Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

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

The NIMS Sequence Summary is a time-ordered listing of all spacecraft activity pertinent to NIMS operations for the EE3 Sequence. The information in this summary is derived from the EE3 SEF (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 EE3 SEF which affect NIMS observations.

The NIMS Observation Table (OBSTAB) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing. It is also derived from the EE3 SEF.

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          Sequence: EE3PEF   Created: 10/08/91   Begin: 91-301/16:30:00.000    Finish: 91-308/22:10:00.000

YR DOY    Time             PSID         Command     Parameters                    Description                  GCM  O S    RIM      MF I
-- --- ------------ ------------------ -------- ---------------- ------------------------------------------ --- ---- ---------- -- -
91 301 16:30:00.133                     DMS:      READY          RDY,  TRACK  3,  FWD, TIC   216 +/-   0;             1,071,406:72:0
91 301 16:31:58.800 481A4A             7VECT                      Inert vect update UTC                               1,071,408:68:0
91 301 19:42:54.133 490A476A6A         6TMCHG   EHRLRS                                                                1,071,597:52:0
91 301 19:42:56.133 20Q6A              6TMCHG   ELSNCG          10 BPS TDM-NO NIMS R/T / NO CHANGE                    1,071,597:55:0
91 301 19:43:00.800 490A412A4C         7MODE    INT             AACS INERTIAL MODE                                    1,071,597:62:0
91 301 19:45:00.800 490A412A4E         7SAFE    UNSTOW          S/P TO 153 deg cone                                   1,071,599:60:0
91 301 19:49:10.800 490A412A4F         7VECT                      Inert vect update UTC                               1,071,603:71:0
91 301 19:49:14.800 490A412A4G         7TURN    2,MVR             ALERT Thruster                                      1,071,603:77:0
91 301 19:53:02.800 490A412A406A4A     7STAR    7,3000,95.710999  Star catalog update                                 1,071,607:55:0
91 301 19:53:04.800 490A412A406A4B     7STAR    8,131,322.005997  Star catalog update                                 1,071,607:58:0
91 301 19:53:06.800 490A412A406A4C     7STAR    9,396,206.390999  Star catalog update                                 1,071,607:61:0
91 301 19:53:08.800 490A412A406A4D     7STAR    10,0,0.0,0.0      Star catalog update                                 1,071,607:64:0
91 301 19:53:10.800 490A412A406A4E     7STAR    11,0,0.0,0.0      Star catalog update                                 1,071,607:67:0
91 301 19:53:12.800 490A412A406A4F     7STAR    12,0,0.0,0.0      Star catalog update                                 1,071,607:70:0
91 301 21:04:00.800 481B4A             7VECT    RTH               Inert vect update UTC                               1,071,677:72:0
91 301 21:04:02.800 481B4B             7STAR    1,3000,95.710999  Star catalog update                                 1,071,677:75:0
91 301 21:04:04.800 481B4C             7STAR    2,131,322.005997  Star catalog update                                 1,071,677:78:0
91 301 21:04:06.800 481B4D             7STAR    3,396,206.390999  Star catalog update                                 1,071,677:81:0
91 301 21:04:08.800 481B4E             7STAR    4,0,0.0,0.0       Star catalog update                                 1,071,677:84:0
91 301 21:04:10.800 481B4F             7STAR    5,0,0.0,0.0       Star catalog update                                 1,071,677:87:0
91 301 21:04:12.800 481B4G             7STAR    6,0,0.0,0.0       Star catalog update                                 1,071,677:90:0
91 302 02:30:05.400 20A3A              40T1PR   CMD,40T1PR,20A3A PCT Heater 1 OFF (primary relay)                     1,072,000:26:0
91 302 02:30:10.733 20A3B              40T1PR   CMD,40T1PR,20A3B PCT Heater 1 OFF (primary relay)                     1,072,000:34:0
91 302 02:33:05.400 20A3C              40T2R    CMD,40T2R,20A3C, PCT Heater 2 OFF                                     1,072,003:23:0
91 302 02:33:10.733 20A3D              40T2R    CMD,40T2R,20A3D, PCT Heater 2 OFF                                     1,072,003:31:0
91 302 02:37:04.733                     DMS:     *REWIND         S806, TRACK *4, *REV, TIC   216 +/-   0;             1,072,007:18:0
91 302 02:37:04.733 20L6A              6DMSR    CMD,6DMSR,20L6A,  Tape recorder rewind                                1,072,007:18:0
91 302 02:37:13.133                     DMS:     *READY          RDY,  TRACK *1, *FWD, TIC * 201 +/-   0;             1,072,007:30:6
91 302 06:35:28.733 165KA4A            7TMOT    DIS,TMC           Disable IVP - Target Motion                         1,072,242:89:0
91 302 06:35:29.400 165KA4B            7SCAN    NORM,200.460999,  Check S/P Position                                  1,072,242:90:0
91 302 06:35:30.066 176KB6A            6TMCHG   ELSLRS          10 BPS TDM / LRS Rec 7.68kb/s                         1,072,243:00:0
91 302 06:39:23.400 117KA              CSMOS    GS              ***** GROUP START CSMOS                               1,072,246:77:0
91 302 06:39:31.400 175KB422A6A        6DMSC    R7,0              DMS Control  Tape runup 7.68kps                     1,072,246:89:0
91 302 06:39:31.400                     DMS:     *RUNUP          R7,    TRACK  1,  FWD, TIC   201 +/-   0;            1,072,246:89:0
91 302 06:39:32.733 117KA105A106A4A    7STRP    0.0059,0.0,0,0,0  Slew =,0.04                                         1,072,247:00:0
91 302 06:39:32.866                     DMS:     *RECORD         R7,    TRACK  1,  FWD, TIC * 202 +/-   0;            1,072,247:00:2
91 302 06:42:08.733 117KA105A106A4B    7STRP    -0.0059,0.0014,0  Slew =16.97                                         1,072,249:52:0
91 302 06:42:22.733 117KA105A106A4C    7STRP    0.0059,0.0,0,0,0  Slew =,0.04                                         1,072,249:73:0
91 302 06:44:54.066 175KB422A6B        6DMSC    RDY,0             DMS Control  Tape stop                              1,072,252:27:0
91 302 06:44:54.066                     DMS:     *RUNDOWN        RDY,  TRACK  1,  FWD, TIC * 277 +/-   0;             1,072,252:27:0
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YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	06:44:55.333		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 278 +/- 0;			1,072,252:28:9
91	302	06:44:58.733	117KA11A	CSMOS	GE	***** GROUP END CSMOS			1,072,252:34:0
91	302	06:49:38.733	20KB4A	7SAFE	UNSTOW	S/P TO 153 deg cone			1,072,256:90:0
91	302	14:29:41.400	165IG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion			1,072,711:89:0
91	302	14:29:42.066	165IG4B	7SCAN	NORM,247.091999,	Check S/P Position			1,072,711:90:0
91	302	14:32:40.066	128IE149A131A4A	37IST	1,0,0,OFF,0,1,1	Chopper ON, Sync, 63Hz (Ref)Gain State 4	46		1,072,714:84:0
91	302	14:33:40.733		DMS:	*RUNUP	R806, TRACK 1, FWD, TIC 278 +/- 0;	46		1,072,715:84:0
91	302	14:33:40.733	175IQ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	46		1,072,715:84:0
91	302	14:33:40.733	128IE149A131B4A	37IOP	1,0	Full Map, Grating Start Position =0	461	00	1,072,715:84:0
91	302	14:33:45.400	176IQ6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	461	00	1,072,716:00:0
91	302	14:33:45.933		DMS:	*RECORD	R806, TRACK 1, FWD, TIC * 343 +/- 3;	461	00	1,072,716:00:8
91	302	14:33:54.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 559 +/- 3;	461	00	1,072,716:14:0
91	302	14:33:54.733	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	461	00	1,072,716:14:0
91	302	14:33:57.400		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 570 +/- 4;	461	00	1,072,716:18:0
91	302	14:37:24.733	GAPNGASPEC01		-----START------		461	00	: :
91	302	14:37:24.733	165JA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	461	00	1,072,719:56:0
91	302	14:37:25.400	165JA4B	7SCAN	NORM,246.922998,	Check S/P Position	461	00	1,072,719:57:0
91	302	14:37:42.733	117JA	CSMOS	GS	***** GROUP START CSMOS	461	00	1,072,719:83:0
91	302	14:37:44.066	175JK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	461	00	1,072,719:85:0
91	302	14:37:44.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 570 +/- 4;	461	00	1,072,719:85:0
91	302	14:37:48.066	176JK6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	461	00	1,072,720:00:0
91	302	14:37:48.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC * 572 +/- 4;	461	00	1,072,720:00:0
91	302	14:37:52.066	117JA105A106A4A	7STRP	0.0055,0.0,0,0,0	Slew =,0.03	461	00	1,072,720:06:0
91	302	14:41:05.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 745 +/- 4;	461	00	1,072,723:23:0
91	302	14:41:05.400	GAPNGASPEC01		-----STOP-------		461	00	: :
91	302	14:41:05.400	175JK422A6B	6DMSC	RDY,0	DMS Control Tape stop	461	00	1,072,723:23:0
91	302	14:41:05.400	117JA11A	CSMOS	GE	***** GROUP END CSMOS	461	00	1,072,723:23:0
91	302	14:41:06.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 746 +/- 4;	461	00	1,072,723:24:8
91	302	14:49:58.733	165JB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	461	00	1,072,732:04:0
91	302	14:49:58.733	GAPNGASPER01		-----START------		461	00	: :
91	302	14:49:59.400	165JB4B	7SCAN	NORM,246.894999,	Check S/P Position	461	00	1,072,732:05:0
91	302	14:51:52.066	117JB	CSMOS	GS	***** GROUP START CSMOS	461	00	1,072,733:83:0
91	302	14:51:52.733	128JB149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,733:84:0
91	302	14:51:57.400	176JW6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,734:00:0
91	302	14:51:57.400	175JW422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,734:00:0
91	302	14:51:57.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 746 +/- 4;	467	06	1,072,734:00:0
91	302	14:52:01.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC * 748 +/- 5;	467	06	1,072,734:06:0
91	302	14:52:01.400	117JB105A106A4A	7STRP	0.006,0.0,0,0,0,	Slew =,0.76	467	06	1,072,734:06:0
91	302	14:52:12.066	117JB11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,734:22:0
91	302	14:52:12.066	175JW422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,734:22:0
91	302	14:52:12.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 757 +/- 5;	467	06	1,072,734:22:0
91	302	14:52:13.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 758 +/- 5;	467	06	1,072,734:23:8

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
91	302	14:52:54.733	GAPNGASPER01		-----STOP-------		467	06			
91	302	15:07:06.066	GAPNGASCUR01		-----START------		467	06			
91	302	15:07:06.066	165EA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,748	89	0
91	302	15:07:06.733	165EA4B	7SCAN	NORM,247.058998,	Check S/P Position	467	06	1,072,748	90	0
91	302	15:08:59.400	117EA	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,750	77	0
91	302	15:09:04.066	128EA149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,072,750	84	0
91	302	15:09:08.066		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 758 +/- 5;	465	02	1,072,750	90	0
91	302	15:09:08.066	175IP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,072,750	90	0
91	302	15:09:08.733	117EA105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,072,751	00	0
91	302	15:09:08.733	176IP6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,072,751	00	0
91	302	15:09:12.066		DMS:	*RECORD	R115, TRACK 1, FWD, TIC * 765 +/- 5;	465	02	1,072,751	05	0
91	302	15:09:14.066	117EA105A106B4A	7STRP	-0.00325,0.0,0,0	Slew =,4.87	465	02	1,072,751	08	0
91	302	15:09:18.733	117EA105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,072,751	15	0
91	302	15:09:39.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 861 +/- 5;	465	02	1,072,751	46	0
91	302	15:09:39.400	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,751	46	0
91	302	15:09:39.400	117EA105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,072,751	46	0
91	302	15:09:40.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 862 +/- 6;	465	02	1,072,751	47	8
91	302	15:09:43.400	175IS422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,072,751	52	0
91	302	15:09:43.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 862 +/- 6;	465	02	1,072,751	52	0
91	302	15:09:43.400	176IR6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,072,751	52	0
91	302	15:09:47.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC * 863 +/- 6;	465	02	1,072,751	58	0
91	302	15:09:47.400	117EA105A106C4B	7STRP	0.0045,0.0,0,0,0	Slew =,0.12	465	02	1,072,751	58	0
91	302	15:10:28.733	117EA11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,072,752	29	0
91	302	15:10:28.733	GAPNGASCUR01		-----STOP-------		465	02			
91	302	15:10:28.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 900 +/- 6;	465	02	1,072,752	29	0
91	302	15:10:28.733	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,752	29	0
91	302	15:10:29.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 901 +/- 6;	465	02	1,072,752	30	8
91	302	15:25:22.066	GAPNGASPER02		-----START------		465	02			
91	302	15:25:22.066	165JC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,072,767	04	0
91	302	15:25:22.733	165JC4B	7SCAN	NORM,246.858999,	Check S/P Position	465	02	1,072,767	05	0
91	302	15:27:15.400	117JC	CSMOS	GS	***** GROUP START CSMOS	465	02	1,072,768	83	0
91	302	15:27:16.066	128JC149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,768	84	0
91	302	15:27:20.733	176JV6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,769	00	0
91	302	15:27:20.733	175JV422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,769	00	0
91	302	15:27:20.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 901 +/- 6;	467	06	1,072,769	00	0
91	302	15:27:24.733	117JC105A106A4A	7STRP	0.006,0.0,0,0,0,	Slew =,0.76	467	06	1,072,769	06	0
91	302	15:27:24.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC * 902 +/- 7;	467	06	1,072,769	06	0
91	302	15:27:35.400	117JC11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,769	22	0
91	302	15:27:35.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 911 +/- 7;	467	06	1,072,769	22	0
91	302	15:27:35.400	175JV422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,769	22	0
91	302	15:27:36.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 912 +/- 7;	467	06	1,072,769	23	8
91	302	15:28:18.066	GAPNGASPER02		-----STOP-------		467	06			

