 +/- 20;	3R1	00	2,025,541	15	0
93	240	15:25:14.933	117JW105A106B4B	7STRP	0.00524,0.0,0,0,	Slew =,0.06	3R1	00	2,025,541	18	0
93	240	15:27:16.266	117JW11A	CSMOS	GE	***** GROUP END CSMOS	3R1	00	2,025,543	18	0
93	240	15:27:24.266	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R1	00	2,025,543	30	0
93	240	15:27:24.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *4884 +/- 20;	3R1	00	2,025,543	30	0
93	240	15:27:25.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *4883 +/- 20;	3R1	00	2,025,543	31	8
93	240	15:28:09.000	IDUNRT90FM04+		-----STOP-------		3R1	00		:	:
93	240	15:31:06.933	116IN4A	7STRP	-0.00275,0.00000	Slew =0,1.3	3R1	00	2,025,547	00	0
93	240	15:32:06.933	175IL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R1	00	2,025,547	90	0
93	240	15:32:06.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 4883 +/- 20;	3R1	00	2,025,547	90	0
93	240	15:32:07.600	176IL6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R1	00	2,025,548	00	0
93	240	15:32:10.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *4876 +/- 21;	3R1	00	2,025,548	05	0
93	240	15:35:04.933	128JN149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	3R5	02	2,025,550	84	0
93	240	15:35:09.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *4248 +/- 21;	3R5	02	2,025,551	00	0
93	240	15:35:09.600	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,551	00	0
93	240	15:35:10.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *4247 +/- 21;	3R5	02	2,025,551	01	8
93	240	15:36:05.600	128JN149A131B4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R5	02	2,025,551	84	0
93	240	15:36:10.266	176JY6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R5	02	2,025,552	00	0
93	240	15:36:14.000	IDUNRT15SM10+		-----START------		3R5	02		:	:
93	240	15:36:14.266	117JX	CSMOS	GS	***** GROUP START CSMOS	3R5	02	2,025,552	06	0
93	240	15:36:40.266	117JX105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R5	02	2,025,552	45	0
93	240	15:36:45.600	117JX105A106B4A	7STRP	-0.00263,0.0,0,0	Slew =,1.31	3R5	02	2,025,552	53	0
93	240	15:36:49.600		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 4247 +/- 21;	3R5	02	2,025,552	59	0
93	240	15:36:49.600	175JY422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	02	2,025,552	59	0
93	240	15:36:53.600		DMS:	*RECORD	R28, TRACK 2, REV, TIC *4246 +/- 21;	3R5	02	2,025,552	65	0
93	240	15:36:55.600	117JX105A106B4B	7STRP	0.00525,0.0,0,0,	Slew =,0.11	3R5	02	2,025,552	68	0
93	240	15:38:16.266	117JX11A	CSMOS	GE	***** GROUP END CSMOS	3R5	02	2,025,554	07	0
93	240	15:38:20.933	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,554	14	0
93	240	15:38:20.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *4169 +/- 21;	3R5	02	2,025,554	14	0
93	240	15:38:22.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *4168 +/- 21;	3R5	02	2,025,554	15	8
93	240	15:39:44.000	IDUNRT15SM10+		-----STOP-------		3R5	02		:	:
93	240	15:43:14.933	116IK4A	7STRP	-0.002631,0.0000	Slew =0,1.0	3R5	02	2,025,559	00	0
93	240	15:44:14.933	175IM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R5	02	2,025,559	90	0
93	240	15:44:14.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 4168 +/- 21;	3R5	02	2,025,559	90	0
93	240	15:44:15.600	176IM6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R5	02	2,025,560	00	0
93	240	15:44:18.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *4161 +/- 22;	3R5	02	2,025,560	05	0
93	240	15:47:17.600	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,563	00	0
93	240	15:47:17.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3533 +/- 22;	3R5	02	2,025,563	00	0
93	240	15:47:18.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *3532 +/- 22;	3R5	02	2,025,563	01	8
93	240	15:48:08.933	117JY	CSMOS	GS	***** GROUP START CSMOS	3R5	02	2,025,563	77	0
93	240	15:48:18.266	117JY105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R5	02	2,025,564	00	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	15:48:18.266	176JZ6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R5	02	2,025,564:00:0
93	240	15:48:22.000	IDUNRT30SM07+		-----START------		3R5	02	: :
93	240	15:48:23.600	117JY105A106B4A	7STRP	-0.0027,0.0,0,0,	Slew =,1.25	3R5	02	2,025,564:08:0
93	240	15:48:27.600	175JZ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	02	2,025,564:14:0
93	240	15:48:27.600		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 3532 +/- 22;	3R5	02	2,025,564:14:0
93	240	15:48:31.600		DMS:	*RECORD	R28, TRACK 2, REV, TIC *3531 +/- 22;	3R5	02	2,025,564:20:0
93	240	15:48:33.600	117JY105A106B4B	7STRP	0.0055,0.0,0,0,0	Slew =,0.11	3R5	02	2,025,564:23:0
93	240	15:49:40.933	117JY11A	CSMOS	GE	***** GROUP END CSMOS	3R5	02	2,025,565:33:0
93	240	15:49:45.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3466 +/- 22;	3R5	02	2,025,565:40:0
93	240	15:49:45.600	175JZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,565:40:0
93	240	15:49:46.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *3465 +/- 23;	3R5	02	2,025,565:41:8
93	240	15:51:24.000	IDUNRT30SM07+		-----STOP-------		3R5	02	: :
93	240	15:54:22.266	116IO4A	7STRP	-0.00281,0.00000	Slew =0,1.3	3R5	02	2,025,570:00:0
93	240	15:55:22.266	175IN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R5	02	2,025,570:90:0
93	240	15:55:22.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 3465 +/- 23;	3R5	02	2,025,570:90:0
93	240	15:55:22.933	176IN6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R5	02	2,025,571:00:0
93	240	15:55:26.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *3458 +/- 23;	3R5	02	2,025,571:05:0
93	240	15:58:24.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2830 +/- 23;	3R5	02	2,025,574:00:0
93	240	15:58:24.933	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,574:00:0
93	240	15:58:26.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *2829 +/- 23;	3R5	02	2,025,574:01:8
93	240	15:59:25.600	176EA6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R5	02	2,025,575:00:0
93	240	15:59:29.600	117JZ	CSMOS	GS	***** GROUP START CSMOS	3R5	02	2,025,575:06:0
93	240	15:59:30.000	IDUNRT15SM11+		-----START------		3R5	02	: :
93	240	15:59:55.600	117JZ105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R5	02	2,025,575:45:0
93	240	16:00:00.933	117JZ105A106B4A	7STRP	-0.003,0.0,0,0,0	Slew =,1.31	3R5	02	2,025,575:53:0
93	240	16:00:04.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 2829 +/- 23;	3R5	02	2,025,575:59:0
93	240	16:00:04.933	175EA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	02	2,025,575:59:0
93	240	16:00:08.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *2828 +/- 24;	3R5	02	2,025,575:65:0
93	240	16:00:10.933	117JZ105A106B4B	7STRP	0.006,0.0,0,0,0,	Slew =,0.11	3R5	02	2,025,575:68:0
93	240	16:01:18.266	117JZ11A	CSMOS	GE	***** GROUP END CSMOS	3R5	02	2,025,576:78:0
93	240	16:01:22.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2763 +/- 24;	3R5	02	2,025,576:85:0
93	240	16:01:22.933	175EA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,576:85:0
93	240	16:01:24.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *2762 +/- 24;	3R5	02	2,025,576:86:8
93	240	16:02:59.000	IDUNRT15SM11+		-----STOP-------		3R5	02	: :
93	240	16:06:30.266	116IL4A	7STRP	-0.00301,0.00000	Slew =0,1.0	3R5	02	2,025,582:00:0
93	240	16:07:30.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 2762 +/- 24;	3R5	02	2,025,582:90:0
93	240	16:07:30.266	175IO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R5	02	2,025,582:90:0
93	240	16:07:30.933	176IO6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R5	02	2,025,583:00:0
93	240	16:07:34.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *2755 +/- 24;	3R5	02	2,025,583:05:0
93	240	16:10:32.933	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,586:00:0
93	240	16:10:32.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2127 +/- 24;	3R5	02	2,025,586:00:0
93	240	16:10:34.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *2126 +/- 24;	3R5	02	2,025,586:01:8

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	16:11:24.266	117EA	CSMOS	GS	***** GROUP START CSMOS	3R5	02	2,025,586	77	0
93	240	16:11:33.600	176EB6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R5	02	2,025,587	00	0
93	240	16:11:33.600	117EA105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R5	02	2,025,587	00	0
93	240	16:11:38.000	IDUNRT30SM08+		-----START------		3R5	02			
93	240	16:11:38.933	117EA105A106B4A	7STRP	-0.00275,0.0,0,0	Slew =,1.25	3R5	02	2,025,587	08	0
93	240	16:11:42.933	175EB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	02	2,025,587	14	0
93	240	16:11:42.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 2126 +/- 24;	3R5	02	2,025,587	14	0
93	240	16:11:46.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *2125 +/- 25;	3R5	02	2,025,587	20	0
93	240	16:11:48.933	117EA105A106B4B	7STRP	0.00575,0.0,0,0,	Slew =,0.11	3R5	02	2,025,587	23	0
93	240	16:13:02.933	117EA11A	CSMOS	GE	***** GROUP END CSMOS	3R5	02	2,025,588	43	0
93	240	16:13:07.600	175EB422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,588	50	0
93	240	16:13:07.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2054 +/- 25;	3R5	02	2,025,588	50	0
93	240	16:13:08.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *2053 +/- 25;	3R5	02	2,025,588	51	8
93	240	16:14:40.000	IDUNRT30SM08+		-----STOP-------		3R5	02			
93	240	16:17:37.600	116IP4A	7STRP	-0.00301,0.00000	Slew =0,1.3	3R5	02	2,025,593	00	0
