Chapter 4 - NIMS Observation Summaries

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Introduction to Chapter 4

This chapter summarizes the NIMS Venus 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 EV6 Sequence. The information in this summary is derived from the EV6 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).
   Instrument Mode = 0-15
9) O S - Grating Offset and Grating Start Position
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 EV6 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 EV6 SEF.

Sequence: EV06DG Created: 01/29/90 Begin: 90-038/16:10:00.000 Finish: 90-050/18:29:59.000

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	038	16:09:59.733		DMS:	*READY	RDY, TRACK *1, *FWD, TIC * 200 +/- 1;			177,003	89	0
90	038	17:51:00.400	490B412A4B	7MODE	INT	AACS INERTIAL MODE			177,103	80	0
90	038	19:50:00.400	490B476A6A	6TMCHG	EHRLRS				177,221	52	0
90	038	19:50:02.400	481B4A	7STAR	13,226,263.15399	Star catalog update			177,221	55	0
90	038	19:50:04.400	481B4B	7STAR	14,150,319.34999	Star catalog update			177,221	58	0
90	038	19:50:06.400	481B4C	7STAR	15,98,68.228999,	Star catalog update			177,221	61	0
90	038	19:50:08.400	481B4D	7STAR	16,99,237.674,-6	Star catalog update			177,221	64	0
90	038	19:50:10.400	481B4E	7STAR	17,0,0.0,0.0	Star catalog update			177,221	67	0
90	038	19:50:12.400	481B4F	7STAR	18,0,0.0,0.0	Star catalog update			177,221	70	0
90	038	19:52:00.400	490B412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone			177,223	50	0
90	038	19:56:10.400	490B412A4E	7VECT		Inert vect update UTC			177,227	61	0
90	038	19:56:14.400	490B412A4F	7TURN	2,MVR	ALERT Thruster			177,227	67	0
90	038	20:00:02.400	490B412A406A4A	7STAR	7,226,263.153999	Star catalog update			177,231	45	0
90	038	20:00:04.400	490B412A406A4B	7STAR	8,150,319.349998	Star catalog update			177,231	48	0
90	038	20:00:06.400	490B412A406A4C	7STAR	9,98,68.228999,-	Star catalog update			177,231	51	0
90	038	20:00:08.400	490B412A406A4D	7STAR	10,99,237.674,-6	Star catalog update			177,231	54	0
90	038	20:00:10.400	490B412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update			177,231	57	0
90	038	20:00:12.400	490B412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update			177,231	60	0
90	039	00:00:03.733	20CC3A	40T2R	1	PCT Heater 2 OFF			177,468	80	0
90	039	00:00:03.733	20CC3B	40T2R	2	PCT Heater 2 OFF			177,468	80	0
90	039	00:49:52.400	476R6A	6TMCHG	EHR				177,518	13	0
90	039	16:59:57.733	476S6A	6TMCHG	EHR				178,477	52	0
90	040	03:07:59.666	175MA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps			179,078	84	0
90	040	03:07:59.666		DMS:	*RUNUP	R7, TRACK 1, FWD, TIC 200 +/- 1;			179,078	84	0
90	040	03:08:01.133		DMS:	*RECORD	R7, TRACK 1, FWD, TIC * 201 +/- 1;			179,078	86	2
90	040	03:08:04.333	176MA6A	6TMCHG	EHRLRS				179,079	00	0
90	040	03:38:04.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC * 615 +/- 1;			179,108	61	0
90	040	03:38:04.333	175MA422A6B	6DMSC	RDY,0	DMS Control Tape stop			179,108	61	0
90	040	03:38:05.600		DMS:	*READY	RDY, TRACK 1, FWD, TIC * 616 +/- 1;			179,108	62	9
90	040	05:01:27.666	476T6A	6TMCHG	EHR				179,191	13	0
90	040	06:59:54.333	476U6A	6TMCHG	EHR				179,308	26	0
90	040	09:30:51.000	490C476A6A	6TMCHG	EHRLRS				179,457	52	0
90	040	09:31:00.333	481C4A	7VECT		Inert vect update UTC			179,457	66	0
90	040	09:31:02.333	481C4B	7STAR	13,274,46.227,40	Star catalog update			179,457	69	0
90	040	09:31:04.333	481C4C	7STAR	14,99,68.228999,	Star catalog update			179,457	72	0
90	040	09:31:06.333	481C4D	7STAR	15,122,228.55099	Star catalog update			179,457	75	0
90	040	09:31:08.333	481C4E	7STAR	16,1701,278.8139	Star catalog update			179,457	78	0
90	040	09:31:10.333	481C4F	7STAR	17,150,319.34999	Star catalog update			179,457	81	0
90	040	09:31:12.333	481C4G	7STAR	18,0,0.0,0.0	Star catalog update			179,457	84	0
90	040	09:31:58.333	490C412A4B	7MODE	INT	AACS INERTIAL MODE			179,458	62	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	040	09:32:58.333	490C412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone			179,459	61	0
90	040	09:37:08.333	490C412A4E	7VECT		Inert vect update UTC			179,463	72	0
90	040	09:37:12.333	490C412A4F	7TURN	2,MVR	ALERT Thruster			179,463	78	0
90	040	09:41:00.333	490C412A406A4A	7STAR	7,274,46.227,40.	Star catalog update			179,467	56	0
90	040	09:41:02.333	490C412A406A4B	7STAR	8,99,68.228999,-	Star catalog update			179,467	59	0
90	040	09:41:04.333	490C412A406A4C	7STAR	9,122,228.550999	Star catalog update			179,467	62	0
90	040	09:41:06.333	490C412A406A4D	7STAR	10,1701,278.8139	Star catalog update			179,467	65	0
90	040	09:41:08.333	490C412A406A4E	7STAR	11,150,319.34999	Star catalog update			179,467	68	0
90	040	09:41:10.333	490C412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update			179,467	71	0
90	040	11:54:50.333	165JH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion			179,599	89	0
90	040	11:54:51.000	165JH4B	7SCAN	NORM,322.559998,	Check S/P Position			179,599	90	0
90	040	12:55:04.333	165G4A	7TMOT	DIS,TMC	Disable IVP - Target Motion			179,659	50	0
90	040	12:55:05.000	165G4B	7SCAN	NORM,320.836998,	Check S/P Position			179,659	51	0
90	040	12:55:22.333	117F	CSMOS	GS	***** GROUP START CSMOS			179,659	77	0
90	040	12:55:27.000	175JA422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps			179,659	84	0
90	040	12:55:27.000		DMS:	*RUNUP	R7, TRACK 1, FWD, TIC 616 +/- 1;			179,659	84	0
90	040	12:55:28.466		DMS:	*RECORD	R7, TRACK 1, FWD, TIC * 617 +/- 1;			179,659	86	2
90	040	12:55:31.666	117F105A106A4A	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,660	00	0
90	040	12:55:31.666	176JA6A	6TMCHG	EHRLRS				179,660	00	0
90	040	12:57:07.666	117F105A106A4B	7STRP	-0.002,-0.029037	Slew =11.99			179,661	53	0
90	040	12:57:35.000	117F105A106A4C	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,662	03	0
90	040	12:59:11.000	117F105A106A4D	7STRP	-0.002,-0.029037	Slew =11.99			179,663	56	0
90	040	12:59:37.666	117F105A106A4E	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,664	05	0
90	040	13:01:13.666	117F105A106A4F	7STRP	-0.002,-0.029037	Slew =11.99			179,665	58	0
90	040	13:01:41.000	117F105A106A4G	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,666	08	0
90	040	13:03:17.000	117F105A106A4H	7STRP	-0.002,-0.029037	Slew =11.99			179,667	61	0
90	040	13:03:43.666	117F105A106A4I	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,668	10	0
90	040	13:05:19.666	117F105A106A4J	7STRP	-0.002,-0.029037	Slew =11.99			179,669	63	0
90	040	13:05:47.000	117F105A106A4K	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,670	13	0
90	040	13:07:23.000	117F105A106A4L	7STRP	-0.002,-0.029037	Slew =11.99			179,671	66	0
90	040	13:07:49.666	117F105A106A4M	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,672	15	0
90	040	13:09:25.666	117F105A106A4N	7STRP	-0.002,-0.029037	Slew =11.99			179,673	68	0
90	040	13:09:53.000	117F105A106A4O	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,674	18	0
90	040	13:11:29.000	117F105A106A4P	7STRP	-0.002,-0.029037	Slew =11.99			179,675	71	0
90	040	13:11:55.666	117F105A106A4Q	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,676	20	0
90	040	13:13:31.666	117F105A106A4R	7STRP	-0.002,-0.029037	Slew =11.99			179,677	73	0
90	040	13:13:59.000	117F105A106A4S	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,678	23	0
90	040	13:15:35.000	117F105A106A4T	7STRP	-0.002,-0.029037	Slew =11.99			179,679	76	0
90	040	13:16:01.666	117F105A106A4U	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,680	25	0
90	040	13:17:37.666	117F105A106A4V	7STRP	-0.002,-0.029037	Slew =11.99			179,681	78	0
90	040	13:18:05.000	117F105A106A4W	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,682	28	0
90	040	13:19:41.000	117F105A106A4X	7STRP	-0.002,-0.029037	Slew =11.99			179,683	81	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	040	13:20:07.666	117F105A106A4Y	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,684	30	0
90	040	13:21:43.666	117F105A106A4Z	7STRP	-0.002,-0.029037	Slew =11.99			179,685	83	0
90	040	13:22:11.000	117F105A106A4AA	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,686	33	0
90	040	13:23:47.000	117F105A106A4AB	7STRP	-0.002,-0.029037	Slew =11.99			179,687	86	0
90	040	13:24:13.666	117F105A106A4AC	7STRP	0.0,0.029037,0,0	Slew =0,0.8			179,688	35	0
90	040	13:25:49.666	117F11A	CSMOS	GE	***** GROUP END CSMOS			179,689	88	0
90	040	13:25:49.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *1035 +/- 1;			179,689	88	0
90	040	13:25:49.666	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop			179,689	88	0
90	040	13:25:50.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *1036 +/- 1;			179,689	89	9
90	041	01:29:08.933	20ZU3Q	37HR	CMD,37HR,20ZU3Q,	Replacement Heaters OFF			180,405	31	0
90	041	01:29:36.933	20ZU3R	37A	CMD,37A,20ZU3R,,	NIMS Power ON	260	0400	180,405	73	0
90	041	01:31:38.266	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	0400	180,407	73	0
90	041	01:47:56.266	128IB149A131A4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	0400	180,423	84	0
90	041	01:48:00.933	176IB6A	6TMCHG	EHRMPW		2R0	0400	180,424	00	0
90	041	01:48:22.000	VPDIN1		-----START------		2R0	0400		:	:
90	041	01:48:22.266	165B4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	0400	180,424	32	0
90	041	01:48:22.933	165B4B	7SCAN	NORM,309.621998,	Check S/P Position	2R0	0400	180,424	33	0
90	041	01:48:56.933	128IB149A131B4A	37IOP	7,16	Fixed Map, Grating Start Position =16	2R7	0416	180,424	84	0
90	041	01:49:50.266	117B	CSMOS	GS	***** GROUP START CSMOS	2R7	0416	180,425	73	0
90	041	01:49:54.933	175IB422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	0416	180,425	80	0
90	041	01:49:54.933		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 1036 +/- 1;	2R7	0416	180,425	80	0
90	041	01:49:58.933		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *1037 +/- 1;	2R7	0416	180,425	86	0
90	041	01:49:59.600	117B105A106A4A	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,425	87	0
90	041	01:51:07.600	117B105A106A4B	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,427	07	0
90	041	01:51:26.933	117B105A106A4C	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,427	36	0
90	041	01:52:34.933	117B105A106A4D	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,428	47	0
90	041	01:52:53.600	117B105A106A4E	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,428	75	0
90	041	01:54:01.600	117B105A106A4F	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,429	86	0
90	041	01:54:20.933	117B105A106A4G	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,430	24	0
90	041	01:55:28.933	117B105A106A4H	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,431	35	0
90	041	01:55:47.600	117B105A106A4I	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,431	63	0
90	041	01:56:55.600	117B105A106A4J	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,432	74	0
90	041	01:57:14.933	117B105A106A4K	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,433	12	0
90	041	01:58:22.933	117B105A106A4L	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,434	23	0
90	041	01:58:41.600	117B105A106A4M	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,434	51	0
90	041	01:59:49.600	117B105A106A4N	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,435	62	0
90	041	02:00:08.933	117B105A106A4O	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,436	00	0
90	041	02:01:16.933	117B105A106A4P	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,437	11	0
90	041	02:01:35.600	117B105A106A4Q	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,437	39	0
90	041	02:02:43.600	117B105A106A4R	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,438	50	0
90	041	02:03:02.933	117B105A106A4S	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,438	79	0
90	041	02:04:10.933	117B105A106A4T	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,439	90	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	02:04:29.600	117B105A106A4U	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,440	27:0	
90	041	02:05:37.600	117B105A106A4V	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,441	38:0	
90	041	02:05:56.933	117B105A106A4W	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,441	67:0	
90	041	02:07:04.933	117B105A106A4X	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,442	78:0	
90	041	02:07:23.600	117B105A106A4Y	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,443	15:0	
90	041	02:08:31.600	117B105A106A4Z	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,444	26:0	
90	041	02:08:50.933	117B105A106A4AA	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,444	55:0	
90	041	02:09:58.933	117B105A106A4AB	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,445	66:0	
90	041	02:10:17.600	117B105A106A4AC	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,446	03:0	
90	041	02:11:25.600	117B105A106A4AD	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,447	14:0	
90	041	02:11:44.933	117B105A106A4AE	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,447	43:0	
90	041	02:12:52.933	117B105A106A4AF	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,448	54:0	
90	041	02:13:11.600	117B105A106A4AG	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,448	82:0	
90	041	02:14:19.600	117B105A106A4AH	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,450	02:0	
90	041	02:14:38.933	117B105A106A4AI	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,450	31:0	
90	041	02:15:46.933	117B105A106A4AJ	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,451	42:0	
90	041	02:16:05.600	117B105A106A4AK	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,451	70:0	
90	041	02:17:13.600	117B105A106A4AL	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,452	81:0	
90	041	02:17:32.933	117B105A106A4AM	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,453	19:0	
90	041	02:18:40.933	117B105A106A4AN	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,454	30:0	
90	041	02:18:59.600	117B105A106A4AO	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,454	58:0	
90	041	02:20:07.600	117B105A106A4AP	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,455	69:0	
90	041	02:20:26.933	117B105A106A4AQ	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,456	07:0	
90	041	02:21:34.933	117B105A106A4AR	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,457	18:0	
90	041	02:21:53.600	117B105A106A4AS	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,457	46:0	
90	041	02:23:01.600	117B105A106A4AT	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,458	57:0	
90	041	02:23:20.933	117B105A106A4AU	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,458	86:0	
90	041	02:24:28.933	117B105A106A4AV	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,460	06:0	
90	041	02:24:47.600	117B105A106A4AW	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,460	34:0	
90	041	02:25:55.600	117B105A106A4AX	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,461	45:0	
90	041	02:26:14.933	117B105A106A4AY	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,461	74:0	
90	041	02:27:22.933	117B105A106A4AZ	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,462	85:0	
90	041	02:27:41.600	117B105A106A4BA	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,463	22:0	
90	041	02:28:49.600	117B105A106A4BB	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,464	33:0	
90	041	02:29:08.933	117B105A106A4BC	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,464	62:0	
90	041	02:30:16.933	117B105A106A4BD	7STRP	-0.095287,0.004,	Slew =,9.97	2R7	0416	180,465	73:0	
90	041	02:30:35.600	117B105A106A4BE	7STRP	0.096296,-0.0008	Slew =0,1.5	2R7	0416	180,466	10:0	
90	041	02:31:43.600	117B11A	CSMOS	GE	***** GROUP END CSMOS	2R7	0416	180,467	21:0	
90	041	02:31:45.000	VPDIN1		-----STOP-------		2R7	0416	:	:	
90	041	02:31:52.933	175IB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,467	35:0	
90	041	02:31:52.933		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3251 +/- 1;	2R7	0416	180,467	35:0	
90	041	02:31:54.133		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3252 +/- 1;	2R7	0416	180,467	36:8	

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	02:32:25.600	157IB156A121A4A	37IOP	0,0	Safe, Grating Start Position =0	2R0	0400	180,467	84:0	
90	041	02:35:58.266	476V6A	6TMCHG	EHR		2R0	0400	180,471	39:0	
90	041	03:13:21.600	165H4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	0400	180,508	37:0	
90	041	03:13:22.266	165H4B	7SCAN	NORM,301.853996,	Check S/P Position	2R0	0400	180,508	38:0	
90	041	03:13:48.266	117G	CSMOS	GS	***** GROUP START CSMOS	2R0	0400	180,508	77:0	
90	041	03:13:52.933		DMS:	*RUNUP	R7, TRACK 1, FWD, TIC 3252 +/- 1;	2R0	0400	180,508	84:0	
90	041	03:13:52.933	175JB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R0	0400	180,508	84:0	
90	041	03:13:54.400		DMS:	*RECORD	R7, TRACK 1, FWD, TIC *3253 +/- 1;	2R0	0400	180,508	86:2	
90	041	03:13:57.600	117G105A106A4A	7STRP	0.019002,0.15884	Slew =,0.54	2R0	0400	180,509	00:0	
90	041	03:13:57.600	176JB6A	6TMCHG	EHRLRS		2R0	0400	180,509	00:0	
90	041	03:22:17.600	117G105A106B4A	7STRP	0.025005,-0.1060	Slew =11.99	2R0	0400	180,517	22:0	
90	041	03:22:47.600	117G105A106B4B	7STRP	0.0,0.035038,0,0	Slew =,0.54	2R0	0400	180,517	67:0	
90	041	03:24:50.933	117G105A106C4A	7STRP	0.01,-0.04508,0,	Slew =11.99	2R0	0400	180,519	70:0	
90	041	03:25:14.933	117G105A106C4B	7STRP	0.0,0.040055,0,0	Slew =,0.54	2R0	0400	180,520	15:0	
90	041	03:27:29.600	117G105A106C4C	7STRP	0.01,-0.04508,0,	Slew =11.99	2R0	0400	180,522	35:0	
90	041	03:27:53.600	117G105A106C4D	7STRP	0.0,0.040055,0,0	Slew =,0.54	2R0	0400	180,522	71:0	
90	041	03:30:08.933	117G105A106C4E	7STRP	0.01,-0.04508,0,	Slew =11.99	2R0	0400	180,525	01:0	
90	041	03:30:32.933	117G105A106C4F	7STRP	0.0,0.040055,0,0	Slew =,0.54	2R0	0400	180,525	37:0	
90	041	03:32:47.600	117G105A106C4G	7STRP	0.01,-0.04508,0,	Slew =11.99	2R0	0400	180,527	57:0	
90	041	03:33:11.600	117G105A106C4H	7STRP	0.0,0.040055,0,0	Slew =,0.54	2R0	0400	180,528	02:0	
90	041	03:35:26.933	117G11A	CSMOS	GE	***** GROUP END CSMOS	2R0	0400	180,530	23:0	
90	041	03:40:21.000	VJBARS		-----START------		2R0	0400	:	:	
90	041	03:40:21.600	165F4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R0	0400	180,535	10:0	
90	041	03:40:22.266	165F4B	7SCAN	NORM,299.452,-23	Check S/P Position	2R0	0400	180,535	11:0	
90	041	03:41:10.933	128IC149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	2R3	0400	180,535	84:0	
90	041	03:41:58.266	117R	CSMOS	GS	***** GROUP START CSMOS	2R3	0400	180,536	64:0	
90	041	03:42:01.600	175JB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	180,536	69:0	
90	041	03:42:01.600		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *3640 +/- 1;	2R3	0400	180,536	69:0	
90	041	03:42:02.866		DMS:	*READY	RDY, TRACK 1, FWD, TIC *3641 +/- 1;	2R3	0400	180,536	70:9	
90	041	03:42:02.933		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 3641 +/- 1;	2R3	0400	180,536	71:0	
90	041	03:42:02.933	175IC422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	0400	180,536	71:0	
90	041	03:42:06.933		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *3643 +/- 1;	2R3	0400	180,536	77:0	
90	041	03:42:07.600	117R105A106A4A	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,536	78:0	
90	041	03:42:07.600	176IC6A	6TMCHG	EHRMPW		2R3	0400	180,536	78:0	
90	041	03:42:33.600	117R105A106A4B	7STRP	0.0003,0.016804,	Slew =,15.0	2R3	0400	180,537	26:0	
90	041	03:42:50.933	117R105A106A4C	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,537	52:0	
90	041	03:43:16.933	117R105A106A4D	7STRP	0.0003,0.016804,	Slew =,15.0	2R3	0400	180,538	00:0	
90	041	03:43:34.266	117R105A106A4E	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,538	26:0	
90	041	03:44:00.266	117R105A106A4F	7STRP	0.0003,0.016804,	Slew =,15.0	2R3	0400	180,538	65:0	
90	041	03:44:17.600	117R105A106A4G	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,539	00:0	
90	041	03:44:43.600	117R105A106A4H	7STRP	0.0003,0.016804,	Slew =,15.0	2R3	0400	180,539	39:0	