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	15:42:29.400	165EB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,783:89:0
91	302	15:42:29.400	GAPNGASCUR02		-----START------		467	06	: :
91	302	15:42:30.066	165EB4B	7SCAN	NORM,247.019999,	Check S/P Position	467	06	1,072,783:90:0
91	302	15:44:22.733	117EB	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,785:77:0
91	302	15:44:27.400	128EB149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,072,785:84:0
91	302	15:44:31.400	175IO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,072,785:90:0
91	302	15:44:31.400		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 912 +/- 7;	465	02	1,072,785:90:0
91	302	15:44:32.066	117EB105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,072,786:00:0
91	302	15:44:32.066	176IO6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,072,786:00:0
91	302	15:44:35.400		DMS:	*RECORD	R115, TRACK 1, FWD, TIC * 919 +/- 7;	465	02	1,072,786:05:0
91	302	15:44:37.400	117EB105A106B4A	7STRP	-0.0035,0.0,0,0,	Slew =,4.87	465	02	1,072,786:08:0
91	302	15:44:42.066	117EB105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,072,786:15:0
91	302	15:45:02.733	117EB105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,072,786:46:0
91	302	15:45:02.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1015 +/- 7;	465	02	1,072,786:46:0
91	302	15:45:02.733	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,786:46:0
91	302	15:45:03.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1016 +/- 7;	465	02	1,072,786:47:8
91	302	15:45:06.733	175IT422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,072,786:52:0
91	302	15:45:06.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1016 +/- 7;	465	02	1,072,786:52:0
91	302	15:45:06.733	176IS6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,072,786:52:0
91	302	15:45:10.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1018 +/- 8;	465	02	1,072,786:58:0
91	302	15:45:10.733	117EB105A106C4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.12	465	02	1,072,786:58:0
91	302	15:45:56.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1058 +/- 8;	465	02	1,072,787:36:0
91	302	15:45:56.733	117EB11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,072,787:36:0
91	302	15:45:56.733	GAPNGASCUR02		-----STOP-------		465	02	: :
91	302	15:45:56.733	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,787:36:0
91	302	15:45:57.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1059 +/- 8;	465	02	1,072,787:37:8
91	302	16:00:45.400	GAPNGASPER03		-----START------		465	02	: :
91	302	16:00:45.400	165JD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,072,802:04:0
91	302	16:00:46.066	165JD4B	7SCAN	NORM,246.816,-21	Check S/P Position	465	02	1,072,802:05:0
91	302	16:02:38.733	117JD	CSMOS	GS	***** GROUP START CSMOS	465	02	1,072,803:83:0
91	302	16:02:39.400	128JD149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,803:84:0
91	302	16:02:44.066	175JU422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,804:00:0
91	302	16:02:44.066	176JU6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,804:00:0
91	302	16:02:44.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1059 +/- 8;	467	06	1,072,804:00:0
91	302	16:02:48.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1060 +/- 8;	467	06	1,072,804:06:0
91	302	16:02:48.066	117JD105A106A4A	7STRP	0.006,0.0,0,0,0,	Slew =,0.76	467	06	1,072,804:06:0
91	302	16:02:58.733	175JU422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,804:22:0
91	302	16:02:58.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1070 +/- 8;	467	06	1,072,804:22:0
91	302	16:02:58.733	117JD11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,804:22:0
91	302	16:02:59.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1071 +/- 9;	467	06	1,072,804:23:8
91	302	16:03:41.400	GAPNGASPER03		-----STOP-------		467	06	: :
91	302	16:15:51.400	165IF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,816:89:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	16:15:52.066	165IF4B	7SCAN	NORM,246.973999,	Check S/P Position	467	06	1,072,816:90:0
91	302	16:19:50.733		DMS:	*RUNUP	R806, TRACK 1, FWD, TIC 1071 +/- 9;	467	06	1,072,820:84:0
91	302	16:19:50.733	128ID149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	461	00	1,072,820:84:0
91	302	16:19:50.733	175IN422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	461	00	1,072,820:84:0
91	302	16:19:55.400	176IN6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	461	00	1,072,821:00:0
91	302	16:19:55.933		DMS:	*RECORD	R806, TRACK 1, FWD, TIC *1136 +/- 12;	461	00	1,072,821:00:8
91	302	16:20:04.733	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	461	00	1,072,821:14:0
91	302	16:20:04.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1352 +/- 12;	461	00	1,072,821:14:0
91	302	16:20:07.400		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1363 +/- 13;	461	00	1,072,821:18:0
91	302	16:23:34.733	GAPNGASPEC02		-----START------		461	00	: :
91	302	16:23:34.733	165JE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	461	00	1,072,824:56:0
91	302	16:23:35.400	165JE4B	7SCAN	NORM,246.786999,	Check S/P Position	461	00	1,072,824:57:0
91	302	16:23:52.733	117JE	CSMOS	GS	***** GROUP START CSMOS	461	00	1,072,824:83:0
91	302	16:23:58.066	175JJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	461	00	1,072,825:00:0
91	302	16:23:58.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1363 +/- 13;	461	00	1,072,825:00:0
91	302	16:23:58.066	176JJ6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	461	00	1,072,825:00:0
91	302	16:24:02.066	117JE105A106A4A	7STRP	0.00597,0.0,0,0,	Slew =,0.03	461	00	1,072,825:06:0
91	302	16:24:02.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1365 +/- 13;	461	00	1,072,825:06:0
91	302	16:27:31.400	GAPNGASPEC02		-----STOP-------		461	00	: :
91	302	16:27:31.400	175JJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	461	00	1,072,828:47:0
91	302	16:27:31.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1549 +/- 13;	461	00	1,072,828:47:0
91	302	16:27:31.400	117JE11A	CSMOS	GE	***** GROUP END CSMOS	461	00	1,072,828:47:0
91	302	16:27:32.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1550 +/- 13;	461	00	1,072,828:48:8
91	302	16:36:08.733	GAPNGASPER04		-----START------		461	00	: :
91	302	16:36:08.733	165JF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	461	00	1,072,837:04:0
91	302	16:36:09.400	165JF4B	7SCAN	NORM,246.734999,	Check S/P Position	461	00	1,072,837:05:0
91	302	16:38:02.066	117JF	CSMOS	GS	***** GROUP START CSMOS	461	00	1,072,838:83:0
91	302	16:38:02.733	128JF149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,838:84:0
91	302	16:38:07.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1550 +/- 13;	467	06	1,072,839:00:0
91	302	16:38:07.400	175JT422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,839:00:0
91	302	16:38:07.400	176JT6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,839:00:0
91	302	16:38:11.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1551 +/- 14;	467	06	1,072,839:06:0
91	302	16:38:11.400	117JF105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.76	467	06	1,072,839:06:0
91	302	16:38:23.400	175JT422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,839:24:0
91	302	16:38:23.400	117JF11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,839:24:0
91	302	16:38:23.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1562 +/- 14;	467	06	1,072,839:24:0
91	302	16:38:24.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1563 +/- 14;	467	06	1,072,839:25:8
91	302	16:39:04.733	GAPNGASPER04		-----STOP-------		467	06	: :
91	302	16:53:16.066	165EC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,853:89:0
91	302	16:53:16.066	GAPNGASCUR03		-----START------		467	06	: :
91	302	16:53:16.733	165EC4B	7SCAN	NORM,246.917,-21	Check S/P Position	467	06	1,072,853:90:0
91	302	16:55:09.400	117EC	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,855:77:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	16:55:14.066	128EC149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,072,855:84:0
91	302	16:55:18.066	175IM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,072,855:90:0
91	302	16:55:18.066		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 1563 +/- 14;	465	02	1,072,855:90:0
91	302	16:55:18.733	176IM6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,072,856:00:0
91	302	16:55:18.733	117EC105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,072,856:00:0
91	302	16:55:22.066		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *1569 +/- 14;	465	02	1,072,856:05:0
91	302	16:55:24.066	117EC105A106B4A	7STRP	-0.0035,0.0,0,0,	Slew =,4.87	465	02	1,072,856:08:0
91	302	16:55:28.733	117EC105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,072,856:15:0
91	302	16:55:49.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1666 +/- 14;	465	02	1,072,856:46:0
91	302	16:55:49.400	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,856:46:0
91	302	16:55:50.066	117EC105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,072,856:47:0
91	302	16:55:50.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1667 +/- 14;	465	02	1,072,856:47:8
91	302	16:55:53.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1667 +/- 14;	465	02	1,072,856:52:0
91	302	16:55:53.400	175IU422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,072,856:52:0
91	302	16:55:53.400	176IT6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,072,856:52:0
91	302	16:55:57.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1668 +/- 15;	465	02	1,072,856:58:0
91	302	16:55:58.066	117EC105A106C4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.12	465	02	1,072,856:59:0
91	302	16:56:42.733	GAPNGASCUR03		-----STOP-------		465	02	: :
91	302	16:56:42.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1708 +/- 15;	465	02	1,072,857:35:0
91	302	16:56:42.733	117EC11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,072,857:35:0
91	302	16:56:42.733	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,857:35:0
91	302	16:56:43.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1709 +/- 15;	465	02	1,072,857:36:8
91	302	17:11:32.066	165JG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,072,872:04:0
91	302	17:11:32.066	GAPNGASPER05		-----START------		465	02	: :
91	302	17:11:32.733	165JG4B	7SCAN	NORM,246.672998,	Check S/P Position	465	02	1,072,872:05:0
91	302	17:13:25.400	117JG	CSMOS	GS	***** GROUP START CSMOS	465	02	1,072,873:83:0
91	302	17:13:26.066	128JG149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,873:84:0
91	302	17:13:30.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1709 +/- 15;	467	06	1,072,874:00:0
91	302	17:13:30.733	175JS422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,874:00:0
91	302	17:13:30.733	176JS6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,874:00:0
91	302	17:13:34.733	117JG105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.76	467	06	1,072,874:06:0
91	302	17:13:34.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1710 +/- 15;	467	06	1,072,874:06:0
91	302	17:13:46.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1721 +/- 15;	467	06	1,072,874:24:0
91	302	17:13:46.733	117JG11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,874:24:0
91	302	17:13:46.733	175JS422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,874:24:0
91	302	17:13:47.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1722 +/- 16;	467	06	1,072,874:25:8
91	302	17:14:28.066	GAPNGASPER05		-----STOP-------		467	06	: :
91	302	17:28:39.400	GAPNGASCUR04		-----START------		467	06	: :
91	302	17:28:39.400	165ED4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,888:89:0
91	302	17:28:40.066	165ED4B	7SCAN	NORM,246.848,-21	Check S/P Position	467	06	1,072,888:90:0
91	302	17:30:32.733	117ED	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,890:77:0
91	302	17:30:37.400	128ED149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,072,890:84:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	17:30:41.400		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 1722 +/- 16;	465	02	1,072,890:90:0
91	302	17:30:41.400	175IL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,072,890:90:0
91	302	17:30:42.066	117ED105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,072,891:00:0
91	302	17:30:42.066	176IL6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,072,891:00:0
91	302	17:30:45.400		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *1728 +/- 16;	465	02	1,072,891:05:0
91	302	17:30:47.400	117ED105A106B4A	7STRP	-0.0035,0.0,0,0,	Slew =,4.87	465	02	1,072,891:08:0
91	302	17:30:52.066	117ED105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,072,891:15:0
91	302	17:31:12.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1824 +/- 16;	465	02	1,072,891:46:0
91	302	17:31:12.733	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,891:46:0
91	302	17:31:13.400	117ED105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,072,891:47:0
91	302	17:31:13.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1825 +/- 16;	465	02	1,072,891:47:8
91	302	17:31:16.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1825 +/- 16;	465	02	1,072,891:52:0
91	302	17:31:16.733	175IV422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,072,891:52:0
91	302	17:31:16.733	176IU6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,072,891:52:0
91	302	17:31:20.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1827 +/- 17;	465	02	1,072,891:58:0
91	302	17:31:21.400	117ED105A106C4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.12	465	02	1,072,891:59:0
91	302	17:32:06.066	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,892:35:0
91	302	17:32:06.066	GAPNGASCUR04		-----STOP-------		465	02	: :
91	302	17:32:06.066	117ED11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,072,892:35:0
91	302	17:32:06.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1867 +/- 17;	465	02	1,072,892:35:0
91	302	17:32:07.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1868 +/- 17;	465	02	1,072,892:36:8
91	302	17:46:55.400	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,072,907:04:0
91	302	17:46:55.400	GAPNGASPER06		-----START------		465	02	: :
91	302	17:46:56.066	165JH4B	7SCAN	NORM,246.594999,	Check S/P Position	465	02	1,072,907:05:0
91	302	17:48:48.733	117JH	CSMOS	GS	***** GROUP START CSMOS	465	02	1,072,908:83:0
91	302	17:48:49.400	128JH149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,908:84:0
91	302	17:48:54.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1868 +/- 17;	467	06	1,072,909:00:0
91	302	17:48:54.066	175JR422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,909:00:0
91	302	17:48:54.066	176JR6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,909:00:0