93	240	16:18:37.600		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 2053 +/- 25;	3R5	02	2,025,593	90	0
93	240	16:18:37.600	175IP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R5	02	2,025,593	90	0
93	240	16:18:38.266	176IP6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R5	02	2,025,594	00	0
93	240	16:18:41.600		DMS:	*RECORD	R115, TRACK 2, REV, TIC *2046 +/- 25;	3R5	02	2,025,594	05	0
93	240	16:21:40.266	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,597	00	0
93	240	16:21:40.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1418 +/- 25;	3R5	02	2,025,597	00	0
93	240	16:21:41.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *1417 +/- 26;	3R5	02	2,025,597	01	8
93	240	16:22:40.933	176EC6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R5	02	2,025,598	00	0
93	240	16:22:44.933	117EB	CSMOS	GS	***** GROUP START CSMOS	3R5	02	2,025,598	06	0
93	240	16:22:45.000	IDUNRT15SM12+		-----START------		3R5	02			
93	240	16:23:10.933	117EB105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R5	02	2,025,598	45	0
93	240	16:23:16.266	117EB105A106B4A	7STRP	-0.0034,0.0,0,0,	Slew =,1.31	3R5	02	2,025,598	53	0
93	240	16:23:20.266	175EC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R5	02	2,025,598	59	0
93	240	16:23:20.266		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 1417 +/- 26;	3R5	02	2,025,598	59	0
93	240	16:23:24.266		DMS:	*RECORD	R28, TRACK 2, REV, TIC *1416 +/- 26;	3R5	02	2,025,598	65	0
93	240	16:23:26.266	117EB105A106B4B	7STRP	0.007,0.0,0,0,0,	Slew =,0.11	3R5	02	2,025,598	68	0
93	240	16:23:36.933	128JA149A131A4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R5	02	2,025,598	84	0
93	240	16:24:34.266	117EB11A	CSMOS	GE	***** GROUP END CSMOS	3R5	02	2,025,599	79	0
93	240	16:24:37.600	128JA149A131B4A	37IOP	3,0	Long Map, Grating Start Position =0	3R3	00	2,025,599	84	0
93	240	16:24:41.600	175EC422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	00	2,025,599	90	0
93	240	16:24:41.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1348 +/- 26;	3R3	00	2,025,599	90	0
93	240	16:24:42.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *1347 +/- 26;	3R3	00	2,025,600	00	8
93	240	16:25:16.266	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	00	2,025,600	51	0
93	240	16:25:16.933	165JC4B	7SCAN	NORM,192.912998,	Check S/P Position	3R3	00	2,025,600	52	0
93	240	16:25:36.933	117EC	CSMOS	GS	***** GROUP START CSMOS	3R3	00	2,025,600	82	0
93	240	16:25:42.266	175ED422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	00	2,025,600	90	0
93	240	16:25:42.266		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 1347 +/- 26;	3R3	00	2,025,600	90	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	16:25:42.933	176ED6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R3	00	2,025,601	00	0
93	240	16:25:44.933	165JC4C	7VECT		Inert vect update UTC	3R3	00	2,025,601	03	0
93	240	16:25:45.600	165JC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	00	2,025,601	04	0
93	240	16:25:46.266	117EC105A106A4A	7STRP	0.0063,0.0,0,0,0	Slew =,0.03	3R3	00	2,025,601	05	0
93	240	16:25:46.266		DMS:	*RECORD	R28, TRACK 2, REV, TIC *1345 +/- 27;	3R3	00	2,025,601	05	0
93	240	16:25:47.000	IDUNIDAGLM01+		-----START------		3R3	00			
93	240	16:26:14.000	IDUNRT15SM12+		-----STOP-------		3R3	00			
93	240	16:26:48.000	IDUSROTATI04*		-----STOP-------		3R3	00			
93	240	16:29:32.266	117EC11A	CSMOS	GE	***** GROUP END CSMOS	3R3	00	2,025,604	71	0
93	240	16:29:34.933	116IM4A	7STRP	-0.003303,0.0000	Slew =0,1.0	3R3	00	2,025,604	75	0
93	240	16:29:38.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1141 +/- 27;	3R3	00	2,025,604	80	0
93	240	16:29:38.266	175ED422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	00	2,025,604	80	0
93	240	16:29:39.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *1140 +/- 27;	3R3	00	2,025,604	81	8
93	240	16:29:44.933	175IQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	00	2,025,604	90	0
93	240	16:29:44.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 1140 +/- 27;	3R3	00	2,025,604	90	0
93	240	16:29:45.600	176IQ6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	00	2,025,605	00	0
93	240	16:29:48.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *1134 +/- 27;	3R3	00	2,025,605	05	0
93	240	16:29:50.000	IDUSFINROT01-		-----START------		3R3	00			
93	240	16:30:50.000	IDUNIDAGLM01+		-----STOP-------		3R3	00			
93	240	16:31:50.933	117ED	CSMOS	GS	***** GROUP START CSMOS	3R3	00	2,025,607	06	0
93	240	16:32:39.600	117ED105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.03	3R3	00	2,025,607	79	0
93	240	16:32:45.600	117ED105A106B4A	7STRP	-0.00365,0.0,0,0	Slew =,2.01	3R3	00	2,025,607	88	0
93	240	16:32:47.600	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	00	2,025,608	00	0
93	240	16:32:47.600	176EF6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R3	00	2,025,608	00	0
93	240	16:32:47.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 506 +/- 27;	3R3	00	2,025,608	00	0
93	240	16:32:48.800		DMS:	*READY	RDY, TRACK 2, REV, TIC * 505 +/- 27;	3R3	00	2,025,608	01	8
93	240	16:32:48.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 505 +/- 27;	3R3	00	2,025,608	02	0
93	240	16:32:48.933	175EF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	00	2,025,608	02	0
93	240	16:32:52.000	IDUNIDAFIN01*		-----START------		3R3	00			
93	240	16:32:52.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC * 503 +/- 28;	3R3	00	2,025,608	08	0
93	240	16:32:52.933	117ED105A106B4B	7STRP	0.00795,0.0,0,0,	Slew =,0.03	3R3	00	2,025,608	08	0
93	240	16:33:52.000	IDUSFINROT01-		-----STOP-------		3R3	00			
93	240	16:36:54.266	117IA	CSMOS	GS	***** GROUP START CSMOS	3R3	00	2,025,612	06	0
93	240	16:37:33.600	117ED11A	CSMOS	GE	***** GROUP END CSMOS	3R3	00	2,025,612	65	0
93	240	16:37:34.266	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	00	2,025,612	66	0
93	240	16:37:34.933	165IC4B	7SCAN	NORM,193.872,8.2	Check S/P Position	3R3	00	2,025,612	67	0
93	240	16:37:35.600	175EF422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	00	2,025,612	68	0
93	240	16:37:35.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 255 +/- 28;	3R3	00	2,025,612	68	0
93	240	16:37:36.800		DMS:	*READY	RDY, TRACK 2, REV, TIC * 254 +/- 28;	3R3	00	2,025,612	69	8
93	240	16:37:39.600		DMS:	READY	RDY, TRACK *3, *FWD, TIC 254 +/- 28;	3R3	00	2,025,612	74	0
93	240	16:37:39.600	20EU6A	6DMSC	RDY,3	DMS Control Tape stop	3R3	00	2,025,612	74	0
93	240	16:37:40.266	175IR422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R3	00	2,025,612	75	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	16:37:40.266		DMS:	*RUNUP	R403, TRACK 3, FWD, TIC 254 +/- 28;	3R3	00	2,025,612:75:0
93	240	16:37:40.933	165IC4C	7VECT		Inert vect update UTC	3R3	00	2,025,612:76:0
93	240	16:37:41.600	165IC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R3	00	2,025,612:77:0
93	240	16:37:42.266	176IR6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	3R3	00	2,025,612:78:0
93	240	16:37:42.933	117IA105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R3	00	2,025,612:79:0
93	240	16:37:44.066		DMS:	*RECORD	R403, TRACK 3, FWD, TIC * 276 +/- 31;	3R3	00	2,025,612:80:7
93	240	16:38:26.000	IDUNIDAFIN01*		-----STOP-------		3R3	00	: :
93	240	16:38:27.600	117IA105A106B4A	7STRP	-0.0023,0.0029,0	Slew =,4.11	3R3	00	2,025,613:55:0
93	240	16:38:34.266	117IA105A106B4B	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R3	00	2,025,613:65:0
93	240	16:39:02.266	117IA105A106C4A	7STRP	0.0052,0.00025,0	Slew =,4.11	3R3	00	2,025,614:16:0
93	240	16:39:08.933	117IA105A106C4B	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R3	00	2,025,614:26:0
93	240	16:39:36.933	117IA105A106D4A	7STRP	0.0005,-0.00725,	Slew =,4.11	3R3	00	2,025,614:68:0
93	240	16:39:43.600	117IA105A106D4B	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R3	00	2,025,614:78:0
93	240	16:39:56.000	IDUS6COLOR01-		-----START------		3R3	00	: :
93	240	16:40:11.600	117IA105A106E4A	7STRP	-0.0067,-0.0004,	Slew =,4.11	3R3	00	2,025,615:29:0
93	240	16:40:18.266	117IA105A106E4B	7STRP	0.00001,0.0,0,0,	Slew =,0.11	3R3	00	2,025,615:39:0
93	240	16:40:46.266	117IA11A	CSMOS	GE	***** GROUP END CSMOS	3R3	00	2,025,615:81:0
93	240	16:40:46.266	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	00	2,025,615:81:0
93	240	16:40:46.933	165JE4B	7SCAN	NORM,194.094,12.	Check S/P Position	3R3	00	2,025,615:82:0
93	240	16:40:48.266	128JC149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	3R5	02	2,025,615:84:0
93	240	16:40:49.600	117EE	CSMOS	GS	***** GROUP START CSMOS	3R5	02	2,025,615:86:0
93	240	16:40:52.933	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R5	02	2,025,616:00:0
93	240	16:40:52.933		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *2600 +/- 31;	3R5	02	2,025,616:00:0
93	240	16:40:52.933	176EG6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R5	02	2,025,616:00:0
93	240	16:40:55.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *2604 +/- 32;	3R5	02	2,025,616:04:2
93	240	16:40:56.266		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 2604 +/- 32;	3R5	02	2,025,616:05:0
93	240	16:40:56.266	175EG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R5	02	2,025,616:05:0
93	240	16:40:57.000	IDUNIDACHM01*		-----START------		3R5	02	: :
93	240	16:40:57.600	165JE4C	7VECT		Inert vect update UTC	3R5	02	2,025,616:07:0
93	240	16:40:58.266	165JE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R5	02	2,025,616:08:0
93	240	16:40:58.933	117EE105A106A4A	7STRP	0.014151,0.0,0,0	Slew =,0.11	3R5	02	2,025,616:09:0