90	041	03:45:00.933	117R105A106A4I	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,539	65:0	

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	03:45:26.933	117R105A106A4J	7STRP	0.0003,0.016804,	Slew =,15.0	2R3	0400	180,540	13:0	
90	041	03:45:44.266	117R105A106A4K	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,540	39:0	
90	041	03:46:10.266	117R105A106B4A	7STRP	0.022004,-0.1243	Slew =,15.0	2R3	0400	180,540	78:0	
90	041	03:46:36.266	117R105A106B4B	7STRP	0.00087,-0.00082	Slew =,0.06	2R3	0400	180,541	26:0	
90	041	03:47:02.266	117R105A106C4A	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,541	65:0	
90	041	03:47:19.600	117R105A106C4B	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,542	00:0	
90	041	03:47:45.600	117R105A106C4C	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,542	39:0	
90	041	03:48:02.933	117R105A106C4D	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,542	65:0	
90	041	03:48:28.933	117R105A106C4E	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,543	13:0	
90	041	03:48:46.266	117R105A106C4F	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,543	39:0	
90	041	03:49:12.266	117R105A106C4G	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,543	78:0	
90	041	03:49:29.600	117R105A106C4H	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,544	13:0	
90	041	03:49:55.600	117R105A106C4I	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,544	52:0	
90	041	03:50:12.933	117R105A106C4J	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,544	78:0	
90	041	03:50:38.933	117R105A106C4K	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,545	26:0	
90	041	03:50:56.266	117R105A106C4L	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,545	52:0	
90	041	03:51:22.266	117R105A106C4M	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,546	00:0	
90	041	03:51:39.600	117R105A106C4N	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,546	26:0	
90	041	03:52:05.600	117R105A106C4O	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,546	65:0	
90	041	03:52:22.933	117R105A106C4P	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,547	00:0	
90	041	03:52:48.933	117R105A106C4Q	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,547	39:0	
90	041	03:53:06.266	117R105A106C4R	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,547	65:0	
90	041	03:53:32.266	117R105A106C4S	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,548	13:0	
90	041	03:53:49.600	117R105A106C4T	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,548	39:0	
90	041	03:54:15.600	117R105A106C4U	7STRP	0.0003,0.016504,	Slew =,15.0	2R3	0400	180,548	78:0	
90	041	03:54:32.933	117R105A106C4V	7STRP	0.0008,-0.000754	Slew =,0.06	2R3	0400	180,549	13:0	
90	041	03:54:58.933	117R105A106D4A	7STRP	0.040021,-0.1665	Slew =,15.0	2R3	0400	180,549	52:0	
90	041	03:55:24.933	117R105A106D4B	7STRP	0.00087,-0.00082	Slew =,0.06	2R3	0400	180,550	00:0	
90	041	03:55:50.933	117R105A106E4A	7STRP	0.0003,0.018505,	Slew =,15.0	2R3	0400	180,550	39:0	
90	041	03:56:08.266	117R105A106E4B	7STRP	0.000949,-0.0008	Slew =,0.06	2R3	0400	180,550	65:0	
90	041	03:56:34.266	117R105A106E4C	7STRP	0.0003,0.018505,	Slew =,15.0	2R3	0400	180,551	13:0	
90	041	03:56:51.600	117R105A106E4D	7STRP	0.000949,-0.0008	Slew =,0.06	2R3	0400	180,551	39:0	
90	041	03:57:17.600	117R105A106E4E	7STRP	0.0003,0.018505,	Slew =,15.0	2R3	0400	180,551	78:0	
90	041	03:57:34.933	117R105A106E4F	7STRP	0.000949,-0.0008	Slew =,0.06	2R3	0400	180,552	13:0	
90	041	03:58:00.933	117R105A106E4G	7STRP	0.0003,0.018505,	Slew =,15.0	2R3	0400	180,552	52:0	
90	041	03:58:18.266	117R105A106E4H	7STRP	0.000949,-0.0008	Slew =,0.06	2R3	0400	180,552	78:0	
90	041	03:58:44.266	117R105A106E4I	7STRP	0.0003,0.018505,	Slew =,15.0	2R3	0400	180,553	26:0	
90	041	03:59:01.600	117R105A106E4J	7STRP	0.000949,-0.0008	Slew =,0.06	2R3	0400	180,553	52:0	
90	041	03:59:27.600	117R105A106F4A	7STRP	-0.040021,-0.134	Slew =,15.0	2R3	0400	180,554	00:0	
90	041	03:59:53.600	117R105A106F4B	7STRP	0.001729,-0.0016	Slew =,0.06	2R3	0400	180,554	39:0	
90	041	04:00:36.933	117R105A106G4A	7STRP	0.030009,0.0,0,0	Slew =,15.0	2R3	0400	180,555	13:0	
90	041	04:00:54.266	117R105A106G4B	7STRP	0.001743,-0.0016	Slew =,0.06	2R3	0400	180,555	39:0	

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	04:01:37.600	117R11A	CSMOS	GE	***** GROUP END CSMOS	2R3	0400	180,556:13:0		
90	041	04:02:00.933		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4694 +/- 1;	2R3	0400	180,556:48:0		
90	041	04:02:00.933	175IC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	180,556:48:0		
90	041	04:02:01.000	VJBARS		-----STOP-------		2R3	0400	:	:	
90	041	04:02:02.133		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4695 +/- 1;	2R3	0400	180,556:49:8		
90	041	04:02:02.266		DMS:	*RUNUP	R7, TRACK 1, FWD, TIC 4695 +/- 1;	2R3	0400	180,556:50:0		
90	041	04:02:02.266	175MD422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R3	0400	180,556:50:0		
90	041	04:02:03.600	176MD6A	6TMCHG	EHRLRS		2R3	0400	180,556:52:0		
90	041	04:02:03.733		DMS:	*RECORD	R7, TRACK 1, FWD, TIC *4696 +/- 2;	2R3	0400	180,556:52:2		
90	041	04:02:08.000	VPDIN2		-----START------		2R3	0400	:	:	
90	041	04:02:08.266	165C4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	180,556:59:0		
90	041	04:02:08.933	165C4B	7SCAN	NORM,296.832996,	Check S/P Position	2R3	0400	180,556:60:0		
90	041	04:03:25.600	128ID149A131A4A	37IOP	7,16	Fixed Map, Grating Start Position =16	2R7	0416	180,557:84:0		
90	041	04:03:44.933	117C	CSMOS	GS	***** GROUP START CSMOS	2R7	0416	180,558:22:0		
90	041	04:03:45.600		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4719 +/- 2;	2R7	0416	180,558:23:0		
90	041	04:03:45.600	175MD422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,558:23:0		
90	041	04:03:46.866		DMS:	*READY	RDY, TRACK 1, FWD, TIC *4720 +/- 2;	2R7	0416	180,558:24:9		
90	041	04:03:47.600	176ID6A	6TMCHG	EHRMPW		2R7	0416	180,558:26:0		
90	041	04:03:49.600		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 4720 +/- 2;	2R7	0416	180,558:29:0		
90	041	04:03:49.600	175ID422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	0416	180,558:29:0		
90	041	04:03:53.600		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *4722 +/- 2;	2R7	0416	180,558:35:0		
90	041	04:03:54.266	117C105A106A4A	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,558:36:0		
90	041	04:04:50.266	117C105A106A4B	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,559:29:0		
90	041	04:05:08.266	117C105A106A4C	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,559:56:0		
90	041	04:06:04.266	117C105A106A4D	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,560:49:0		
90	041	04:06:22.266	117C105A106A4E	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,560:76:0		
90	041	04:07:18.266	117C105A106A4F	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,561:69:0		
90	041	04:07:36.266	117C105A106A4G	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,562:05:0		
90	041	04:08:32.266	117C105A106A4H	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,562:89:0		
90	041	04:08:50.266	117C105A106A4I	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,563:25:0		
90	041	04:09:46.266	117C105A106A4J	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,564:18:0		
90	041	04:10:04.266	117C105A106A4K	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,564:45:0		
90	041	04:11:00.266	117C105A106A4L	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,565:38:0		
90	041	04:11:18.266	117C105A106A4M	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,565:65:0		
90	041	04:12:14.266	117C105A106A4N	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,566:58:0		
90	041	04:12:32.266	117C105A106A4O	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,566:85:0		
90	041	04:13:28.266	117C105A106A4P	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,567:78:0		
90	041	04:13:46.266	117C105A106A4Q	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,568:14:0		
90	041	04:14:42.266	117C105A106A4R	7STRP	-0.074638,0.0,0,	Slew =17.01	2R7	0416	180,569:07:0		
90	041	04:15:00.266	117C105A106A4S	7STRP	0.080171,0.0,0,0	Slew =,1.51	2R7	0416	180,569:34:0		
90	041	04:15:56.266	117C105A106B4A	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,570:27:0		
90	041	04:16:14.266	117C105A106B4B	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,570:54:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	04:17:22.266	117C105A106B4C	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,571:65:0		
90	041	04:17:40.266	117C105A106B4D	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,572:01:0		
90	041	04:18:48.266	117C105A106B4E	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,573:12:0		
90	041	04:19:06.266	117C105A106B4F	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,573:39:0		
90	041	04:20:14.266	117C105A106B4G	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,574:50:0		
90	041	04:20:32.266	117C105A106B4H	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,574:77:0		
90	041	04:21:40.266	117C105A106B4I	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,575:88:0		
90	041	04:21:58.266	117C105A106B4J	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,576:24:0		
90	041	04:23:06.266	117C105A106B4K	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,577:35:0		
90	041	04:23:24.266	117C105A106B4L	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,577:62:0		
90	041	04:24:32.266	117C105A106B4M	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,578:73:0		
90	041	04:24:50.266	117C105A106B4N	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,579:09:0		
90	041	04:25:58.266	117C105A106B4O	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,580:20:0		
90	041	04:26:16.266	117C105A106B4P	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,580:47:0		
90	041	04:27:24.266	117C105A106B4Q	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,581:58:0		
90	041	04:27:42.266	117C105A106B4R	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,581:85:0		
90	041	04:28:50.266	117C105A106B4S	7STRP	-0.090748,-0.002	Slew =17.01	2R7	0416	180,583:05:0		
90	041	04:29:08.266	117C105A106B4T	7STRP	0.098315,0.0,0,0	Slew =,1.51	2R7	0416	180,583:32:0		
90	041	04:30:16.266	117C105A106C4A	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,584:43:0		
90	041	04:30:34.266	117C105A106C4B	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,584:70:0		
90	041	04:31:48.266	117C105A106C4C	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,585:90:0		
90	041	04:32:06.266	117C105A106C4D	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,586:26:0		
90	041	04:33:20.266	117C105A106C4E	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,587:46:0		
90	041	04:33:24.266		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6281 +/- 2;	2R7	0416	180,587:52:0		
90	041	04:33:24.266	175ID422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,587:52:0		
90	041	04:33:25.466		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6282 +/- 2;	2R7	0416	180,587:53:8		
90	041	04:33:30.266		DMS:	*RUNUP	R115, TRACK 1, FWD, TIC 6282 +/- 2;	2R7	0416	180,587:61:0		
90	041	04:33:30.266	260MA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	0416	180,587:61:0		
90	041	04:33:32.933	260MA476A6A	6TMCHG	NCGHPW	NO CHANGE / 115.2 KBPS PWS + NIMS RECORD	2R7	0416	180,587:65:0		
90	041	04:33:34.266		DMS:	*RECORD	R115, TRACK 1, FWD, TIC *6288 +/- 3;	2R7	0416	180,587:67:0		
90	041	04:33:38.266	117C105A106C4F	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,587:73:0		
90	041	04:34:52.266	117C105A106C4G	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,589:02:0		
90	041	04:34:54.266		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *6570 +/- 3;	2R7	0416	180,589:05:0		
90	041	04:34:54.266	260MA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,589:05:0		
90	041	04:34:55.466		DMS:	*READY	RDY, TRACK 1, FWD, TIC *6571 +/- 3;	2R7	0416	180,589:06:8		
90	041	04:35:05.600	175IP422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R7	0416	180,589:22:0		
90	041	04:35:05.600		DMS:	*RUNUP	R28, TRACK 1, FWD, TIC 6571 +/- 3;	2R7	0416	180,589:22:0		
90	041	04:35:08.266	176IP6A	6TMCHG	EHRMPW		2R7	0416	180,589:26:0		
90	041	04:35:09.600		DMS:	*RECORD	R28, TRACK 1, FWD, TIC *6573 +/- 3;	2R7	0416	180,589:28:0		
90	041	04:35:10.266	117C105A106C4H	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,589:29:0		
90	041	04:36:24.266	117C105A106C4I	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,590:49:0		
90	041	04:36:42.266	117C105A106C4J	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,590:76:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	04:37:56.266	117C105A106C4K	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,592:05:0		
90	041	04:38:14.266	117C105A106C4L	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,592:32:0		
90	041	04:39:28.266	117C105A106C4M	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,593:52:0		
90	041	04:39:46.266	117C105A106C4N	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,593:79:0		
90	041	04:41:00.266	117C105A106C4O	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,595:08:0		
90	041	04:41:18.266	117C105A106C4P	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,595:35:0		
90	041	04:42:32.266	117C105A106C4Q	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,596:55:0		
90	041	04:42:50.266	117C105A106C4R	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,596:82:0		
90	041	04:44:04.266	117C105A106C4S	7STRP	-0.093773,-0.003	Slew =17.01	2R7	0416	180,598:11:0		
90	041	04:44:22.266	117C105A106C4T	7STRP	0.104377,0.0,0,0	Slew =,1.51	2R7	0416	180,598:38:0		
90	041	04:45:36.266	117C105A106D4A	7STRP	-0.100335,-0.005	Slew =17.01	2R7	0416	180,599:58:0		
90	041	04:45:54.266	117C105A106D4B	7STRP	0.112471,0.0,0,0	Slew =,1.51	2R7	0416	180,599:85:0		
90	041	04:46:35.400		DMS:	*REVERSE	R28, TRACK 1, FWD, TIC *7177 +/- 3;	2R7	0416	180,600:55:7		
90	041	04:46:40.600		DMS:	*RESUME	R28, TRACK *2, *REV, TIC *7176 +/- 3;	2R7	0416	180,600:63:5		
90	041	04:47:16.266	117C105A106D4C	7STRP	-0.100335,-0.005	Slew =17.01	2R7	0416	180,601:26:0		
90	041	04:47:34.266	117C105A106D4D	7STRP	0.112471,0.0,0,0	Slew =,1.51	2R7	0416	180,601:53:0		
90	041	04:48:56.266	117C105A106D4E	7STRP	-0.100335,-0.005	Slew =17.01	2R7	0416	180,602:85:0		
90	041	04:49:14.266	117C105A106D4F	7STRP	0.112471,0.0,0,0	Slew =,1.51	2R7	0416	180,603:21:0		
90	041	04:50:36.266	117C105A106D4G	7STRP	-0.100335,-0.005	Slew =17.01	2R7	0416	180,604:53:0		
90	041	04:50:54.266	117C105A106D4H	7STRP	0.112471,0.0,0,0	Slew =,1.51	2R7	0416	180,604:80:0		
90	041	04:52:16.266	117C105A106D4I	7STRP	-0.100335,-0.005	Slew =17.01	2R7	0416	180,606:21:0		
90	041	04:52:34.266	117C105A106D4J	7STRP	0.112471,0.0,0,0	Slew =,1.51	2R7	0416	180,606:48:0		
90	041	04:53:56.266	117C105A106D4K	7STRP	-0.100335,-0.005	Slew =17.01	2R7	0416	180,607:80:0		
90	041	04:54:14.266	117C105A106D4L	7STRP	0.112471,0.0,0,0	Slew =,1.51	2R7	0416	180,608:16:0		
90	041	04:55:36.266	117C105A106E4A	7STRP	-0.124639,-0.008	Slew =17.01	2R7	0416	180,609:48:0		
90	041	04:55:54.266	117C105A106E4B	7STRP	0.140922,0.0,0,0	Slew =,1.51	2R7	0416	180,609:75:0		
90	041	04:57:39.600	117C105A106E4C	7STRP	-0.124639,-0.008	Slew =17.01	2R7	0416	180,611:51:0		
90	041	04:57:57.600	117C105A106E4D	7STRP	0.140922,0.0,0,0	Slew =,1.51	2R7	0416	180,611:78:0		
90	041	04:59:42.266	117C105A106E4E	7STRP	-0.124639,-0.008	Slew =17.01	2R7	0416	180,613:53:0		
90	041	05:00:00.266	117C105A106E4F	7STRP	0.140922,0.0,0,0	Slew =,1.51	2R7	0416	180,613:80:0		
90	041	05:01:45.600	117C105A106E4G	7STRP	-0.124639,-0.008	Slew =17.01	2R7	0416	180,615:56:0		
90	041	05:02:03.600	117C105A106E4H	7STRP	0.140922,0.0,0,0	Slew =,1.51	2R7	0416	180,615:83:0		
90	041	05:03:14.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6300 +/- 3;	2R7	0416	180,617:08:0		
90	041	05:03:14.933	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,617:08:0		
90	041	05:03:16.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *6299 +/- 3;	2R7	0416	180,617:09:8		
90	041	05:03:48.000	VPDIN2		-----STOP-------		2R7	0416	: :		
90	041	05:03:48.266		DMS:	*RUNUP	R7, TRACK 2, REV, TIC 6299 +/- 3;	2R7	0416	180,617:58:0		
90	041	05:03:48.266	175JC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	0416	180,617:58:0		
90	041	05:03:48.266	117C11A	CSMOS	GE	***** GROUP END CSMOS	2R7	0416	180,617:58:0		
90	041	05:03:49.733		DMS:	*RECORD	R7, TRACK 2, REV, TIC *6298 +/- 3;	2R7	0416	180,617:60:2		
90	041	05:03:52.933	176JC6A	6TMCHG	EHRLRS		2R7	0416	180,617:65:0		
90	041	05:03:54.266	165I4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	0416	180,617:67:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	05:03:54.933	165I4B	7SCAN	NORM,278.089996,	Check S/P Position	2R7	0416	180,617:68:0		
90	041	05:04:20.933	117H	CSMOS	GS	***** GROUP START CSMOS	2R7	0416	180,618:16:0		
90	041	05:04:30.266	117H105A106A4A	7STRP	0.130737,0.30137	Slew =,0.31	2R7	0416	180,618:30:0		
90	041	05:12:12.266	175JC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,625:86:0		
90	041	05:12:12.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *6183 +/- 3;	2R7	0416	180,625:86:0		
90	041	05:12:12.933		DMS:	*RUNUP	R403, TRACK 2, REV, TIC 6183 +/- 3;	2R7	0416	180,625:87:0		
90	041	05:12:12.933	175FA422A6A	6DMSC	R403,0	DMS Control Tape runup 403.2kb	2R7	0416	180,625:87:0		
90	041	05:12:15.600	176FA6A	6TMCHG	NCGIM4	NO CHANGE / 403.2 KBPS IMAGE + 1/8 NIMS RE	2R7	0416	180,626:00:0		
90	041	05:12:16.733		DMS:	*RECORD	R403, TRACK 2, REV, TIC *6161 +/- 8;	2R7	0416	180,626:01:7		
90	041	05:12:50.266	175FA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,626:52:0		
90	041	05:12:50.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5748 +/- 8;	2R7	0416	180,626:52:0		
90	041	05:12:53.066		DMS:	*READY	RDY, TRACK 2, REV, TIC *5744 +/- 9;	2R7	0416	180,626:56:2		
90	041	05:12:54.266	175MC422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	0416	180,626:58:0		
90	041	05:12:54.266		DMS:	*RUNUP	R7, TRACK 2, REV, TIC 5744 +/- 9;	2R7	0416	180,626:58:0		
90	041	05:12:55.733		DMS:	*RECORD	R7, TRACK 2, REV, TIC *5743 +/- 10;	2R7	0416	180,626:60:2		
90	041	05:12:58.933	176MC6A	6TMCHG	EHRLRS		2R7	0416	180,626:65:0		
90	041	05:22:29.600	117H11A	CSMOS	GE	***** GROUP END CSMOS	2R7	0416	180,636:11:0		
90	041	05:22:42.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5609 +/- 10;	2R7	0416	180,636:31:0		
90	041	05:22:42.933	175MC422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,636:31:0		
90	041	05:22:44.200		DMS:	*READY	RDY, TRACK 2, REV, TIC *5608 +/- 10;	2R7	0416	180,636:32:9		
90	041	05:22:44.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 5608 +/- 10;	2R7	0416	180,636:33:0		
90	041	05:22:44.266	260MB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R7	0416	180,636:33:0		
90	041	05:22:48.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *5601 +/- 11;	2R7	0416	180,636:39:0		
90	041	05:22:48.266	260MB476A6A	6TMCHG	NCGHPW	NO CHANGE / 115.2 KBPS PWS + NIMS RECORD	2R7	0416	180,636:39:0		
90	041	05:23:41.600	165J4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R7	0416	180,637:28:0		
90	041	05:23:42.266	165J4B	7SCAN	NORM,270.849998,	Check S/P Position	2R7	0416	180,637:29:0		
90	041	05:24:08.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5319 +/- 11;	2R7	0416	180,637:68:0		
90	041	05:24:08.266	260MB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R7	0416	180,637:68:0		
90	041	05:24:09.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *5318 +/- 11;	2R7	0416	180,637:69:8		
90	041	05:24:10.266		DMS:	*RUNUP	R7, TRACK 2, REV, TIC 5318 +/- 11;	2R7	0416	180,637:71:0		
90	041	05:24:10.266	175MB422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	2R7	0416	180,637:71:0		
90	041	05:24:11.733		DMS:	*RECORD	R7, TRACK 2, REV, TIC *5317 +/- 11;	2R7	0416	180,637:73:2		
90	041	05:24:14.266	117I	CSMOS	GS	***** GROUP START CSMOS	2R7	0416	180,637:77:0		