91	302	17:48:58.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1869 +/- 17;	467	06	1,072,909:06:0
91	302	17:48:58.066	117JH105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.76	467	06	1,072,909:06:0
91	302	17:49:10.066	175JR422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,909:24:0
91	302	17:49:10.066	117JH11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,909:24:0
91	302	17:49:10.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1880 +/- 17;	467	06	1,072,909:24:0
91	302	17:49:11.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1881 +/- 17;	467	06	1,072,909:25:8
91	302	17:49:51.400	GAPNGASPER06		-----STOP-------		467	06	: :
91	302	18:02:01.400	165IE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,921:89:0
91	302	18:02:02.066	165IE4B	7SCAN	NORM,246.761,-21	Check S/P Position	467	06	1,072,921:90:0
91	302	18:06:04.733		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 1881 +/- 17;	467	06	1,072,925:90:0
91	302	18:06:04.733	175IK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	467	06	1,072,925:90:0
91	302	18:06:05.400	176IK6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	467	06	1,072,926:00:0
91	302	18:06:08.733		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *1887 +/- 18;	467	06	1,072,926:05:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	18:08:06.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2302 +/- 18;	467	06	1,072,928:00:0
91	302	18:08:06.733	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,928:00:0
91	302	18:08:07.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2303 +/- 18;	467	06	1,072,928:01:8
91	302	18:09:44.733	GAPNGASPEC03		-----START------		467	06	: :
91	302	18:09:44.733	165JI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,929:56:0
91	302	18:09:45.400	165JI4B	7SCAN	NORM,246.539,-21	Check S/P Position	467	06	1,072,929:57:0
91	302	18:10:02.733	117JI	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,929:83:0
91	302	18:10:03.400	128JI149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	461	00	1,072,929:84:0
91	302	18:10:08.066	175JI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	461	00	1,072,930:00:0
91	302	18:10:08.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 2303 +/- 18;	461	00	1,072,930:00:0
91	302	18:10:08.066	176JI6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	461	00	1,072,930:00:0
91	302	18:10:12.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *2305 +/- 18;	461	00	1,072,930:06:0
91	302	18:10:12.066	117JI105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.03	461	00	1,072,930:06:0
91	302	18:14:18.066	GAPNGASPEC03		-----STOP-------		461	00	: :
91	302	18:14:18.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2521 +/- 18;	461	00	1,072,934:11:0
91	302	18:14:18.066	117JI11A	CSMOS	GE	***** GROUP END CSMOS	461	00	1,072,934:11:0
91	302	18:14:18.066	175JI422A6B	6DMSC	RDY,0	DMS Control Tape stop	461	00	1,072,934:11:0
91	302	18:14:19.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2522 +/- 19;	461	00	1,072,934:12:8
91	302	18:22:18.733	165JJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	461	00	1,072,942:04:0
91	302	18:22:18.733	GAPNGASPER07		-----START------		461	00	: :
91	302	18:22:19.400	165JJ4B	7SCAN	NORM,246.466,-20	Check S/P Position	461	00	1,072,942:05:0
91	302	18:24:12.066	117JJ	CSMOS	GS	***** GROUP START CSMOS	461	00	1,072,943:83:0
91	302	18:24:12.733	128JJ149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,943:84:0
91	302	18:24:17.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 2522 +/- 19;	467	06	1,072,944:00:0
91	302	18:24:17.400	176JQ6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,944:00:0
91	302	18:24:17.400	175JQ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,944:00:0
91	302	18:24:21.400	117JJ105A106A4A	7STRP	0.008,0.0,0,0,0,	Slew =,0.76	467	06	1,072,944:06:0
91	302	18:24:21.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *2523 +/- 19;	467	06	1,072,944:06:0
91	302	18:24:34.733	175JQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,944:26:0
91	302	18:24:34.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2535 +/- 19;	467	06	1,072,944:26:0
91	302	18:24:34.733	117JJ11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,944:26:0
91	302	18:24:35.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2536 +/- 19;	467	06	1,072,944:27:8
91	302	18:25:14.733	GAPNGASPER07		-----STOP-------		467	06	: :
91	302	18:39:26.066	165EE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,958:89:0
91	302	18:39:26.066	GAPNGASCUR05		-----START------		467	06	: :
91	302	18:39:26.733	165EE4B	7SCAN	NORM,246.647999,	Check S/P Position	467	06	1,072,958:90:0
91	302	18:41:19.400	117EE	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,960:77:0
91	302	18:41:24.066	128EE149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,072,960:84:0
91	302	18:41:28.066		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 2536 +/- 19;	465	02	1,072,960:90:0
91	302	18:41:28.066	175II422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,072,960:90:0
91	302	18:41:28.733	176II6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,072,961:00:0
91	302	18:41:28.733	117EE105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,072,961:00:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	18:41:32.066		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *2543 +/- 20;	465	02	1,072,961:05:0
91	302	18:41:34.066	117EE105A106B4A	7STRP	-0.00325,0.0,0,0	Slew =,4.87	465	02	1,072,961:08:0
91	302	18:41:38.733	117EE105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,072,961:15:0
91	302	18:41:59.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2639 +/- 20;	465	02	1,072,961:46:0
91	302	18:41:59.400	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,961:46:0
91	302	18:42:00.066	117EE105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,072,961:47:0
91	302	18:42:00.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2640 +/- 20;	465	02	1,072,961:47:8
91	302	18:42:03.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 2640 +/- 20;	465	02	1,072,961:52:0
91	302	18:42:03.400	176IV6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,072,961:52:0
91	302	18:42:03.400	175IW422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,072,961:52:0
91	302	18:42:07.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *2641 +/- 20;	465	02	1,072,961:58:0
91	302	18:42:08.066	117EE105A106C4B	7STRP	0.00475,0.0,0,0,	Slew =,0.12	465	02	1,072,961:59:0
91	302	18:42:50.733	GAPNGASCUR05		-----STOP-------		465	02	: :
91	302	18:42:50.733	117EE11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,072,962:32:0
91	302	18:42:50.733	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,962:32:0
91	302	18:42:50.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2679 +/- 20;	465	02	1,072,962:32:0
91	302	18:42:51.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2680 +/- 20;	465	02	1,072,962:33:8
91	302	18:57:42.066	GAPNGASPER08		-----START------		465	02	: :
91	302	18:57:42.066	165JK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,072,977:04:0
91	302	18:57:42.733	165JK4B	7SCAN	NORM,246.358999,	Check S/P Position	465	02	1,072,977:05:0
91	302	18:59:35.400	117JK	CSMOS	GS	***** GROUP START CSMOS	465	02	1,072,978:83:0
91	302	18:59:36.066	128JK149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,072,978:84:0
91	302	18:59:40.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 2680 +/- 20;	467	06	1,072,979:00:0
91	302	18:59:40.733	176JP6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,072,979:00:0
91	302	18:59:40.733	175JP422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,072,979:00:0
91	302	18:59:44.733	117JK105A106A4A	7STRP	0.007,0.0,0,0,0,	Slew =,0.76	467	06	1,072,979:06:0
91	302	18:59:44.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *2682 +/- 21;	467	06	1,072,979:06:0
91	302	18:59:56.733	117JK11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,072,979:24:0
91	302	18:59:58.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2693 +/- 21;	467	06	1,072,979:26:0
91	302	18:59:58.066	175JP422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,072,979:26:0
91	302	18:59:59.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2694 +/- 21;	467	06	1,072,979:27:8
91	302	19:00:38.066	GAPNGASPER08		-----STOP-------		467	06	: :
91	302	19:14:49.400	GAPNGASCUR06		-----START------		467	06	: :
91	302	19:14:49.400	165EF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,072,993:89:0
91	302	19:14:50.066	165EF4B	7SCAN	NORM,246.494999,	Check S/P Position	467	06	1,072,993:90:0
91	302	19:16:42.733	117EF	CSMOS	GS	***** GROUP START CSMOS	467	06	1,072,995:77:0
91	302	19:16:47.400	128EF149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,072,995:84:0
91	302	19:16:51.400	175IH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,072,995:90:0
91	302	19:16:51.400		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 2694 +/- 21;	465	02	1,072,995:90:0
91	302	19:16:52.066	176IH6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,072,996:00:0
91	302	19:16:52.066	117EF105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,072,996:00:0
91	302	19:16:55.400		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *2701 +/- 21;	465	02	1,072,996:05:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	19:16:57.400	117EF105A106B4A	7STRP	-0.0035,0.0,0,0,	Slew =,4.87	465	02	1,072,996:08:0
91	302	19:17:02.066	117EF105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,072,996:15:0
91	302	19:17:22.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2797 +/- 21;	465	02	1,072,996:46:0
91	302	19:17:22.733	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,996:46:0
91	302	19:17:23.400	117EF105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,072,996:47:0
91	302	19:17:23.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2798 +/- 22;	465	02	1,072,996:47:8
91	302	19:17:26.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 2798 +/- 22;	465	02	1,072,996:52:0
91	302	19:17:26.733	175IX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,072,996:52:0
91	302	19:17:26.733	176IW6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,072,996:52:0
91	302	19:17:30.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *2800 +/- 22;	465	02	1,072,996:58:0
91	302	19:17:31.400	117EF105A106C4B	7STRP	0.005,0.0,0,0,0,	Slew =,0.12	465	02	1,072,996:59:0
91	302	19:18:16.066	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,072,997:35:0
91	302	19:18:16.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2839 +/- 22;	465	02	1,072,997:35:0
91	302	19:18:16.066	GAPNGASCUR06		-----STOP-------		465	02	: :
91	302	19:18:16.066	117EF11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,072,997:35:0
91	302	19:18:17.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2840 +/- 22;	465	02	1,072,997:36:8
91	302	19:23:56.733	GAPUOUTGAS01		-----START------		465	02	: :
91	302	19:24:30.066	165KB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,073,003:50:0
91	302	19:24:30.733	165KB4B	7SCAN	NORM,245.575998,	Check S/P Position	465	02	1,073,003:51:0
91	302	19:24:48.066	117KB	CSMOS	GS	***** GROUP START CSMOS	465	02	1,073,003:77:0
91	302	19:24:56.066	175KA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	465	02	1,073,003:89:0
91	302	19:24:56.066		DMS:	*RUNUP	R7, TRACK 1, FWD, TIC 2840 +/- 22;	465	02	1,073,003:89:0
91	302	19:24:57.400	117KB105A106A4A	7STRP	0.027207,0.0,0,0	Slew =,0.02	465	02	1,073,004:00:0
91	302	19:24:57.400	176KA6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	465	02	1,073,004:00:0
91	302	19:24:57.533		DMS:	*RECORD	R7, TRACK 1, FWD, TIC *2841 +/- 22;	465	02	1,073,004:00:2
91	302	19:48:47.400	117KB11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,073,027:52:0
91	302	19:49:07.400	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,073,027:82:0
91	302	19:49:07.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3181 +/- 22;	465	02	1,073,027:82:0
91	302	19:49:08.666		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3182 +/- 22;	465	02	1,073,027:83:9
91	302	19:49:12.066	165ID4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,073,027:89:0
91	302	19:49:12.733	165ID4B	7SCAN	NORM,246.275999,	Check S/P Position	465	02	1,073,027:90:0
91	302	19:49:48.066	GAPUOUTGAS01		-----STOP-------		465	02	: :
91	302	19:52:14.733	175IG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,073,030:90:0
91	302	19:52:14.733		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 3182 +/- 22;	465	02	1,073,030:90:0
91	302	19:52:15.400	176IG6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,073,031:00:0
91	302	19:52:18.733		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *3189 +/- 23;	465	02	1,073,031:05:0
91	302	19:54:16.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3603 +/- 23;	465	02	1,073,033:00:0
91	302	19:54:16.733	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,073,033:00:0
91	302	19:54:17.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3604 +/- 23;	465	02	1,073,033:01:8
91	302	19:55:54.733	165JM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,073,034:56:0
91	302	19:55:54.733	GAPNGASPEC04		-----START------		465	02	: :
91	302	19:55:55.400	165JM4B	7SCAN	NORM,246.018999,	Check S/P Position	465	02	1,073,034:57:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	19:56:12.733	117JM	CSMOS	GS	***** GROUP START CSMOS	465	02	1,073,034:83:0
91	302	19:56:13.400	128JM149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	461	00	1,073,034:84:0
91	302	19:56:18.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 3604 +/- 23;	461	00	1,073,035:00:0
91	302	19:56:18.066	175JH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	461	00	1,073,035:00:0
91	302	19:56:18.066	176JH6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	461	00	1,073,035:00:0
91	302	19:56:22.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *3606 +/- 23;	461	00	1,073,035:06:0
91	302	19:56:22.066	117JM105A106A4A	7STRP	0.0073,0.0,0,0,0	Slew =,0.03	461	00	1,073,035:06:0
91	302	20:00:38.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3831 +/- 23;	461	00	1,073,039:26:0
91	302	20:00:38.066	GAPNGASPEC04		-----STOP-------		461	00	: :
91	302	20:00:38.066	117JM11A	CSMOS	GE	***** GROUP END CSMOS	461	00	1,073,039:26:0
91	302	20:00:38.066	175JH422A6B	6DMSC	RDY,0	DMS Control Tape stop	461	00	1,073,039:26:0
91	302	20:00:39.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3832 +/- 24;	461	00	1,073,039:27:8
91	302	20:08:28.733	165JN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	461	00	1,073,047:04:0
91	302	20:08:28.733	GAPNGASPER10		-----START------		461	00	: :
91	302	20:08:29.400	165JN4B	7SCAN	NORM,245.865999,	Check S/P Position	461	00	1,073,047:05:0