93	240	16:41:00.266		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *2610 +/- 32;	3R5	02	2,025,616:11:0
93	240	16:43:14.933	117EE105A106B4A	7STRP	-0.013351,-0.010	Slew =,3.96	3R5	02	2,025,618:31:0
93	240	16:43:28.933	117EE105A106B4B	7STRP	0.017152,0.002,0	Slew =,0.11	3R5	02	2,025,618:52:0
93	240	16:44:50.933	128IC149A131A4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R5	02	2,025,619:84:0
93	240	16:45:00.000	IDUS6COLOR01-		-----STOP-------		3R5	02	: :
93	240	16:45:51.600	128IC149A131B4A	37IOP	7,6	Fixed Map, Grating Start Position =6	3R7	06	2,025,620:84:0
93	240	16:46:00.266	117IB	CSMOS	GS	***** GROUP START CSMOS	3R7	06	2,025,621:06:0
93	240	16:46:13.600	117EE11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,621:26:0
93	240	16:46:15.600	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	06	2,025,621:29:0
93	240	16:46:16.266	165ID4B	7SCAN	NORM,196.606998,	Check S/P Position	3R7	06	2,025,621:30:0
93	240	16:46:23.600		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3747 +/- 32;	3R7	06	2,025,621:41:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	16:46:23.600	175EG422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R7	06	2,025,621	41	0
93	240	16:46:24.800		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3748 +/- 33;	3R7	06	2,025,621	42	8
93	240	16:46:28.933		DMS:	*RUNUP	R403, TRACK 3, FWD, TIC 3748 +/- 33;	3R7	06	2,025,621	49	0
93	240	16:46:28.933	175IS422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R7	06	2,025,621	49	0
93	240	16:46:29.600	165ID4C	7VECT		Inert vect update UTC	3R7	06	2,025,621	50	0
93	240	16:46:30.266	165ID4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R7	06	2,025,621	51	0
93	240	16:46:30.933	117IB105A106A4A	7STRP	0.014501,-0.001,	Slew =0,0.8	3R7	06	2,025,621	52	0
93	240	16:46:30.933	176IS6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	3R7	06	2,025,621	52	0
93	240	16:46:31.000	IDUNHISPAT01+		-----START------		3R7	06			
93	240	16:46:31.000	IDUSHIRES 01*		-----START------		3R7	06			
93	240	16:46:32.733		DMS:	*RECORD	R403, TRACK 3, FWD, TIC *3770 +/- 36;	3R7	06	2,025,621	54	7
93	240	16:46:52.266	117IB105A106B4A	7STRP	0.005,-0.007,0,0	Slew =0,4.7	3R7	06	2,025,621	84	0
93	240	16:46:56.933	117IB105A106B4B	7STRP	-0.021103,0.0006	Slew =0,0.8	3R7	06	2,025,622	00	0
93	240	16:47:01.000	IDUNIDACHM01*		-----STOP-------		3R7	06			
93	240	16:47:26.933	117IB105A106C4A	7STRP	0.0,-0.0077,0,0,	Slew =0,4.7	3R7	06	2,025,622	45	0
93	240	16:47:31.600	117IB105A106C4B	7STRP	0.027507,0.001,0	Slew =0,0.8	3R7	06	2,025,622	52	0
93	240	16:48:10.266	117IB105A106D4A	7STRP	0.003,-0.007,0,0	Slew =0,4.7	3R7	06	2,025,623	19	0
93	240	16:48:14.933	117IB105A106D4B	7STRP	-0.027007,-0.001	Slew =0,0.8	3R7	06	2,025,623	26	0
93	240	16:48:53.600	117IB105A106E4A	7STRP	0.0058,-0.007,0,	Slew =0,4.7	3R7	06	2,025,623	84	0
93	240	16:48:58.266	117IB105A106E4B	7STRP	0.027507,0.0028,	Slew =0,0.8	3R7	06	2,025,624	00	0
93	240	16:49:36.933	117IB105A106F4A	7STRP	0.003,-0.007,0,0	Slew =0,4.7	3R7	06	2,025,624	58	0
93	240	16:49:41.600	117IB105A106F4B	7STRP	-0.020003,-0.002	Slew =0,0.8	3R7	06	2,025,624	65	0
93	240	16:50:11.600	117IB105A106G4A	7STRP	0.0065,-0.0062,0	Slew =0,4.7	3R7	06	2,025,625	19	0
93	240	16:50:16.266	117IB105A106G4B	7STRP	0.019502,0.003,0	Slew =0,0.8	3R7	06	2,025,625	26	0
93	240	16:50:44.266	117IB11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,625	68	0
93	240	16:50:44.266	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	06	2,025,625	68	0
93	240	16:50:44.933	165IE4B	7SCAN	NORM,213.132,68.	Check S/P Position	3R7	06	2,025,625	69	0
93	240	16:50:50.266	117IC	CSMOS	GS	***** GROUP START CSMOS	3R7	06	2,025,625	77	0
93	240	16:50:50.933		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6947 +/- 36;	3R7	06	2,025,625	78	0
93	240	16:50:50.933	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R7	06	2,025,625	78	0
93	240	16:50:53.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6951 +/- 37;	3R7	06	2,025,625	82	2
93	240	16:50:56.266	20EV6A	6DMSC	RDY,4	DMS Control Tape stop	3R7	06	2,025,625	86	0
93	240	16:50:56.266		DMS:	READY	RDY, TRACK *4, *REV, TIC 6951 +/- 37;	3R7	06	2,025,625	86	0
93	240	16:50:57.600		DMS:	*RUNUP	R403, TRACK 4, REV, TIC 6951 +/- 37;	3R7	06	2,025,625	88	0
93	240	16:50:57.600	175IT422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	3R7	06	2,025,625	88	0
93	240	16:50:58.266	165IE4C	7VECT		Inert vect update UTC	3R7	06	2,025,625	89	0
93	240	16:50:58.933	165IE4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R7	06	2,025,625	90	0
93	240	16:50:59.600	117IC105A106A4A	7STRP	0.002,0.0,0,0,0,	Slew =,0.89	3R7	06	2,025,626	00	0
93	240	16:51:01.400		DMS:	*RECORD	R403, TRACK 4, REV, TIC *6929 +/- 40;	3R7	06	2,025,626	02	7
93	240	16:51:04.000	IDUSENCNTR01*		-----START------		3R7	06			
93	240	16:51:04.000	IDUSHIRES 01*		-----STOP-------		3R7	06			
93	240	16:51:04.000	IDUNIDACA 01+		-----START------		3R7	06			

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
93	240	16:51:04.000	IDUNHISPAT01+		-----STOP-------		3R7	06			
93	240	16:51:04.933	117IC105A106B4A	7STRP	0.012501,-0.002,	Slew =,5.92	3R7	06	2,025,626	08	0
93	240	16:51:10.266	117IC105A106B4B	7STRP	0.0055,0.0,0,0,0	Slew =,0.89	3R7	06	2,025,626	16	0
93	240	16:51:18.933	117IC105A106C4A	7STRP	-0.011,-0.008,0,	Slew =,5.92	3R7	06	2,025,626	29	0
93	240	16:51:27.600	117IC105A106C4B	7STRP	0.020003,-0.0005	Slew =,0.89	3R7	06	2,025,626	42	0
93	240	16:51:53.600	117IC105A106D4A	7STRP	-0.012001,-0.007	Slew =,5.92	3R7	06	2,025,626	81	0
93	240	16:52:02.266	117IC105A106D4B	7STRP	0.020003,0.0,0,0	Slew =,0.89	3R7	06	2,025,627	03	0
93	240	16:52:28.266	117IC105A106E4A	7STRP	-0.012001,-0.007	Slew =,5.92	3R7	06	2,025,627	42	0
93	240	16:52:36.933	117IC105A106E4B	7STRP	0.013001,-0.0003	Slew =,0.89	3R7	06	2,025,627	55	0
93	240	16:52:54.266	117IC105A106F4A	7STRP	0.01,-0.007,0,0,	Slew =,5.92	3R7	06	2,025,627	81	0
93	240	16:53:02.933	117IC105A106F4B	7STRP	0.002,0.0,0,0,0,	Slew =,0.89	3R7	06	2,025,628	03	0
93	240	16:53:04.000	IDUNIDACA 01+		-----STOP-------		3R7	06			
93	240	16:53:08.266	117IC11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,628	11	0
93	240	16:53:09.600	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R7	06	2,025,628	13	0
93	240	16:53:09.600	165LA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	06	2,025,628	13	0
93	240	16:53:09.600	176MA6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	3R7	06	2,025,628	13	0
93	240	16:53:09.600		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *5352 +/- 40;	3R7	06	2,025,628	13	0
93	240	16:53:10.266	165LA4B	7SCAN	NORM,355.856998,	Check S/P Position	3R7	06	2,025,628	14	0
93	240	16:53:12.400		DMS:	*READY	RDY, TRACK 4, REV, TIC *5348 +/- 41;	3R7	06	2,025,628	17	2
93	240	16:53:12.933	175MA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	3R7	06	2,025,628	18	0
93	240	16:53:12.933		DMS:	*RUNUP	R7, TRACK 4, REV, TIC 5348 +/- 41;	3R7	06	2,025,628	18	0
93	240	16:53:14.400		DMS:	*RECORD	R7, TRACK 4, REV, TIC *5347 +/- 41;	3R7	06	2,025,628	20	2
93	240	16:53:27.600	117LA	CSMOS	GS	***** GROUP START CSMOS	3R7	06	2,025,628	40	0
93	240	16:53:35.600	165LA4C	7VECT		Inert vect update UTC	3R7	06	2,025,628	52	0
93	240	16:53:36.266	165LA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R7	06	2,025,628	53	0
93	240	16:53:36.933	117LA105A106A4A	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,628	54	0
93	240	16:53:47.600	117LA105A106A4B	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,628	70	0
93	240	16:53:52.266	117LA105A106A4C	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,628	77	0
93	240	16:54:02.933	117LA105A106A4D	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,629	02	0
93	240	16:54:07.600	117LA105A106A4E	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,629	09	0
93	240	16:54:18.266	117LA105A106A4F	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,629	25	0
93	240	16:54:22.933	117LA105A106A4G	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,629	32	0
93	240	16:54:33.600	117LA105A106A4H	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,629	48	0
93	240	16:54:38.266	117LA105A106A4I	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,629	55	0
93	240	16:54:48.933	117LA105A106A4J	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,629	71	0
93	240	16:54:53.600	117LA105A106A4K	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,629	78	0
93	240	16:55:04.266	117LA105A106A4L	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,630	03	0
93	240	16:55:08.933	117LA105A106A4M	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,630	10	0
93	240	16:55:19.600	117LA105A106A4N	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,630	26	0
93	240	16:55:24.266	117LA105A106A4O	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,630	33	0
93	240	16:55:34.933	117LA105A106A4P	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,630	49	0
93	240	16:55:39.600	117LA105A106A4Q	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,630	56	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	16:55:50.266	117LA105A106A4R	7STRP	-0.015401,0.0017	Slew =,7.95	3R7	06	2,025,630:72:0
93	240	16:55:54.933	117LA105A106A4S	7STRP	0.015301,0.0,0,0	Slew =,2.01	3R7	06	2,025,630:79:0
93	240	16:56:05.600	117LA105A106B4A	7STRP	-0.026006,0.011,	Slew =,7.95	3R7	06	2,025,631:04:0
93	240	16:56:06.000	IDUSENCNTR01*		-----STOP-------		3R7	06	: :