90	041	05:24:14.933	176MB6A	6TMCHG	EHRLRS		2R7	0416	180,637:78:0		
90	041	05:24:23.600	117I105A106A4A	7STRP	-0.080171,0.2240	Slew =,2.89	2R7	0416	180,638:00:0		
90	041	05:26:23.600	117I105A106B4A	7STRP	0.012001,0.03001	Slew =10.92	2R7	0416	180,639:89:0		
90	041	05:26:53.600	117I105A106B4B	7STRP	0.083191,0.24553	Slew =,2.89	2R7	0416	180,640:43:0		
90	041	05:28:53.600	117I11A	CSMOS	GE	***** GROUP END CSMOS	2R7	0416	180,642:41:0		
90	041	05:31:23.600	128IE149A131A4A	37IOP	4,0	Long Spectrometer, Grating Start Position	2R4	0400	180,644:84:0		
90	041	05:31:44.000	VLSN		-----START------		2R4	0400	:	:	
90	041	05:31:44.266	165D4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R4	0400	180,645:24:0		
90	041	05:31:44.933	165D4B	7SCAN	NORM,246.206999,	Check S/P Position	2R4	0400	180,645:25:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	05:32:24.266	128IE149A131B4A	37IST	1,2,1,OFF,1,1,1	Chopper ON, Sync, Chopper (Ref)OPCALGain S	4R4	0400	180,645	84	0
90	041	05:32:48.933	117D	CSMOS	GS	***** GROUP START CSMOS	4R4	0400	180,646	30	0
90	041	05:32:54.266	175MB422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R4	0400	180,646	38	0
90	041	05:32:54.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *5198 +/- 11;	4R4	0400	180,646	38	0
90	041	05:32:54.933		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 5198 +/- 11;	4R4	0400	180,646	39	0
90	041	05:32:54.933	176IE6A	6TMCHG	EHRMPW		4R4	0400	180,646	39	0
90	041	05:32:54.933	175IE422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R4	0400	180,646	39	0
90	041	05:32:58.933		DMS:	*RECORD	R28, TRACK 2, REV, TIC *5196 +/- 11;	4R4	0400	180,646	45	0
90	041	05:32:59.600	117D105A106A4A	7STRP	0.087522,-0.0487	Slew =,0.26	4R4	0400	180,646	46	0
90	041	05:33:03.600	476E6A	6TMCHG	EHRMPW		4R4	0400	180,646	52	0
90	041	05:38:52.933	175IE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R4	0400	180,652	30	0
90	041	05:38:52.933	117D11A	CSMOS	GE	***** GROUP END CSMOS	4R4	0400	180,652	30	0
90	041	05:38:52.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *4884 +/- 11;	4R4	0400	180,652	30	0
90	041	05:38:54.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *4883 +/- 11;	4R4	0400	180,652	31	8
90	041	05:38:54.266	175JE422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R4	0400	180,652	32	0
90	041	05:38:54.266		DMS:	*RUNUP	R7, TRACK 2, REV, TIC 4883 +/- 11;	4R4	0400	180,652	32	0
90	041	05:38:55.000	VLSN		-----STOP-------		4R4	0400		:	:
90	041	05:38:55.733		DMS:	*RECORD	R7, TRACK 2, REV, TIC *4882 +/- 11;	4R4	0400	180,652	34	2
90	041	05:38:58.933	176JE6A	6TMCHG	EHRLRS		4R4	0400	180,652	39	0
90	041	05:39:28.933	157IE156A121A4A	37IOP	0,0	Safe, Grating Start Position =0	4R0	0400	180,652	84	0
90	041	05:40:02.933	165K4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	0400	180,653	44	0
90	041	05:40:03.600	165K4B	7SCAN	NORM,254.012999,	Check S/P Position	4R0	0400	180,653	45	0
90	041	05:40:24.933	117J	CSMOS	GS	***** GROUP START CSMOS	4R0	0400	180,653	77	0
90	041	05:40:34.266	117J105A106A4A	7STRP	0.207921,-0.1409	Slew =0,0.3	4R0	0400	180,654	00	0
90	041	05:50:02.266	481H4A	7VECT		Inert vect update UTC	4R0	0400	180,663	33	0
90	041	05:52:34.266	117J11A	CSMOS	GE	***** GROUP END CSMOS	4R0	0400	180,665	79	0
90	041	05:55:12.933	165BA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	0400	180,668	44	0
90	041	05:55:13.600	165BA4B	7SCAN	NORM,222.832998,	Check S/P Position	4R0	0400	180,668	45	0
90	041	05:55:34.933	117N	CSMOS	GS	***** GROUP START CSMOS	4R0	0400	180,668	77	0
90	041	05:55:44.266	117N105A106A4A	7STRP	0.0001,0.0001,0,	Slew =0,1.5	4R0	0400	180,669	00	0
90	041	05:56:31.600	117N105A106A4B	7STRP	0.022004,-0.0120	Slew =10.52	4R0	0400	180,669	71	0
90	041	05:56:44.266	117N105A106A4C	7STRP	0.0001,0.0001,0,	Slew =0,1.5	4R0	0400	180,669	90	0
90	041	05:57:31.600	117N105A106A4D	7STRP	0.022004,-0.0120	Slew =10.52	4R0	0400	180,670	70	0
90	041	05:57:44.266	117N105A106A4E	7STRP	0.0001,0.0001,0,	Slew =0,1.5	4R0	0400	180,670	89	0
90	041	05:58:31.600	117N105A106B4A	7STRP	-0.039521,-0.279	Slew =10.52	4R0	0400	180,671	69	0
90	041	05:59:02.266	20CD3B	40T1P	2	PCT Heater 1 ON (primary relay)	4R0	0400	180,672	24	0
90	041	05:59:02.266	20CD3A	40T1P	1	PCT Heater 1 ON (primary relay)	4R0	0400	180,672	24	0
90	041	05:59:19.600	117N105A106B4B	7STRP	0.120579,0.48556	Slew =0,1.5	4R0	0400	180,672	50	0
90	041	06:05:45.600	117N11A	CSMOS	GE	***** GROUP END CSMOS	4R0	0400	180,678	83	0
90	041	06:07:44.933	165E4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R0	0400	180,680	80	0
90	041	06:07:45.000	VLSD		-----START------		4R0	0400		:	:
90	041	06:07:45.600	165E4B	7SCAN	NORM,242.643999,	Check S/P Position	4R0	0400	180,680	81	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	06:08:48.266	128IF149A131A4A	37IOP	4,0	Long Spectrometer, Grating Start Position	4R4	0400	180,681	84	0
90	041	06:08:50.933	117E	CSMOS	GS	***** GROUP START CSMOS	4R4	0400	180,681	88	0
90	041	06:08:52.266	175JE422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R4	0400	180,681	90	0
90	041	06:08:52.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *4470 +/- 11;	4R4	0400	180,681	90	0
90	041	06:08:52.933	176IF6A	6TMCHG	EHRMPW		4R4	0400	180,682	00	0
90	041	06:08:53.533		DMS:	*READY	RDY, TRACK 2, REV, TIC *4469 +/- 11;	4R4	0400	180,682	00	9
90	041	06:08:55.600		DMS:	*RUNUP	R28, TRACK 2, REV, TIC 4469 +/- 11;	4R4	0400	180,682	04	0
90	041	06:08:55.600	175IF422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	4R4	0400	180,682	04	0
90	041	06:08:59.600		DMS:	*RECORD	R28, TRACK 2, REV, TIC *4468 +/- 11;	4R4	0400	180,682	10	0
90	041	06:09:00.266	117E105A106A4A	7STRP	0.064389,-0.0467	Slew =,0.28	4R4	0400	180,682	11	0
90	041	06:12:53.600	175IF422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R4	0400	180,685	88	0
90	041	06:12:53.600		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *4261 +/- 11;	4R4	0400	180,685	88	0
90	041	06:12:54.800		DMS:	*READY	RDY, TRACK 2, REV, TIC *4260 +/- 11;	4R4	0400	180,685	89	8
90	041	06:12:54.933		DMS:	*RUNUP	R7, TRACK 2, REV, TIC 4260 +/- 11;	4R4	0400	180,685	90	0
90	041	06:12:54.933	175HO422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4R4	0400	180,685	90	0
90	041	06:12:55.600	176HO6A	6TMCHG	EHRLRS		4R4	0400	180,686	00	0
90	041	06:12:56.400		DMS:	*RECORD	R7, TRACK 2, REV, TIC *4259 +/- 12;	4R4	0400	180,686	01	2
90	041	06:13:00.000	VLSD		-----STOP-------		4R4	0400		:	:
90	041	06:13:00.266	117E11A	CSMOS	GE	***** GROUP END CSMOS	4R4	0400	180,686	07	0
90	041	06:13:01.600	165BB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R4	0400	180,686	09	0
90	041	06:13:02.266	165BB4B	7SCAN	NORM,239.390999,	Check S/P Position	4R4	0400	180,686	10	0
90	041	06:13:19.600	117O	CSMOS	GS	***** GROUP START CSMOS	4R4	0400	180,686	36	0
90	041	06:13:28.933	117O105A106A4A	7STRP	0.125655,-0.0650	Slew =0,0.4	4R4	0400	180,686	50	0
90	041	06:18:48.266	117O105A106B4A	7STRP	0.18714,-0.01400	Slew =16.88	4R4	0400	180,691	74	0
90	041	06:19:20.266	117O105A106B4B	7STRP	-0.22467,-0.0701	Slew =0,0.4	4R4	0400	180,692	31	0
90	041	06:29:01.600	157F156A121A4A	37IST	1,2,0,OFF,0,1,3	Chopper ON, Sync, Chopper (Ref)Gain State	1R4	0400	180,701	84	0
90	041	06:29:04.266	117O11A	CSMOS	GE	***** GROUP END CSMOS	1R4	0400	180,701	88	0
90	041	06:29:04.266	165L4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R4	0400	180,701	88	0
90	041	06:29:04.933	165L4B	7SCAN	NORM,183.052999,	Check S/P Position	1R4	0400	180,701	89	0
90	041	06:29:50.933	117K	CSMOS	GS	***** GROUP START CSMOS	1R4	0400	180,702	67	0
90	041	06:30:00.266	117K105A106A4A	7STRP	-0.135826,-0.060	Slew =0,3.2	1R4	0400	180,702	81	0
90	041	06:30:02.266	157F156A121B4A	37IOP	3,0	Long Map, Grating Start Position =0	1R3	0400	180,702	84	0
90	041	06:30:49.600	117K105A106A4B	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,703	64	0
90	041	06:31:09.600	117K105A106A4C	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,704	03	0
90	041	06:31:58.266	117K105A106A4D	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,704	76	0
90	041	06:32:18.266	117K105A106A4E	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,705	15	0
90	041	06:33:07.600	117K105A106A4F	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,705	89	0
90	041	06:33:27.600	117K105A106A4G	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,706	28	0
90	041	06:34:16.266	117K105A106A4H	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,707	10	0
90	041	06:34:36.266	117K105A106A4I	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,707	40	0
90	041	06:35:25.600	117K105A106A4J	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,708	23	0
90	041	06:35:45.600	117K105A106A4K	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,708	53	0

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	06:36:34.266	117K105A106A4L	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,709:35:0		
90	041	06:36:54.266	117K105A106A4M	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,709:65:0		
90	041	06:37:43.600	117K105A106A4N	7STRP	0.136845,0.07333	Slew =13.09	1R3	0400	180,710:48:0		
90	041	06:38:03.600	117K105A106A4O	7STRP	-0.135826,-0.060	Slew =0,3.2	1R3	0400	180,710:78:0		
90	041	06:38:28.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3908 +/- 12;	1R3	0400	180,711:25:0		
90	041	06:38:28.933	175HO422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,711:25:0		
90	041	06:38:30.200		DMS:	*READY	RDY, TRACK 2, REV, TIC *3907 +/- 12;	1R3	0400	180,711:26:9		
90	041	06:38:52.266	117K11A	CSMOS	GE	***** GROUP END CSMOS	1R3	0400	180,711:60:0		
90	041	07:29:54.933	476W6A	6TMCHG	EHR		1R3	0400	180,762:13:0		
90	041	07:36:35.600	165AX4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	180,768:68:0		
90	041	07:36:36.266	165AX4B	7SCAN	NORM,153.476,46.	Check S/P Position	1R3	0400	180,768:69:0		
90	041	07:37:50.266	175FB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	180,769:89:0		
90	041	07:37:50.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 3907 +/- 12;	1R3	0400	180,769:89:0		
90	041	07:37:51.600	176FB6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	180,770:00:0		
90	041	07:37:54.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *3900 +/- 13;	1R3	0400	180,770:04:0		
90	041	07:37:54.933	118U110A111A4A	7STRP	0.0008,-0.0023,9	Slew =,0.79	1R3	0400	180,770:05:0		
90	041	07:38:25.600	118U110A111B4A	7STRP	-0.01,-0.051143,	Slew =,3.97	1R3	0400	180,770:51:0		
90	041	07:38:52.266	175FB422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,771:00:0		
90	041	07:38:52.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3696 +/- 13;	1R3	0400	180,771:00:0		
90	041	07:38:53.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *3695 +/- 13;	1R3	0400	180,771:01:8		
90	041	07:39:20.933	175GW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	180,771:43:0		
90	041	07:39:20.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 3695 +/- 13;	1R3	0400	180,771:43:0		
90	041	07:39:24.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *3689 +/- 14;	1R3	0400	180,771:49:0		
90	041	07:39:26.933	118U110A111B4B	7STRP	0.0008,-0.0023,9	Slew =,0.79	1R3	0400	180,771:52:0		
90	041	07:39:57.600	118U110A111C4A	7STRP	0.008,-0.051138,	Slew =,3.97	1R3	0400	180,772:07:0		
90	041	07:40:22.933	175GW422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,772:45:0		
90	041	07:40:22.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3484 +/- 14;	1R3	0400	180,772:45:0		
90	041	07:40:24.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *3483 +/- 14;	1R3	0400	180,772:46:8		
90	041	07:40:52.266	175GX422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	180,772:89:0		
90	041	07:40:52.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 3483 +/- 14;	1R3	0400	180,772:89:0		
90	041	07:40:56.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *3477 +/- 15;	1R3	0400	180,773:04:0		
90	041	07:40:58.933	118U110A111C4B	7STRP	0.0008,-0.0023,9	Slew =,0.79	1R3	0400	180,773:08:0		
90	041	07:41:29.600	118U110A111D4A	7STRP	0.025005,-0.0450	Slew =,3.97	1R3	0400	180,773:54:0		
90	041	07:41:54.266	175GX422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,774:00:0		
90	041	07:41:54.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3273 +/- 15;	1R3	0400	180,774:00:0		
90	041	07:41:55.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *3272 +/- 15;	1R3	0400	180,774:01:8		
90	041	07:42:22.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 3272 +/- 15;	1R3	0400	180,774:43:0		
90	041	07:42:22.933	175GY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	180,774:43:0		
90	041	07:42:26.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *3265 +/- 16;	1R3	0400	180,774:49:0		
90	041	07:42:30.933	118U110A111D4B	7STRP	0.0008,-0.0023,9	Slew =,0.79	1R3	0400	180,774:55:0		
90	041	07:43:01.600	118U110A111E4A	7STRP	0.036016,-0.0320	Slew =,3.97	1R3	0400	180,775:10:0		
90	041	07:43:24.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *3061 +/- 16;	1R3	0400	180,775:45:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	041	07:43:24.933	175GY422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,775:45:0		
90	041	07:43:26.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *3060 +/- 16;	1R3	0400	180,775:46:8		
90	041	07:43:54.266	175GZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	180,775:89:0		
90	041	07:43:54.266		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 3060 +/- 16;	1R3	0400	180,775:89:0		
90	041	07:43:58.266		DMS:	*RECORD	R115, TRACK 2, REV, TIC *3054 +/- 17;	1R3	0400	180,776:04:0		
90	041	07:44:02.933	118U110A111E4B	7STRP	0.0008,-0.0023,9	Slew =,0.79	1R3	0400	180,776:11:0		
90	041	07:44:56.266	175GZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,777:00:0		
90	041	07:44:56.266		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2849 +/- 17;	1R3	0400	180,777:00:0		
90	041	07:44:57.466		DMS:	*READY	RDY, TRACK 2, REV, TIC *2848 +/- 17;	1R3	0400	180,777:01:8		
90	041	07:45:25.600	165BC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	180,777:44:0		
90	041	07:45:26.266	165BC4B	7SCAN	NORM,150.441,32.	Check S/P Position	1R3	0400	180,777:45:0		
90	041	07:45:47.600	117P	CSMOS	GS	***** GROUP START CSMOS	1R3	0400	180,777:77:0		
90	041	07:45:52.266		DMS:	*RUNUP	R7, TRACK 2, REV, TIC 2848 +/- 17;	1R3	0400	180,777:84:0		
90	041	07:45:52.266	175JG422A6A	6DMSC	R7,0	DMS Control Tape runup 7.68kps	1R3	0400	180,777:84:0		
90	041	07:45:53.733		DMS:	*RECORD	R7, TRACK 2, REV, TIC *2847 +/- 17;	1R3	0400	180,777:86:2		
90	041	07:45:56.933	176JG6A	6TMCHG	EHRLRS		1R3	0400	180,778:00:0		
90	041	07:45:56.933	117P105A106A4A	7STRP	-0.080171,-0.142	Slew =,0.48	1R3	0400	180,778:00:0		
90	041	07:58:32.266	117P105A106B4A	7STRP	0.050042,0.03205	Slew =10.97	1R3	0400	180,790:41:0		
90	041	07:59:06.933	117P105A106B4B	7STRP	-0.19232,0.10758	Slew =,0.48	1R3	0400	180,791:02:0		
90	041	08:10:16.933	117P105A106C4A	7STRP	0.171657,0.02000	Slew =10.97	1R3	0400	180,802:06:0		
90	041	08:11:26.933	117P105A106C4B	7STRP	-0.135826,-0.218	Slew =,0.48	1R3	0400	180,803:20:0		
90	041	08:34:56.933	175JG422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,826:42:0		
90	041	08:34:56.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2172 +/- 17;	1R3	0400	180,826:42:0		
90	041	08:34:58.200		DMS:	*READY	RDY, TRACK 2, REV, TIC *2171 +/- 18;	1R3	0400	180,826:43:9		
90	041	08:35:26.933	117P11A	CSMOS	GE	***** GROUP END CSMOS	1R3	0400	180,826:87:0		
90	041	09:36:34.933	165AY4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	180,887:38:0		
90	041	09:36:35.600	165AY4B	7SCAN	NORM,126.337,34.	Check S/P Position	1R3	0400	180,887:39:0		
90	041	09:37:08.933		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 2171 +/- 18;	1R3	0400	180,887:89:0		
90	041	09:37:08.933	175FC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	180,887:89:0		
90	041	09:37:10.266	176FC6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	180,888:00:0		
90	041	09:37:12.933		DMS:	*RECORD	R115, TRACK 2, REV, TIC *2164 +/- 19;	1R3	0400	180,888:04:0		
90	041	09:38:10.933	175FC422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	180,889:00:0		
90	041	09:38:10.933		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1960 +/- 19;	1R3	0400	180,889:00:0		
90	041	09:38:12.133		DMS:	*READY	RDY, TRACK 2, REV, TIC *1959 +/- 19;	1R3	0400	180,889:01:8		
90	041	09:43:09.600	128IG149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	1R0	0400	180,893:84:0		
90	041	10:29:53.600	476X6A	6TMCHG	EHR		1R0	0400	180,940:13:0		
90	042	04:49:58.866	490D476A6A	6TMCHG	EHRLRS		1R0	0400	182,028:13:0		
90	042	04:50:02.200	481D4A	7STAR	13,1701,278.8139	Star catalog update	1R0	0400	182,028:18:0		
90	042	04:50:04.200	481D4B	7STAR	14,267,13.419,60	Star catalog update	1R0	0400	182,028:21:0		
90	042	04:50:06.200	481D4C	7STAR	15,226,263.15399	Star catalog update	1R0	0400	182,028:24:0		
90	042	04:50:08.200	481D4D	7STAR	16,0,0.0,0.0	Star catalog update	1R0	0400	182,028:27:0		
90	042	04:50:10.200	481D4E	7STAR	17,0,0.0,0.0	Star catalog update	1R0	0400	182,028:30:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	042	04:50:12.200	481D4F	7STAR	18,0,0.0,0.0	Star catalog update	1R0	0400	182,028:33:0		
90	042	04:51:00.200	490D412A4B	7MODE	INT	AACS INERTIAL MODE	1R0	0400	182,029:14:0		
90	042	04:52:00.200	490D412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	1R0	0400	182,030:13:0		
90	042	04:56:10.200	490D412A4E	7VECT		Inert vect update UTC	1R0	0400	182,034:24:0		
90	042	04:56:14.200	490D412A4F	7TURN	2,MVR	ALERT Thruster	1R0	0400	182,034:30:0		
90	042	05:00:02.200	490D412A406A4A	7STAR	7,1701,278.81399	Star catalog update	1R0	0400	182,038:08:0		
90	042	05:00:04.200	490D412A406A4B	7STAR	8,267,13.419,60.	Star catalog update	1R0	0400	182,038:11:0		
90	042	05:00:06.200	490D412A406A4C	7STAR	9,226,263.153999	Star catalog update	1R0	0400	182,038:14:0		
90	042	05:00:08.200	490D412A406A4D	7STAR	10,0,0.0,0.0	Star catalog update	1R0	0400	182,038:17:0		
90	042	05:00:10.200	490D412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update	1R0	0400	182,038:20:0		
90	042	05:00:12.200	490D412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update	1R0	0400	182,038:23:0		
90	042	07:09:20.866	165S4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R0	0400	182,165:89:0		
90	042	07:09:21.533	165S4B	7SCAN	NORM,116.188,25.	Check S/P Position	1R0	0400	182,165:90:0		
90	042	07:12:19.533	128C149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	1R3	0400	182,168:84:0		
90	042	07:13:20.200	128C149A131B4A	37IST	1,2,0,OFF,0,1,3	Chopper ON, Sync, Chopper (Ref)Gain State	1R3	0400	182,169:84:0		
90	042	07:13:23.533	175FD422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,169:89:0		
90	042	07:13:23.533		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 1959 +/- 19;	1R3	0400	182,169:89:0		
90	042	07:13:24.866	176FD6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,170:00:0		
90	042	07:13:27.533		DMS:	*RECORD	R115, TRACK 2, REV, TIC *1953 +/- 20;	1R3	0400	182,170:04:0		
90	042	07:13:28.200	118B110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,170:05:0		
90	042	07:14:25.533		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1748 +/- 20;	1R3	0400	182,171:00:0		
90	042	07:14:25.533	175FD422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,171:00:0		
90	042	07:14:26.733		DMS:	*READY	RDY, TRACK 2, REV, TIC *1747 +/- 20;	1R3	0400	182,171:01:8		
90	042	07:23:04.200	165T4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,179:50:0		
90	042	07:23:04.866	165T4B	7SCAN	NORM,116.165,25.	Check S/P Position	1R3	0400	182,179:51:0		
90	042	07:23:30.200	175FE422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,179:89:0		
90	042	07:23:30.200		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 1747 +/- 20;	1R3	0400	182,179:89:0		
90	042	07:23:31.533	176FE6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,180:00:0		
90	042	07:23:34.200		DMS:	*RECORD	R115, TRACK 2, REV, TIC *1741 +/- 21;	1R3	0400	182,180:04:0		