91	302	20:10:22.066	117JN	CSMOS	GS	***** GROUP START CSMOS	461	00	1,073,048:83:0
91	302	20:10:22.733	128JN149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,073,048:84:0
91	302	20:10:27.400	175JN422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,073,049:00:0
91	302	20:10:27.400	176JN6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,073,049:00:0
91	302	20:10:27.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 3832 +/- 24;	467	06	1,073,049:00:0
91	302	20:10:31.400	117JN105A106A4A	7STRP	0.0083,0.0,0,0,0	Slew =,0.76	467	06	1,073,049:06:0
91	302	20:10:31.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *3833 +/- 24;	467	06	1,073,049:06:0
91	302	20:10:44.733	117JN11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,073,049:26:0
91	302	20:10:47.400	175JN422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,073,049:30:0
91	302	20:10:47.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3848 +/- 24;	467	06	1,073,049:30:0
91	302	20:10:48.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3849 +/- 24;	467	06	1,073,049:31:8
91	302	20:11:24.733	GAPNGASPER10		-----STOP-------		467	06	: :
91	302	20:25:36.066	GAPNGASCUR07		-----START------		467	06	: :
91	302	20:25:36.066	165EG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,073,063:89:0
91	302	20:25:36.733	165EG4B	7SCAN	NORM,245.938,-20	Check S/P Position	467	06	1,073,063:90:0
91	302	20:27:29.400	117EG	CSMOS	GS	***** GROUP START CSMOS	467	06	1,073,065:77:0
91	302	20:27:34.066	128EG149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	465	02	1,073,065:84:0
91	302	20:27:38.066		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 3849 +/- 24;	465	02	1,073,065:90:0
91	302	20:27:38.066	175IF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	465	02	1,073,065:90:0
91	302	20:27:38.733	176IF6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	465	02	1,073,066:00:0
91	302	20:27:38.733	117EG105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	465	02	1,073,066:00:0
91	302	20:27:42.066		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *3855 +/- 25;	465	02	1,073,066:05:0
91	302	20:27:44.066	117EG105A106B4A	7STRP	-0.0046,0.0,0,0,	Slew =,4.87	465	02	1,073,066:08:0
91	302	20:27:48.733	117EG105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	465	02	1,073,066:15:0
91	302	20:28:09.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3951 +/- 25;	465	02	1,073,066:46:0
91	302	20:28:09.400	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,073,066:46:0
91	302	20:28:10.066	117EG105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	465	02	1,073,066:47:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF I
91	302	20:28:10.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3952 +/- 25;	465	02	1,073,066	47:8
91	302	20:28:13.400		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 3952 +/- 25;	465	02	1,073,066	52:0
91	302	20:28:13.400	175IY422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	465	02	1,073,066	52:0
91	302	20:28:13.400	176IX6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	465	02	1,073,066	52:0
91	302	20:28:17.400		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *3954 +/- 25;	465	02	1,073,066	58:0
91	302	20:28:18.066	117EG105A106C4B	7STRP	0.007,0.0,0,0,0,	Slew =,0.12	465	02	1,073,066	59:0
91	302	20:29:21.400	117EG11A	CSMOS	GE	***** GROUP END CSMOS	465	02	1,073,067	63:0
91	302	20:29:21.400	GAPNGASCUR07		-----STOP-------		465	02		: :
91	302	20:29:21.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4010 +/- 25;	465	02	1,073,067	63:0
91	302	20:29:21.400	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	465	02	1,073,067	63:0
91	302	20:29:22.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4011 +/- 25;	465	02	1,073,067	64:8
91	302	20:43:52.066	165JO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	465	02	1,073,082	04:0
91	302	20:43:52.066	GAPNGASPER11		-----START------		465	02		: :
91	302	20:43:52.733	165JO4B	7SCAN	NORM,245.372,-20	Check S/P Position	465	02	1,073,082	05:0
91	302	20:45:45.400	117JO	CSMOS	GS	***** GROUP START CSMOS	465	02	1,073,083	83:0
91	302	20:45:46.066	128JO149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	467	06	1,073,083	84:0
91	302	20:45:46.733	175JM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	467	06	1,073,083	85:0
91	302	20:45:46.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4011 +/- 25;	467	06	1,073,083	85:0
91	302	20:45:50.733	176JM6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	467	06	1,073,084	00:0
91	302	20:45:50.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4012 +/- 26;	467	06	1,073,084	00:0
91	302	20:45:54.733	117JO105A106A4A	7STRP	0.01,0.0,0,0,0,0	Slew =,0.76	467	06	1,073,084	06:0
91	302	20:46:10.733	117JO11A	CSMOS	GE	***** GROUP END CSMOS	467	06	1,073,084	30:0
91	302	20:46:10.733	175JM422A6B	6DMSC	RDY,0	DMS Control Tape stop	467	06	1,073,084	30:0
91	302	20:46:10.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4030 +/- 26;	467	06	1,073,084	30:0
91	302	20:46:11.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4031 +/- 26;	467	06	1,073,084	31:8
91	302	20:46:48.066	GAPNGASPER11		-----STOP-------		467	06		: :
91	302	21:00:59.400	GAPNGASCUR08		-----START------		467	06		: :
91	302	21:00:59.400	165EH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	467	06	1,073,098	89:0
91	302	21:01:00.066	165EH4B	7SCAN	NORM,245.344999,	Check S/P Position	467	06	1,073,098	90:0
91	302	21:01:56.733	128EH149A131A4A	37IST	0,0,0,OFF,0,1,2	Gain State 3	367	06	1,073,099	84:0
91	302	21:02:52.733	117EH	CSMOS	GS	***** GROUP START CSMOS	367	06	1,073,100	77:0
91	302	21:02:57.400	128EH149A131B4A	37IOP	5,2	Short Map, Grating Start Position =2	365	02	1,073,100	84:0
91	302	21:03:01.400		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 4031 +/- 26;	365	02	1,073,100	90:0
91	302	21:03:01.400	175IE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	365	02	1,073,100	90:0
91	302	21:03:02.066	176IE6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	365	02	1,073,101	00:0
91	302	21:03:02.066	117EH105A106A4A	7STRP	0.00001,0.0,0,0,	Slew =,0.12	365	02	1,073,101	00:0
91	302	21:03:05.400		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *4037 +/- 26;	365	02	1,073,101	05:0
91	302	21:03:07.400	117EH105A106B4A	7STRP	-0.0055,0.0,0,0,	Slew =,4.87	365	02	1,073,101	08:0
91	302	21:03:12.066	117EH105A106B4B	7STRP	0.00227,0.0,0,0,	Slew =,0.12	365	02	1,073,101	15:0
91	302	21:03:32.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4134 +/- 26;	365	02	1,073,101	46:0
91	302	21:03:32.733	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	365	02	1,073,101	46:0
91	302	21:03:33.400	117EH105A106C4A	7STRP	-0.0005,0.0,0,0,	Slew =,4.87	365	02	1,073,101	47:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	21:03:33.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4135 +/- 27;	365	02	1,073,101:47:8
91	302	21:03:36.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4135 +/- 27;	365	02	1,073,101:52:0
91	302	21:03:36.733	176IY6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	365	02	1,073,101:52:0
91	302	21:03:36.733	175IZ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	365	02	1,073,101:52:0
91	302	21:03:40.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4136 +/- 27;	365	02	1,073,101:58:0
91	302	21:03:41.400	117EH105A106C4B	7STRP	0.0085,0.0,0,0,0	Slew =,0.12	365	02	1,073,101:59:0
91	302	21:04:58.066	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	365	02	1,073,102:83:0
91	302	21:04:58.066	117EH11A	CSMOS	GE	***** GROUP END CSMOS	365	02	1,073,102:83:0
91	302	21:04:58.066		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4204 +/- 27;	365	02	1,073,102:83:0
91	302	21:04:58.066	GAPNGASCUR08		-----STOP-------		365	02	: :
91	302	21:04:59.266		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4205 +/- 27;	365	02	1,073,102:84:8
91	302	21:13:11.400	165JP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	365	02	1,073,111:04:0
91	302	21:13:11.400	GAPNGASPER12		-----START------		365	02	: :
91	302	21:13:12.066	165JP4B	7SCAN	NORM,244.691999,	Check S/P Position	365	02	1,073,111:05:0
91	302	21:15:04.733	117JP	CSMOS	GS	***** GROUP START CSMOS	365	02	1,073,112:83:0
91	302	21:15:05.400	128JP149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	367	06	1,073,112:84:0
91	302	21:15:10.066	176JL6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	367	06	1,073,113:00:0
91	302	21:15:10.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4205 +/- 27;	367	06	1,073,113:00:0
91	302	21:15:10.066	175JL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	367	06	1,073,113:00:0
91	302	21:15:14.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4206 +/- 28;	367	06	1,073,113:06:0
91	302	21:15:14.066	117JP105A106A4A	7STRP	0.011,0.0,0,0,0,	Slew =,0.76	367	06	1,073,113:06:0
91	302	21:15:31.400		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4222 +/- 28;	367	06	1,073,113:32:0
91	302	21:15:31.400	117JP11A	CSMOS	GE	***** GROUP END CSMOS	367	06	1,073,113:32:0
91	302	21:15:31.400	175JL422A6B	6DMSC	RDY,0	DMS Control Tape stop	367	06	1,073,113:32:0
91	302	21:15:32.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4223 +/- 28;	367	06	1,073,113:33:8
91	302	21:16:07.400	GAPNGASPER12		-----STOP-------		367	06	: :
91	302	21:30:15.400	GAPNGASPEC05		-----START------		367	06	: :
91	302	21:30:15.400	128JQ149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	361	00	1,073,127:84:0
91	302	21:30:57.400	165JQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	361	00	1,073,128:56:0
91	302	21:30:58.066	165JQ4B	7SCAN	NORM,244.106998,	Check S/P Position	361	00	1,073,128:57:0
91	302	21:31:15.400	117JQ	CSMOS	GS	***** GROUP START CSMOS	361	00	1,073,128:83:0
91	302	21:31:16.066	128JQ149A131B4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	161	00	1,073,128:84:0
91	302	21:31:20.733		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4223 +/- 28;	161	00	1,073,129:00:0
91	302	21:31:20.733	175JG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	161	00	1,073,129:00:0
91	302	21:31:20.733	176JG6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	161	00	1,073,129:00:0
91	302	21:31:24.733		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4224 +/- 28;	161	00	1,073,129:06:0
91	302	21:31:24.733	117JQ105A106A4A	7STRP	0.0085,0.0,0,0,0	Slew =,0.03	161	00	1,073,129:06:0
91	302	21:35:18.733	GAPNGASVIS01		-----START------		161	00	: :
91	302	21:35:18.733	128IA149A131A4A	37SS	0,6,1,0,6,0,12	Special Sequence (loads PTABs for modes 12)	161	00	1,073,132:84:0
91	302	21:36:19.400	128IA149A131B4A	37SS	1,3,1,0,0,1,24	Special Sequence (loads PTABs for modes 12)	161	00	1,073,133:84:0
91	302	21:36:22.733	GAPNGASPEC05		-----STOP-------		161	00	: :
91	302	21:36:22.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4486 +/- 28;	161	00	1,073,133:89:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
91	302	21:36:22.733	117JQ11A	CSMOS	GE	***** GROUP END CSMOS	161	00	1,073,133	89	0
91	302	21:36:22.733	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	161	00	1,073,133	89	0
91	302	21:36:23.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4487 +/- 28;	161	00	1,073,133	90	8
91	302	21:36:36.733	165EJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	161	00	1,073,134	19	0
91	302	21:36:37.400	165EJ4B	7SCAN	NORM,244.509998,	Check S/P Position	161	00	1,073,134	20	0
91	302	21:37:20.066	128IA149A131C4A	37IOP	12,0	Special Sequence 1, Grating Start Position	16C	00	1,073,134	84	0
91	302	21:37:23.400	165IA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	16C	00	1,073,134	89	0
91	302	21:37:24.066	165IA4B	7SCAN	NORM,243.827,-20	Check S/P Position	16C	00	1,073,134	90	0
91	302	21:37:48.733		DMS:	*RUNUP	R403, TRACK 1, FWD, TIC 4487 +/- 28;	16C	00	1,073,135	36	0
91	302	21:37:48.733	175ID422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	16C	00	1,073,135	36	0
91	302	21:37:49.400	165IA4C	7VECT		Inert vect update UTC	16C	00	1,073,135	37	0
91	302	21:37:50.066	165IA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	16C	00	1,073,135	38	0
91	302	21:37:50.733	176ID6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	16C	00	1,073,135	39	0
91	302	21:37:52.533		DMS:	*RECORD	R403, TRACK 1, FWD, TIC *4509 +/- 31;	16C	00	1,073,135	41	7
91	302	21:38:36.066	118IA110A111A4A	7STRP	0.0069,0.0,156,0	Slew =,1.21	16C	00	1,073,136	16	0
91	302	21:39:28.066	118IA110A111A4B	7STRP	0.0,0.0069,0,0,0	Slew =0,5.0	16C	00	1,073,137	03	0
91	302	21:40:20.066	118IA110A111A4C	7STRP	0.0069,0.0,156,0	Slew =,1.21	16C	00	1,073,137	81	0
91	302	21:41:18.733		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *7046 +/- 31;	16C	00	1,073,138	78	0
91	302	21:41:18.733	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	16C	00	1,073,138	78	0
91	302	21:41:18.733	GAPNGASVIS01		-----STOP-------		16C	00			
91	302	21:41:21.533		DMS:	*READY	RDY, TRACK 1, FWD, TIC *7050 +/- 32;	16C	00	1,073,138	82	2
91	302	21:43:24.066	128JR149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	161	00	1,073,140	84	0
91	302	21:43:24.066	GAPNGASPEC06		-----START------		161	00			
91	302	21:43:42.733	165JR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	161	00	1,073,141	21	0
91	302	21:43:43.400	165JR4B	7SCAN	NORM,243.126999,	Check S/P Position	161	00	1,073,141	22	0
91	302	21:44:00.733	117JR	CSMOS	GS	***** GROUP START CSMOS	161	00	1,073,141	48	0
91	302	21:44:03.400	176JF6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	161	00	1,073,141	52	0
91	302	21:44:06.066		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 7050 +/- 32;	161	00	1,073,141	56	0
91	302	21:44:06.066	175JF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	161	00	1,073,141	56	0
91	302	21:44:08.733	165JR4C	7VECT		Inert vect update UTC	161	00	1,073,141	60	0
91	302	21:44:09.400	165JR4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	161	00	1,073,141	61	0
91	302	21:44:10.066	117JR105A106A4A	7STRP	0.0091,0.0,0,0,0	Slew =,0.06	161	00	1,073,141	62	0
91	302	21:44:10.066		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *7052 +/- 33;	161	00	1,073,141	62	0
91	302	21:45:32.733	165JR4E	7VECT		Inert vect update UTC	161	00	1,073,143	04	0
91	302	21:46:31.800		DMS:	*REVERSE	R28, TRACK 1, FWD, TIC *7177 +/- 33;	161	00	1,073,144	01	6
91	302	21:46:37.000		DMS:	*RESUME	R28, TRACK *2, *REV, TIC *7176 +/- 33;	161	00	1,073,144	09	4
91	302	21:46:56.733	165JR4F	7VECT		Inert vect update UTC	161	00	1,073,144	39	0
91	302	21:47:11.400	117JR105A106B4A	7STRP	-0.004,0.0,0,0,0	Slew =,10.0	161	00	1,073,144	61	0
91	302	21:47:16.066	117JR105A106B4B	7STRP	0.013101,0.0,0,0	Slew =,0.06	161	00	1,073,144	68	0
91	302	21:48:20.733	165JR4G	7VECT		Inert vect update UTC	161	00	1,073,145	74	0
91	302	21:49:44.733	165JR4H	7VECT		Inert vect update UTC	161	00	1,073,147	18	0
91	302	21:50:32.733	GAPNGASVIS02		-----START------		161	00			