93	240	16:56:11.600	117LA105A106B4B	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,631:13:0
93	240	16:56:20.933	117LA105A106C4A	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,631:27:0
93	240	16:56:25.600	117LA105A106C4B	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,631:34:0
93	240	16:56:34.933	117LA105A106C4C	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,631:48:0
93	240	16:56:39.600	117LA105A106C4D	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,631:55:0
93	240	16:56:48.933	117LA105A106C4E	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,631:69:0
93	240	16:56:53.600	117LA105A106C4F	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,631:76:0
93	240	16:57:02.933	117LA105A106C4G	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,631:90:0
93	240	16:57:07.600	117LA105A106C4H	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,632:06:0
93	240	16:57:16.933	117LA105A106C4I	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,632:20:0
93	240	16:57:21.600	117LA105A106C4J	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,632:27:0
93	240	16:57:30.933	117LA105A106C4K	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,632:41:0
93	240	16:57:35.600	117LA105A106C4L	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,632:48:0
93	240	16:57:44.933	117LA105A106C4M	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,632:62:0
93	240	16:57:49.600	117LA105A106C4N	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,632:69:0
93	240	16:57:58.933	117LA105A106C4O	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,632:83:0
93	240	16:58:03.600	117LA105A106C4P	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,632:90:0
93	240	16:58:12.933	117LA105A106C4Q	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,633:13:0
93	240	16:58:17.600	117LA105A106C4R	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,633:20:0
93	240	16:58:26.933	117LA105A106C4S	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,633:34:0
93	240	16:58:31.600	117LA105A106C4T	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,633:41:0
93	240	16:58:40.933	117LA105A106C4U	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,633:55:0
93	240	16:58:45.600	117LA105A106C4V	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,633:62:0
93	240	16:58:54.933	117LA105A106C4W	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,633:76:0
93	240	16:58:59.600	117LA105A106C4X	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,633:83:0
93	240	16:59:08.933	117LA105A106C4Y	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,634:06:0
93	240	16:59:13.600	117LA105A106C4Z	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,634:13:0
93	240	16:59:22.933	117LA105A106C4AA	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,634:27:0
93	240	16:59:27.600	117LA105A106C4AB	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,634:34:0
93	240	16:59:36.933	117LA105A106C4AC	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,634:48:0
93	240	16:59:41.600	117LA105A106C4AD	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,634:55:0
93	240	16:59:50.933	117LA105A106C4AE	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,634:69:0
93	240	16:59:55.600	117LA105A106C4AF	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,634:76:0
93	240	17:00:04.933	117LA105A106C4AG	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,634:90:0
93	240	17:00:09.600	117LA105A106C4AH	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,635:06:0
93	240	17:00:18.933	117LA105A106C4AI	7STRP	-0.013001,-0.001	Slew =,7.95	3R7	06	2,025,635:20:0
93	240	17:00:23.600	117LA105A106C4AJ	7STRP	0.014001,0.0,0,0	Slew =,2.01	3R7	06	2,025,635:27:0
93	240	17:00:32.933	117LA11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,635:41:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	17:00:45.600	165LB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	06	2,025,635:60:0
93	240	17:00:46.266	165LB4B	7SCAN	NORM,9.555,23.00	Check S/P Position	3R7	06	2,025,635:61:0
93	240	17:01:03.600	117LB	CSMOS	GS	***** GROUP START CSMOS	3R7	06	2,025,635:87:0
93	240	17:01:11.600	165LB4C	7VECT		Inert vect update UTC	3R7	06	2,025,636:08:0
93	240	17:01:12.266	165LB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	3R7	06	2,025,636:09:0
93	240	17:01:12.933	117LB105A106A4A	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,636:10:0
93	240	17:01:18.266	117LB105A106A4B	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,636:18:0
93	240	17:01:22.933	117LB105A106A4C	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,636:25:0
93	240	17:01:28.266	117LB105A106A4D	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,636:33:0
93	240	17:01:32.933	117LB105A106A4E	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,636:40:0
93	240	17:01:38.266	117LB105A106A4F	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,636:48:0
93	240	17:01:42.933	117LB105A106A4G	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,636:55:0
93	240	17:01:48.266	117LB105A106A4H	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,636:63:0
93	240	17:01:52.933	117LB105A106A4I	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,636:70:0
93	240	17:01:58.266	117LB105A106A4J	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,636:78:0
93	240	17:02:02.933	117LB105A106A4K	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,636:85:0
93	240	17:02:08.266	117LB105A106A4L	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,637:02:0
93	240	17:02:12.933	117LB105A106A4M	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,637:09:0
93	240	17:02:18.266	117LB105A106A4N	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,637:17:0
93	240	17:02:22.933	117LB105A106A4O	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,637:24:0
93	240	17:02:28.266	117LB105A106A4P	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,637:32:0
93	240	17:02:32.933	117LB105A106A4Q	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,637:39:0
93	240	17:02:38.266	117LB105A106A4R	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,637:47:0
93	240	17:02:42.933	117LB105A106A4S	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,637:54:0
93	240	17:02:48.266	117LB105A106A4T	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,637:62:0
93	240	17:02:52.933	117LB105A106A4U	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,637:69:0
93	240	17:02:58.266	117LB105A106A4V	7STRP	-0.0085,-0.001,0	Slew =,4.43	3R7	06	2,025,637:77:0
93	240	17:03:02.933	117LB105A106A4W	7STRP	0.009,0.0,0,0,0,	Slew =,3.51	3R7	06	2,025,637:84:0
93	240	17:03:08.266	117LB11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,638:01:0
93	240	17:03:26.933	165KA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	06	2,025,638:29:0
93	240	17:03:27.600	165KA4B	7SCAN	NORM,206.303999,	Check S/P Position	3R7	06	2,025,638:30:0
93	240	17:05:12.933	117KA	CSMOS	GS	***** GROUP START CSMOS	3R7	06	2,025,640:06:0
93	240	17:05:40.933	117KA105A106A4A	7STRP	0.005,0.0,0,0,0,	Slew =,0.04	3R7	06	2,025,640:48:0
93	240	17:07:53.600	117KA105A106A4B	7STRP	-0.005,0.0,0,0,0	Slew =12.01	3R7	06	2,025,642:65:0
93	240	17:07:58.266	117KA105A106A4C	7STRP	0.005,0.0,0,0,0,	Slew =,0.04	3R7	06	2,025,642:72:0
93	240	17:10:10.933	117KA105A106A4D	7STRP	-0.005,0.0,0,0,0	Slew =12.01	3R7	06	2,025,644:89:0
93	240	17:10:15.600	117KA105A106A4E	7STRP	0.005,0.0,0,0,0,	Slew =,0.04	3R7	06	2,025,645:05:0
93	240	17:12:28.266	117KA105A106A4F	7STRP	-0.005,0.0,0,0,0	Slew =12.01	3R7	06	2,025,647:22:0
93	240	17:12:32.933	117KA105A106A4G	7STRP	0.005,0.0,0,0,0,	Slew =,0.04	3R7	06	2,025,647:29:0
93	240	17:14:45.600	117KA105A106A4H	7STRP	-0.005,0.0,0,0,0	Slew =12.01	3R7	06	2,025,649:46:0
93	240	17:14:50.266	117KA105A106A4I	7STRP	0.005,0.0,0,0,0,	Slew =,0.04	3R7	06	2,025,649:53:0
93	240	17:17:02.933	117KA11A	CSMOS	GE	***** GROUP END CSMOS	3R7	06	2,025,651:70:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	240	17:18:33.600	165KB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R7	06	2,025,653:24:0
93	240	17:18:34.266	165KB4B	7SCAN	NORM,278.968998,	Check S/P Position	3R7	06	2,025,653:25:0
93	240	17:22:15.600	157KB156A121A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	3R7	06	2,025,656:84:0
93	240	17:22:24.000	IDUNBORCAL01+		-----START------		3R7	06	: :
93	240	17:22:24.266	175MA422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R7	06	2,025,657:06:0
93	240	17:22:24.266	117KB	CSMOS	GS	***** GROUP START CSMOS	3R7	06	2,025,657:06:0
93	240	17:22:24.266		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *4936 +/- 41;	3R7	06	2,025,657:06:0
93	240	17:22:25.533		DMS:	*READY	RDY, TRACK 4, REV, TIC *4935 +/- 41;	3R7	06	2,025,657:07:9
93	240	17:22:33.600	175KA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R7	06	2,025,657:20:0
93	240	17:22:33.600		DMS:	*RUNUP	R28, TRACK 4, REV, TIC 4935 +/- 41;	3R7	06	2,025,657:20:0
93	240	17:22:37.600	117KB105A106A4A	7STRP	0.006,0.0,0,0,0,	Slew =,0.08	3R7	06	2,025,657:26:0
93	240	17:22:37.600		DMS:	*RECORD	R28, TRACK 4, REV, TIC *4934 +/- 41;	3R7	06	2,025,657:26:0
93	240	17:22:37.600	176KA6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	3R7	06	2,025,657:26:0
93	240	17:23:16.266	157KB156A121B4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R7	06	2,025,657:84:0
93	240	17:23:56.933	117KB105A106A4B	7STRP	-0.006,0.0011,0,	Slew =11.77	4R7	06	2,025,658:54:0