90	042	07:23:34.866	118C110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,180:05:0		
90	042	07:24:32.200		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1537 +/- 21;	1R3	0400	182,181:00:0		
90	042	07:24:32.200	175FE422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,181:00:0		
90	042	07:24:33.400		DMS:	*READY	RDY, TRACK 2, REV, TIC *1536 +/- 21;	1R3	0400	182,181:01:8		
90	042	07:53:24.200	165U4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,209:50:0		
90	042	07:53:24.866	165U4B	7SCAN	NORM,116.127,25.	Check S/P Position	1R3	0400	182,209:51:0		
90	042	07:53:50.200		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 1536 +/- 21;	1R3	0400	182,209:89:0		
90	042	07:53:50.200	175FF422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,209:89:0		
90	042	07:53:51.533	176FF6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,210:00:0		
90	042	07:53:54.200		DMS:	*RECORD	R115, TRACK 2, REV, TIC *1529 +/- 22;	1R3	0400	182,210:04:0		
90	042	07:53:54.866	118D110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,210:05:0		
90	042	07:54:52.200		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1325 +/- 22;	1R3	0400	182,211:00:0		
90	042	07:54:52.200	175FF422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,211:00:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	042	07:54:53.400		DMS:	*READY	RDY, TRACK 2, REV, TIC *1324 +/- 22;	1R3	0400	182,211	01	8
90	042	08:14:56.866	476AA6A	6TMCHG	EHR		1R3	0400	182,230	78	0
90	042	09:13:16.866	165V4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,288	50	0
90	042	09:13:17.533	165V4B	7SCAN	NORM,116.042999,	Check S/P Position	1R3	0400	182,288	51	0
90	042	09:13:42.866		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 1324 +/- 22;	1R3	0400	182,288	89	0
90	042	09:13:42.866	175FG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,288	89	0
90	042	09:13:44.200	176FG6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,289	00	0
90	042	09:13:46.866		DMS:	*RECORD	R115, TRACK 2, REV, TIC *1318 +/- 23;	1R3	0400	182,289	04	0
90	042	09:13:47.533	118E110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,289	05	0
90	042	09:14:44.866		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *1113 +/- 23;	1R3	0400	182,290	00	0
90	042	09:14:44.866	175FG422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,290	00	0
90	042	09:14:46.066		DMS:	*READY	RDY, TRACK 2, REV, TIC *1112 +/- 23;	1R3	0400	182,290	01	8
90	042	09:23:23.533	165W4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,298	50	0
90	042	09:23:24.200	165W4B	7SCAN	NORM,116.028,25.	Check S/P Position	1R3	0400	182,298	51	0
90	042	09:23:49.533		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 1112 +/- 23;	1R3	0400	182,298	89	0
90	042	09:23:49.533	175FH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,298	89	0
90	042	09:23:50.866	176FH6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,299	00	0
90	042	09:23:53.533		DMS:	*RECORD	R115, TRACK 2, REV, TIC *1106 +/- 24;	1R3	0400	182,299	04	0
90	042	09:23:54.200	118F110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,299	05	0
90	042	09:24:51.533		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 902 +/- 24;	1R3	0400	182,300	00	0
90	042	09:24:51.533	175FH422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,300	00	0
90	042	09:24:52.733		DMS:	*READY	RDY, TRACK 2, REV, TIC * 901 +/- 24;	1R3	0400	182,300	01	8
90	042	09:52:42.866	165X4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,327	50	0
90	042	09:52:43.533	165X4B	7SCAN	NORM,115.997,25.	Check S/P Position	1R3	0400	182,327	51	0
90	042	09:53:08.866		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 901 +/- 24;	1R3	0400	182,327	89	0
90	042	09:53:08.866	175FI422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,327	89	0
90	042	09:53:10.200	176FI6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,328	00	0
90	042	09:53:12.866		DMS:	*RECORD	R115, TRACK 2, REV, TIC * 894 +/- 25;	1R3	0400	182,328	04	0
90	042	09:53:13.533	118G110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,328	05	0
90	042	09:54:10.866		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 690 +/- 25;	1R3	0400	182,329	00	0
90	042	09:54:10.866	175FI422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,329	00	0
90	042	09:54:12.066		DMS:	*READY	RDY, TRACK 2, REV, TIC * 689 +/- 26;	1R3	0400	182,329	01	8
90	042	11:12:35.533	165Y4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,406	50	0
90	042	11:12:36.200	165Y4B	7SCAN	NORM,115.921,25.	Check S/P Position	1R3	0400	182,406	51	0
90	042	11:13:01.533	175FJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,406	89	0
90	042	11:13:01.533		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 689 +/- 26;	1R3	0400	182,406	89	0
90	042	11:13:02.866	176FJ6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,407	00	0
90	042	11:13:05.533		DMS:	*RECORD	R115, TRACK 2, REV, TIC * 683 +/- 27;	1R3	0400	182,407	04	0
90	042	11:13:06.200	118H110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,407	05	0
90	042	11:14:03.533	175FJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,408	00	0
90	042	11:14:03.533		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 478 +/- 27;	1R3	0400	182,408	00	0
90	042	11:14:04.733		DMS:	*READY	RDY, TRACK 2, REV, TIC * 477 +/- 27;	1R3	0400	182,408	01	8

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	042	11:22:42.200	165Z4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,416:50:0		
90	042	11:22:42.866	165Z4B	7SCAN	NORM,115.91,25.3	Check S/P Position	1R3	0400	182,416:51:0		
90	042	11:23:08.200	175FK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,416:89:0		
90	042	11:23:08.200		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 477 +/- 27;	1R3	0400	182,416:89:0		
90	042	11:23:09.533	176FK6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,417:00:0		
90	042	11:23:12.200		DMS:	*RECORD	R115, TRACK 2, REV, TIC * 471 +/- 28;	1R3	0400	182,417:04:0		
90	042	11:23:12.866	118I110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,417:05:0		
90	042	11:24:10.200	175FK422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,418:00:0		
90	042	11:24:10.200		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC * 267 +/- 28;	1R3	0400	182,418:00:0		
90	042	11:24:11.400		DMS:	*READY	RDY, TRACK 2, REV, TIC * 266 +/- 28;	1R3	0400	182,418:01:8		
90	042	11:53:02.200	165AA4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,446:50:0		
90	042	11:53:02.866	165AA4B	7SCAN	NORM,115.884,25.	Check S/P Position	1R3	0400	182,446:51:0		
90	042	11:53:28.200		DMS:	*RUNUP	R115, TRACK 2, REV, TIC 266 +/- 28;	1R3	0400	182,446:89:0		
90	042	11:53:28.200	175FL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,446:89:0		
90	042	11:53:29.533	176FL6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,447:00:0		
90	042	11:53:32.200		DMS:	*RECORD	R115, TRACK 2, REV, TIC * 259 +/- 29;	1R3	0400	182,447:04:0		
90	042	11:53:32.866	118J110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,447:05:0		
90	042	11:53:49.133		DMS:	*REVERSE	R115, TRACK 2, REV, TIC * 200 +/- 29;	1R3	0400	182,447:29:4		
90	042	11:53:54.333		DMS:	*RESUME	R115, TRACK *3, *FWD, TIC * 205 +/- 30;	1R3	0400	182,447:37:2		
90	042	11:54:30.200		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC * 331 +/- 30;	1R3	0400	182,448:00:0		
90	042	11:54:30.200	175FL422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,448:00:0		
90	042	11:54:31.400		DMS:	*READY	RDY, TRACK 3, FWD, TIC * 332 +/- 30;	1R3	0400	182,448:01:8		
90	042	12:14:00.200	476AB6A	6TMCHG	EHR		1R3	0400	182,467:26:0		
90	042	13:12:54.866	165AB4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,525:50:0		
90	042	13:12:55.533	165AB4B	7SCAN	NORM,115.815,25.	Check S/P Position	1R3	0400	182,525:51:0		
90	042	13:13:20.866	175FM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,525:89:0		
90	042	13:13:20.866		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 332 +/- 30;	1R3	0400	182,525:89:0		
90	042	13:13:22.200	176FM6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,526:00:0		
90	042	13:13:24.866		DMS:	*RECORD	R115, TRACK 3, FWD, TIC * 339 +/- 31;	1R3	0400	182,526:04:0		
90	042	13:13:25.533	118K110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,526:05:0		
90	042	13:14:22.866	175FM422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,527:00:0		
90	042	13:14:22.866		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC * 543 +/- 31;	1R3	0400	182,527:00:0		
90	042	13:14:24.066		DMS:	*READY	RDY, TRACK 3, FWD, TIC * 544 +/- 31;	1R3	0400	182,527:01:8		
90	042	13:43:14.866	165AC4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,555:50:0		
90	042	13:43:15.533	165AC4B	7SCAN	NORM,115.792,25.	Check S/P Position	1R3	0400	182,555:51:0		
90	042	13:43:40.866	175FN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,555:89:0		
90	042	13:43:40.866		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 544 +/- 31;	1R3	0400	182,555:89:0		
90	042	13:43:42.200	176FN6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,556:00:0		
90	042	13:43:44.866		DMS:	*RECORD	R115, TRACK 3, FWD, TIC * 550 +/- 32;	1R3	0400	182,556:04:0		
90	042	13:43:45.533	118L110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,556:05:0		
90	042	13:44:42.866	175FN422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,557:00:0		
90	042	13:44:42.866		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC * 755 +/- 32;	1R3	0400	182,557:00:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	042	13:44:44.066		DMS:	*READY	RDY, TRACK 3, FWD, TIC * 756 +/- 33;	1R3	0400	182,557	01	8
90	042	14:29:55.533	476AC6A	6TMCHG	EHR		1R3	0400	182,601	65	0
90	042	15:13:14.200	165AD4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,644	50	0
90	042	15:13:14.866	165AD4B	7SCAN	NORM,115.721,25.	Check S/P Position	1R3	0400	182,644	51	0
90	042	15:13:40.200	175FO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,644	89	0
90	042	15:13:40.200		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 756 +/- 33;	1R3	0400	182,644	89	0
90	042	15:13:41.533	176FO6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,645	00	0
90	042	15:13:44.200		DMS:	*RECORD	R115, TRACK 3, FWD, TIC * 762 +/- 34;	1R3	0400	182,645	04	0
90	042	15:13:44.866	118M110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,645	05	0
90	042	15:14:42.200		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC * 966 +/- 34;	1R3	0400	182,646	00	0
90	042	15:14:42.200	175FO422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,646	00	0
90	042	15:14:43.400		DMS:	*READY	RDY, TRACK 3, FWD, TIC * 967 +/- 34;	1R3	0400	182,646	01	8
90	042	15:42:33.533	165AE4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,673	50	0
90	042	15:42:34.200	165AE4B	7SCAN	NORM,115.702,25.	Check S/P Position	1R3	0400	182,673	51	0
90	042	15:42:59.533		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 967 +/- 34;	1R3	0400	182,673	89	0
90	042	15:42:59.533	175FP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,673	89	0
90	042	15:43:00.866	176FP6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,674	00	0
90	042	15:43:03.533		DMS:	*RECORD	R115, TRACK 3, FWD, TIC * 974 +/- 35;	1R3	0400	182,674	04	0
90	042	15:43:04.200	118N110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,674	05	0
90	042	15:44:01.533		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *1178 +/- 35;	1R3	0400	182,675	00	0
90	042	15:44:01.533	175FP422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,675	00	0
90	042	15:44:02.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *1179 +/- 35;	1R3	0400	182,675	01	8
90	042	17:12:32.866	165AF4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,762	50	0
90	042	17:12:33.533	165AF4B	7SCAN	NORM,115.643999,	Check S/P Position	1R3	0400	182,762	51	0
90	042	17:12:58.866		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 1179 +/- 35;	1R3	0400	182,762	89	0
90	042	17:12:58.866	175FQ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,762	89	0
90	042	17:13:00.200	176FQ6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,763	00	0
90	042	17:13:02.866		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *1186 +/- 36;	1R3	0400	182,763	04	0
90	042	17:13:03.533	118O110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,763	05	0
90	042	17:14:00.866	175FQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,764	00	0
90	042	17:14:00.866		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *1390 +/- 36;	1R3	0400	182,764	00	0
90	042	17:14:02.066		DMS:	*READY	RDY, TRACK 3, FWD, TIC *1391 +/- 36;	1R3	0400	182,764	01	8
90	042	17:42:52.866	165AG4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,792	50	0
90	042	17:42:53.533	165AG4B	7SCAN	NORM,115.624,25.	Check S/P Position	1R3	0400	182,792	51	0
90	042	17:43:18.866	175FR422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,792	89	0
90	042	17:43:18.866		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 1391 +/- 36;	1R3	0400	182,792	89	0
90	042	17:43:20.200	176FR6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,793	00	0
90	042	17:43:22.866		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *1397 +/- 37;	1R3	0400	182,793	04	0
90	042	17:43:23.533	118P110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,793	05	0
90	042	17:44:20.866		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *1601 +/- 37;	1R3	0400	182,794	00	0
90	042	17:44:20.866	175FR422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,794	00	0
90	042	17:44:22.066		DMS:	*READY	RDY, TRACK 3, FWD, TIC *1602 +/- 37;	1R3	0400	182,794	01	8

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	042	19:12:52.200	165AH4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,881:50:0		
90	042	19:12:52.866	165AH4B	7SCAN	NORM,115.57,25.0	Check S/P Position	1R3	0400	182,881:51:0		
90	042	19:13:18.200	175FS422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,881:89:0		
90	042	19:13:18.200		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 1602 +/- 37;	1R3	0400	182,881:89:0		
90	042	19:13:19.533	176FS6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,882:00:0		
90	042	19:13:22.200		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *1609 +/- 38;	1R3	0400	182,882:04:0		
90	042	19:13:22.866	118Q110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,882:05:0		
90	042	19:14:20.200	175FS422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,883:00:0		
90	042	19:14:20.200		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *1813 +/- 38;	1R3	0400	182,883:00:0		
90	042	19:14:21.400		DMS:	*READY	RDY, TRACK 3, FWD, TIC *1814 +/- 38;	1R3	0400	182,883:01:8		
90	042	19:43:12.200	165AI4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	182,911:50:0		
90	042	19:43:12.866	165AI4B	7SCAN	NORM,115.559999,	Check S/P Position	1R3	0400	182,911:51:0		
90	042	19:43:38.200	175FT422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	182,911:89:0		
90	042	19:43:38.200		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 1814 +/- 38;	1R3	0400	182,911:89:0		
90	042	19:43:39.533	176FT6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	182,912:00:0		
90	042	19:43:42.200		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *1821 +/- 39;	1R3	0400	182,912:04:0		
90	042	19:43:42.866	118R110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	182,912:05:0		
90	042	19:44:40.200	175FT422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	182,913:00:0		
90	042	19:44:40.200		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *2025 +/- 39;	1R3	0400	182,913:00:0		
90	042	19:44:41.400		DMS:	*READY	RDY, TRACK 3, FWD, TIC *2026 +/- 40;	1R3	0400	182,913:01:8		
90	042	21:13:11.533	165AJ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	183,000:50:0		
90	042	21:13:12.200	165AJ4B	7SCAN	NORM,115.504999,	Check S/P Position	1R3	0400	183,000:51:0		
90	042	21:13:37.533	175FU422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	183,000:89:0		
90	042	21:13:37.533		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 2026 +/- 40;	1R3	0400	183,000:89:0		
90	042	21:13:38.866	176FU6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	183,001:00:0		
90	042	21:13:41.533		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *2032 +/- 41;	1R3	0400	183,001:04:0		
90	042	21:13:42.200	118S110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	183,001:05:0		
90	042	21:14:39.533	175FU422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	183,002:00:0		
90	042	21:14:39.533		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *2236 +/- 41;	1R3	0400	183,002:00:0		
90	042	21:14:40.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *2237 +/- 41;	1R3	0400	183,002:01:8		
90	042	21:43:31.533	165AK4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	183,030:50:0		
90	042	21:43:32.200	165AK4B	7SCAN	NORM,115.488999,	Check S/P Position	1R3	0400	183,030:51:0		
90	042	21:43:57.533		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 2237 +/- 41;	1R3	0400	183,030:89:0		
90	042	21:43:57.533	175FV422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	183,030:89:0		
90	042	21:43:58.866	176FV6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	183,031:00:0		
90	042	21:44:01.533		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *2244 +/- 42;	1R3	0400	183,031:04:0		
90	042	21:44:02.200	118T110A111A4A	7STRP	-0.0073,0.0,92,0	Slew =,0.41	1R3	0400	183,031:05:0		
90	042	21:44:59.533	175FV422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	183,032:00:0		
90	042	21:44:59.533		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *2448 +/- 42;	1R3	0400	183,032:00:0		
90	042	21:45:00.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *2449 +/- 42;	1R3	0400	183,032:01:8		
90	042	21:48:57.533	128IH149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	1R0	0400	183,035:84:0		
90	042	22:24:51.533	476AD6A	6TMCHG	EHR		1R0	0400	183,071:39:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	043	05:57:19.533	128A149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	1R3	0400	183,518:84:0		
90	043	05:57:57.533	165N4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	183,519:50:0		
90	043	05:57:58.200	165N4B	7SCAN	NORM,115.051,24.	Check S/P Position	1R3	0400	183,519:51:0		
90	043	05:58:20.200	128A149A131B4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	0400	183,519:84:0		
90	043	05:58:23.533		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 2449 +/- 42;	2R3	0400	183,519:89:0		
90	043	05:58:23.533	175FW422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	183,519:89:0		
90	043	05:58:24.866	176FW6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	183,520:00:0		
90	043	05:58:27.533		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *2456 +/- 43;	2R3	0400	183,520:04:0		
90	043	05:58:55.533		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *2554 +/- 43;	2R3	0400	183,520:46:0		
90	043	05:58:55.533	175FW422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	183,520:46:0		
90	043	05:58:56.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *2555 +/- 43;	2R3	0400	183,520:47:8		
90	043	06:13:07.533	165AZ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	183,534:50:0		
90	043	06:13:08.200	165AZ4B	7SCAN	NORM,115.417999,	Check S/P Position	2R3	0400	183,534:51:0		
90	043	06:13:25.533	117M	CSMOS	GS	***** GROUP START CSMOS	2R3	0400	183,534:77:0		
90	043	06:13:29.533		DMS:	*RUNUP	R806, TRACK 3, FWD, TIC 2555 +/- 43;	2R3	0400	183,534:83:0		
90	043	06:13:29.533	175FX422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	0400	183,534:83:0		
90	043	06:13:34.733		DMS:	*RECORD	R806, TRACK 3, FWD, TIC *2620 +/- 55;	2R3	0400	183,534:90:8		
90	043	06:13:34.866	117M105A106A4A	7STRP	0.0,-0.0027,0,0,	Slew =,0.33	2R3	0400	183,535:00:0		
90	043	06:13:34.866	176FX6A	6TMCHG	NCGAI8	NO CHANGE / 806.4 KBPS SSI + 1/8 NIMS RECO	2R3	0400	183,535:00:0		
90	043	06:13:48.866		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *2968 +/- 55;	2R3	0400	183,535:21:0		
90	043	06:13:48.866	175FX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	183,535:21:0		