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	21:51:06.066	GAPNGASPEC06		-----STOP-------		161	00	: :
91	302	21:51:06.066		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6940 +/- 33;	161	00	1,073,148:49:0
91	302	21:51:06.066	117JR11A	CSMOS	GE	***** GROUP END CSMOS	161	00	1,073,148:49:0
91	302	21:51:06.066	175JF422A6B	6DMSC	RDY,0	DMS Control Tape stop	161	00	1,073,148:49:0
91	302	21:51:06.733	165IB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	161	00	1,073,148:50:0
91	302	21:51:07.266		DMS:	*READY	RDY, TRACK 2, REV, TIC *6939 +/- 34;	161	00	1,073,148:50:8
91	302	21:51:07.400	165IB4B	7SCAN	NORM,242.296999,	Check S/P Position	161	00	1,073,148:51:0
91	302	21:51:24.733	117IA	CSMOS	GS	***** GROUP START CSMOS	161	00	1,073,148:77:0
91	302	21:51:29.400	128IB149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	167	06	1,073,148:84:0
91	302	21:51:32.066		DMS:	*RUNUP	R403, TRACK 2, REV, TIC 6939 +/- 34;	167	06	1,073,148:88:0
91	302	21:51:32.066	175IC422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	167	06	1,073,148:88:0
91	302	21:51:32.733	165IB4C	7VECT		Inert vect update UTC	167	06	1,073,148:89:0
91	302	21:51:33.400	165IB4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	167	06	1,073,148:90:0
91	302	21:51:34.066	117IA105A106A4A	7STRP	0.019603,0.0,0,0	Slew =,0.86	167	06	1,073,149:00:0
91	302	21:51:34.066	176IC6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	167	06	1,073,149:00:0
91	302	21:51:35.866		DMS:	*RECORD	R403, TRACK 2, REV, TIC *6917 +/- 37;	167	06	1,073,149:02:7
91	302	21:52:02.066	117IA105A106B4A	7STRP	0.0028,0.0065,0,	Slew =0,4.7	167	06	1,073,149:42:0
91	302	21:52:06.733	117IA105A106B4B	7STRP	-0.024505,0.0,0,	Slew =,0.86	167	06	1,073,149:49:0
91	302	21:52:39.400	117IA105A106C4A	7STRP	0.0006,0.0065,0,	Slew =0,4.7	167	06	1,073,150:07:0
91	302	21:52:44.066	117IA105A106C4B	7STRP	0.023404,0.0,0,0	Slew =,0.86	167	06	1,073,150:14:0
91	302	21:53:14.733	117IA105A106D4A	7STRP	-0.0028,0.0065,0	Slew =0,4.7	167	06	1,073,150:60:0
91	302	21:53:19.400	117IA105A106D4B	7STRP	-0.017702,0.0,0,	Slew =,0.86	167	06	1,073,150:67:0
91	302	21:53:30.733	128JS149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	165	02	1,073,150:84:0
91	302	21:53:30.733	GAPNGSCHEM02		-----START------		165	02	: :
91	302	21:53:44.066	GAPNGASVIS02		-----STOP-------		165	02	: :
91	302	21:53:44.066	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	165	02	1,073,151:13:0
91	302	21:53:44.066		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5339 +/- 37;	165	02	1,073,151:13:0
91	302	21:53:44.066	117IA11A	CSMOS	GE	***** GROUP END CSMOS	165	02	1,073,151:13:0
91	302	21:53:46.866		DMS:	*READY	RDY, TRACK 2, REV, TIC *5335 +/- 38;	165	02	1,073,151:17:2
91	302	21:54:01.400	165JS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	165	02	1,073,151:39:0
91	302	21:54:02.066	165JS4B	7SCAN	NORM,243.330999,	Check S/P Position	165	02	1,073,151:40:0
91	302	21:54:18.733	176JE6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	165	02	1,073,151:65:0
91	302	21:54:19.400	117JS	CSMOS	GS	***** GROUP START CSMOS	165	02	1,073,151:66:0
91	302	21:54:24.733		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 5335 +/- 38;	165	02	1,073,151:74:0
91	302	21:54:24.733	175JE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	165	02	1,073,151:74:0
91	302	21:54:27.400	165JS4C	7VECT		Inert vect update UTC	165	02	1,073,151:78:0
91	302	21:54:28.066	165JS4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	165	02	1,073,151:79:0
91	302	21:54:28.733	117JS105A106A4A	7STRP	-0.018502,0.0,0,	Slew =,0.12	165	02	1,073,151:80:0
91	302	21:54:28.733		DMS:	*RECORD	R28, TRACK 2, REV, TIC *5334 +/- 38;	165	02	1,073,151:80:0
91	302	21:55:40.066	165JS4E	7VECT		Inert vect update UTC	165	02	1,073,153:05:0
91	302	21:56:52.066	165JS4F	7VECT		Inert vect update UTC	165	02	1,073,154:22:0
91	302	21:57:18.066	117JS105A106B4A	7STRP	0.019502,-0.0095	Slew =0,7.9	165	02	1,073,154:61:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	21:57:23.400	117JS105A106B4B	7STRP	-0.020003,0.0,0,	Slew =,0.12	165	02	1,073,154:69:0
91	302	21:58:04.733	165JS4G	7VECT		Inert vect update UTC	165	02	1,073,155:40:0
91	302	21:58:34.066	GAPNGASNAP01		-----START------		165	02	: :
91	302	21:58:34.066	128IC149A131A4A	37SS	2,2,1,0,0,1,24	Special Sequence (loads PTABs for modes 12)	165	02	1,073,155:84:0
91	302	21:59:16.733	165JS4H	7VECT		Inert vect update UTC	165	02	1,073,156:57:0
91	302	21:59:34.733	128IC149A131B4A	37SS	3,4,1,0,6,0,12	Special Sequence (loads PTABs for modes 12)	165	02	1,073,156:84:0
91	302	22:00:26.733		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5019 +/- 38;	165	02	1,073,157:71:0
91	302	22:00:26.733	117JS11A	CSMOS	GE	***** GROUP END CSMOS	165	02	1,073,157:71:0
91	302	22:00:26.733	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	165	02	1,073,157:71:0
91	302	22:00:26.733	GAPNGSCHEM02		-----STOP-------		165	02	: :
91	302	22:00:27.933		DMS:	*READY	RDY, TRACK 2, REV, TIC *5018 +/- 38;	165	02	1,073,157:72:8
91	302	22:00:35.400	128IC149A131C4A	37IOP	13,0	Special Sequence 2, Grating Start Position	16D	00	1,073,157:84:0
91	302	22:00:38.733	165IC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	16D	00	1,073,157:89:0
91	302	22:00:39.400	165IC4B	7SCAN	NORM,241.348,-20	Check S/P Position	16D	00	1,073,157:90:0
91	302	22:01:04.066		DMS:	*RUNUP	R403, TRACK 2, REV, TIC 5018 +/- 38;	16D	00	1,073,158:36:0
91	302	22:01:04.066	175IB422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	16D	00	1,073,158:36:0
91	302	22:01:04.733	165IC4C	7VECT		Inert vect update UTC	16D	00	1,073,158:37:0
91	302	22:01:05.400	165IC4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	16D	00	1,073,158:38:0
91	302	22:01:06.066	176IB6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	16D	00	1,073,158:39:0
91	302	22:01:07.866		DMS:	*RECORD	R403, TRACK 2, REV, TIC *4996 +/- 41;	16D	00	1,073,158:41:7
91	302	22:01:34.066	118IB110A111A4A	7STRP	0.007,0.0,104,0,	Slew =,1.21	16D	00	1,073,158:81:0
91	302	22:02:41.400	165IC4E	7VECT		Inert vect update UTC	16D	00	1,073,160:00:0
91	302	22:02:43.400	118IB110A111A4B	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	16D	00	1,073,160:03:0
91	302	22:03:18.066	118IB110A111A4C	7STRP	0.007,0.0,104,0,	Slew =,1.21	16D	00	1,073,160:55:0
91	302	22:04:25.400	165IC4F	7VECT		Inert vect update UTC	16D	00	1,073,161:65:0
91	302	22:04:27.400	118IB110A111A4D	7STRP	0.0,0.007,0,0,0,	Slew =0,5.0	16D	00	1,073,161:68:0
91	302	22:05:02.066	118IB110A111A4E	7STRP	0.007,0.0,104,0,	Slew =,1.21	16D	00	1,073,162:29:0
91	302	22:06:18.066	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	16D	00	1,073,163:52:0
91	302	22:06:18.066		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1179 +/- 41;	16D	00	1,073,163:52:0
91	302	22:06:18.066	GAPNGASNAP01		-----STOP-------		16D	00	: :
91	302	22:06:20.866		DMS:	*READY	RDY, TRACK 2, REV, TIC *1175 +/- 42;	16D	00	1,073,163:56:2
91	302	22:06:39.400	128JT149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	165	02	1,073,163:84:0
91	302	22:06:39.400	GAPNGSCHEM04		-----START------		165	02	: :
91	302	22:06:44.733	165JT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	165	02	1,073,164:01:0
91	302	22:06:45.400	165JT4B	7SCAN	NORM,241.518999,	Check S/P Position	165	02	1,073,164:02:0
91	302	22:07:01.400	176JD6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	165	02	1,073,164:26:0
91	302	22:07:02.733	117JT	CSMOS	GS	***** GROUP START CSMOS	165	02	1,073,164:28:0
91	302	22:07:08.066	175JD422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	165	02	1,073,164:36:0
91	302	22:07:08.066		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 1175 +/- 42;	165	02	1,073,164:36:0
91	302	22:07:10.733	165JT4C	7VECT		Inert vect update UTC	165	02	1,073,164:40:0
91	302	22:07:11.400	165JT4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	165	02	1,073,164:41:0
91	302	22:07:12.066		DMS:	*RECORD	R28, TRACK 2, REV, TIC *1173 +/- 43;	165	02	1,073,164:42:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	22:07:12.066	117JT105A106A4A	7STRP	-0.026006,0.0,0,	Slew =,0.12	165	02	1,073,164:42:0
91	302	22:08:51.400	165JT4E	7VECT		Inert vect update UTC	165	02	1,073,166:09:0
91	302	22:10:31.400	165JT4F	7VECT		Inert vect update UTC	165	02	1,073,167:68:0
91	302	22:11:08.733	117JT105A106B4A	7STRP	0.027007,-0.008,	Slew =0,9.1	165	02	1,073,168:33:0
91	302	22:11:14.066	117JT105A106B4B	7STRP	-0.029509,0.0,0,	Slew =,0.12	165	02	1,073,168:41:0
91	302	22:12:12.066	165JT4G	7VECT		Inert vect update UTC	165	02	1,073,169:37:0
91	302	22:13:52.066	165JT4H	7VECT		Inert vect update UTC	165	02	1,073,171:05:0
91	302	22:15:36.733	GAPNGSCHEM04		-----STOP-------		165	02	: :
91	302	22:15:36.733	175JD422A6B	6DMSC	RDY,0	DMS Control Tape stop	165	02	1,073,172:71:0
91	302	22:15:36.733		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 730 +/- 43;	165	02	1,073,172:71:0
91	302	22:15:36.733	117JT11A	CSMOS	GE	***** GROUP END CSMOS	165	02	1,073,172:71:0
91	302	22:15:37.933		DMS:	*READY	RDY, TRACK 2, REV, TIC * 729 +/- 43;	165	02	1,073,172:72:8
91	302	22:15:45.400	GAPNGASMAP01		-----START------		165	02	: :
91	302	22:15:45.400	128JU149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	167	06	1,073,172:84:0
91	302	22:16:02.733	165JU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	167	06	1,073,173:19:0
91	302	22:16:03.400	165JU4B	7SCAN	NORM,238.775,-19	Check S/P Position	167	06	1,073,173:20:0
91	302	22:16:20.733	117JU	CSMOS	GS	***** GROUP START CSMOS	167	06	1,073,173:46:0
91	302	22:16:24.733	176JC6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	167	06	1,073,173:52:0
91	302	22:16:26.066	175JC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	167	06	1,073,173:54:0
91	302	22:16:26.066		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 729 +/- 43;	167	06	1,073,173:54:0
91	302	22:16:28.733	165JU4C	7VECT		Inert vect update UTC	167	06	1,073,173:58:0
91	302	22:16:29.400	165JU4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	167	06	1,073,173:59:0
91	302	22:16:30.066		DMS:	*RECORD	R28, TRACK 2, REV, TIC * 727 +/- 43;	167	06	1,073,173:60:0
91	302	22:16:30.066	117JU105A106A4A	7STRP	-0.030509,0.0,0,	Slew =,0.76	167	06	1,073,173:60:0
91	302	22:17:13.400	165JU4E	7VECT		Inert vect update UTC	167	06	1,073,174:34:0
91	302	22:17:14.733	117JU105A106B4A	7STRP	0.033012,-0.0088	Slew =,9.32	167	06	1,073,174:36:0
91	302	22:17:22.733	117JU105A106B4B	7STRP	-0.036016,0.0,0,	Slew =,0.76	167	06	1,073,174:48:0
91	302	22:17:57.400	165JU4F	7VECT		Inert vect update UTC	167	06	1,073,175:09:0
91	302	22:18:14.733	117JU105A106C4A	7STRP	0.037017,-0.0085	Slew =,9.32	167	06	1,073,175:35:0
91	302	22:18:24.066	117JU105A106C4B	7STRP	-0.037518,0.0,0,	Slew =,0.76	167	06	1,073,175:49:0
91	302	22:18:42.066	165JU4G	7VECT		Inert vect update UTC	167	06	1,073,175:76:0
91	302	22:19:18.066	117JU105A106D4A	7STRP	0.035515,-0.0092	Slew =,9.32	167	06	1,073,176:39:0
91	302	22:19:26.066	165JU4H	7VECT		Inert vect update UTC	167	06	1,073,176:51:0
91	302	22:19:26.733	117JU105A106D4B	7STRP	-0.034514,0.0,0,	Slew =,0.76	167	06	1,073,176:52:0
91	302	22:20:16.733	117JU11A	CSMOS	GE	***** GROUP END CSMOS	167	06	1,073,177:36:0
91	302	22:20:16.733		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 528 +/- 43;	167	06	1,073,177:36:0
91	302	22:20:16.733	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	167	06	1,073,177:36:0
91	302	22:20:16.733	GAPNGASMAP01		-----STOP-------		167	06	: :
91	302	22:20:17.933		DMS:	*READY	RDY, TRACK 2, REV, TIC * 527 +/- 43;	167	06	1,073,177:37:8
91	302	22:20:26.066	165EI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	167	06	1,073,177:50:0
91	302	22:20:26.066	GAPNGASPAT01		-----START------		167	06	: :
91	302	22:20:26.733	165EI4B	7SCAN	NORM,234.219999,	Check S/P Position	167	06	1,073,177:51:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	22:20:44.066	117EI	CSMOS	GS	***** GROUP START CSMOS	167	06	1,073,177:77:0
91	302	22:20:51.400		DMS:	*RUNUP	R403, TRACK 2, REV, TIC 527 +/- 43;	167	06	1,073,177:88:0
91	302	22:20:51.400	175IA422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	167	06	1,073,177:88:0
91	302	22:20:52.066	165EI4C	7VECT		Inert vect update UTC	167	06	1,073,177:89:0
91	302	22:20:52.733	165EI4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	167	06	1,073,177:90:0
91	302	22:20:53.400	176IA6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	167	06	1,073,178:00:0
91	302	22:20:53.400	117EI105A106A4A	7STRP	0.016001,0.0,0,0	Slew =,0.84	167	06	1,073,178:00:0
91	302	22:20:55.200		DMS:	*RECORD	R403, TRACK 2, REV, TIC * 505 +/- 46;	167	06	1,073,178:02:7
91	302	22:21:20.000		DMS:	*REVERSE	R403, TRACK 2, REV, TIC * 200 +/- 46;	167	06	1,073,178:39:9
91	302	22:21:20.733	117EI105A106B4A	7STRP	0.008,0.0045,0,0	Slew =,4.73	167	06	1,073,178:41:0
91	302	22:21:26.600		DMS:	*RESUME	R403, TRACK *3, *FWD, TIC * 218 +/- 50;	167	06	1,073,178:49:8
91	302	22:21:36.733	165EI4E	7VECT		Inert vect update UTC	167	06	1,073,178:65:0
91	302	22:21:38.066	117EI105A106B4B	7STRP	-0.029408,-0.001	Slew =,0.84	167	06	1,073,178:67:0
91	302	22:22:17.400	117EI105A106C4A	7STRP	0.0085,0.033924,	Slew =,4.73	167	06	1,073,179:35:0
91	302	22:22:28.733	165EI4F	7VECT		Inert vect update UTC	167	06	1,073,179:52:0
91	302	22:22:30.066	117EI105A106C4B	7STRP	0.022004,0.0,0,0	Slew =,0.84	167	06	1,073,179:54:0
91	302	22:23:00.066	117EI105A106D4A	7STRP	0.0025,-0.0068,0	Slew =,4.73	167	06	1,073,180:08:0
91	302	22:23:04.733	117EI105A106D4B	7STRP	-0.029408,0.0013	Slew =,0.84	167	06	1,073,180:15:0
91	302	22:23:20.733	165EI4G	7VECT		Inert vect update UTC	167	06	1,073,180:39:0
91	302	22:23:44.066	117EI105A106E4A	7STRP	-0.005,-0.0068,0	Slew =,4.73	167	06	1,073,180:74:0
91	302	22:23:48.733	117EI105A106E4B	7STRP	0.040722,-0.0005	Slew =,0.84	167	06	1,073,180:81:0
91	302	22:24:12.733	165EI4H	7VECT		Inert vect update UTC	167	06	1,073,181:26:0
91	302	22:24:42.066	117EI105A106F4A	7STRP	-0.0032,-0.01510	Slew =,4.73	167	06	1,073,181:70:0
91	302	22:24:49.400	117EI105A106F4B	7STRP	-0.042325,-0.001	Slew =,0.84	167	06	1,073,181:81:0
91	302	22:25:04.733	165EI4I	7VECT		Inert vect update UTC	167	06	1,073,182:13:0
91	302	22:25:45.400	117EI105A106G4A	7STRP	-0.001,0.011001,	Slew =,4.73	167	06	1,073,182:74:0
91	302	22:25:50.733	117EI105A106G4B	7STRP	0.050543,-0.0005	Slew =,0.84	167	06	1,073,182:82:0
91	302	22:25:56.733	165EI4J	7VECT		Inert vect update UTC	167	06	1,073,183:00:0
91	302	22:26:48.733	165EI4K	7VECT		Inert vect update UTC	167	06	1,073,183:78:0
91	302	22:26:56.733	117EI105A106H4A	7STRP	-0.0005,-0.0035,	Slew =,4.73	167	06	1,073,183:90:0
91	302	22:27:01.400	117EI105A106H4B	7STRP	-0.059269,-0.002	Slew =,0.84	167	06	1,073,184:06:0
91	302	22:27:40.733	165EI4L	7VECT		Inert vect update UTC	167	06	1,073,184:65:0
91	302	22:28:15.400	175IA422A6B	6DMSC	RDY,0	DMS Control Tape stop	167	06	1,073,185:26:0
91	302	22:28:15.400		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *5248 +/- 50;	167	06	1,073,185:26:0
91	302	22:28:18.066	117EI11A	CSMOS	GE	***** GROUP END CSMOS	167	06	1,073,185:30:0
91	302	22:28:18.200		DMS:	*READY	RDY, TRACK 3, FWD, TIC *5252 +/- 51;	167	06	1,073,185:30:2
91	302	22:28:50.066	176MA6A	6TMCHG	ELSMPP	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS REC	167	06	1,073,185:78:0
91	302	22:28:51.400	175MA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	167	06	1,073,185:80:0
91	302	22:28:51.400		DMS:	*RUNUP	R28, TRACK 3, FWD, TIC 5252 +/- 51;	167	06	1,073,185:80:0
91	302	22:28:55.400		DMS:	*RECORD	R28, TRACK 3, FWD, TIC *5253 +/- 52;	167	06	1,073,185:86:0
91	302	22:28:57.400	165LA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	167	06	1,073,185:89:0
91	302	22:28:58.066	165LA4B	7SCAN	NORM,221.198999,	Check S/P Position	167	06	1,073,185:90:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	22:29:00.733	117LA	CSMOS	GS	***** GROUP START CSMOS	167	06	1,073,186:03:0
91	302	22:29:23.400	165LA4C	7VECT		Inert vect update UTC	167	06	1,073,186:37:0
91	302	22:29:24.066	165LA4D	7TMOT	ENA,TMC	Enable IVP - Target Motion	167	06	1,073,186:38:0
91	302	22:29:24.733	117LA105A106A4A	7STRP	0.044329,0.0,0,0	Slew =,2.55	167	06	1,073,186:39:0
91	302	22:29:46.733	117LA105A106A4B	7STRP	-0.044028,0.0013	Slew =,12.0	167	06	1,073,186:72:0
91	302	22:29:54.066	117LA105A106A4C	7STRP	0.044329,0.0,0,0	Slew =,2.55	167	06	1,073,186:83:0