93	240	17:24:03.600	117KB105A106A4C	7STRP	0.006,0.0,0,0,0,	Slew =,0.08	4R7	06	2,025,658:64:0
93	240	17:25:22.933	117KB105A106A4D	7STRP	-0.006,0.0011,0,	Slew =11.77	4R7	06	2,025,660:01:0
93	240	17:25:29.600	117KB105A106A4E	7STRP	0.006,0.0,0,0,0,	Slew =,0.08	4R7	06	2,025,660:11:0
93	240	17:26:48.933	117KB11A	CSMOS	GE	***** GROUP END CSMOS	4R7	06	2,025,661:39:0
93	240	17:27:18.933	157KB156A121C4A	37IOP	0,0	Safe, Grating Start Position =0	4R0	00	2,025,661:84:0
93	240	17:27:24.933		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *4681 +/- 41;	4R0	00	2,025,662:02:0
93	240	17:27:24.933	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R0	00	2,025,662:02:0
93	240	17:27:26.133		DMS:	*READY	RDY, TRACK 4, REV, TIC *4680 +/- 41;	4R0	00	2,025,662:03:8
93	240	17:31:30.000	IDUNBORCAL01+		-----STOP-------		4R0	00	: :
93	240	18:45:02.266	490B412A4B	7MODE	INT	AACS INERTIAL MODE	4R0	00	2,025,738:72:0
93	240	18:47:59.600	490B476A6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	4R0	00	2,025,741:65:0
93	240	18:50:00.266	490B412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	4R0	00	2,025,743:64:0
93	240	18:54:10.266	490B412A4E	7VECT	RTH	Inert vect update UTC	4R0	00	2,025,747:75:0
93	240	18:54:14.266	490B412A4F	7TURN	1,RTH	ALERT Thruster	4R0	00	2,025,747:81:0
93	240	18:58:02.266	490B412A406A4A	7STAR	1,6217,100.72899	Star catalog update	4R0	00	2,025,751:59:0
93	240	18:58:04.266	490B412A406A4B	7STAR	2,714,297.091999	Star catalog update	4R0	00	2,025,751:62:0
93	240	18:58:06.266	490B412A406A4C	7STAR	3,159,27.236,89.	Star catalog update	4R0	00	2,025,751:65:0
93	240	18:58:08.266	490B412A406A4D	7STAR	4,296,98.705999,	Star catalog update	4R0	00	2,025,751:68:0
93	240	18:58:10.266	490B412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4R0	00	2,025,751:71:0
93	240	18:58:12.266	490B412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4R0	00	2,025,751:74:0
93	240	20:16:10.933	490B412A4K	7MODE	CRU	AACS CRUISE MODE	4R0	00	2,025,828:85:0
93	240	20:18:12.933	490B412A4M	7SAFE	UNSTOW	S/P TO 153 deg cone	4R0	00	2,025,830:86:0
93	240	21:50:05.600	20X3A	40T1PR	CMD,40T1PR,20X3A	PCT Heater 1 OFF (primary relay)	4R0	00	2,025,921:74:0
93	240	21:50:10.933	20X3B	40T1PR	CMD,40T1PR,20X3B	PCT Heater 1 OFF (primary relay)	4R0	00	2,025,921:82:0
93	240	21:51:06.266	20X3C	40T2R	CMD,40T2R,20X3C,	PCT Heater 2 OFF	4R0	00	2,025,922:74:0
93	240	21:51:11.600	20X3D	40T2R	CMD,40T2R,20X3D,	PCT Heater 2 OFF	4R0	00	2,025,922:82:0
93	241	00:48:18.266	444B443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	4R0	00	2,026,098:06:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	241	00:52:18.266	444B443A4B	7MODE	SPNL	AACS ALL-SPIN LOW	4R0	00	2,026,102:02:0
93	241	01:01:18.266	444B443A4C	7CLK	17.45,0.0	Check S/P Position	4R0	00	2,026,110:84:0
93	241	03:52:15.600	192EH4A	7CONE	17.0,54.88	Check S/P Position	4R0	00	2,026,280:00:0
93	241	03:52:16.266	192EH4B	7CLK	17.0,244.07	Check S/P Position	4R0	00	2,026,280:01:0
93	241	04:00:16.933	175EH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R0	00	2,026,287:85:0
93	241	04:00:16.933		DMS:	*RUNUP	R28, TRACK 4, REV, TIC 4680 +/- 41;	4R0	00	2,026,287:85:0
93	241	04:00:20.933		DMS:	*RECORD	R28, TRACK 4, REV, TIC *4679 +/- 42;	4R0	00	2,026,288:00:0
93	241	04:00:20.933	176EH6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	4R0	00	2,026,288:00:0
93	241	04:00:24.000	IDUNPCTCAL01+		-----START------		4R0	00	: :
93	241	04:01:16.933	157EG156A121A4A	37IOP	3,0	Long Map, Grating Start Position =0	4R3	00	2,026,288:84:0
93	241	04:02:17.600	157EG156A121B4A	37IST	0,2,0,OFF,0,1,3	Gain State 1	1R3	00	2,026,289:84:0
93	241	04:03:18.266	157EG156A121C4A	37IOP	7,6	Fixed Map, Grating Start Position =6	1R7	06	2,026,290:84:0
93	241	04:04:18.933	157EG156A121D4A	37IOP	0,0	Safe, Grating Start Position =0	1R0	00	2,026,291:84:0
93	241	04:06:24.933		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *4359 +/- 42;	1R0	00	2,026,294:00:0
93	241	04:06:24.933	175EH422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R0	00	2,026,294:00:0
93	241	04:06:26.133		DMS:	*READY	RDY, TRACK 4, REV, TIC *4358 +/- 42;	1R0	00	2,026,294:01:8
93	241	04:09:26.933	192EH4C	7CONE	17.0,153.0	Check S/P Position	1R0	00	2,026,297:00:0
93	241	04:15:05.600	20Y3A	40HRP	CMD,40HRP,20Y3A,	RCT Heater ON (primary relay)	1R0	00	2,026,302:53:0
93	241	04:15:10.933	20Y3B	40HRP	CMD,40HRP,20Y3B,	RCT Heater ON (primary relay)	1R0	00	2,026,302:61:0
93	241	04:16:00.266	444A443A4A	7SAFE	UNSTOW	S/P TO 153 deg cone	1R0	00	2,026,303:44:0
93	241	04:20:00.266	444A443A4B	7MODE	CRU	AACS CRUISE MODE	1R0	00	2,026,307:40:0
93	241	04:45:04.266	20V4A	7SAFE	UNSTOW	S/P TO 153 deg cone	1R0	00	2,026,332:21:0
93	241	04:49:57.000	IDUNPCTCAL01+		-----STOP-------		1R0	00	: :
93	242	18:30:04.866	20W4A	7STAT	17.45,113.074,22	Stator inertial point	1R0	00	2,028,572:32:0
93	242	19:05:06.866	192JB4A	7CONE	17.0,130.0	Check S/P Position	1R0	00	2,028,607:00:0
93	242	19:12:07.533	175EI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	1R0	00	2,028,613:85:0
93	242	19:12:07.533		DMS:	*RUNUP	R28, TRACK 4, REV, TIC 4358 +/- 42;	1R0	00	2,028,613:85:0
93	242	19:12:11.533		DMS:	*RECORD	R28, TRACK 4, REV, TIC *4356 +/- 42;	1R0	00	2,028,614:00:0
93	242	19:12:11.533	176EI6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	1R0	00	2,028,614:00:0
93	242	19:12:15.000	IDUNRCTCAL01+		-----START------		1R0	00	: :
93	242	19:13:07.533	157EH156A121A4A	37IOP	1,0	Full Map, Grating Start Position =0	1R1	00	2,028,614:84:0
93	242	19:14:08.200	157EH156A121B4A	37IST	0,2,0,OFF,0,1,2	Gain State 3	3R1	00	2,028,615:84:0
93	242	19:15:13.533	192JB4B	7CONE	17.0,0.0	Check S/P Position	3R1	00	2,028,617:00:0
93	242	19:19:11.533	157EH156A121C4A	37IOP	5,2	Short Map, Grating Start Position =2	3R5	02	2,028,620:84:0
93	242	19:21:12.866	157EH156A121D4A	37IOP	7,6	Fixed Map, Grating Start Position =6	3R7	06	2,028,622:84:0
93	242	19:22:13.533	157EH156A121E4A	37IOP	0,0	Safe, Grating Start Position =0	3R0	00	2,028,623:84:0
93	242	19:22:18.200	175EI422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R0	00	2,028,624:00:0
93	242	19:22:18.200		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3823 +/- 42;	3R0	00	2,028,624:00:0
93	242	19:22:19.400		DMS:	*READY	RDY, TRACK 4, REV, TIC *3822 +/- 43;	3R0	00	2,028,624:01:8
93	242	19:22:22.000	IDUNRCTCAL01+		-----STOP-------		3R0	00	: :
93	242	19:24:19.533	192JB4C	7CONE	17.0,153.0	Check S/P Position	3R0	00	2,028,626:00:0
93	242	19:28:05.533	20Z3A	40HRPR	CMD,40HRPR,20Z3A	RCT Heater OFF (primary relay)	3R0	00	2,028,629:66:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
93	242	19:28:10.866	20Z3B	40HRPR	CMD,40HRPR,20Z3B	RCT Heater OFF (primary relay)	3R0	00	2,028,629:74:0
93	242	19:36:00.200		DMS:	*RUNUP	S7, TRACK 4, REV, TIC 3822 +/- 43;	3R0	00	2,028,637:50:0
93	242	19:36:00.200	20QC6A	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	00	2,028,637:50:0
93	242	19:36:01.666		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3821 +/- 43;	3R0	00	2,028,637:52:2
93	242	19:48:00.200	20QC6B	6DMSC	RDY,3	DMS Control Tape stop	3R0	00	2,028,649:38:0
93	242	19:48:00.200		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3653 +/- 43;	3R0	00	2,028,649:38:0
93	242	19:48:01.466		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3652 +/- 43;	3R0	00	2,028,649:39:9
93	242	20:00:00.200	20YU4A	37IOP	CMD,37IOP,20YU4A ,	Grating Start Position =37	3R0	00	2,028,661:26:0
93	242	20:01:00.866	20YU3A	37AR	CMD,37AR,20YU3A,	NIMS Power OFF			2,028,662:26:0
93	242	20:01:20.866	20YU3B	37H	CMD,37H,20YU3B,,	Replacement Heaters ON			2,028,662:56:0
93	242	20:06:05.533	20AH3A	40T2	CMD,40T2,20AH3A,	PCT Heater 2 ON			2,028,667:28:0
93	242	20:06:10.866	20AH3B	40T2	CMD,40T2,20AH3B,	PCT Heater 2 ON			2,028,667:36:0
93	242	20:12:05.533	20AA3A	37F2P	CMD,37F2P,20AA3A	Shield Flash Heater ON (primary relay)			2,028,673:22:0
93	242	20:12:10.866	20AA3B	37F2P	CMD,37F2P,20AA3B	Shield Flash Heater ON (primary relay)			2,028,673:30:0

PA Summary Table

This summary is a listing of the PAs (Profile Activities) used by NIMS just prior to the IDA Encounter in EJ2.

INPUT FILE: EJ2_930812.SEF

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
	ALSPINSP	192GD	02009875:00	02009878:00	93-229/15:24:59	
IDNSOPNAV_04	TARGET	165GD	02010178:89	02010187:00	93-229/20:32:20	CAL
IDNSOPNAV_04	SCITLM	176GD	02010184:00	02010184:13	93-229/20:37:25	CAL
IDNSOPNAV_04	INITRS	128GD	02010184:89	02010186:06	93-229/20:38:24	CAL
IDNNOPCAL_01	CMDRS	157JA	02010185:00	02010195:00	93-229/20:38:26	CAL
IDNSOPNAV_04	SSI	147GD	02010186:76	02010188:44	93-229/20:40:17	CAL
IDNSOPNAV_04	SMOS	118GD	02010187:06	02010187:86	93-229/20:40:31	CAL
IDNSOPNAV_04	SCIREC	175GD	02010187:90	02010188:48	93-229/20:41:27	CAL
	ALSPINSP	192GE	02015527:00	02015530:00	93-233/14:39:47	
IDNSOPNAV_05	TARGET	165GE	02015530:89	02015539:00	93-233/14:43:48	CAL
IDNSOPNAV_05	SCITLM	176GE	02015536:00	02015536:13	93-233/14:48:53	CAL
IDNSOPNAV_05	INITRS	128GE	02015536:89	02015538:05	93-233/14:49:52	CAL
IDNNECAL__01	CMDRS	157JB	02015537:00	02015547:00	93-233/14:49:53	CAL
IDNSOPNAV_05	SSI	147GE	02015538:76	02015540:44	93-233/14:51:45	CAL
IDNSOPNAV_05	SMOS	118GE	02015539:05	02015539:86	93-233/14:51:58	CAL
IDNSOPNAV_05	SCIREC	175GE	02015539:90	02015540:48	93-233/14:52:55	CAL

PA Summary Table

This summary is a listing of the PAs (Profile Activities) used by NIMS during the IDA Encounter in EJ3.