90	043	06:13:51.533		DMS:	*READY	RDY, TRACK 3, FWD, TIC *2979 +/- 58;	2R3	0400	183,535:25:0		
90	043	06:13:54.200	117M11A	CSMOS	GE	***** GROUP END CSMOS	2R3	0400	183,535:29:0		
90	043	07:58:16.800	165O4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	183,638:50:0		
90	043	07:58:17.466	165O4B	7SCAN	NORM,114.997,24.	Check S/P Position	2R3	0400	183,638:51:0		
90	043	07:58:42.800		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 2979 +/- 58;	2R3	0400	183,638:89:0		
90	043	07:58:42.800	175FY422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	183,638:89:0		
90	043	07:58:44.133	176FY6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	183,639:00:0		
90	043	07:58:46.800		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *2986 +/- 59;	2R3	0400	183,639:04:0		
90	043	07:59:14.800	175FY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	183,639:46:0		
90	043	07:59:14.800		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3084 +/- 59;	2R3	0400	183,639:46:0		
90	043	07:59:16.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3085 +/- 59;	2R3	0400	183,639:47:8		
90	043	08:29:56.133	476AE6A	6TMCHG	EHR		2R3	0400	183,669:78:0		
90	043	09:57:35.466	165P4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	183,756:50:0		
90	043	09:57:36.133	165P4B	7SCAN	NORM,114.938999,	Check S/P Position	2R3	0400	183,756:51:0		
90	043	09:58:01.466		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 3085 +/- 59;	2R3	0400	183,756:89:0		
90	043	09:58:01.466	175FZ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	183,756:89:0		
90	043	09:58:02.800	176FZ6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	183,757:00:0		
90	043	09:58:05.466		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *3092 +/- 60;	2R3	0400	183,757:04:0		
90	043	09:58:33.466		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3190 +/- 60;	2R3	0400	183,757:46:0		
90	043	09:58:33.466	175FZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	183,757:46:0		
90	043	09:58:34.666		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3191 +/- 60;	2R3	0400	183,757:47:8		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	043	11:49:59.466	476F6A	6TMCHG	EHRHCM		2R3	0400	183,867:65:0		
90	043	11:57:54.800	165Q4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	183,875:50:0		
90	043	11:57:55.466	165Q4B	7SCAN	NORM,114.881,24.	Check S/P Position	2R3	0400	183,875:51:0		
90	043	11:58:20.800	175GA422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	183,875:89:0		
90	043	11:58:20.800		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 3191 +/- 60;	2R3	0400	183,875:89:0		
90	043	11:58:22.133	176GA6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	183,876:00:0		
90	043	11:58:24.800		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *3198 +/- 61;	2R3	0400	183,876:04:0		
90	043	11:58:52.800		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3296 +/- 61;	2R3	0400	183,876:46:0		
90	043	11:58:52.800	175GA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	183,876:46:0		
90	043	11:58:54.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3297 +/- 62;	2R3	0400	183,876:47:8		
90	043	12:26:58.133	476AF6A	6TMCHG	EHR		2R3	0400	183,904:26:0		
90	043	13:57:13.466	165R4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	183,993:50:0		
90	043	13:57:14.133	165R4B	7SCAN	NORM,114.832999,	Check S/P Position	2R3	0400	183,993:51:0		
90	043	13:57:39.466		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 3297 +/- 62;	2R3	0400	183,993:89:0		
90	043	13:57:39.466	175GB422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	183,993:89:0		
90	043	13:57:40.800	176GB6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	183,994:00:0		
90	043	13:57:43.466		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *3304 +/- 63;	2R3	0400	183,994:04:0		
90	043	13:58:11.466		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3402 +/- 63;	2R3	0400	183,994:46:0		
90	043	13:58:11.466	175GB422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	183,994:46:0		
90	043	13:58:12.666		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3403 +/- 63;	2R3	0400	183,994:47:8		
90	043	14:03:40.133	128II149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	2R0	0400	183,999:84:0		
90	044	05:57:08.800	128H149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	2R3	0400	184,942:84:0		
90	044	05:57:46.800	165AT4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	184,943:50:0		
90	044	05:57:47.466	165AT4B	7SCAN	NORM,114.554,24.	Check S/P Position	2R3	0400	184,943:51:0		
90	044	05:58:09.466	128H149A131B4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R3	0400	184,943:84:0		
90	044	05:58:12.800		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 3403 +/- 63;	3R3	0400	184,943:89:0		
90	044	05:58:12.800	175GC422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	0400	184,943:89:0		
90	044	05:58:14.133	176GC6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	0400	184,944:00:0		
90	044	05:58:16.800		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *3410 +/- 64;	3R3	0400	184,944:04:0		
90	044	05:59:14.800		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3614 +/- 64;	3R3	0400	184,945:00:0		
90	044	05:59:14.800	175GC422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	0400	184,945:00:0		
90	044	05:59:16.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3615 +/- 64;	3R3	0400	184,945:01:8		
90	044	07:58:06.133	165AU4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	0400	185,062:50:0		
90	044	07:58:06.800	165AU4B	7SCAN	NORM,114.535999,	Check S/P Position	3R3	0400	185,062:51:0		
90	044	07:58:32.133		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 3615 +/- 64;	3R3	0400	185,062:89:0		
90	044	07:58:32.133	175GD422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	0400	185,062:89:0		
90	044	07:58:33.466	176GD6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	0400	185,063:00:0		
90	044	07:58:36.133		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *3622 +/- 65;	3R3	0400	185,063:04:0		
90	044	07:59:34.133		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3826 +/- 65;	3R3	0400	185,064:00:0		
90	044	07:59:34.133	175GD422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	0400	185,064:00:0		
90	044	07:59:35.333		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3827 +/- 65;	3R3	0400	185,064:01:8		
90	044	08:59:56.800	476AK6A	6TMCHG	EHR		3R3	0400	185,123:65:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	10:00:26.800	165AV4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	0400	185,183:50:0		
90	044	10:00:27.466	165AV4B	7SCAN	NORM,114.521,24.	Check S/P Position	3R3	0400	185,183:51:0		
90	044	10:00:52.800	175GG422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	0400	185,183:89:0		
90	044	10:00:52.800		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 3827 +/- 65;	3R3	0400	185,183:89:0		
90	044	10:00:54.133	176GG6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	0400	185,184:00:0		
90	044	10:00:56.800		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *3833 +/- 66;	3R3	0400	185,184:04:0		
90	044	10:01:54.800		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4037 +/- 66;	3R3	0400	185,185:00:0		
90	044	10:01:54.800	175GG422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	0400	185,185:00:0		
90	044	10:01:56.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4038 +/- 66;	3R3	0400	185,185:01:8		
90	044	10:55:56.133	476AL6A	6TMCHG	EHR		3R3	0400	185,238:39:0		
90	044	11:59:45.400	165AW4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	0400	185,301:50:0		
90	044	11:59:46.066	165AW4B	7SCAN	NORM,114.507,24.	Check S/P Position	3R3	0400	185,301:51:0		
90	044	12:00:11.400	175GH422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	0400	185,301:89:0		
90	044	12:00:11.400		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4038 +/- 66;	3R3	0400	185,301:89:0		
90	044	12:00:12.733	176GH6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	0400	185,302:00:0		
90	044	12:00:15.400		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4045 +/- 67;	3R3	0400	185,302:04:0		
90	044	12:01:13.400	175GH422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	0400	185,303:00:0		
90	044	12:01:13.400		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4249 +/- 67;	3R3	0400	185,303:00:0		
90	044	12:01:14.600		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4250 +/- 67;	3R3	0400	185,303:01:8		
90	044	12:06:12.066	128IJ149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	3R0	0400	185,307:84:0		
90	044	12:15:57.400	490E476A6A	6TMCHG	EHRLRS		3R0	0400	185,317:52:0		
90	044	12:16:00.066	481E4A	7STAR	13,1701,278.8139	Star catalog update	3R0	0400	185,317:56:0		
90	044	12:16:02.066	481E4B	7STAR	14,217,50.186,49	Star catalog update	3R0	0400	185,317:59:0		
90	044	12:16:04.066	481E4C	7STAR	15,151,261.99299	Star catalog update	3R0	0400	185,317:62:0		
90	044	12:16:06.066	481E4D	7STAR	16,0,0.0,0.0	Star catalog update	3R0	0400	185,317:65:0		
90	044	12:16:08.066	481E4E	7STAR	17,0,0.0,0.0	Star catalog update	3R0	0400	185,317:68:0		
90	044	12:16:10.066	481E4F	7STAR	18,0,0.0,0.0	Star catalog update	3R0	0400	185,317:71:0		
90	044	12:16:58.066	490E412A4B	7MODE	INT	AACS INERTIAL MODE	3R0	0400	185,318:52:0		
90	044	12:17:58.066	490E412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	3R0	0400	185,319:51:0		
90	044	12:22:08.066	490E412A4E	7VECT		Inert vect update UTC	3R0	0400	185,323:62:0		
90	044	12:22:12.066	490E412A4F	7TURN	2,MVR	ALERT Thruster	3R0	0400	185,323:68:0		
90	044	12:26:00.066	490E412A406A4A	7STAR	7,1701,278.81399	Star catalog update	3R0	0400	185,327:46:0		
90	044	12:26:02.066	490E412A406A4B	7STAR	8,217,50.186,49.	Star catalog update	3R0	0400	185,327:49:0		
90	044	12:26:04.066	490E412A406A4C	7STAR	9,151,261.992996	Star catalog update	3R0	0400	185,327:52:0		
90	044	12:26:06.066	490E412A406A4D	7STAR	10,0,0.0,0.0	Star catalog update	3R0	0400	185,327:55:0		
90	044	12:26:08.066	490E412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update	3R0	0400	185,327:58:0		
90	044	12:26:10.066	490E412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update	3R0	0400	185,327:61:0		
90	044	14:20:02.066	476A6A	6TMCHG	EHR		3R0	0400	185,440:26:0		
90	044	14:30:00.066	20DD6A	6DMSC	S115,4	DMS Control Tape slew 115kbps	3R0	0400	185,450:13:0		
90	044	14:30:00.066		DMS:	*RUNUP	S115, TRACK *4, *REV, TIC 4250 +/- 67;	3R0	0400	185,450:13:0		
90	044	14:30:04.066		DMS:	*SLEW	S115, TRACK 4, REV, TIC *4244 +/- 68;	3R0	0400	185,450:19:0		
90	044	14:31:02.066		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *4039 +/- 68;	3R0	0400	185,451:15:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	14:31:02.066	20DD6B	6DMSC	RDY,4	DMS Control Tape stop	3R0	0400	185,451:15:0		
90	044	14:31:03.266		DMS:	*READY	RDY, TRACK 4, REV, TIC *4038 +/- 68;	3R0	0400	185,451:16:8		
90	044	14:31:30.066		DMS:	*RUNUP	S115, TRACK 4, REV, TIC 4038 +/- 68;	3R0	0400	185,451:57:0		
90	044	14:31:30.066	20DD6C	6DMSC	S115,4	DMS Control Tape slew 115kbps	3R0	0400	185,451:57:0		
90	044	14:31:34.066		DMS:	*SLEW	S115, TRACK 4, REV, TIC *4032 +/- 69;	3R0	0400	185,451:63:0		
90	044	14:32:32.066		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3828 +/- 69;	3R0	0400	185,452:59:0		
90	044	14:32:32.066	20DD6D	6DMSC	RDY,4	DMS Control Tape stop	3R0	0400	185,452:59:0		
90	044	14:32:33.266		DMS:	*READY	RDY, TRACK 4, REV, TIC *3827 +/- 70;	3R0	0400	185,452:60:8		
90	044	14:33:00.066		DMS:	*RUNUP	S115, TRACK 4, REV, TIC 3827 +/- 70;	3R0	0400	185,453:10:0		
90	044	14:33:00.066	20DD6E	6DMSC	S115,4	DMS Control Tape slew 115kbps	3R0	0400	185,453:10:0		
90	044	14:33:04.066		DMS:	*SLEW	S115, TRACK 4, REV, TIC *3820 +/- 71;	3R0	0400	185,453:16:0		
90	044	14:34:02.066	20DD6F	6DMSC	RDY,4	DMS Control Tape stop	3R0	0400	185,454:12:0		
90	044	14:34:02.066		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3616 +/- 71;	3R0	0400	185,454:12:0		
90	044	14:34:03.266		DMS:	*READY	RDY, TRACK 4, REV, TIC *3615 +/- 71;	3R0	0400	185,454:13:8		
90	044	14:34:30.066		DMS:	*RUNUP	S115, TRACK 4, REV, TIC 3615 +/- 71;	3R0	0400	185,454:54:0		
90	044	14:34:30.066	20DD6G	6DMSC	S115,4	DMS Control Tape slew 115kbps	3R0	0400	185,454:54:0		
90	044	14:34:34.066		DMS:	*SLEW	S115, TRACK 4, REV, TIC *3609 +/- 72;	3R0	0400	185,454:60:0		
90	044	14:35:32.066	20DD6H	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,455:56:0		
90	044	14:35:32.066		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3404 +/- 72;	3R0	0400	185,455:56:0		
90	044	14:35:33.266		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3403 +/- 72;	3R0	0400	185,455:57:8		
90	044	14:40:00.733	423A6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,460:04:0		
90	044	14:43:02.733	423A6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,463:04:0		
90	044	14:43:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3403 +/- 72;	3R0	0400	185,463:04:0		
90	044	14:43:04.066	423A6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,463:06:0		
90	044	14:43:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3404 +/- 72;	3R0	0400	185,463:06:2		
90	044	14:43:16.066	423A6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,463:24:0		
90	044	14:43:32.733	423A6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,463:49:0		
90	044	14:43:45.400	423A6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,463:68:0		
90	044	14:43:58.066	423A6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,463:87:0		
90	044	14:44:14.733	423A6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,464:21:0		
90	044	14:44:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3423 +/- 72;	3R0	0400	185,464:39:0		
90	044	14:44:26.733	423A6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,464:39:0		
90	044	14:44:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3424 +/- 72;	3R0	0400	185,464:40:9		
90	044	14:44:28.066	423A6J	6TMCHG	EHR		3R0	0400	185,464:41:0		
90	044	15:15:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3424 +/- 72;	3R0	0400	185,494:64:0		
90	044	15:15:03.400	423A6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,494:64:0		
90	044	15:15:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3423 +/- 72;	3R0	0400	185,494:66:2		
90	044	15:15:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3422 +/- 72;	3R0	0400	185,494:76:0		
90	044	15:15:11.400	423A6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,494:76:0		
90	044	15:15:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3421 +/- 72;	3R0	0400	185,494:77:9		
90	044	15:18:00.733	423B6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,497:57:0		
90	044	15:21:02.733	423B6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,500:57:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	15:21:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3421 +/- 72;	3R0	0400	185,500:57:0		
90	044	15:21:04.066	423B6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,500:59:0		
90	044	15:21:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3422 +/- 72;	3R0	0400	185,500:59:2		
90	044	15:21:16.066	423B6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,500:77:0		
90	044	15:21:32.733	423B6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,501:11:0		
90	044	15:21:45.400	423B6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,501:30:0		
90	044	15:21:58.066	423B6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,501:49:0		
90	044	15:22:14.733	423B6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,501:74:0		
90	044	15:22:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3441 +/- 72;	3R0	0400	185,502:01:0		
90	044	15:22:26.733	423B6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,502:01:0		
90	044	15:22:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3442 +/- 72;	3R0	0400	185,502:02:9		
90	044	15:22:28.066	423B6J	6TMCHG	EHR		3R0	0400	185,502:03:0		
90	044	15:53:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3442 +/- 72;	3R0	0400	185,532:26:0		
90	044	15:53:03.400	423B6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,532:26:0		
90	044	15:53:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3441 +/- 73;	3R0	0400	185,532:28:2		
90	044	15:53:11.400	423B6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,532:38:0		
90	044	15:53:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3439 +/- 73;	3R0	0400	185,532:38:0		
90	044	15:53:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3438 +/- 73;	3R0	0400	185,532:39:9		
90	044	15:56:00.733	423C6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,535:19:0		
90	044	15:59:02.733	423C6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,538:19:0		
90	044	15:59:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3438 +/- 73;	3R0	0400	185,538:19:0		
90	044	15:59:04.066	423C6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,538:21:0		
90	044	15:59:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3439 +/- 73;	3R0	0400	185,538:21:2		
90	044	15:59:16.066	423C6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,538:39:0		
90	044	15:59:32.733	423C6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,538:64:0		
90	044	15:59:45.400	423C6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,538:83:0		
90	044	15:59:58.066	423C6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,539:11:0		
90	044	16:00:14.733	423C6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,539:36:0		
90	044	16:00:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3458 +/- 73;	3R0	0400	185,539:54:0		
90	044	16:00:26.733	423C6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,539:54:0		
90	044	16:00:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3459 +/- 73;	3R0	0400	185,539:55:9		
90	044	16:00:28.066	423C6J	6TMCHG	EHR		3R0	0400	185,539:56:0		
90	044	16:31:03.400	423C6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,569:79:0		
90	044	16:31:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3459 +/- 73;	3R0	0400	185,569:79:0		
90	044	16:31:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3458 +/- 73;	3R0	0400	185,569:81:2		
90	044	16:31:11.400	423C6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,570:00:0		
90	044	16:31:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3457 +/- 73;	3R0	0400	185,570:00:0		
90	044	16:31:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3456 +/- 73;	3R0	0400	185,570:01:9		
90	044	16:34:00.733	423D6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,572:72:0		
90	044	16:37:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3456 +/- 73;	3R0	0400	185,575:72:0		
90	044	16:37:02.733	423D6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,575:72:0		
90	044	16:37:04.066	423D6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,575:74:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	16:37:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3457 +/- 73;	3R0	0400	185,575:74:2		
90	044	16:37:16.066	423D6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,576:01:0		
90	044	16:37:32.733	423D6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,576:26:0		
90	044	16:37:45.400	423D6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,576:45:0		
90	044	16:37:58.066	423D6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,576:64:0		
90	044	16:38:14.733	423D6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,576:89:0		
90	044	16:38:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3476 +/- 73;	3R0	0400	185,577:16:0		
90	044	16:38:26.733	423D6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,577:16:0		
90	044	16:38:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3477 +/- 73;	3R0	0400	185,577:17:9		
90	044	16:38:28.066	423D6J	6TMCHG	EHR		3R0	0400	185,577:18:0		
90	044	17:09:03.400	423D6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,607:41:0		
90	044	17:09:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3477 +/- 73;	3R0	0400	185,607:41:0		