91	302	22:30:15.400	165LA4E	7VECT		Inert vect update UTC	167	06	1,073,187:24:0
91	302	22:30:16.066	117LA105A106A4D	7STRP	-0.044028,0.0013	Slew =,12.0	167	06	1,073,187:25:0
91	302	22:30:23.400	117LA105A106A4E	7STRP	0.044329,0.0,0,0	Slew =,2.55	167	06	1,073,187:36:0
91	302	22:30:45.400	117LA105A106A4F	7STRP	-0.044028,0.0013	Slew =,12.0	167	06	1,073,187:69:0
91	302	22:30:52.733	117LA105A106A4G	7STRP	0.044329,0.0,0,0	Slew =,2.55	167	06	1,073,187:80:0
91	302	22:30:55.400	157JC156A121A4A	37IOP	0,0	Safe, Grating Start Position =0	160	00	1,073,187:84:0
91	302	22:31:07.400	165LA4F	7VECT		Inert vect update UTC	160	00	1,073,188:11:0
91	302	22:31:14.733	117LA105A106A4H	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,188:22:0
91	302	22:31:22.066	117LA105A106A4I	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,188:33:0
91	302	22:31:44.066	117LA105A106A4J	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,188:66:0
91	302	22:31:51.400	117LA105A106A4K	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,188:77:0
91	302	22:31:59.400	165LA4G	7VECT		Inert vect update UTC	160	00	1,073,188:89:0
91	302	22:32:00.733	GAPNGASPAT01		-----STOP-------		160	00	: :
91	302	22:32:13.400	117LA105A106A4L	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,189:19:0
91	302	22:32:20.733	117LA105A106A4M	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,189:30:0
91	302	22:32:42.733	117LA105A106A4N	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,189:63:0
91	302	22:32:50.066	117LA105A106A4O	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,189:74:0
91	302	22:32:51.400	165LA4H	7VECT		Inert vect update UTC	160	00	1,073,189:76:0
91	302	22:33:12.066	117LA105A106A4P	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,190:16:0
91	302	22:33:19.400	117LA105A106A4Q	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,190:27:0
91	302	22:33:41.400	117LA105A106A4R	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,190:60:0
91	302	22:33:43.400	165LA4I	7VECT		Inert vect update UTC	160	00	1,073,190:63:0
91	302	22:33:48.733	117LA105A106A4S	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,190:71:0
91	302	22:34:10.733	117LA105A106A4T	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,191:13:0
91	302	22:34:18.066	117LA105A106A4U	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,191:24:0
91	302	22:34:35.400	165LA4J	7VECT		Inert vect update UTC	160	00	1,073,191:50:0
91	302	22:34:40.066	117LA105A106A4V	7STRP	-0.044028,0.0013	Slew =,12.0	160	00	1,073,191:57:0
91	302	22:34:47.400	117LA105A106A4W	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,191:68:0
91	302	22:35:09.400	117LA105A106B4A	7STRP	-0.044529,0.0025	Slew =,12.0	160	00	1,073,192:10:0
91	302	22:35:16.733	117LA105A106B4B	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,192:21:0
91	302	22:35:27.400	165LA4K	7VECT		Inert vect update UTC	160	00	1,073,192:37:0
91	302	22:35:38.733	117LA105A106B4C	7STRP	-0.044529,0.0025	Slew =,12.0	160	00	1,073,192:54:0
91	302	22:35:46.066	117LA105A106B4D	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,192:65:0
91	302	22:36:08.066	117LA105A106B4E	7STRP	-0.044529,0.0025	Slew =,12.0	160	00	1,073,193:07:0
91	302	22:36:15.400	117LA105A106B4F	7STRP	0.044329,0.0,0,0	Slew =,2.55	160	00	1,073,193:18:0
91	302	22:36:19.400	165LA4L	7VECT		Inert vect update UTC	160	00	1,073,193:24:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	302	22:36:37.400	117LA105A106C4A	7STRP	-0.04503,0.00345	Slew =,12.0	160	00	1,073,193:51:0
91	302	22:36:44.733	117LA105A106C4B	7STRP	0.044329,0.0005,	Slew =,2.55	160	00	1,073,193:62:0
91	302	22:37:06.733	117LA105A106C4C	7STRP	-0.04503,0.00345	Slew =,12.0	160	00	1,073,194:04:0
91	302	22:37:11.400	165LA4M	7VECT		Inert vect update UTC	160	00	1,073,194:11:0
91	302	22:37:14.066	117LA105A106C4D	7STRP	0.044329,0.0005,	Slew =,2.55	160	00	1,073,194:15:0
91	302	22:37:36.066	117LA105A106D4A	7STRP	-0.046032,0.0047	Slew =,12.0	160	00	1,073,194:48:0
91	302	22:37:43.400	117LA105A106D4B	7STRP	0.044329,0.001,0	Slew =,2.55	160	00	1,073,194:59:0
91	302	22:38:05.400	117LA105A106E4A	7STRP	-0.046032,0.0031	Slew =,12.0	160	00	1,073,195:01:0
91	302	22:38:12.733	117LA105A106E4B	7STRP	0.044329,0.00725	Slew =,2.55	160	00	1,073,195:12:0
91	302	22:38:34.733	117LA105A106F4A	7STRP	-0.046032,0.0035	Slew =,12.0	160	00	1,073,195:45:0
91	302	22:38:42.066	117LA105A106F4B	7STRP	0.044329,0.0055,	Slew =,2.55	160	00	1,073,195:56:0
91	302	22:39:04.066	117LA11A	CSMOS	GE	***** GROUP END CSMOS	160	00	1,073,195:89:0
91	302	22:45:06.066		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6106 +/- 52;	160	00	1,073,201:86:0
91	302	22:45:06.066	175MA422A6B	6DMSC	RDY,0	DMS Control Tape stop	160	00	1,073,201:86:0
91	302	22:45:07.266		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6107 +/- 52;	160	00	1,073,201:87:8
91	302	22:45:08.066	175MB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	160	00	1,073,201:89:0
91	302	22:45:08.066		DMS:	*RUNUP	R7, TRACK 3, FWD, TIC 6107 +/- 52;	160	00	1,073,201:89:0
91	302	22:45:09.400	176MB6A	6TMCHG	ELSLRS	10 BPS TDM / LRS Rec 7.68kb/s	160	00	1,073,202:00:0
91	302	22:45:09.533		DMS:	*RECORD	R7, TRACK 3, FWD, TIC *6108 +/- 52;	160	00	1,073,202:00:2
91	302	22:57:16.066	165LB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	160	00	1,073,213:89:0
91	302	22:57:16.733	165LB4B	7SCAN	NORM,75.438999,2	Check S/P Position	160	00	1,073,213:90:0
91	302	23:00:23.400	117LB	CSMOS	GS	***** GROUP START CSMOS	160	00	1,073,217:06:0
91	302	23:00:32.733	117LB105A106A4A	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,217:20:0
91	302	23:01:00.066	117LB105A106A4B	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,217:61:0
91	302	23:01:05.400	117LB105A106A4C	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,217:69:0
91	302	23:01:32.733	117LB105A106A4D	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,218:19:0
91	302	23:01:38.066	117LB105A106A4E	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,218:27:0
91	302	23:02:05.400	117LB105A106A4F	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,218:68:0
91	302	23:02:10.733	117LB105A106A4G	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,218:76:0
91	302	23:02:38.066	117LB105A106A4H	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,219:26:0
91	302	23:02:43.400	117LB105A106A4I	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,219:34:0
91	302	23:03:10.733	117LB105A106A4J	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,219:75:0
91	302	23:03:16.066	117LB105A106A4K	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,219:83:0
91	302	23:03:43.400	117LB105A106A4L	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,220:33:0
91	302	23:03:48.733	117LB105A106A4M	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,220:41:0
91	302	23:04:16.066	117LB105A106A4N	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,220:82:0
91	302	23:04:21.400	117LB105A106A4O	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,220:90:0
91	302	23:04:48.733	117LB105A106A4P	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,221:40:0
91	302	23:04:54.066	117LB105A106A4Q	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,221:48:0
91	302	23:05:21.400	117LB105A106A4R	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,221:89:0
91	302	23:05:26.733	117LB105A106A4S	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,222:06:0
91	302	23:05:54.066	117LB105A106A4T	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,222:47:0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
91	302	23:05:59.400	117LB105A106A4U	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,222	55	0
91	302	23:06:26.733	117LB105A106A4V	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,223	05	0
91	302	23:06:32.066	117LB105A106A4W	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,223	13	0
91	302	23:06:59.400	117LB105A106A4X	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,223	54	0
91	302	23:07:04.733	117LB105A106A4Y	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,223	62	0
91	302	23:07:32.066	117LB105A106A4Z	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,224	12	0
91	302	23:07:37.400	117LB105A106A4AA	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,224	20	0
91	302	23:08:04.733	117LB105A106A4AB	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,224	61	0
91	302	23:08:10.066	117LB105A106A4AC	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,224	69	0
91	302	23:08:37.400	117LB105A106A4AD	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,225	19	0
91	302	23:08:42.733	117LB105A106A4AE	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,225	27	0
91	302	23:09:10.066	117LB105A106A4AF	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,225	68	0
91	302	23:09:15.400	117LB105A106A4AG	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,225	76	0
91	302	23:09:42.733	117LB105A106A4AH	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,226	26	0
91	302	23:09:48.066	117LB105A106A4AI	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,226	34	0
91	302	23:10:15.400	117LB105A106A4AJ	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,226	75	0
91	302	23:10:20.733	117LB105A106A4AK	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,226	83	0
91	302	23:10:48.066	117LB105A106A4AL	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,227	33	0
91	302	23:10:53.400	117LB105A106A4AM	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,227	41	0
91	302	23:11:20.733	117LB105A106A4AN	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,227	82	0
91	302	23:11:26.066	117LB105A106A4AO	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,227	90	0
91	302	23:11:53.400	117LB105A106A4AP	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,228	40	0
91	302	23:11:58.733	117LB105A106A4AQ	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,228	48	0
91	302	23:12:26.066	117LB105A106A4AR	7STRP	0.026806,-0.0016	Slew =17.31	160	00	1,073,228	89	0
91	302	23:12:31.400	117LB105A106A4AS	7STRP	-0.024505,0.0,0,	Slew =,1.01	160	00	1,073,229	06	0
91	302	23:12:58.733	117LB11A	CSMOS	GE	***** GROUP END CSMOS	160	00	1,073,229	47	0
91	302	23:14:28.066	20LA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	160	00	1,073,230	90	0
91	302	23:29:38.733	175MB422A6B	6DMSC	RDY,0	DMS Control Tape stop	160	00	1,073,246	00	0
91	302	23:29:38.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6734 +/- 52;	160	00	1,073,246	00	0
91	302	23:29:40.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6735 +/- 52;	160	00	1,073,246	01	9
91	303	01:18:03.400	20F4A	7MODE	CRU	AACS CRUISE MODE	160	00	1,073,353	20	0
91	303	01:28:56.733	190JA4B	7MODE	CRU	AACS CRUISE MODE	160	00	1,073,363	90	0
91	303	01:28:57.400	190JA4C	7SAFE	UNSTOW	S/P TO 153 deg cone	160	00	1,073,364	00	0
91	303	01:32:54.066	190JA4D	7MODE	SPNL	AACS ALL-SPIN LOW	160	00	1,073,367	82	0
91	303	01:34:56.733	GANNPCTCAL01		-----START------		160	00			
91	303	01:34:56.733	128JV149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	163	00	1,073,369	84	0
91	303	01:35:01.400	176JA6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	163	00	1,073,370	00	0
91	303	01:40:59.400	190JA4E	7SAFE	UNSTOW	S/P TO 153 deg cone	163	00	1,073,375	82	0
91	303	01:58:16.666	192JA4A	7CONE	17.4,54.88	Check S/P Position	163	00	1,073,393	00	0
91	303	01:58:17.333	192JA4B	7CLK	17.4,244.07	Check S/P Position	163	00	1,073,393	01	0
91	303	02:04:16.666		DMS:	*RUNUP	R28, TRACK 3, FWD, TIC 6735 +/- 52;	163	00	1,073,398	85	0
91	303	02:04:16.666	175JA422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	163	00	1,073,398	85	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
91	303	02:04:20.666		DMS:	*RECORD	R28, TRACK 3, FWD, TIC *6737 +/- 53;	163	00	1,073,399	00	0
91	303	02:05:16.666	157JA156A121A4A	37IST	1,2,0,OFF,0,0,3	Chopper ON, Sync, Chopper (Ref)	1R3	00	1,073,399	84	0
91	303	02:05:20.666		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6789 +/- 53;	1R3	00	1,073,399	90	0
91	303	02:05:20.666	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	00	1,073,399	90	0
91	303	02:05:21.866		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6790 +/- 53;	1R3	00	1,073,400	00	8
91	303	02:07:18.666		DMS:	*RUNUP	R28, TRACK 3, FWD, TIC 6790 +/- 53;	1R3	00	1,073,401	85	0
91	303	02:07:18.666	175JX422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	1R3	00	1,073,401	85	0
91	303	02:07:22.666		DMS:	*RECORD	R28, TRACK 3, FWD, TIC *6792 +/- 53;	1R3	00	1,073,402	00	0
91	303	02:08:22.666		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6845 +/- 53;	1R3	00	1,073,402	90	0
91	303	02:08:22.666	175JX422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	00	1,073,402	90	0
91	303	02:08:23.866		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6846 +/- 53;	1R3	00	1,073,403	00	8
91	303	02:09:19.333	157JA156A121B4A	37IOP	0,0	Safe, Grating Start Position =0	1R0	00	1,073,403	84	0
91	303	02:09:24.000	191JA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	1R0	00	1,073,404	00	0
91	303	02:11:25.333	185JA10A3A	40HRP	1	RCT Heater ON (primary relay)	1R0	00	1,073,406	00	0
91	303	02:11:25.333	GANNPCTCAL01		-----STOP-------		1R0	00			
91	303	02:13:26.666	191JA4B	7MODE	CRU	AACS CRUISE MODE	1R0	00	1,073,408	00	0
91	303	08:39:36.666	128JW149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	1R3	00	1,073,789	84	0
91	303	08:39:36.666	GANNRCTCAL01		-----START------		1R3	00			
91	303	08:39:41.333	192JB4A	7CONE	17.4,0.0	Check S/P Position	1R3	00	1,073,790	00	0
91	303	08:39:41.333	176JB6A	6TMCHG	ELSMPW	10 BPS TDM-NO NIMS R/T / 28.8 KBPS PWS + N	1R3	00	1,073,790	00	0
91	303	08:42:39.333		DMS:	*RUNUP	R28, TRACK 3, FWD, TIC 6846 +/- 53;	1R3	00	1,073,792	85	0
91	303	08:42:39.333	175JB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	1R3	00	1,073,792	85	0
91	303	08:42:43.333		DMS:	*RECORD	R28, TRACK 3, FWD, TIC *6847 +/- 54;	1R3	00	1,073,793	00	0
91	303	08:43:39.333	157JB156A121A4A	37IST	1,0,0,OFF,0,1,3	Chopper ON, Sync, 63Hz (Ref)Gain State 1	163	00	1,073,793	84	0
91	303	08:43:43.333		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6900 +/- 54;	163	00	1,073,793	90	0
91	303	08:43:43.333	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	163	00	1,073,793	90	0
91	303	08:43:44.533		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6901 +/- 54;	163	00	1,073,794	00	8
91	303	08:45:41.333		DMS:	*RUNUP	R28, TRACK 3, FWD, TIC 6901 +/- 54;	163	00	1,073,795	85	0
91	303	08:45:41.333	175JY422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	163	00	1,073,795	85	0
91	303	08:45:45.333		DMS:	*RECORD	R28, TRACK 3, FWD, TIC *6902 +/- 54;	163	00	1,073,796	00	0
91	303	08:46:45.333		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *6955 +/- 54;	163	00	1,073,796	90	0
91	303	08:46:45.333	175JY422A6B	6DMSC	RDY,0	DMS Control Tape stop	163	00	1,073,796	90	0
91	303	08:46:46.533		DMS:	*READY	RDY, TRACK 3, FWD, TIC *6956 +/- 55;	163	00	1,073,797	00	8
91	303	08:52:45.333	157JB156A121B4A	37IOP	0,0	Safe, Grating Start Position =0	160	00	1,073,802	84	0
91	303	08:55:51.333	20JA4A	7SAFE	UNSTOW	S/P TO 153 deg cone	160	00	1,073,805	90	0
91	303	08:55:52.000	185JA10B3A	40HRPR	1	RCT Heater OFF (primary relay)	160	00	1,073,806	00	0
91	303	08:58:50.666	20YU4A	37IOP	CMD,37IOP,20YU4A	, Grating Start Position =37	160	00	1,073,808	86	0
91	303	08:58:54.000	GANNRCTCAL01		-----STOP-------		160	00			
91	303	08:59:51.333	20YU3A	37AR	CMD,37AR,20YU3A,	NIMS Power OFF			1,073,809	86	0
91	303	09:00:11.333	20YU3B	37H	CMD,37H,20YU3B,,	Replacement Heaters ON			1,073,810	25	0
91	303	09:03:06.000	20D3A	37F2P	CMD,37F2P,20D3A,	Shield Flash Heater ON (primary relay)			1,073,813	14	0
91	303	09:03:10.666	20D3B	37F2P	CMD,37F2P,20D3B,	Shield Flash Heater ON (primary relay)			1,073,813	21	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM MF I
91	303	09:08:06.000	20E3A	40T1P	CMD,40T1P,20E3A,	PCT Heater 1 ON (primary relay)			1,073,818:09:0
91	303	09:08:10.666	20E3B	40T1P	CMD,40T1P,20E3B,	PCT Heater 1 ON (primary relay)			1,073,818:16:0
91	303	09:11:06.000	20E3C	40T2	CMD,40T2,20E3C,P	PCT Heater 2 ON			1,073,821:06:0
91	303	09:11:10.666	20E3D	40T2	CMD,40T2,20E3D,S	PCT Heater 2 ON			1,073,821:13:0
91	308	22:09:59.733		DMS:	READY	RDY, TRACK 3, FWD, TIC 6956 +/- 55;			1,081,712:26:0