INPUT FILE: EJ3_930727.SEF

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
IDUSROTATI01	TARGET	165IA	02025300:89	02025395:45	93-240/11:22:21	IDA
IDUSROTATI01	INITRS	128IA	02025303:84	02025305:06	93-240/11:25:20	IDA
IDUSROTATI01	CSMOS	117JA	02025304:77	02025305:14	93-240/11:26:16	IDA
IDUSROTATI01	SCIREC	175JA	02025304:85	02025305:32	93-240/11:26:21	IDA
IDUSROTATI01	SCITLM	176JA	02025305:00	02025305:13	93-240/11:26:25	IDA
IDUSROTATI01	SSI	147IA	02025306:76	02025307:44	93-240/11:28:17	IDA
IDUSROTATI01	SCIREC	175IA	02025306:90	02025307:48	93-240/11:28:26	IDA
IDUSROTATI01	SCITLM	176IA	02025307:00	02025307:13	93-240/11:28:27	IDA
IDUSROTATI01	CMDRS	157KC	02025329:00	02025334:05	93-240/11:50:41	IDA
IDUSROTATI01	SSI	147IB	02025329:76	02025332:89	93-240/11:51:32	IDA
IDUSROTATI01	SCIREC	175IB	02025329:90	02025333:02	93-240/11:51:41	IDA
IDUSROTATI01	SCITLM	176IB	02025330:00	02025330:13	93-240/11:51:42	IDA
IDUSROTATI01	INITRS	128JD	02025332:84	02025334:06	93-240/11:54:39	IDA
IDUSROTATI01	CSMOS	117JB	02025333:77	02025335:58	93-240/11:55:35	IDA
IDUSROTATI01	SCITLM	176JB	02025334:00	02025334:13	93-240/11:55:45	IDA
IDUSROTATI01	SCIREC	175JB	02025334:09	02025335:72	93-240/11:55:51	IDA
IDUSROTATI01	INITRS	128JE	02025343:84	02025345:06	93-240/12:05:47	IDA
IDUSROTATI01	CSMOS	117JC	02025345:06	02025346:76	93-240/12:06:56	IDA
IDUSROTATI01	SCIREC	175JC	02025345:59	02025346:77	93-240/12:07:31	IDA
IDUSROTATI01	SSI	147IC	02025352:76	02025353:44	93-240/12:14:47	IDA
IDUSROTATI01	SCIREC	175IC	02025352:90	02025353:48	93-240/12:14:57	IDA
IDUSROTATI01	SCITLM	176IC	02025353:00	02025353:13	93-240/12:14:57	IDA
IDUSROTATI01	CSMOS	117JD	02025356:77	02025358:23	93-240/12:18:51	IDA
IDUSROTATI01	SCITLM	176JD	02025357:00	02025357:13	93-240/12:19:00	IDA
IDUSROTATI01	SCIREC	175JD	02025357:14	02025358:32	93-240/12:19:09	IDA
IDUSROTATI01	CSMOS	117JE	02025368:06	02025369:68	93-240/12:30:11	IDA
IDUSROTATI01	SCIREC	175JE	02025368:59	02025369:77	93-240/12:30:47	IDA
IDUSROTATI01	SSI	147ID	02025375:76	02025376:44	93-240/12:38:03	IDA
IDUSROTATI01	SCIREC	175ID	02025375:90	02025376:48	93-240/12:38:12	IDA
IDUSROTATI01	SCITLM	176ID	02025376:00	02025376:13	93-240/12:38:13	IDA
IDUSROTATI01	CSMOS	117JF	02025379:77	02025381:23	93-240/12:42:06	IDA
IDUSROTATI01	SCITLM	176JF	02025380:00	02025380:13	93-240/12:42:15	IDA
IDUSROTATI01	SCIREC	175JF	02025380:14	02025381:32	93-240/12:42:25	IDA
IDUSROTATI01	CSMOS	117JG	02025391:06	02025392:68	93-240/12:53:27	IDA
IDUSROTATI01	SCIREC	175JG	02025391:59	02025392:77	93-240/12:54:02	IDA
IDUSROTATI02	INITRS	128JF	02025395:84	02025397:06	93-240/12:58:21	IDA
IDUSROTATI02	TARGET	165IB	02025396:44	02025464:00	93-240/12:58:55	IDA
IDUSROTATI02	CSMOS	117JH	02025396:77	02025397:14	93-240/12:59:17	IDA
IDUSROTATI02	SCIREC	175JH	02025396:85	02025397:32	93-240/12:59:23	IDA
IDUSROTATI02	SCITLM	176JH	02025397:00	02025397:13	93-240/12:59:27	IDA
IDUSROTATI02	CMDRS	157KD	02025398:00	02025404:00	93-240/13:00:27	IDA
IDUSROTATI02	SSI	147IE	02025398:76	02025401:89	93-240/13:01:18	IDA
IDUSROTATI02	SCIREC	175IE	02025398:90	02025402:02	93-240/13:01:27	IDA
IDUSROTATI02	SCITLM	176IE	02025399:00	02025399:13	93-240/13:01:28	IDA
IDUSROTATI02	INITRS	128JG	02025401:84	02025403:06	93-240/13:04:25	IDA
IDUSROTATI02	CSMOS	117JI	02025402:77	02025404:58	93-240/13:05:21	IDA
IDUSROTATI02	SCITLM	176JI	02025403:00	02025403:13	93-240/13:05:31	IDA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
IDUSROTATI02	SCIREC	175JI	02025403:09	02025404:72	93-240/13:05:37	IDA
IDUSROTATI02	INITRS	128JH	02025412:84	02025414:06	93-240/13:15:33	IDA
IDUSROTATI02	CSMOS	117JJ	02025414:06	02025415:68	93-240/13:16:42	IDA
IDUSROTATI02	SCIREC	175JJ	02025414:59	02025415:77	93-240/13:17:17	IDA
IDUSROTATI02	SSI	147IF	02025421:76	02025422:44	93-240/13:24:33	IDA
IDUSROTATI02	SCIREC	175IF	02025421:90	02025422:48	93-240/13:24:43	IDA
IDUSROTATI02	SCITLM	176IF	02025422:00	02025422:13	93-240/13:24:43	IDA
IDUSROTATI02	CSMOS	117JK	02025425:77	02025427:23	93-240/13:28:37	IDA
IDUSROTATI02	SCITLM	176JK	02025426:00	02025426:13	93-240/13:28:46	IDA
IDUSROTATI02	SCIREC	175JK	02025426:14	02025427:32	93-240/13:28:55	IDA
IDUSROTATI02	CSMOS	117JL	02025437:06	02025438:68	93-240/13:39:57	IDA
IDUSROTATI02	SCIREC	175JL	02025437:59	02025438:77	93-240/13:40:33	IDA
IDUSROTATI02	SSI	147IG	02025444:76	02025445:44	93-240/13:47:48	IDA
IDUSROTATI02	SCIREC	175IG	02025444:90	02025445:48	93-240/13:47:58	IDA
IDUSROTATI02	SCITLM	176IG	02025445:00	02025445:13	93-240/13:47:58	IDA
IDUSROTATI02	CSMOS	117JM	02025448:77	02025450:23	93-240/13:51:52	IDA
IDUSROTATI02	SCITLM	176JM	02025449:00	02025449:13	93-240/13:52:01	IDA
IDUSROTATI02	SCIREC	175JM	02025449:14	02025450:32	93-240/13:52:10	IDA
IDUSROTATI02	CSMOS	117JN	02025460:06	02025461:68	93-240/14:03:12	IDA
IDUSROTATI02	SCIREC	175JN	02025460:59	02025461:77	93-240/14:03:48	IDA
IDUNROTATI03	INITRS	128JI	02025463:84	02025465:06	93-240/14:07:06	IDA
IDUNROTATI03	TARGET	165JA	02025464:44	02025534:00	93-240/14:07:40	IDA
IDUNROTATI03	CSMOS	117JO	02025464:77	02025465:14	93-240/14:08:02	IDA
IDUNROTATI03	SCIREC	175JO	02025464:85	02025465:32	93-240/14:08:08	IDA
IDUNROTATI03	SCITLM	176JO	02025465:00	02025465:13	93-240/14:08:12	IDA
IDUNROTATI03	CMDRS	157KE	02025467:00	02025472:00	93-240/14:10:13	IDA
IDUNROTATI03	SSI	147IH	02025467:76	02025470:89	93-240/14:11:04	IDA
IDUSROTATI03	SCIREC	175IH	02025467:90	02025471:02	93-240/14:11:13	IDA
IDUSROTATI03	SCITLM	176IH	02025468:00	02025468:13	93-240/14:11:14	IDA
IDUNROTATI03	INITRS	128JJ	02025470:84	02025472:06	93-240/14:14:11	IDA
IDUNROTATI03	CSMOS	117JP	02025471:77	02025473:78	93-240/14:15:07	IDA
IDUNROTATI03	SCITLM	176JP	02025472:00	02025472:13	93-240/14:15:16	IDA
IDUNROTATI03	SCIREC	175JP	02025472:09	02025474:06	93-240/14:15:22	IDA
IDUNROTATI03	INITRS	128JK	02025481:84	02025483:06	93-240/14:25:18	IDA
IDUNROTATI03	CSMOS	117JQ	02025483:06	02025484:88	93-240/14:26:28	IDA
IDUNROTATI03	SCIREC	175JQ	02025483:59	02025485:06	93-240/14:27:03	IDA
IDUNROTATI03	SSI	147II	02025490:76	02025493:44	93-240/14:34:19	IDA
IDUSROTATI03	SCIREC	175II	02025490:90	02025493:48	93-240/14:34:28	IDA
IDUSROTATI03	SCITLM	176II	02025491:00	02025491:13	93-240/14:34:29	IDA
IDUNROTATI03	CSMOS	117JR	02025494:77	02025496:23	93-240/14:38:22	IDA
IDUNROTATI03	SCITLM	176JR	02025495:00	02025495:13	93-240/14:38:32	IDA
IDUNROTATI03	SCIREC	175JR	02025495:14	02025496:32	93-240/14:38:41	IDA
IDUNROTATI03	CSMOS	117JS	02025506:06	02025507:68	93-240/14:49:43	IDA
IDUNROTATI03	SCIREC	175JS	02025506:59	02025507:77	93-240/14:50:18	IDA
IDUNROTATI03	SSI	147IJ	02025513:76	02025516:44	93-240/14:57:34	IDA
IDUSROTATI03	SCIREC	175IJ	02025513:90	02025516:48	93-240/14:57:44	IDA
IDUSROTATI03	SCITLM	176IJ	02025514:00	02025514:13	93-240/14:57:44	IDA
IDUNROTATI03	CSMOS	117JT	02025517:77	02025519:23	93-240/15:01:38	IDA
IDUNROTATI03	SCITLM	176JT	02025518:00	02025518:13	93-240/15:01:47	IDA
IDUNROTATI03	SCIREC	175JT	02025518:14	02025519:32	93-240/15:01:56	IDA
IDUNROTATI03	CSMOS	117JU	02025529:06	02025530:68	93-240/15:12:58	IDA
IDUNROTATI03	SCIREC	175JU	02025529:59	02025530:77	93-240/15:13:34	IDA
IDUNROTATI04	INITRS	128JL	02025533:84	02025535:06	93-240/15:17:53	IDA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
IDUNROTATI04	TARGET	165JB	02025534:44	02025600:51	93-240/15:18:27	IDA
IDUNROTATI04	CSMOS	117JV	02025534:77	02025535:18	93-240/15:18:49	IDA
IDUNROTATI04	SCIREC	175JV	02025534:85	02025535:32	93-240/15:18:54	IDA
IDUNROTATI04	SCITLM	176JV	02025535:00	02025535:13	93-240/15:18:58	IDA