90	044	17:09:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3476 +/- 73;	3R0	0400	185,607:43:2		
90	044	17:09:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3474 +/- 73;	3R0	0400	185,607:53:0		
90	044	17:09:11.400	423D6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,607:53:0		
90	044	17:09:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3473 +/- 73;	3R0	0400	185,607:54:9		
90	044	17:12:00.733	423E6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,610:34:0		
90	044	17:15:02.733	423E6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,613:34:0		
90	044	17:15:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3473 +/- 73;	3R0	0400	185,613:34:0		
90	044	17:15:04.066	423E6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,613:36:0		
90	044	17:15:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3474 +/- 73;	3R0	0400	185,613:36:2		
90	044	17:15:16.066	423E6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,613:54:0		
90	044	17:15:32.733	423E6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,613:79:0		
90	044	17:15:45.400	423E6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,614:07:0		
90	044	17:15:58.066	423E6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,614:26:0		
90	044	17:16:14.733	423E6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,614:51:0		
90	044	17:16:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3493 +/- 73;	3R0	0400	185,614:69:0		
90	044	17:16:26.733	423E6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,614:69:0		
90	044	17:16:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3494 +/- 73;	3R0	0400	185,614:70:9		
90	044	17:16:28.066	423E6J	6TMCHG	EHR		3R0	0400	185,614:71:0		
90	044	17:47:03.400	423E6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,645:03:0		
90	044	17:47:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3494 +/- 73;	3R0	0400	185,645:03:0		
90	044	17:47:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3493 +/- 73;	3R0	0400	185,645:05:2		
90	044	17:47:11.400	423E6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,645:15:0		
90	044	17:47:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3492 +/- 73;	3R0	0400	185,645:15:0		
90	044	17:47:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3491 +/- 73;	3R0	0400	185,645:16:9		
90	044	17:50:00.733	423F6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,647:87:0		
90	044	17:53:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3491 +/- 73;	3R0	0400	185,650:87:0		
90	044	17:53:02.733	423F6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,650:87:0		
90	044	17:53:04.066	423F6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,650:89:0		
90	044	17:53:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3492 +/- 74;	3R0	0400	185,650:89:2		
90	044	17:53:16.066	423F6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,651:16:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	17:53:32.733	423F6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,651:41:0		
90	044	17:53:45.400	423F6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,651:60:0		
90	044	17:53:58.066	423F6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,651:79:0		
90	044	17:54:14.733	423F6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,652:13:0		
90	044	17:54:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3511 +/- 74;	3R0	0400	185,652:31:0		
90	044	17:54:26.733	423F6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,652:31:0		
90	044	17:54:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3512 +/- 74;	3R0	0400	185,652:32:9		
90	044	17:54:28.066	423F6J	6TMCHG	EHR		3R0	0400	185,652:33:0		
90	044	18:25:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3512 +/- 74;	3R0	0400	185,682:56:0		
90	044	18:25:03.400	423F6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,682:56:0		
90	044	18:25:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3511 +/- 74;	3R0	0400	185,682:58:2		
90	044	18:25:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3509 +/- 74;	3R0	0400	185,682:68:0		
90	044	18:25:11.400	423F6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,682:68:0		
90	044	18:25:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3508 +/- 74;	3R0	0400	185,682:69:9		
90	044	18:28:00.733	423G6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,685:49:0		
90	044	18:31:02.733	423G6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,688:49:0		
90	044	18:31:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3508 +/- 74;	3R0	0400	185,688:49:0		
90	044	18:31:04.066	423G6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,688:51:0		
90	044	18:31:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3509 +/- 74;	3R0	0400	185,688:51:2		
90	044	18:31:16.066	423G6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,688:69:0		
90	044	18:31:32.733	423G6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,689:03:0		
90	044	18:31:45.400	423G6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,689:22:0		
90	044	18:31:58.066	423G6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,689:41:0		
90	044	18:32:14.733	423G6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,689:66:0		
90	044	18:32:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3528 +/- 74;	3R0	0400	185,689:84:0		
90	044	18:32:26.733	423G6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,689:84:0		
90	044	18:32:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3529 +/- 74;	3R0	0400	185,689:85:9		
90	044	18:32:28.066	423G6J	6TMCHG	EHR		3R0	0400	185,689:86:0		
90	044	19:03:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3529 +/- 74;	3R0	0400	185,720:18:0		
90	044	19:03:03.400	423G6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,720:18:0		
90	044	19:03:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3528 +/- 74;	3R0	0400	185,720:20:2		
90	044	19:03:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3527 +/- 74;	3R0	0400	185,720:30:0		
90	044	19:03:11.400	423G6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,720:30:0		
90	044	19:03:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3526 +/- 74;	3R0	0400	185,720:31:9		
90	044	19:06:00.733	423H6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,723:11:0		
90	044	19:09:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3526 +/- 74;	3R0	0400	185,726:11:0		
90	044	19:09:02.733	423H6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,726:11:0		
90	044	19:09:04.066	423H6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,726:13:0		
90	044	19:09:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3527 +/- 74;	3R0	0400	185,726:13:2		
90	044	19:09:16.066	423H6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,726:31:0		
90	044	19:09:32.733	423H6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,726:56:0		
90	044	19:09:45.400	423H6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,726:75:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	19:09:58.066	423H6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,727:03:0		
90	044	19:10:14.733	423H6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,727:28:0		
90	044	19:10:26.733	423H6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,727:46:0		
90	044	19:10:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3545 +/- 74;	3R0	0400	185,727:46:0		
90	044	19:10:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3546 +/- 74;	3R0	0400	185,727:47:9		
90	044	19:10:28.066	423H6J	6TMCHG	EHR		3R0	0400	185,727:48:0		
90	044	19:41:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3546 +/- 74;	3R0	0400	185,757:71:0		
90	044	19:41:03.400	423H6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,757:71:0		
90	044	19:41:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3545 +/- 74;	3R0	0400	185,757:73:2		
90	044	19:41:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3544 +/- 74;	3R0	0400	185,757:83:0		
90	044	19:41:11.400	423H6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,757:83:0		
90	044	19:41:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3543 +/- 74;	3R0	0400	185,757:84:9		
90	044	19:44:00.733	423I6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,760:64:0		
90	044	19:47:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3543 +/- 74;	3R0	0400	185,763:64:0		
90	044	19:47:02.733	423I6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,763:64:0		
90	044	19:47:04.066	423I6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,763:66:0		
90	044	19:47:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3544 +/- 74;	3R0	0400	185,763:66:2		
90	044	19:47:16.066	423I6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,763:84:0		
90	044	19:47:32.733	423I6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,764:18:0		
90	044	19:47:45.400	423I6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,764:37:0		
90	044	19:47:58.066	423I6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,764:56:0		
90	044	19:48:14.733	423I6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,764:81:0		
90	044	19:48:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3563 +/- 74;	3R0	0400	185,765:08:0		
90	044	19:48:26.733	423I6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,765:08:0		
90	044	19:48:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3564 +/- 75;	3R0	0400	185,765:09:9		
90	044	19:48:28.066	423I6J	6TMCHG	EHR		3R0	0400	185,765:10:0		
90	044	20:19:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3564 +/- 75;	3R0	0400	185,795:33:0		
90	044	20:19:03.400	423I6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,795:33:0		
90	044	20:19:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3563 +/- 75;	3R0	0400	185,795:35:2		
90	044	20:19:11.400	423I6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,795:45:0		
90	044	20:19:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3561 +/- 75;	3R0	0400	185,795:45:0		
90	044	20:19:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3560 +/- 75;	3R0	0400	185,795:46:9		
90	044	22:10:00.733	423J6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,905:09:0		
90	044	22:13:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3560 +/- 75;	3R0	0400	185,908:09:0		
90	044	22:13:02.733	423J6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,908:09:0		
90	044	22:13:04.066	423J6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,908:11:0		
90	044	22:13:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3561 +/- 75;	3R0	0400	185,908:11:2		
90	044	22:13:16.066	423J6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,908:29:0		
90	044	22:13:32.733	423J6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,908:54:0		
90	044	22:13:45.400	423J6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,908:73:0		
90	044	22:13:58.066	423J6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,909:01:0		
90	044	22:14:14.733	423J6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,909:26:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	22:14:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3580 +/- 75;	3R0	0400	185,909:44:0		
90	044	22:14:26.733	423J6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,909:44:0		
90	044	22:14:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3581 +/- 75;	3R0	0400	185,909:45:9		
90	044	22:14:28.066	423J6J	6TMCHG	EHR		3R0	0400	185,909:46:0		
90	044	22:45:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3581 +/- 75;	3R0	0400	185,939:69:0		
90	044	22:45:03.400	423J6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,939:69:0		
90	044	22:45:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3580 +/- 75;	3R0	0400	185,939:71:2		
90	044	22:45:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3579 +/- 75;	3R0	0400	185,939:81:0		
90	044	22:45:11.400	423J6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,939:81:0		
90	044	22:45:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3578 +/- 75;	3R0	0400	185,939:82:9		
90	044	22:48:00.733	423K6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,942:62:0		
90	044	22:51:02.733	423K6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,945:62:0		
90	044	22:51:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3578 +/- 75;	3R0	0400	185,945:62:0		
90	044	22:51:04.066	423K6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,945:64:0		
90	044	22:51:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3579 +/- 75;	3R0	0400	185,945:64:2		
90	044	22:51:16.066	423K6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,945:82:0		
90	044	22:51:32.733	423K6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,946:16:0		
90	044	22:51:45.400	423K6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,946:35:0		
90	044	22:51:58.066	423K6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,946:54:0		
90	044	22:52:14.733	423K6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,946:79:0		
90	044	22:52:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3598 +/- 75;	3R0	0400	185,947:06:0		
90	044	22:52:26.733	423K6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,947:06:0		
90	044	22:52:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3599 +/- 75;	3R0	0400	185,947:07:9		
90	044	22:52:28.066	423K6J	6TMCHG	EHR		3R0	0400	185,947:08:0		
90	044	23:23:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3599 +/- 75;	3R0	0400	185,977:31:0		
90	044	23:23:03.400	423K6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	185,977:31:0		
90	044	23:23:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3598 +/- 75;	3R0	0400	185,977:33:2		
90	044	23:23:11.400	423K6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	185,977:43:0		
90	044	23:23:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3596 +/- 75;	3R0	0400	185,977:43:0		
90	044	23:23:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3595 +/- 75;	3R0	0400	185,977:44:9		
90	044	23:26:00.733	423L6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	185,980:24:0		
90	044	23:29:02.733	423L6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	185,983:24:0		
90	044	23:29:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3595 +/- 75;	3R0	0400	185,983:24:0		
90	044	23:29:04.066	423L6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	185,983:26:0		
90	044	23:29:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3596 +/- 75;	3R0	0400	185,983:26:2		
90	044	23:29:16.066	423L6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	185,983:44:0		
90	044	23:29:32.733	423L6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,983:69:0		
90	044	23:29:45.400	423L6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	185,983:88:0		
90	044	23:29:58.066	423L6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	185,984:16:0		
90	044	23:30:14.733	423L6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	185,984:41:0		
90	044	23:30:26.733	423L6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	185,984:59:0		
90	044	23:30:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3615 +/- 75;	3R0	0400	185,984:59:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	044	23:30:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3616 +/- 75;	3R0	0400	185,984:60:9		
90	044	23:30:28.066	423L6J	6TMCHG	EHR		3R0	0400	185,984:61:0		
90	045	00:01:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3616 +/- 75;	3R0	0400	186,014:84:0		
90	045	00:01:03.400	423L6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	186,014:84:0		
90	045	00:01:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3615 +/- 76;	3R0	0400	186,014:86:2		
90	045	00:01:11.400	423L6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,015:05:0		
90	045	00:01:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3614 +/- 76;	3R0	0400	186,015:05:0		
90	045	00:01:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3613 +/- 76;	3R0	0400	186,015:06:9		
90	045	00:04:00.733	423M6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	186,017:77:0		
90	045	00:07:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3613 +/- 76;	3R0	0400	186,020:77:0		
90	045	00:07:02.733	423M6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	186,020:77:0		
90	045	00:07:04.066	423M6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	186,020:79:0		
90	045	00:07:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3614 +/- 76;	3R0	0400	186,020:79:2		
90	045	00:07:16.066	423M6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	186,021:06:0		
90	045	00:07:32.733	423M6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,021:31:0		
90	045	00:07:45.400	423M6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,021:50:0		
90	045	00:07:58.066	423M6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	186,021:69:0		
90	045	00:08:14.733	423M6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	186,022:03:0		
90	045	00:08:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3633 +/- 76;	3R0	0400	186,022:21:0		
90	045	00:08:26.733	423M6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	186,022:21:0		
90	045	00:08:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3634 +/- 76;	3R0	0400	186,022:22:9		
90	045	00:08:28.066	423M6J	6TMCHG	EHR		3R0	0400	186,022:23:0		
90	045	00:39:03.400	423M6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	186,052:46:0		
90	045	00:39:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3634 +/- 76;	3R0	0400	186,052:46:0		
90	045	00:39:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3633 +/- 76;	3R0	0400	186,052:48:2		
90	045	00:39:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3631 +/- 76;	3R0	0400	186,052:58:0		
90	045	00:39:11.400	423M6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,052:58:0		
90	045	00:39:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3630 +/- 76;	3R0	0400	186,052:59:9		
90	045	00:42:00.733	423N6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	186,055:39:0		
90	045	00:45:02.733	423N6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	186,058:39:0		
90	045	00:45:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3630 +/- 76;	3R0	0400	186,058:39:0		
90	045	00:45:04.066	423N6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	186,058:41:0		
90	045	00:45:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3631 +/- 76;	3R0	0400	186,058:41:2		
90	045	00:45:16.066	423N6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	186,058:59:0		
90	045	00:45:32.733	423N6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,058:84:0		
90	045	00:45:45.400	423N6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,059:12:0		
90	045	00:45:58.066	423N6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	186,059:31:0		
90	045	00:46:14.733	423N6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	186,059:56:0		
90	045	00:46:26.733	423N6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	186,059:74:0		
90	045	00:46:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3650 +/- 76;	3R0	0400	186,059:74:0		
90	045	00:46:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3651 +/- 76;	3R0	0400	186,059:75:9		
90	045	00:46:28.066	423N6J	6TMCHG	EHR		3R0	0400	186,059:76:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	01:17:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3651 +/- 76;	3R0	0400	186,090:08:0		
90	045	01:17:03.400	423N6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	186,090:08:0		
90	045	01:17:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3650 +/- 76;	3R0	0400	186,090:10:2		
90	045	01:17:11.400	423N6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,090:20:0		
90	045	01:17:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3649 +/- 76;	3R0	0400	186,090:20:0		
90	045	01:17:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3648 +/- 76;	3R0	0400	186,090:21:9		
90	045	01:20:00.733	423O6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	186,093:01:0		
90	045	01:23:02.733	423O6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	186,096:01:0		