PA Summary Table

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

INPUT FILE: GASPRA_911008.SEF

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
GAPSLTCRVC01	TARGET	165IG	01072711:89	01072716:14	91-302/14:29:41	GASPRA
GAPSLTCRVC01	INITRS	128IE	01072714:84	01072716:86	91-302/14:32:40	GASPRA
GAPSLTCRVC01	SSI	147IG	01072715:76	01072716:86	91-302/14:33:35	GASPRA
GAPSLTCRVC01	SCIREC	175IQ	01072715:84	01072716:18	91-302/14:33:40	GASPRA
GAPSLTCRVC01	SCITLM	176IQ	01072716:00	01072716:13	91-302/14:33:45	GASPRA
GAPNGASPEC01	TARGET	165JA	01072719:56	01072720:06	91-302/14:37:24	GASPRA
GAPNGASPEC01	CSMOS	117JA	01072719:83	01072723:23	91-302/14:37:42	GASPRA
GAPNGASPEC01	SCIREC	175JK	01072719:85	01072723:25	91-302/14:37:44	GASPRA
GAPNGASPEC01	SCITLM	176JK	01072720:00	01072720:13	91-302/14:37:48	GASPRA
GAPNGASPER01	TARGET	165JB	01072732:04	01072734:06	91-302/14:49:58	GASPRA
GAPNGASPER01	CSMOS	117JB	01072733:83	01072734:22	91-302/14:51:52	GASPRA
GAPNGASPER01	INITRS	128JB	01072733:84	01072734:86	91-302/14:51:52	GASPRA
GAPNGASPER01	SCIREC	175JW	01072734:00	01072734:24	91-302/14:51:57	GASPRA
GAPNGASPER01	SCITLM	176JW	01072734:00	01072734:13	91-302/14:51:57	GASPRA
GAPSLTCRVB01	TARGET	165EA	01072748:89	01072751:00	91-302/15:07:06	GASPRA
GAPSLTCRVB01	INITRS	128EA	01072749:89	01072751:86	91-302/15:08:06	GASPRA
GAPSLTCRVB01	SSI	147EA	01072750:76	01072751:44	91-302/15:08:58	GASPRA
GAPSLTCRVB01	CSMOS	117EA	01072750:77	01072752:29	91-302/15:08:59	GASPRA
GAPSLTCRVB01	SCIREC	175IP	01072750:90	01072751:48	91-302/15:09:08	GASPRA
GAPSLTCRVB01	SCITLM	176IP	01072751:00	01072751:13	91-302/15:09:08	GASPRA
GAPSLTCRVB01	SCIREC	175IS	01072751:52	01072752:31	91-302/15:09:43	GASPRA
GAPSLTCRVB01	SCITLM	176IR	01072751:52	01072751:65	91-302/15:09:43	GASPRA
GAPNGASPER02	TARGET	165JC	01072767:04	01072769:06	91-302/15:25:22	GASPRA
GAPNGASPER02	CSMOS	117JC	01072768:83	01072769:22	91-302/15:27:15	GASPRA
GAPNGASPER02	INITRS	128JC	01072768:84	01072769:86	91-302/15:27:16	GASPRA
GAPNGASPER02	SCIREC	175JV	01072769:00	01072769:24	91-302/15:27:20	GASPRA
GAPNGASPER02	SCITLM	176JV	01072769:00	01072769:13	91-302/15:27:20	GASPRA
GAPSLTCRVB02	TARGET	165EB	01072783:89	01072786:00	91-302/15:42:29	GASPRA
GAPSLTCRVB02	INITRS	128EB	01072784:89	01072786:86	91-302/15:43:30	GASPRA
GAPSLTCRVB02	SSI	147EB	01072785:76	01072786:44	91-302/15:44:22	GASPRA
GAPSLTCRVB02	CSMOS	117EB	01072785:77	01072787:36	91-302/15:44:22	GASPRA
GAPSLTCRVB02	SCIREC	175IO	01072785:90	01072786:48	91-302/15:44:31	GASPRA
GAPSLTCRVB02	SCITLM	176IO	01072786:00	01072786:13	91-302/15:44:32	GASPRA
GAPSLTCRVB02	SCIREC	175IT	01072786:52	01072787:38	91-302/15:45:06	GASPRA
GAPSLTCRVB02	SCITLM	176IS	01072786:52	01072786:65	91-302/15:45:06	GASPRA
GAPNGASPER03	TARGET	165JD	01072802:04	01072804:06	91-302/16:00:45	GASPRA
GAPNGASPER03	CSMOS	117JD	01072803:83	01072804:22	91-302/16:02:38	GASPRA
GAPNGASPER03	INITRS	128JD	01072803:84	01072804:86	91-302/16:02:39	GASPRA
GAPNGASPER03	SCIREC	175JU	01072804:00	01072804:24	91-302/16:02:44	GASPRA
GAPNGASPER03	SCITLM	176JU	01072804:00	01072804:13	91-302/16:02:44	GASPRA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
GAPSLTCRVC02	TARGET	165IF	01072816:89	01072834:77	91-302/16:15:51	GASPRA
GAPSLTCRVC02	INITRS	128ID	01072819:90	01072821:86	91-302/16:18:54	GASPRA
GAPSLTCRVC02	SSI	147IF	01072820:76	01072821:86	91-302/16:19:45	GASPRA
GAPSLTCRVC02	SCIREC	175IN	01072820:84	01072821:18	91-302/16:19:50	GASPRA
GAPSLTCRVC02	SCITLM	176IN	01072821:00	01072821:13	91-302/16:19:55	GASPRA
GAPNGASPEC02	TARGET	165JE	01072824:56	01072825:06	91-302/16:23:34	GASPRA
GAPNGASPEC02	CSMOS	117JE	01072824:83	01072828:47	91-302/16:23:52	GASPRA
GAPNGASPEC02	SCIREC	175JJ	01072825:00	01072828:49	91-302/16:23:58	GASPRA
GAPNGASPEC02	SCITLM	176JJ	01072825:00	01072825:13	91-302/16:23:58	GASPRA
GAPNGASPER04	TARGET	165JF	01072837:04	01072839:06	91-302/16:36:08	GASPRA
GAPNGASPER04	CSMOS	117JF	01072838:83	01072839:24	91-302/16:38:02	GASPRA
GAPNGASPER04	INITRS	128JF	01072838:84	01072839:86	91-302/16:38:02	GASPRA
GAPNGASPER04	SCIREC	175JT	01072839:00	01072839:26	91-302/16:38:07	GASPRA
GAPNGASPER04	SCITLM	176JT	01072839:00	01072839:13	91-302/16:38:07	GASPRA
GAPSLTCRVB03	TARGET	165EC	01072853:89	01072856:00	91-302/16:53:16	GASPRA
GAPSLTCRVB03	INITRS	128EC	01072854:89	01072856:86	91-302/16:54:16	GASPRA
GAPSLTCRVB03	SSI	147EC	01072855:76	01072856:44	91-302/16:55:08	GASPRA
GAPSLTCRVB03	CSMOS	117EC	01072855:77	01072857:35	91-302/16:55:09	GASPRA
GAPSLTCRVB03	SCIREC	175IM	01072855:90	01072856:48	91-302/16:55:18	GASPRA
GAPSLTCRVB03	SCITLM	176IM	01072856:00	01072856:13	91-302/16:55:18	GASPRA
GAPSLTCRVB03	SCIREC	175IU	01072856:52	01072857:37	91-302/16:55:53	GASPRA
GAPSLTCRVB03	SCITLM	176IT	01072856:52	01072856:65	91-302/16:55:53	GASPRA
GAPNGASPER05	TARGET	165JG	01072872:04	01072874:06	91-302/17:11:32	GASPRA
GAPNGASPER05	CSMOS	117JG	01072873:83	01072874:24	91-302/17:13:25	GASPRA
GAPNGASPER05	INITRS	128JG	01072873:84	01072874:86	91-302/17:13:26	GASPRA
GAPNGASPER05	SCIREC	175JS	01072874:00	01072874:26	91-302/17:13:30	GASPRA
GAPNGASPER05	SCITLM	176JS	01072874:00	01072874:13	91-302/17:13:30	GASPRA
GAPSLTCRVB04	TARGET	165ED	01072888:89	01072891:00	91-302/17:28:39	GASPRA
GAPSLTCRVB04	INITRS	128ED	01072889:89	01072891:86	91-302/17:29:40	GASPRA
GAPSLTCRVB04	SSI	147ED	01072890:76	01072891:44	91-302/17:30:32	GASPRA
GAPSLTCRVB04	CSMOS	117ED	01072890:77	01072892:35	91-302/17:30:32	GASPRA
GAPSLTCRVB04	SCIREC	175IL	01072890:90	01072891:48	91-302/17:30:41	GASPRA
GAPSLTCRVB04	SCITLM	176IL	01072891:00	01072891:13	91-302/17:30:42	GASPRA
GAPSLTCRVB04	SCIREC	175IV	01072891:52	01072892:37	91-302/17:31:16	GASPRA
GAPSLTCRVB04	SCITLM	176IU	01072891:52	01072891:65	91-302/17:31:16	GASPRA
GAPNGASPER06	TARGET	165JH	01072907:04	01072909:06	91-302/17:46:55	GASPRA
GAPNGASPER06	CSMOS	117JH	01072908:83	01072909:24	91-302/17:48:48	GASPRA
GAPNGASPER06	INITRS	128JH	01072908:84	01072909:86	91-302/17:48:49	GASPRA
GAPNGASPER06	SCIREC	175JR	01072909:00	01072909:26	91-302/17:48:54	GASPRA
GAPNGASPER06	SCITLM	176JR	01072909:00	01072909:13	91-302/17:48:54	GASPRA
GAPSLTCRVC03	TARGET	165IE	01072921:89	01072928:00	91-302/18:02:01	GASPRA
GAPSLTCRVC03	SSI	147IE	01072925:76	01072927:89	91-302/18:05:55	GASPRA
GAPSLTCRVC03	SCIREC	175IK	01072925:90	01072928:02	91-302/18:06:04	GASPRA
GAPSLTCRVC03	SCITLM	176IK	01072926:00	01072926:13	91-302/18:06:05	GASPRA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
GAPNGASPEC03	TARGET	165JI	01072929:56	01072930:06	91-302/18:09:44	GASPRA
GAPNGASPEC03	CSMOS	117JI	01072929:83	01072934:11	91-302/18:10:02	GASPRA
GAPNGASPEC03	INITRS	128JI	01072929:84	01072930:86	91-302/18:10:03	GASPRA
GAPNGASPEC03	SCIREC	175JI	01072930:00	01072934:13	91-302/18:10:08	GASPRA
GAPNGASPEC03	SCITLM	176JI	01072930:00	01072930:13	91-302/18:10:08	GASPRA
GAPNGASPER07	TARGET	165JJ	01072942:04	01072944:06	91-302/18:22:18	GASPRA
GAPNGASPER07	CSMOS	117JJ	01072943:83	01072944:26	91-302/18:24:12	GASPRA
GAPNGASPER07	INITRS	128JJ	01072943:84	01072944:86	91-302/18:24:12	GASPRA
GAPNGASPER07	SCIREC	175JQ	01072944:00	01072944:28	91-302/18:24:17	GASPRA
GAPNGASPER07	SCITLM	176JQ	01072944:00	01072944:13	91-302/18:24:17	GASPRA
GAPSLTCRVB05	TARGET	165EE	01072958:89	01072961:00	91-302/18:39:26	GASPRA
GAPSLTCRVB05	INITRS	128EE	01072959:89	01072961:86	91-302/18:40:26	GASPRA
GAPSLTCRVB05	SSI	147EE	01072960:76	01072961:44	91-302/18:41:18	GASPRA
GAPSLTCRVB05	CSMOS	117EE	01072960:77	01072962:32	91-302/18:41:19	GASPRA
GAPSLTCRVB05	SCIREC	175II	01072960:90	01072961:48	91-302/18:41:28	GASPRA
GAPSLTCRVB05	SCITLM	176II	01072961:00	01072961:13	91-302/18:41:28	GASPRA
GAPSLTCRVB05	SCIREC	175IW	01072961:52	01072962:34	91-302/18:42:03	GASPRA
GAPSLTCRVB05	SCITLM	176IV	01072961:52	01072961:65	91-302/18:42:03	GASPRA
GAPNGASPER08	TARGET	165JK	01072977:04	01072979:06	91-302/18:57:42	GASPRA
GAPNGASPER08	CSMOS	117JK	01072978:83	01072979:24	91-302/18:59:35	GASPRA
GAPNGASPER08	INITRS	128JK	01072978:84	01072979:86	91-302/18:59:36	GASPRA
GAPNGASPER08	SCIREC	175JP	01072979:00	01072979:28	91-302/18:59:40	GASPRA
GAPNGASPER08	SCITLM	176JP	01072979:00	01072979:13	91-302/18:59:40	GASPRA
GAPSLTCRVB06	TARGET	165EF	01072993:89	01072996:00	91-302/19:14:49	GASPRA
GAPSLTCRVB06	INITRS	128EF	01072994:89	01072996:86	91-302/19:15:50	GASPRA
GAPSLTCRVB06	SSI	147EF	01072995:76	01072996:44	91-302/19:16:42	GASPRA
GAPSLTCRVB06	CSMOS	117EF	01072995:77	01072997:35	91-302/19:16:42	GASPRA
GAPSLTCRVB06	SCIREC	175IH	01072995:90	01072996:48	91-302/19:16:51	GASPRA
GAPSLTCRVB06	SCITLM	176IH	01072996:00	01072996:13	91-302/19:16:52	GASPRA
GAPSLTCRVB06	SCIREC	175IX	01072996:52	01072997:37	91-302/19:17:26	GASPRA
GAPSLTCRVB06	SCITLM	176IW	01072996:52	01072996:65	91-302/19:17:26	GASPRA
GAPUOUTGAS01	CMDRS	157KC	01073003:00	01073028:52	91-302/19:23:56	GASPRA
GAPUOUTGAS01	TARGET	165KB	01073003:50	01073005:89	91-302/19:24:30	GASPRA
GAPUOUTGAS01	CSMOS	117KB	01073003:77	01073027:52	91-302/19:24:48	GASPRA
GAPUOUTGAS01	SCIREC	175KA	01073003:89	01073027:84	91-302/19:24:56	GASPRA
GAPUOUTGAS01	SCITLM	176KA	01073004:00	01073004:13	91-302/19:24:57	GASPRA
GAPSLTCRVC04	TARGET	165ID	01073027:89	01073033:00	91-302/19:49:12	GASPRA
GAPSLTCRVC04	SSI	147ID	01073030:76	01073032:89	91-302/19:52:05	GASPRA
GAPSLTCRVC04	SCIREC	175IG	01073030:90	01073033:02	91-302/19:52:14	GASPRA
GAPSLTCRVC04	SCITLM	176IG	01073031:00	01073031:13	91-302/19:52:15	GASPRA
GAPNGASPEC04	TARGET	165JM	01073034:56	01073035:06	91-302/19:55:54	GASPRA
GAPNGASPEC04	CSMOS	117JM	01073034:83	01073039:26	91-302/19:56:12	GASPRA
GAPNGASPEC04	INITRS	128JM	01073034:84	01073035:86	91-302/19:56:13	GASPRA
GAPNGASPEC04	SCIREC	175JH	01073035:00	01073039:28	91-302/19:56:18	GASPRA
GAPNGASPEC04	SCITLM	176JH	01073035:00	01073035:13	91-302/19:56:18	GASPRA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
GAPNGASPER10	TARGET	165JN	01073047:04	01073049:06	91-302/20:08:28	GASPRA
GAPNGASPER10	CSMOS	117JN	01073048:83	01073049:26	91-302/20:10:22	GASPRA
GAPNGASPER10	INITRS	128JN	01073048:84	01073049:86	91-302/20:10:22	GASPRA
GAPNGASPER10	SCIREC	175JN	01073049:00	01073049:32	91-302/20:10:27	GASPRA
GAPNGASPER10	SCITLM	176JN	01073049:00	01073049:13	91-302/20:10:27	GASPRA
GAPSLTCRVB07	TARGET	165EG	01073063:89	01073066:00	91-302/20:25:36	GASPRA
GAPSLTCRVB07	INITRS	128EG	01073064:89	01073066:86	91-302/20:26:36	GASPRA
GAPSLTCRVB07	SSI	147EG	01073065:76	01073066:44	91-302/20:27:28	GASPRA
GAPSLTCRVB07	CSMOS	117EG	01073065:77	01073067:63	91-302/20:27:29	GASPRA
GAPSLTCRVB07	SCIREC	175IF	01073065:90	01073066:48	91-302/20:27:38	GASPRA
GAPSLTCRVB07	SCITLM	176IF	01073066:00	01073066:13	91-302/20:27:38	GASPRA
GAPSLTCRVB07	SCIREC	175IY	01073066:52	01073067:65	91-302/20:28:13	GASPRA
GAPSLTCRVB07	SCITLM	176IX	01073066:52	01073066:65	91-302/20:28:13	GASPRA
GAPNGASPER11	TARGET	165JO	01073082:04	01073084:06	91-302/20:43:52	GASPRA
GAPNGASPER11	CSMOS	117JO	01073083:83	01073084:30	91-302/20:45:45	GASPRA
GAPNGASPER11	INITRS	128JO	01073083:84	01073084:86	91-302/20:45:46	GASPRA
GAPNGASPER11	SCIREC	175JM	01073083:85	01073084:32	91-302/20:45:46	GASPRA
GAPNGASPER11	SCITLM	176JM	01073084:00	01073084:13	91-302/20:45:50	GASPRA
GAPSLTCRVB08	TARGET	165EH	01073098:89	01073101:00	91-302/21:00:59	GASPRA
GAPSLTCRVB08	INITRS	128EH	01073099:84	01073101:86	91-302/21:01:56	GASPRA
GAPSLTCRVB08	SSI	147EH	01073100:76	01073101:44	91-302/21:02:52	GASPRA
GAPSLTCRVB08	CSMOS	117EH	01073100:77	01073102:83	91-302/21:02:52	GASPRA
GAPSLTCRVB08	SCIREC	175IE	01073100:90	01073101:48	91-302/21:03:01	GASPRA
GAPSLTCRVB08	SCITLM	176IE	01073101:00	01073101:13	91-302/21:03:02	GASPRA
GAPSLTCRVB08	SCIREC	175IZ	01073101:52	01073102:85	91-302/21:03:36	GASPRA
GAPSLTCRVB08	SCITLM	176IY	01073101:52	01073101:65	91-302/21:03:36	GASPRA
GAPNGASPER12	TARGET	165JP	01073111:04	01073113:06	91-302/21:13:11	GASPRA
GAPNGASPER12	CSMOS	117JP	01073112:83	01073113:32	91-302/21:15:04	GASPRA
GAPNGASPER12	INITRS	128JP	01073112:84	01073113:86	91-302/21:15:05	GASPRA
GAPNGASPER12	SCIREC	175JL	01073113:00	01073113:34	91-302/21:15:10	GASPRA
GAPNGASPER12	SCITLM	176JL	01073113:00	01073113:13	91-302/21:15:10	GASPRA
GAPNGASPEC05	INITRS	128JQ	01073127:84	01073129:86	91-302/21:30:15	GASPRA
GAPNGASPEC05	TARGET	165JQ	01073128:56	01073129:06	91-302/21:30:57	GASPRA
GAPNGASPEC05	CSMOS	117JQ	01073128:83	01073133:89	91-302/21:31:15	GASPRA
GAPNGASPEC05	SCIREC	175JG	01073129:00	01073134:00	91-302/21:31:20	GASPRA
GAPNGASPEC05	SCITLM	176JG	01073129:00	01073129:13	91-302/21:31:20	GASPRA
GAPS6FILTR01	INITRS	128IA	01073132:84	01073135:86	91-302/21:35:18	GASPRA
GAPS6FILTR01	TARGET	165IA	01073134:89	01073138:78	91-302/21:37:23	GASPRA
GAPS6FILTR01	SSI	147IA	01073135:24	01073138:76	91-302/21:37:40	GASPRA
GAPS6FILTR01	SCIREC	175ID	01073135:36	01073138:82	91-302/21:37:48	GASPRA
GAPS6FILTR01	SCITLM	176ID	01073135:39	01073135:52	91-302/21:37:50	GASPRA
GAPS6FILTR01	SMOS	118IA	01073136:01	01073138:68	91-302/21:38:26	GASPRA
GAPNGASPEC06	INITRS	128JR	01073140:84	01073141:86	91-302/21:43:24	GASPRA
GAPNGASPEC06	TARGET	165JR	01073141:21	01073148:49	91-302/21:43:42	GASPRA
GAPNGASPEC06	CSMOS	117JR	01073141:48	01073148:49	91-302/21:44:00	GASPRA
GAPNGASPEC06	SCITLM	176JF	01073141:52	01073141:65	91-302/21:44:03	GASPRA
GAPNGASPEC06	SCIREC	175JF	01073141:56	01073148:51	91-302/21:44:06	GASPRA