IDUNROTATI04	SSI	147IK	02025536:76	02025539:89	93-240/15:20:50	IDA
IDUSROTATI04	SCIREC	175IK	02025536:90	02025540:02	93-240/15:20:59	IDA
IDUSROTATI04	SCITLM	176IK	02025537:00	02025537:13	93-240/15:21:00	IDA
IDUNROTATI04	INITRS	128JM	02025539:84	02025541:06	93-240/15:23:57	IDA
IDUNROTATI04	CSMOS	117JW	02025540:77	02025543:18	93-240/15:24:53	IDA
IDUNROTATI04	SCITLM	176JX	02025541:00	02025541:13	93-240/15:25:02	IDA
IDUNROTATI04	SCIREC	175JX	02025541:09	02025543:32	93-240/15:25:08	IDA
IDUNROTATI04	SSI	147IL	02025547:76	02025550:89	93-240/15:31:57	IDA
IDUSROTATI04	SCIREC	175IL	02025547:90	02025551:02	93-240/15:32:06	IDA
IDUSROTATI04	SCITLM	176IL	02025548:00	02025548:13	93-240/15:32:07	IDA
IDUNROTATI04	INITRS	128JN	02025550:84	02025552:06	93-240/15:35:04	IDA
IDUNROTATI04	CMDRS	157JK	02025551:00	02025567:00	93-240/15:35:09	IDA
IDUNROTATI04	SCITLM	176JY	02025552:00	02025552:13	93-240/15:36:10	IDA
IDUNROTATI04	CSMOS	117JX	02025552:06	02025554:07	93-240/15:36:14	IDA
IDUNROTATI04	SCIREC	175JY	02025552:59	02025554:16	93-240/15:36:49	IDA
IDUNROTATI04	SSI	147IM	02025559:76	02025562:89	93-240/15:44:05	IDA
IDUSROTATI04	SCIREC	175IM	02025559:90	02025563:02	93-240/15:44:14	IDA
IDUSROTATI04	SCITLM	176IM	02025560:00	02025560:13	93-240/15:44:15	IDA
IDUNROTATI04	CSMOS	117JY	02025563:77	02025565:33	93-240/15:48:08	IDA
IDUNROTATI04	SCITLM	176JZ	02025564:00	02025564:13	93-240/15:48:18	IDA
IDUNROTATI04	SCIREC	175JZ	02025564:14	02025565:42	93-240/15:48:27	IDA
IDUNROTATI04	SSI	147IN	02025570:76	02025573:89	93-240/15:55:12	IDA
IDUSROTATI04	SCIREC	175IN	02025570:90	02025574:02	93-240/15:55:22	IDA
IDUSROTATI04	SCITLM	176IN	02025571:00	02025571:13	93-240/15:55:22	IDA
IDUNROTATI04	CMDRS	157LC	02025574:00	02025592:00	93-240/15:58:24	IDA
IDUNROTATI04	SCITLM	176EA	02025575:00	02025575:13	93-240/15:59:25	IDA
IDUNROTATI04	CSMOS	117JZ	02025575:06	02025576:78	93-240/15:59:29	IDA
IDUNROTATI04	SCIREC	175EA	02025575:59	02025576:87	93-240/16:00:04	IDA
IDUNROTATI04	SSI	147IO	02025582:76	02025585:89	93-240/16:07:20	IDA
IDUSROTATI04	SCIREC	175IO	02025582:90	02025586:02	93-240/16:07:30	IDA
IDUSROTATI04	SCITLM	176IO	02025583:00	02025583:13	93-240/16:07:30	IDA
IDUNROTATI04	CSMOS	117EA	02025586:77	02025588:43	93-240/16:11:24	IDA
IDUNROTATI04	SCITLM	176EB	02025587:00	02025587:13	93-240/16:11:33	IDA
IDUNROTATI04	SCIREC	175EB	02025587:14	02025588:52	93-240/16:11:42	IDA
IDUNROTATI04	SSI	147IP	02025593:76	02025596:89	93-240/16:18:28	IDA
IDUSROTATI04	SCIREC	175IP	02025593:90	02025597:02	93-240/16:18:37	IDA
IDUSROTATI04	SCITLM	176IP	02025594:00	02025594:13	93-240/16:18:38	IDA
IDUNROTATI04	SCITLM	176EC	02025598:00	02025598:13	93-240/16:22:40	IDA
IDUNROTATI04	CSMOS	117EB	02025598:06	02025599:79	93-240/16:22:44	IDA
IDUNROTATI04	SCIREC	175EC	02025598:59	02025600:01	93-240/16:23:20	IDA
IDUNIDAGLM01	INITRS	128JA	02025598:84	02025600:06	93-240/16:23:36	IDA
IDUNIDAGLM01	CMDRS	157KF	02025600:00	02025606:00	93-240/16:24:42	IDA
IDUNIDAGLM01	TARGET	165JC	02025600:51	02025612:65	93-240/16:25:16	IDA
IDUNIDAGLM01	CSMOS	117EC	02025600:82	02025604:71	93-240/16:25:36	IDA
IDUNIDAGLM01	SCIREC	175ED	02025600:90	02025604:82	93-240/16:25:42	IDA
IDUNIDAGLM01	SCITLM	176ED	02025601:00	02025601:13	93-240/16:25:42	IDA
IDUSFINROT01	SSI	147IQ	02025604:76	02025607:89	93-240/16:29:35	IDA
IDUSFINROT01	SCIREC	175IQ	02025604:90	02025608:02	93-240/16:29:44	IDA
IDUSFINROT01	SCITLM	176IQ	02025605:00	02025605:13	93-240/16:29:45	IDA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
IDUNIDAFIN01	CMDRS	157KG	02025607:00	02025614:00	93-240/16:31:46	IDA
IDUNIDAFIN01	CSMOS	117ED	02025607:06	02025612:65	93-240/16:31:50	IDA
IDUNIDAFIN01	SCITLM	176EF	02025608:00	02025608:13	93-240/16:32:47	IDA
IDUNIDAFIN01	SCIREC	175EF	02025608:02	02025612:70	93-240/16:32:48	IDA
IDUS6COLOR01	INITRS	128IB	02025610:90	02025612:06	93-240/16:35:48	IDA
IDUS6COLOR01	TARGET	165IC	02025612:06	02025615:81	93-240/16:36:54	IDA
IDUS6COLOR01	CSMOS	117IA	02025612:06	02025615:81	93-240/16:36:54	IDA
IDUS6COLOR01	SSI	147IR	02025612:06	02025615:89	93-240/16:36:54	IDA
IDUS6COLOR01	SCIREC	175IR	02025612:75	02025616:04	93-240/16:37:40	IDA
IDUS6COLOR01	SCITLM	176IR	02025612:78	02025613:00	93-240/16:37:42	IDA
IDUNIDACHM01	CMDRS	157KH	02025615:00	02025622:00	93-240/16:39:52	IDA
IDUNIDACHM01	TARGET	165JE	02025615:81	02025621:27	93-240/16:40:46	IDA
IDUNIDACHM01	INITRS	128JC	02025615:84	02025616:06	93-240/16:40:48	IDA
IDUNIDACHM01	CSMOS	117EE	02025615:86	02025621:26	93-240/16:40:49	IDA
IDUNIDACHM01	SCITLM	176EG	02025616:00	02025616:13	93-240/16:40:52	IDA
IDUNIDACHM01	SCIREC	175EG	02025616:05	02025621:43	93-240/16:40:56	IDA
IDUNIDACHM01	SSI	147IS	02025616:76	02025620:89	93-240/16:41:43	IDA
IDUSHIRES_01	INITRS	128IC	02025619:84	02025621:06	93-240/16:44:50	IDA
IDUSHIRES_01	TARGET	165ID	02025621:06	02025625:68	93-240/16:46:00	IDA
IDUSHIRES_01	CSMOS	117IB	02025621:06	02025625:68	93-240/16:46:00	IDA
IDUSHIRES_01	SSI	147IT	02025621:06	02025628:11	93-240/16:46:00	IDA
IDUSHIRES_01	SCIREC	175IS	02025621:49	02025625:82	93-240/16:46:28	IDA
IDUSHIRES_01	SCITLM	176IS	02025621:52	02025621:65	93-240/16:46:30	IDA
IDUSENCNTR01	TARGET	165IE	02025625:68	02025628:13	93-240/16:50:44	IDA
IDUSENCNTR01	CSMOS	117IC	02025625:77	02025628:11	93-240/16:50:50	IDA
IDUSENCNTR01	SCIREC	175IT	02025625:88	02025628:17	93-240/16:50:57	IDA
IDUPRADOBS01	CMDRS	157LA	02025628:00	02025630:00	93-240/16:53:00	IDA
IDUMSWWING02	SCITLM	176MA	02025628:13	02025628:26	93-240/16:53:09	IDA
IDUPRADOBS01	TARGET	165LA	02025628:13	02025635:60	93-240/16:53:09	IDA
IDUMSWWING02	SCIREC	175MA	02025628:18	02025657:08	93-240/16:53:12	IDA
IDUPRADOBS01	CSMOS	117LA	02025628:40	02025635:41	93-240/16:53:27	IDA
IDUPPOLOBS01	CMDRS	157LB	02025635:00	02025638:18	93-240/17:00:05	IDA
IDUPPOLOBS01	TARGET	165LB	02025635:60	02025638:28	93-240/17:00:45	IDA
IDUPPOLOBS01	CSMOS	117LB	02025635:87	02025638:01	93-240/17:01:03	IDA
IDHUSTRCAL01	TARGET	165KA	02025638:29	02025640:48	93-240/17:03:26	SKY
IDHUSTRCAL01	CMDRS	157KA	02025639:00	02025671:00	93-240/17:04:08	SKY
IDHUSTRCAL01	CSMOS	117KA	02025640:06	02025651:70	93-240/17:05:12	SKY
IDHUBORSIT01	TARGET	165KB	02025653:24	02025657:26	93-240/17:18:33	SKY
IDHUBORSIT01	CMDRS	157KB	02025656:00	02025665:00	93-240/17:21:19	SKY
IDHUBORSIT01	CSMOS	117KB	02025657:06	02025661:39	93-240/17:22:24	SKY
IDHUBORSIT01	SCIREC	175KA	02025657:20	02025662:03	93-240/17:22:33	SKY
IDHUBORSIT01	SCITLM	176KA	02025657:26	02025657:39	93-240/17:22:37	SKY
	ALSPINSP	192EH	02026275:00	02026305:00	93-241/03:47:12	
IDUNPCTCAL01	SCIREC	175EH	02026287:85	02026294:02	93-241/04:00:16	IDA
IDUNPCTCAL01	CMDRS	157EG	02026288:00	02026309:00	93-241/04:00:20	IDA
IDUNPCTCAL01	SCITLM	176EH	02026288:00	02026288:13	93-241/04:00:20	IDA
	ALSPINSP	192JB	02028599:00	02028629:00	93-242/18:57:01	
IDUNRCTCAL01	SCIREC	175EI	02028613:85	02028624:02	93-242/19:12:07	IDA
IDUNRCTCAL01	CMDRS	157EH	02028614:00	02028625:00	93-242/19:12:11	IDA
IDUNRCTCAL01	SCITLM	176EI	02028614:00	02028614:13	93-242/19:12:11	IDA

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                    NIMS Obstab (Planned)

 Heading              Columns     Comments
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  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
                                     IDA         - U - Ida
                                     CALIBRATION - N - Non-Science
  (the single letter abbreviation appears as the third character in the OBSNAME (OAPEL Name) ).