90	045	01:23:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3648 +/- 76;	3R0	0400	186,096:01:0		
90	045	01:23:04.066	423O6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	186,096:03:0		
90	045	01:23:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3649 +/- 76;	3R0	0400	186,096:03:2		
90	045	01:23:16.066	423O6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	186,096:21:0		
90	045	01:23:32.733	423O6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,096:46:0		
90	045	01:23:45.400	423O6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,096:65:0		
90	045	01:23:58.066	423O6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	186,096:84:0		
90	045	01:24:14.733	423O6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	186,097:18:0		
90	045	01:24:26.733	423O6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	186,097:36:0		
90	045	01:24:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3668 +/- 76;	3R0	0400	186,097:36:0		
90	045	01:24:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3669 +/- 76;	3R0	0400	186,097:37:9		
90	045	01:24:28.066	423O6J	6TMCHG	EHR		3R0	0400	186,097:38:0		
90	045	01:55:03.400	423O6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	186,127:61:0		
90	045	01:55:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3669 +/- 76;	3R0	0400	186,127:61:0		
90	045	01:55:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3668 +/- 76;	3R0	0400	186,127:63:2		
90	045	01:55:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3666 +/- 76;	3R0	0400	186,127:73:0		
90	045	01:55:11.400	423O6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,127:73:0		
90	045	01:55:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3665 +/- 76;	3R0	0400	186,127:74:9		
90	045	01:58:00.733	423P6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	186,130:54:0		
90	045	02:01:02.733	423P6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	186,133:54:0		
90	045	02:01:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3665 +/- 76;	3R0	0400	186,133:54:0		
90	045	02:01:04.066	423P6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	186,133:56:0		
90	045	02:01:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3666 +/- 77;	3R0	0400	186,133:56:2		
90	045	02:01:16.066	423P6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	186,133:74:0		
90	045	02:01:32.733	423P6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,134:08:0		
90	045	02:01:45.400	423P6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,134:27:0		
90	045	02:01:58.066	423P6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	186,134:46:0		
90	045	02:02:14.733	423P6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	186,134:71:0		
90	045	02:02:26.733	423P6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	186,134:89:0		
90	045	02:02:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3685 +/- 77;	3R0	0400	186,134:89:0		
90	045	02:02:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3686 +/- 77;	3R0	0400	186,134:90:9		
90	045	02:02:28.066	423P6J	6TMCHG	EHR		3R0	0400	186,135:00:0		
90	045	02:33:03.400	423P6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	186,165:23:0		
90	045	02:33:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3686 +/- 77;	3R0	0400	186,165:23:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	02:33:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3685 +/- 77;	3R0	0400	186,165:25:2		
90	045	02:33:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3683 +/- 77;	3R0	0400	186,165:35:0		
90	045	02:33:11.400	423P6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,165:35:0		
90	045	02:33:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3682 +/- 77;	3R0	0400	186,165:36:9		
90	045	02:36:00.733	423Q6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	3R0	0400	186,168:16:0		
90	045	02:39:02.733		DMS:	*RUNUP	P7, TRACK 3, FWD, TIC 3682 +/- 77;	3R0	0400	186,171:16:0		
90	045	02:39:02.733	423Q6B	6DMSC	P7,3	DMS Control Tape P/B 7.68kbps	3R0	0400	186,171:16:0		
90	045	02:39:04.066	423Q6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	3R0	0400	186,171:18:0		
90	045	02:39:04.200		DMS:	*PLAYBACK	P7, TRACK 3, FWD, TIC *3683 +/- 77;	3R0	0400	186,171:18:2		
90	045	02:39:16.066	423Q6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	3R0	0400	186,171:36:0		
90	045	02:39:32.733	423Q6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,171:61:0		
90	045	02:39:45.400	423Q6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	3R0	0400	186,171:80:0		
90	045	02:39:58.066	423Q6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	3R0	0400	186,172:08:0		
90	045	02:40:14.733	423Q6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	3R0	0400	186,172:33:0		
90	045	02:40:26.733	423Q6I	6DMSC	RDY,0	DMS Control Tape stop	3R0	0400	186,172:51:0		
90	045	02:40:26.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3702 +/- 77;	3R0	0400	186,172:51:0		
90	045	02:40:28.000		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3703 +/- 77;	3R0	0400	186,172:52:9		
90	045	02:40:28.066	423Q6J	6TMCHG	EHR		3R0	0400	186,172:53:0		
90	045	03:11:03.400		DMS:	*RUNUP	S7, TRACK *4, *REV, TIC 3703 +/- 77;	3R0	0400	186,202:76:0		
90	045	03:11:03.400	423Q6W	6DMSC	S7,4	DMS Control Tape slew 7.68kbp	3R0	0400	186,202:76:0		
90	045	03:11:04.866		DMS:	*SLEW	S7, TRACK 4, REV, TIC *3702 +/- 77;	3R0	0400	186,202:78:2		
90	045	03:11:11.400	423Q6X	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,202:88:0		
90	045	03:11:11.400		DMS:	*RUNDOWN	RDY, TRACK 4, REV, TIC *3701 +/- 77;	3R0	0400	186,202:88:0		
90	045	03:11:12.666		DMS:	*READY	RDY, TRACK *3, *FWD, TIC *3700 +/- 77;	3R0	0400	186,202:89:9		
90	045	03:15:00.066		DMS:	*RUNUP	S115, TRACK 3, FWD, TIC 3700 +/- 77;	3R0	0400	186,206:67:0		
90	045	03:15:00.066	20B6A	6DMSC	S115,3	DMS Control Tape slew 115.2kb	3R0	0400	186,206:67:0		
90	045	03:15:04.066		DMS:	*SLEW	S115, TRACK 3, FWD, TIC *3706 +/- 78;	3R0	0400	186,206:73:0		
90	045	03:15:35.400		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *3817 +/- 78;	3R0	0400	186,207:29:0		
90	045	03:15:35.400	20B6B	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,207:29:0		
90	045	03:15:36.600		DMS:	*READY	RDY, TRACK 3, FWD, TIC *3818 +/- 78;	3R0	0400	186,207:30:8		
90	045	03:16:00.733	20B6C	6DMSC	S115,3	DMS Control Tape slew 115.2kb	3R0	0400	186,207:67:0		
90	045	03:16:00.733		DMS:	*RUNUP	S115, TRACK 3, FWD, TIC 3818 +/- 78;	3R0	0400	186,207:67:0		
90	045	03:16:04.733		DMS:	*SLEW	S115, TRACK 3, FWD, TIC *3824 +/- 79;	3R0	0400	186,207:73:0		
90	045	03:17:02.733	20B6D	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,208:69:0		
90	045	03:17:02.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4028 +/- 79;	3R0	0400	186,208:69:0		
90	045	03:17:03.933		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4029 +/- 79;	3R0	0400	186,208:70:8		
90	045	03:17:30.733	20B6E	6DMSC	S115,3	DMS Control Tape slew 115.2kb	3R0	0400	186,209:20:0		
90	045	03:17:30.733		DMS:	*RUNUP	S115, TRACK 3, FWD, TIC 4029 +/- 79;	3R0	0400	186,209:20:0		
90	045	03:17:34.733		DMS:	*SLEW	S115, TRACK 3, FWD, TIC *4036 +/- 80;	3R0	0400	186,209:26:0		
90	045	03:18:32.733	20B6F	6DMSC	RDY,3	DMS Control Tape stop	3R0	0400	186,210:22:0		
90	045	03:18:32.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4240 +/- 80;	3R0	0400	186,210:22:0		
90	045	03:18:33.933		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4241 +/- 81;	3R0	0400	186,210:23:8		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	04:25:54.066	476B6A	6TMCHG	EHR		3R0	0400	186,276:78:0		
90	045	05:24:40.066	165AL4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R0	0400	186,334:89:0		
90	045	05:24:40.733	165AL4B	7SCAN	NORM,114.448999,	Check S/P Position	3R0	0400	186,334:90:0		
90	045	05:27:38.733	128D149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	3R3	0400	186,337:84:0		
90	045	05:28:39.400	128D149A131B4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R3	0400	186,338:84:0		
90	045	05:28:42.733	175GI422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	0400	186,338:89:0		
90	045	05:28:42.733		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4241 +/- 81;	4R3	0400	186,338:89:0		
90	045	05:28:44.066	176GI6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R3	0400	186,339:00:0		
90	045	05:28:46.733		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4248 +/- 82;	4R3	0400	186,339:04:0		
90	045	05:29:14.733		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4346 +/- 82;	4R3	0400	186,339:46:0		
90	045	05:29:14.733	175GI422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	0400	186,339:46:0		
90	045	05:29:15.933		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4347 +/- 82;	4R3	0400	186,339:47:8		
90	045	07:27:35.400	165AM4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	0400	186,456:50:0		
90	045	07:27:36.066	165AM4B	7SCAN	NORM,114.443,24.	Check S/P Position	4R3	0400	186,456:51:0		
90	045	07:28:01.400		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4347 +/- 82;	4R3	0400	186,456:89:0		
90	045	07:28:01.400	175GJ422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	4R3	0400	186,456:89:0		
90	045	07:28:02.733	176GJ6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	4R3	0400	186,457:00:0		
90	045	07:28:05.400		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4354 +/- 83;	4R3	0400	186,457:04:0		
90	045	07:28:33.400		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4452 +/- 83;	4R3	0400	186,457:46:0		
90	045	07:28:33.400	175GJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	0400	186,457:46:0		
90	045	07:28:34.600		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4453 +/- 83;	4R3	0400	186,457:47:8		
90	045	07:34:02.066	128IK149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	4R0	0400	186,462:84:0		
90	045	15:29:54.666	476C6A	6TMCHG	EHR		4R0	0400	186,933:52:0		
90	045	15:40:00.000		DMS:	*REWIND	S806, TRACK *4, *REV, TIC 4453 +/- 83;	4R0	0400	186,943:50:0		
90	045	15:40:00.000	20C6A	6DMSR		Tape recorder rewind	4R0	0400	186,943:50:0		
90	045	15:43:13.933		DMS:	*READY	RDY, TRACK *1, *FWD, TIC * 201 +/- 0;	4R0	0400	186,946:67:9		
90	045	15:47:02.000	20C6B	6DMSC	S115,1	DMS Control Tape slew 115kbps	4R0	0400	186,950:46:0		
90	045	15:47:02.000		DMS:	*RUNUP	S115, TRACK 1, FWD, TIC 201 +/- 0;	4R0	0400	186,950:46:0		
90	045	15:47:06.000		DMS:	*SLEW	S115, TRACK 1, FWD, TIC * 207 +/- 1;	4R0	0400	186,950:52:0		
90	045	15:56:32.000	20C6C	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	186,959:82:0		
90	045	15:56:32.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2200 +/- 1;	4R0	0400	186,959:82:0		
90	045	15:56:33.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2201 +/- 1;	4R0	0400	186,959:83:8		
90	045	16:00:00.666	423R6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	186,963:31:0		
90	045	16:03:02.666	423R6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	186,966:31:0		
90	045	16:03:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2201 +/- 1;	4R0	0400	186,966:31:0		
90	045	16:03:04.000	423R6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	186,966:33:0		
90	045	16:03:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2202 +/- 1;	4R0	0400	186,966:33:2		
90	045	16:03:16.000	423R6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	186,966:51:0		
90	045	16:03:32.666	423R6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	186,966:76:0		
90	045	16:03:45.333	423R6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	186,967:04:0		
90	045	16:03:58.000	423R6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	186,967:23:0		
90	045	16:04:14.666	423R6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	186,967:48:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	16:04:26.666	423R6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	186,967:66:0		
90	045	16:04:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2221 +/- 1;	4R0	0400	186,967:66:0		
90	045	16:04:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2222 +/- 1;	4R0	0400	186,967:67:9		
90	045	16:04:28.000	423R6J	6TMCHG	EHR		4R0	0400	186,967:68:0		
90	045	16:35:03.333	423R6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	186,998:00:0		
90	045	16:35:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2222 +/- 1;	4R0	0400	186,998:00:0		
90	045	16:35:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2221 +/- 1;	4R0	0400	186,998:02:2		
90	045	16:35:11.333	423R6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	186,998:12:0		
90	045	16:35:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2219 +/- 1;	4R0	0400	186,998:12:0		
90	045	16:35:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2218 +/- 1;	4R0	0400	186,998:13:9		
90	045	16:40:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2218 +/- 1;	4R0	0400	187,002:81:0		
90	045	16:40:00.000	20C6D	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,002:81:0		
90	045	16:40:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2220 +/- 1;	4R0	0400	187,002:87:0		
90	045	16:41:28.000	20C6E	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,004:31:0		
90	045	16:41:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2294 +/- 1;	4R0	0400	187,004:31:0		
90	045	16:41:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2295 +/- 1;	4R0	0400	187,004:32:8		
90	045	16:45:00.666	423S6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,007:77:0		
90	045	16:48:02.666	423S6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,010:77:0		
90	045	16:48:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2295 +/- 1;	4R0	0400	187,010:77:0		
90	045	16:48:04.000	423S6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,010:79:0		
90	045	16:48:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2296 +/- 1;	4R0	0400	187,010:79:2		
90	045	16:48:16.000	423S6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,011:06:0		
90	045	16:48:32.666	423S6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,011:31:0		
90	045	16:48:45.333	423S6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,011:50:0		
90	045	16:48:58.000	423S6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,011:69:0		
90	045	16:49:14.666	423S6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,012:03:0		
90	045	16:49:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2314 +/- 1;	4R0	0400	187,012:21:0		
90	045	16:49:26.666	423S6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,012:21:0		
90	045	16:49:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2315 +/- 1;	4R0	0400	187,012:22:9		
90	045	16:49:28.000	423S6J	6TMCHG	EHR		4R0	0400	187,012:23:0		
90	045	17:20:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2315 +/- 1;	4R0	0400	187,042:46:0		
90	045	17:20:03.333	423S6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,042:46:0		
90	045	17:20:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2314 +/- 2;	4R0	0400	187,042:48:2		
90	045	17:20:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2313 +/- 2;	4R0	0400	187,042:58:0		
90	045	17:20:11.333	423S6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,042:58:0		
90	045	17:20:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2312 +/- 2;	4R0	0400	187,042:59:9		
90	045	17:25:00.000	20C6F	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,047:36:0		
90	045	17:25:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2312 +/- 2;	4R0	0400	187,047:36:0		
90	045	17:25:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2313 +/- 2;	4R0	0400	187,047:42:0		
90	045	17:26:28.000	20C6G	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,048:77:0		
90	045	17:26:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2387 +/- 2;	4R0	0400	187,048:77:0		
90	045	17:26:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2388 +/- 2;	4R0	0400	187,048:78:8		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	17:30:00.666	423T6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,052:32:0		
90	045	17:33:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2388 +/- 2;	4R0	0400	187,055:32:0		
90	045	17:33:02.666	423T6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,055:32:0		
90	045	17:33:04.000	423T6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,055:34:0		
90	045	17:33:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2389 +/- 2;	4R0	0400	187,055:34:2		
90	045	17:33:16.000	423T6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,055:52:0		
90	045	17:33:32.666	423T6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,055:77:0		
90	045	17:33:45.333	423T6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,056:05:0		
90	045	17:33:58.000	423T6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,056:24:0		
90	045	17:34:14.666	423T6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,056:49:0		
90	045	17:34:26.666	423T6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,056:67:0		
90	045	17:34:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2408 +/- 2;	4R0	0400	187,056:67:0		
90	045	17:34:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2409 +/- 2;	4R0	0400	187,056:68:9		
90	045	17:34:28.000	423T6J	6TMCHG	EHR		4R0	0400	187,056:69:0		
90	045	18:05:03.333	423T6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,087:01:0		
90	045	18:05:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2409 +/- 2;	4R0	0400	187,087:01:0		
90	045	18:05:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2408 +/- 2;	4R0	0400	187,087:03:2		
90	045	18:05:11.333	423T6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,087:13:0		
90	045	18:05:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2407 +/- 2;	4R0	0400	187,087:13:0		
90	045	18:05:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2406 +/- 2;	4R0	0400	187,087:14:9		
90	045	18:10:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2406 +/- 2;	4R0	0400	187,091:82:0		
90	045	18:10:00.000	20C6H	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,091:82:0		
90	045	18:10:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2407 +/- 2;	4R0	0400	187,091:88:0		
90	045	18:11:28.000	20C6I	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,093:32:0		
90	045	18:11:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2481 +/- 2;	4R0	0400	187,093:32:0		
90	045	18:11:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2482 +/- 2;	4R0	0400	187,093:33:8		
90	045	18:15:00.666	423U6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,096:78:0		
90	045	18:18:02.666	423U6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,099:78:0		
90	045	18:18:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2482 +/- 2;	4R0	0400	187,099:78:0		
90	045	18:18:04.000	423U6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,099:80:0		
90	045	18:18:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2483 +/- 2;	4R0	0400	187,099:80:2		
90	045	18:18:16.000	423U6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,100:07:0		
90	045	18:18:32.666	423U6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,100:32:0		
90	045	18:18:45.333	423U6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,100:51:0		
90	045	18:18:58.000	423U6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,100:70:0		
90	045	18:19:14.666	423U6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,101:04:0		
90	045	18:19:26.666	423U6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,101:22:0		
90	045	18:19:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2502 +/- 2;	4R0	0400	187,101:22:0		
90	045	18:19:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2503 +/- 2;	4R0	0400	187,101:23:9		
90	045	18:19:28.000	423U6J	6TMCHG	EHR		4R0	0400	187,101:24:0		
90	045	18:50:03.333	423U6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,131:47:0		
90	045	18:50:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2503 +/- 2;	4R0	0400	187,131:47:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	18:50:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2502 +/- 3;	4R0	0400	187,131:49:2		