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
GAPSTWKINS01	INITRS	128IB	01073147:90	01073149:86	91-302/21:50:32	GASPRA
GAPSTWKINS01	TARGET	165IB	01073148:50	01073151:13	91-302/21:51:06	GASPRA
GAPSTWKINS01	SSI	147IB	01073148:76	01073151:11	91-302/21:51:24	GASPRA
GAPSTWKINS01	CSMOS	117IA	01073148:77	01073151:13	91-302/21:51:24	GASPRA
GAPSTWKINS01	SCIREC	175IC	01073148:88	01073151:17	91-302/21:51:32	GASPRA
GAPSTWKINS01	SCITLM	176IC	01073149:00	01073149:13	91-302/21:51:34	GASPRA
GAPNGSCHEM02	INITRS	128JS	01073150:84	01073151:86	91-302/21:53:30	GASPRA
GAPNGSCHEM02	TARGET	165JS	01073151:39	01073157:71	91-302/21:54:01	GASPRA
GAPNGSCHEM02	SCITLM	176JE	01073151:65	01073151:78	91-302/21:54:18	GASPRA
GAPNGSCHEM02	CSMOS	117JS	01073151:66	01073157:71	91-302/21:54:19	GASPRA
GAPNGSCHEM02	SCIREC	175JE	01073151:74	01073157:73	91-302/21:54:24	GASPRA
GAPS4FILTR01	INITRS	128IC	01073155:84	01073158:86	91-302/21:58:34	GASPRA
GAPS4FILTR01	TARGET	165IC	01073157:89	01073163:52	91-302/22:00:38	GASPRA
GAPS4FILTR01	SSI	147IC	01073158:24	01073163:50	91-302/22:00:56	GASPRA
GAPS4FILTR01	SCIREC	175IB	01073158:36	01073163:56	91-302/22:01:04	GASPRA
GAPS4FILTR01	SCITLM	176IB	01073158:39	01073158:52	91-302/22:01:06	GASPRA
GAPS4FILTR01	SMOS	118IB	01073158:66	01073163:42	91-302/22:01:24	GASPRA
GAPNGSCHEM04	INITRS	128JT	01073163:84	01073164:86	91-302/22:06:39	GASPRA
GAPNGSCHEM04	TARGET	165JT	01073164:01	01073172:71	91-302/22:06:44	GASPRA
GAPNGSCHEM04	SCITLM	176JD	01073164:26	01073164:39	91-302/22:07:01	GASPRA
GAPNGSCHEM04	CSMOS	117JT	01073164:28	01073172:71	91-302/22:07:02	GASPRA
GAPNGSCHEM04	SCIREC	175JD	01073164:36	01073172:73	91-302/22:07:08	GASPRA
GAPNGASMAP01	INITRS	128JU	01073172:84	01073173:86	91-302/22:15:45	GASPRA
GAPNGASMAP01	TARGET	165JU	01073173:19	01073177:36	91-302/22:16:02	GASPRA
GAPNGASMAP01	CSMOS	117JU	01073173:46	01073177:36	91-302/22:16:20	GASPRA
GAPNGASMAP01	SCITLM	176JC	01073173:52	01073173:65	91-302/22:16:24	GASPRA
GAPNGASMAP01	SCIREC	175JC	01073173:54	01073177:38	91-302/22:16:26	GASPRA
GAPSHIPHAS01	TARGET	165EI	01073177:50	01073185:52	91-302/22:20:26	GASPRA
GAPSHIPHAS01	SSI	147EI	01073177:76	01073185:24	91-302/22:20:43	GASPRA
GAPSHIPHAS01	CSMOS	117EI	01073177:77	01073185:30	91-302/22:20:44	GASPRA
GAPSHIPHAS01	SCIREC	175IA	01073177:88	01073185:30	91-302/22:20:51	GASPRA
GAPSHIPHAS01	SCITLM	176IA	01073178:00	01073178:13	91-302/22:20:53	GASPRA
	PCINIT	190JA	01073363:88	01073379:00	91-303/01:28:55	PCT
GANNPCTCAL01	INITRS	128JV	01073369:84	01073370:86	91-303/01:34:56	PCT
GANNPCTCAL01	CMDRS	157JA	01073370:00	01073406:00	91-303/01:35:01	PCT
GANNPCTCAL01	SCITLM	176JA	01073370:00	01073370:13	91-303/01:35:01	PCT
	ALSPINSP	192JA	01073393:00	01073399:00	91-303/01:58:16	PCT
GANNPCTCAL01	SCIREC	175JA	01073398:85	01073400:01	91-303/02:04:16	PCT
GANNPCTCAL01	SCIREC	175JX	01073401:85	01073403:01	91-303/02:07:18	PCT
	PCREST	191JA	01073404:00	01073409:00	91-303/02:09:24	PCT
	RADHTR	185JA	01073406:00	01073806:01	91-303/02:11:25	RCT
GANNRCTCAL01	INITRS	128JW	01073789:84	01073790:86	91-303/08:39:36	RCT
GANNRCTCAL01	CMDRS	157JB	01073790:00	01073809:00	91-303/08:39:41	RCT
GANNRCTCAL01	SCITLM	176JB	01073790:00	01073790:13	91-303/08:39:41	RCT
	ALSPINSP	192JB	01073790:00	01073798:00	91-303/08:39:41	RCT
GANNRCTCAL01	SCIREC	175JB	01073792:85	01073794:01	91-303/08:42:39	RCT
GANNRCTCAL01	SCIREC	175JY	01073795:85	01073797:01	91-303/08:45:41	RCT

NIMS Obstab (Planned)

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

(the single letter abbreviation appears as the third character in the OBSNAME (OAPEL Name)).

INPUT SEF FILE: EE11_921118.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
GAPSLTCRVC01	A	IG	01072716:00	01072716:14	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T14:33:45	0	1	GASPRA
GAPNGASPEC01	A	JA	01072720:00	01072723:23	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T14:37:48	0	1	GASPRA
GAPNGASPER01	A	JB	01072734:06	01072734:22	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T14:52:01	0	1	GASPRA
GAPSLTCRVB01	A	EA	01072751:05	01072751:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T15:09:12	0	1	GASPRA
GAPSLTCRVB01	B	EA	01072751:58	01072752:29	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T15:09:47	0	1	GASPRA
GAPNGASPER02	A	JC	01072769:06	01072769:22	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T15:27:24	0	1	GASPRA
GAPSLTCRVB02	A	EB	01072786:05	01072786:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T15:44:35	0	1	GASPRA
GAPSLTCRVB02	B	EB	01072786:58	01072787:36	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T15:45:10	0	1	GASPRA
GAPNGASPER03	A	JD	01072804:06	01072804:22	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T16:02:48	0	1	GASPRA
GAPSLTCRVC02	A	IF	01072821:00	01072821:14	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T16:19:55	0	1	GASPRA
GAPNGASPEC02	A	JE	01072825:06	01072828:47	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T16:24:02	0	1	GASPRA
GAPNGASPER04	A	JF	01072839:06	01072839:24	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T16:38:11	0	1	GASPRA
GAPSLTCRVB03	A	EC	01072856:05	01072856:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T16:55:22	0	1	GASPRA
GAPSLTCRVB03	B	EC	01072856:58	01072857:35	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T16:55:57	0	1	GASPRA

OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A						PTAB B						E	O	UTC1	R	T	TARGET
GAPNGASPER05	A	JG	01072874:06	01072874:24	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T17:13:34	0	1	GASPRA
GAPSLTCRVB04	A	ED	01072891:05	01072891:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T17:30:45	0	1	GASPRA
GAPSLTCRVB04	B	ED	01072891:58	01072892:35	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T17:31:20	0	1	GASPRA
GAPNGASPER06	A	JH	01072909:06	01072909:24	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T17:48:58	0	1	GASPRA
GAPSLTCRVC03	A	IE	01072926:05	01072928:00	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T18:06:08	0	1	GASPRA
GAPNGASPEC03	A	JI	01072930:06	01072934:11	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T18:10:12	0	1	GASPRA
GAPNGASPER07	A	JJ	01072944:06	01072944:26	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T18:24:21	0	1	GASPRA
GAPSLTCRVB05	A	EE	01072961:05	01072961:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T18:41:32	0	1	GASPRA
GAPSLTCRVB05	B	EE	01072961:58	01072962:32	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T18:42:07	0	1	GASPRA
GAPNGASPER08	A	JK	01072979:06	01072979:26	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T18:59:44	0	1	GASPRA
GAPSLTCRVB06	A	EF	01072996:05	01072996:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T19:16:55	0	1	GASPRA
GAPSLTCRVB06	B	EF	01072996:58	01072997:35	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T19:17:30	0	1	GASPRA
GAPSLTCRVC04	A	ID	01073031:05	01073033:00	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T19:52:18	0	1	GASPRA
GAPNGASPEC04	A	JM	01073035:06	01073039:26	1	4	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T19:56:22	0	1	GASPRA
GAPNGASPER10	A	JN	01073049:06	01073049:30	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T20:10:31	0	1	GASPRA
GAPSLTCRVB07	A	EG	01073066:05	01073066:46	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T20:27:42	0	1	GASPRA
GAPSLTCRVB07	B	EG	01073066:58	01073067:63	5	4	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T20:28:17	0	1	GASPRA
GAPNGASPER11	A	JO	01073084:00	01073084:30	7	4	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T20:45:50	0	1	GASPRA
GAPSLTCRVB08	A	EH	01073101:05	01073101:46	5	3	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:03:05	0	1	GASPRA
GAPSLTCRVB08	B	EH	01073101:58	01073102:83	5	3	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:03:40	0	1	GASPRA
GAPNGASPER12	A	JP	01073113:06	01073113:32	7	3	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T21:15:14	0	1	GASPRA
GAPNGASPEC05	A	JQ	01073129:06	01073133:89	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T21:31:24	0	1	GASPRA
GAPS6FILTR01	A	IA	01073135:41	01073138:78	12	1	2	4	6	1	0	6	0	12	3	1	0	0	1	24	0	0	1991-302T21:37:52	0	1	GASPRA
GAPNGASPEC06	A	JR	01073141:62	01073144:01	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T21:44:10	0	1	GASPRA
GAPNGASPEC06	B	JR	01073144:09	01073148:49	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1991-302T21:46:37	0	1	GASPRA
GAPSTWKINS01	A	IB	01073149:02	01073150:90	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T21:51:35	0	1	GASPRA
GAPNGSCHEM02	A	JS	01073151:00	01073151:13	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:53:30	0	1	GASPRA
GAPNGSCHEM02	B	JS	01073151:80	01073157:71	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T21:54:28	0	1	GASPRA
GAPS4FILTR01	A	IC	01073158:41	01073163:52	13	1	2	4	2	1	0	0	1	24	4	1	0	6	0	12	0	0	1991-302T22:01:07	0	1	GASPRA
GAPNGSCHEM04	A	JT	01073164:42	01073172:71	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1991-302T22:07:12	0	1	GASPRA
GAPNGASMAP01	A	JU	01073173:60	01073177:36	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T22:16:30	0	1	GASPRA
GAPSHIPHAS01	A	EI	01073178:02	01073178:39	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T22:20:55	0	1	GASPRA
GAPSHIPHAS01	B	EI	01073178:49	01073185:26	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1991-302T22:21:26	0	1	GASPRA
GANNPCTCAL01	A	JV	01073399:00	01073399:90	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T02:04:20	0	1	PCT
GANNPCTCAL01	B	JV	01073402:00	01073402:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T02:07:22	0	1	PCT
GANNRCTCAL01	A	JW	01073793:00	01073793:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T08:42:43	0	1	RCT
GANNRCTCAL01	B	JW	01073796:00	01073796:90	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1991-303T08:45:45	0	1	RCT