 INPUT SEF FILE: EJ3_930727.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
-----------------------------------------------------------------------------------------------------------------------------
IDNNOPCAL_01 A JA 02010188:05 02010188:46  3  4  1  4  1  1  0  0  1 24  1  1  0  0  1 24  1 0 1993-229T20:41:31  0 1  CAL
IDNNECAL__01 A JB 02015540:05 02015540:46  1  2  1  4  1  1  0  0  2 12  1  1  0  0  2 12  0 1 1993-233T14:52:59  0 1  CAL

IDUSROTATI01 A IA 02025305:00 02025305:30  7  4  1  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1993-240/11:26:25  0 1  IDA
IDUSROTATI01 B IA 02025307:05 02025307:46  7  4  1  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1993-240/11:28:30  0 1  IDA
IDUSROTATI01 C IA 02025330:05 02025332:90  7  4  1  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1993-240/11:51:45  0 1  IDA
IDUSROTATI01 D IA 02025334:15 02025335:70  1  4  1  4  1  1  0  0  2 12  1  1  0  0  2 12  0 0 1993-240/11:55:55  0 1  IDA
IDUSROTATI01 E IA 02025345:65 02025346:75  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:07:35  0 1  IDA
IDUSROTATI01 F IA 02025353:05 02025353:46  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:15:01  0 1  IDA
IDUSROTATI01 G IA 02025357:20 02025358:30  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:19:13  0 1  IDA
IDUSROTATI01 H IA 02025368:65 02025369:75  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:30:51  0 1  IDA
IDUSROTATI01 I IA 02025376:05 02025376:46  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:38:16  0 1  IDA
IDUSROTATI01 J IA 02025380:20 02025381:30  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:42:29  0 1  IDA
IDUSROTATI01 K IA 02025391:65 02025392:75  5  4  1  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1993-240/12:54:06  0 1  IDA
-----------------------------------------------------------------------------------------------------------------------------
```

OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A						PTAB B						E	O	UTC1	R	T	TARGET
IDUSROTATI02	A	JF	02025397:00	02025397:30	7	4	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/12:59:27	0	1	IDA
IDUSROTATI02	B	JF	02025399:05	02025401:90	7	4	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/13:01:31	0	1	IDA
IDUSROTATI02	C	JF	02025403:15	02025404:70	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:05:41	0	1	IDA
IDUSROTATI02	D	JF	02025414:65	02025415:75	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:17:21	0	1	IDA
IDUSROTATI02	E	JF	02025422:05	02025422:46	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:24:47	0	1	IDA
IDUSROTATI02	F	JF	02025426:20	02025427:30	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:28:59	0	1	IDA
IDUSROTATI02	G	JF	02025437:65	02025438:75	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:40:37	0	1	IDA
IDUSROTATI02	H	JF	02025445:05	02025445:46	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:48:02	0	1	IDA
IDUSROTATI02	I	JF	02025449:20	02025450:30	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/13:52:14	0	1	IDA
IDUSROTATI02	J	JF	02025460:65	02025461:75	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/14:03:52	0	1	IDA
IDUNROTATI03	A	JI	02025465:00	02025465:30	7	4	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/14:08:12	0	1	IDA
IDUNROTATI03	B	JI	02025468:05	02025470:90	7	4	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/14:11:17	0	1	IDA
IDUNROTATI03	C	JI	02025472:15	02025474:04	1	4	1	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1993-240/14:15:26	0	1	IDA
IDUNROTATI03	D	JI	02025483:65	02025485:04	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/14:27:07	0	1	IDA
IDUNROTATI03	E	JI	02025491:05	02025493:46	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/14:34:32	0	1	IDA
IDUNROTATI03	F	JI	02025495:20	02025496:30	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/14:38:45	0	1	IDA
IDUNROTATI03	G	JI	02025506:65	02025507:75	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/14:50:22	0	1	IDA
IDUNROTATI03	H	JI	02025514:05	02025516:46	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/14:57:48	0	1	IDA
IDUNROTATI03	I	JI	02025518:20	02025519:30	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/15:02:00	0	1	IDA
IDUNROTATI03	J	JI	02025529:65	02025530:75	5	4	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/15:13:38	0	1	IDA
IDUNROTATI04	A	JL	02025535:00	02025535:30	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/15:18:58	0	1	IDA
IDUNROTATI04	B	JL	02025537:05	02025539:90	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/15:21:03	0	1	IDA
IDUNROTATI04	C	JL	02025541:15	02025543:30	1	3	1	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1993-240/15:25:12	0	1	IDA
IDUNROTATI04	D	JL	02025548:05	02025550:90	1	3	1	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1993-240/15:32:10	0	1	IDA
IDUNROTATI04	E	JL	02025552:65	02025554:14	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/15:36:53	0	1	IDA
IDUNROTATI04	F	JL	02025560:05	02025563:00	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/15:44:18	0	1	IDA
IDUNROTATI04	G	JL	02025564:20	02025565:40	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/15:48:31	0	1	IDA
IDUNROTATI04	H	JL	02025571:05	02025574:00	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/15:55:26	0	1	IDA
IDUNROTATI04	I	JL	02025575:65	02025576:85	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/16:00:08	0	1	IDA
IDUNROTATI04	J	JL	02025583:05	02025586:00	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/16:07:34	0	1	IDA
IDUNROTATI04	K	JL	02025587:20	02025588:50	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/16:11:46	0	1	IDA
IDUNROTATI04	L	JL	02025594:05	02025597:00	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/16:18:41	0	1	IDA
IDUNROTATI04	M	JL	02025598:65	02025599:90	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/16:23:24	0	1	IDA

OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A						PTAB B						E	O	UTC1	R	T	TARGET
IDUNIDAGLM01	A	JA	02025601:05	02025604:80	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1993-240/16:25:46	0	1	IDA
IDUSFINROT01	A	IQ	02025605:05	02025608:00	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1993-240/16:29:48	0	1	IDA
IDUNIDAFIN01	A	KG	02025608:08	02025612:68	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1993-240/16:32:52	0	1	IDA
IDUS6COLOR01	A	IB	02025612:80	02025615:90	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1993-240/16:37:44	0	1	IDA
IDUNIDACHM01	A	KH	02025616:11	02025620:90	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-240/16:41:00	0	1	IDA
IDUSHIRES_01	A	IC	02025621:00	02025621:41	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/16:45:51	0	1	IDA
IDUSHIRES_01	B	IC	02025621:54	02025625:78	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/16:46:32	0	1	IDA
IDUSENCNTR01	A	IE	02025626:02	02025628:13	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/16:51:01	0	1	IDA
IDHUBORSIT01	A	KB	02025657:26	02025657:90	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/17:22:37	0	1	SKY
IDHUBORSIT01	B	KB	02025658:00	02025661:90	7	4	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-240/17:23:16	0	1	SKY
IDHUBORSIT01	C	KB	02025662:00	02025662:02	0	4	1	4	1	0	0	0	0	12	1	0	0	0	0	12	0	0	1993-240/17:27:18	0	1	SKY
IDUNPCTCAL01	A	EH	02026288:00	02026288:90	0	4	1	4	1	0	0	0	0	12	1	0	0	0	0	12	0	0	1993-241/04:00:20	0	1	CAL
IDUNPCTCAL01	B	EH	02026289:00	02026289:90	3	4	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1993-241/04:01:16	0	1	CAL
IDUNPCTCAL01	C	EH	02026290:00	02026290:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1993-241/04:02:17	0	1	CAL
IDUNPCTCAL01	D	EH	02026291:00	02026291:90	7	1	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-241/04:03:18	0	1	CAL
IDUNPCTCAL01	E	EH	02026292:00	02026294:00	0	1	1	4	1	0	0	0	0	12	1	0	0	0	0	12	0	0	1993-241/04:04:18	0	1	CAL
IDUNRCTCAL01	A	EI	02028614:00	02028614:90	0	1	1	4	1	0	0	0	0	12	1	0	0	0	0	12	0	0	1993-242/19:12:11	0	1	CAL
IDUNRCTCAL01	B	EI	02028615:00	02028615:90	1	1	1	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1993-242/19:13:07	0	1	CAL
IDUNRCTCAL01	C	EI	02028616:00	02028620:90	1	3	1	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1993-242/19:14:08	0	1	CAL
IDUNRCTCAL01	D	EI	02028621:00	02028622:90	5	3	1	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1993-242/19:19:11	0	1	CAL
IDUNRCTCAL01	E	EI	02028623:00	02028623:90	7	3	1	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1993-242/19:21:12	0	1	CAL