90	045	18:50:11.333	423U6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,131:59:0		
90	045	18:50:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2501 +/- 3;	4R0	0400	187,131:59:0		
90	045	18:50:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2500 +/- 3;	4R0	0400	187,131:60:9		
90	045	19:55:00.000	20C6J	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,195:68:0		
90	045	19:55:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2500 +/- 3;	4R0	0400	187,195:68:0		
90	045	19:55:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2501 +/- 3;	4R0	0400	187,195:74:0		
90	045	19:56:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2575 +/- 3;	4R0	0400	187,197:18:0		
90	045	19:56:28.000	20C6K	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,197:18:0		
90	045	19:56:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2576 +/- 3;	4R0	0400	187,197:19:8		
90	045	20:00:00.666	423V6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,200:64:0		
90	045	20:03:02.666	423V6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,203:64:0		
90	045	20:03:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2576 +/- 3;	4R0	0400	187,203:64:0		
90	045	20:03:04.000	423V6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,203:66:0		
90	045	20:03:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2577 +/- 3;	4R0	0400	187,203:66:2		
90	045	20:03:16.000	423V6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,203:84:0		
90	045	20:03:32.666	423V6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,204:18:0		
90	045	20:03:45.333	423V6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,204:37:0		
90	045	20:03:58.000	423V6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,204:56:0		
90	045	20:04:14.666	423V6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,204:81:0		
90	045	20:04:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2596 +/- 3;	4R0	0400	187,205:08:0		
90	045	20:04:26.666	423V6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,205:08:0		
90	045	20:04:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2597 +/- 3;	4R0	0400	187,205:09:9		
90	045	20:04:28.000	423V6J	6TMCHG	EHR		4R0	0400	187,205:10:0		
90	045	20:35:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2597 +/- 3;	4R0	0400	187,235:33:0		
90	045	20:35:03.333	423V6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,235:33:0		
90	045	20:35:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2596 +/- 3;	4R0	0400	187,235:35:2		
90	045	20:35:11.333	423V6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,235:45:0		
90	045	20:35:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2595 +/- 3;	4R0	0400	187,235:45:0		
90	045	20:35:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2594 +/- 3;	4R0	0400	187,235:46:9		
90	045	20:40:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2594 +/- 3;	4R0	0400	187,240:23:0		
90	045	20:40:00.000	20C6L	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,240:23:0		
90	045	20:40:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2595 +/- 3;	4R0	0400	187,240:29:0		
90	045	20:41:28.000	20C6M	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,241:64:0		
90	045	20:41:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2669 +/- 3;	4R0	0400	187,241:64:0		
90	045	20:41:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2670 +/- 3;	4R0	0400	187,241:65:8		
90	045	20:45:00.666	423W6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,245:19:0		
90	045	20:48:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2670 +/- 3;	4R0	0400	187,248:19:0		
90	045	20:48:02.666	423W6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,248:19:0		
90	045	20:48:04.000	423W6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,248:21:0		
90	045	20:48:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2671 +/- 3;	4R0	0400	187,248:21:2		
90	045	20:48:16.000	423W6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,248:39:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	20:48:32.666	423W6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,248:64:0		
90	045	20:48:45.333	423W6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,248:83:0		
90	045	20:48:58.000	423W6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,249:11:0		
90	045	20:49:14.666	423W6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,249:36:0		
90	045	20:49:26.666	423W6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,249:54:0		
90	045	20:49:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2690 +/- 3;	4R0	0400	187,249:54:0		
90	045	20:49:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2691 +/- 3;	4R0	0400	187,249:55:9		
90	045	20:49:28.000	423W6J	6TMCHG	EHR		4R0	0400	187,249:56:0		
90	045	21:20:03.333	423W6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,279:79:0		
90	045	21:20:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2691 +/- 3;	4R0	0400	187,279:79:0		
90	045	21:20:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2690 +/- 4;	4R0	0400	187,279:81:2		
90	045	21:20:11.333	423W6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,280:00:0		
90	045	21:20:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2689 +/- 4;	4R0	0400	187,280:00:0		
90	045	21:20:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2688 +/- 4;	4R0	0400	187,280:01:9		
90	045	21:25:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2688 +/- 4;	4R0	0400	187,284:69:0		
90	045	21:25:00.000	20C6N	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,284:69:0		
90	045	21:25:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2689 +/- 4;	4R0	0400	187,284:75:0		
90	045	21:26:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2763 +/- 4;	4R0	0400	187,286:19:0		
90	045	21:26:28.000	20C6O	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,286:19:0		
90	045	21:26:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2764 +/- 4;	4R0	0400	187,286:20:8		
90	045	21:30:00.666	423X6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,289:65:0		
90	045	21:33:02.666	423X6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,292:65:0		
90	045	21:33:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2764 +/- 4;	4R0	0400	187,292:65:0		
90	045	21:33:04.000	423X6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,292:67:0		
90	045	21:33:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2765 +/- 4;	4R0	0400	187,292:67:2		
90	045	21:33:16.000	423X6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,292:85:0		
90	045	21:33:32.666	423X6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,293:19:0		
90	045	21:33:45.333	423X6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,293:38:0		
90	045	21:33:58.000	423X6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,293:57:0		
90	045	21:34:14.666	423X6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,293:82:0		
90	045	21:34:26.666	423X6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,294:09:0		
90	045	21:34:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2784 +/- 4;	4R0	0400	187,294:09:0		
90	045	21:34:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2785 +/- 4;	4R0	0400	187,294:10:9		
90	045	21:34:28.000	423X6J	6TMCHG	EHR		4R0	0400	187,294:11:0		
90	045	22:05:03.333	423X6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,324:34:0		
90	045	22:05:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2785 +/- 4;	4R0	0400	187,324:34:0		
90	045	22:05:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2784 +/- 4;	4R0	0400	187,324:36:2		
90	045	22:05:11.333	423X6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,324:46:0		
90	045	22:05:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2782 +/- 4;	4R0	0400	187,324:46:0		
90	045	22:05:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2781 +/- 4;	4R0	0400	187,324:47:9		
90	045	22:10:00.000	20C6P	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,329:24:0		
90	045	22:10:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2781 +/- 4;	4R0	0400	187,329:24:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	22:10:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2783 +/- 4;	4R0	0400	187,329:30:0		
90	045	22:11:28.000	20C6Q	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,330:65:0		
90	045	22:11:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2857 +/- 4;	4R0	0400	187,330:65:0		
90	045	22:11:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2858 +/- 4;	4R0	0400	187,330:66:8		
90	045	22:15:00.666	423Y6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,334:20:0		
90	045	22:18:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2858 +/- 4;	4R0	0400	187,337:20:0		
90	045	22:18:02.666	423Y6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,337:20:0		
90	045	22:18:04.000	423Y6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,337:22:0		
90	045	22:18:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2859 +/- 4;	4R0	0400	187,337:22:2		
90	045	22:18:16.000	423Y6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,337:40:0		
90	045	22:18:32.666	423Y6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,337:65:0		
90	045	22:18:45.333	423Y6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,337:84:0		
90	045	22:18:58.000	423Y6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,338:12:0		
90	045	22:19:14.666	423Y6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,338:37:0		
90	045	22:19:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2878 +/- 4;	4R0	0400	187,338:55:0		
90	045	22:19:26.666	423Y6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,338:55:0		
90	045	22:19:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2879 +/- 4;	4R0	0400	187,338:56:9		
90	045	22:19:28.000	423Y6J	6TMCHG	EHR		4R0	0400	187,338:57:0		
90	045	22:50:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2879 +/- 4;	4R0	0400	187,368:80:0		
90	045	22:50:03.333	423Y6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,368:80:0		
90	045	22:50:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2878 +/- 5;	4R0	0400	187,368:82:2		
90	045	22:50:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2876 +/- 5;	4R0	0400	187,369:01:0		
90	045	22:50:11.333	423Y6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,369:01:0		
90	045	22:50:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2875 +/- 5;	4R0	0400	187,369:02:9		
90	045	22:55:00.000	20C6R	6DMSC	S28,1	DMS Control Tape slew 28.8kbp	4R0	0400	187,373:70:0		
90	045	22:55:00.000		DMS:	*RUNUP	S28, TRACK 1, FWD, TIC 2875 +/- 5;	4R0	0400	187,373:70:0		
90	045	22:55:04.000		DMS:	*SLEW	S28, TRACK 1, FWD, TIC *2877 +/- 5;	4R0	0400	187,373:76:0		
90	045	22:56:28.000	20C6S	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,375:20:0		
90	045	22:56:28.000		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2951 +/- 5;	4R0	0400	187,375:20:0		
90	045	22:56:29.200		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2952 +/- 5;	4R0	0400	187,375:21:8		
90	045	23:00:00.666	423Z6A	6TMCHG	LPB	7.68 KBPS LOW RATE PLAYBACK	4R0	0400	187,378:66:0		
90	045	23:03:02.666	423Z6B	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4R0	0400	187,381:66:0		
90	045	23:03:02.666		DMS:	*RUNUP	P7, TRACK 1, FWD, TIC 2952 +/- 5;	4R0	0400	187,381:66:0		
90	045	23:03:04.000	423Z6C	6PBCPY	HLM1A,D000,180,D	D000,180,DB1B,0548,0200	4R0	0400	187,381:68:0		
90	045	23:03:04.133		DMS:	*PLAYBACK	P7, TRACK 1, FWD, TIC *2953 +/- 5;	4R0	0400	187,381:68:2		
90	045	23:03:16.000	423Z6D	6PBCPY	DB1A,4000,250,DB	4000,250,DB1B,0548,0200	4R0	0400	187,381:86:0		
90	045	23:03:32.666	423Z6E	6PBCPY	B1A1A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,382:20:0		
90	045	23:03:45.333	423Z6F	6PBCPY	B1B2A,5000,190,D	5000,190,DB1B,0548,0200	4R0	0400	187,382:39:0		
90	045	23:03:58.000	423Z6G	6PBCPY	DB1B,4000,250,B1	4000,250,B1A1A,1700,1AB4	4R0	0400	187,382:58:0		
90	045	23:04:14.666	423Z6H	6PBCPY	HLM1B,D000,180,B	D000,180,B1B1B,1700,1AB4	4R0	0400	187,382:83:0		
90	045	23:04:26.666	423Z6I	6DMSC	RDY,0	DMS Control Tape stop	4R0	0400	187,383:10:0		
90	045	23:04:26.666		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *2972 +/- 5;	4R0	0400	187,383:10:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	045	23:04:27.933		DMS:	*READY	RDY, TRACK 1, FWD, TIC *2973 +/- 5;	4R0	0400	187,383:11:9		
90	045	23:04:28.000	423Z6J	6TMCHG	EHR		4R0	0400	187,383:12:0		
90	045	23:35:03.333	423Z6W	6DMSC	S7,2	DMS Control Tape slew 7.68kbp	4R0	0400	187,413:35:0		
90	045	23:35:03.333		DMS:	*RUNUP	S7, TRACK *2, *REV, TIC 2973 +/- 5;	4R0	0400	187,413:35:0		
90	045	23:35:04.800		DMS:	*SLEW	S7, TRACK 2, REV, TIC *2972 +/- 5;	4R0	0400	187,413:37:2		
90	045	23:35:11.333	423Z6X	6DMSC	RDY,1	DMS Control Tape stop	4R0	0400	187,413:47:0		
90	045	23:35:11.333		DMS:	*RUNDOWN	RDY, TRACK 2, REV, TIC *2970 +/- 5;	4R0	0400	187,413:47:0		
90	045	23:35:12.600		DMS:	*READY	RDY, TRACK *1, *FWD, TIC *2969 +/- 5;	4R0	0400	187,413:48:9		
90	046	00:05:00.000	20D6A	6DMSR		Tape recorder rewind	4R0	0400	187,443:00:0		
90	046	00:05:00.000		DMS:	*REWIND	S806, TRACK *4, *REV, TIC 2969 +/- 5;	4R0	0400	187,443:00:0		
90	046	00:07:13.666		DMS:	*READY	RDY, TRACK *1, *FWD, TIC * 201 +/- 0;	4R0	0400	187,445:18:5		
90	046	00:12:02.000	20D6B	6DMSC	S115,1	DMS Control Tape slew 115kbps	4R0	0400	187,449:87:0		
90	046	00:12:02.000		DMS:	*RUNUP	S115, TRACK 1, FWD, TIC 201 +/- 0;	4R0	0400	187,449:87:0		
90	046	00:12:06.000		DMS:	*SLEW	S115, TRACK 1, FWD, TIC * 207 +/- 1;	4R0	0400	187,450:02:0		
90	046	00:32:51.333		DMS:	*RUNDOWN	RDY, TRACK 1, FWD, TIC *4591 +/- 1;	4R0	0400	187,470:50:0		
90	046	00:32:51.333	20D6C	6DMSC	RDY,3	DMS Control Tape stop	4R0	0400	187,470:50:0		
90	046	00:32:52.533		DMS:	*READY	RDY, TRACK *3, FWD, TIC *4592 +/- 1;	4R0	0400	187,470:51:8		
90	046	02:29:52.666	476D6A	6TMCHG	EHR		4R0	0400	187,586:26:0		
90	046	04:57:08.000	128E149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	4R3	0400	187,731:84:0		
90	046	04:57:46.000	165AN4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	4R3	0400	187,732:50:0		
90	046	04:57:46.666	165AN4B	7SCAN	NORM,114.422999,	Check S/P Position	4R3	0400	187,732:51:0		
90	046	04:58:08.666	128E149A131B4A	37IST	1,2,0,OFF,0,1,3	Chopper ON, Sync, Chopper (Ref)Gain State	1R3	0400	187,732:84:0		
90	046	04:58:12.000	175GK422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	187,732:89:0		
90	046	04:58:12.000		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4592 +/- 1;	1R3	0400	187,732:89:0		
90	046	04:58:13.333	176GK6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	187,733:00:0		
90	046	04:58:16.000		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4599 +/- 2;	1R3	0400	187,733:04:0		
90	046	04:58:44.000		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4697 +/- 2;	1R3	0400	187,733:46:0		
90	046	04:58:44.000	175GK422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	187,733:46:0		
90	046	04:58:45.200		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4698 +/- 2;	1R3	0400	187,733:47:8		
90	046	06:58:05.333	165AO4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R3	0400	187,851:50:0		
90	046	06:58:06.000	165AO4B	7SCAN	NORM,114.424999,	Check S/P Position	1R3	0400	187,851:51:0		
90	046	06:58:31.333	175GL422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	1R3	0400	187,851:89:0		
90	046	06:58:31.333		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4698 +/- 2;	1R3	0400	187,851:89:0		
90	046	06:58:32.666	176GL6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	1R3	0400	187,852:00:0		
90	046	06:58:35.333		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4705 +/- 3;	1R3	0400	187,852:04:0		
90	046	06:59:03.333		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4803 +/- 3;	1R3	0400	187,852:46:0		
90	046	06:59:03.333	175GL422A6B	6DMSC	RDY,0	DMS Control Tape stop	1R3	0400	187,852:46:0		
90	046	06:59:04.533		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4804 +/- 3;	1R3	0400	187,852:47:8		
90	046	07:04:32.000	128IL149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	1R0	0400	187,857:84:0		
90	046	21:49:54.600	490F476A6A	6TMCHG	EHRLRS		1R0	0400	188,733:52:0		
90	046	21:50:01.933	481F4A	7VECT		Inert vect update UTC	1R0	0400	188,733:63:0		
90	046	21:50:03.933	481F4B	7STAR	13,1701,278.8139	Star catalog update	1R0	0400	188,733:66:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	046	21:50:05.933	481F4C	7STAR	14,219,68.263,16	Star catalog update	1R0	0400	188,733:69:0		
90	046	21:50:07.933	481F4D	7STAR	15,560,262.55299	Star catalog update	1R0	0400	188,733:72:0		
90	046	21:50:09.933	481F4E	7STAR	16,0,0.0,0.0	Star catalog update	1R0	0400	188,733:75:0		
90	046	21:50:11.933	481F4F	7STAR	17,0,0.0,0.0	Star catalog update	1R0	0400	188,733:78:0		
90	046	21:50:13.933	481F4G	7STAR	18,0,0.0,0.0	Star catalog update	1R0	0400	188,733:81:0		
90	046	21:50:59.933	490F412A4B	7MODE	INT	AACS INERTIAL MODE	1R0	0400	188,734:59:0		
90	046	21:51:59.933	490F412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone	1R0	0400	188,735:58:0		
90	046	21:56:09.933	490F412A4E	7VECT		Inert vect update UTC	1R0	0400	188,739:69:0		
90	046	21:56:13.933	490F412A4F	7TURN	2,MVR	ALERT Thruster	1R0	0400	188,739:75:0		
90	046	22:00:01.933	490F412A406A4A	7STAR	7,1701,278.81399	Star catalog update	1R0	0400	188,743:53:0		
90	046	22:00:03.933	490F412A406A4B	7STAR	8,219,68.263,16.	Star catalog update	1R0	0400	188,743:56:0		
90	046	22:00:05.933	490F412A406A4C	7STAR	9,560,262.552998	Star catalog update	1R0	0400	188,743:59:0		
90	046	22:00:07.933	490F412A406A4D	7STAR	10,0,0.0,0.0	Star catalog update	1R0	0400	188,743:62:0		
90	046	22:00:09.933	490F412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update	1R0	0400	188,743:65:0		
90	046	22:00:11.933	490F412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update	1R0	0400	188,743:68:0		
90	047	00:41:56.600	476AR6A	6TMCHG	EHR		1R0	0400	188,903:65:0		
90	047	04:24:39.266	165AP4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	1R0	0400	189,123:89:0		
90	047	04:24:39.933	165AP4B	7SCAN	NORM,114.466,24.	Check S/P Position	1R0	0400	189,123:90:0		
90	047	04:27:37.933	128F149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	1R3	0400	189,126:84:0		
90	047	04:28:38.600	128F149A131B4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R3	0400	189,127:84:0		
90	047	04:28:41.933	175GM422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	189,127:89:0		
90	047	04:28:41.933		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4804 +/- 3;	2R3	0400	189,127:89:0		
90	047	04:28:43.266	176GM6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	189,128:00:0		
90	047	04:28:45.933		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4811 +/- 4;	2R3	0400	189,128:04:0		
90	047	04:29:13.933	175GM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	189,128:46:0		
90	047	04:29:13.933		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *4909 +/- 4;	2R3	0400	189,128:46:0		
90	047	04:29:15.133		DMS:	*READY	RDY, TRACK 3, FWD, TIC *4910 +/- 4;	2R3	0400	189,128:47:8		
90	047	06:27:34.600	165AQ4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	189,245:50:0		
90	047	06:27:35.266	165AQ4B	7SCAN	NORM,114.471999,	Check S/P Position	2R3	0400	189,245:51:0		
90	047	06:28:00.600	175GN422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	2R3	0400	189,245:89:0		
90	047	06:28:00.600		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 4910 +/- 4;	2R3	0400	189,245:89:0		
90	047	06:28:01.933	176GN6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	2R3	0400	189,246:00:0		
90	047	06:28:04.600		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *4917 +/- 5;	2R3	0400	189,246:04:0		
90	047	06:28:32.600	175GN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	0400	189,246:46:0		
90	047	06:28:32.600		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *5015 +/- 5;	2R3	0400	189,246:46:0		
90	047	06:28:33.800		DMS:	*READY	RDY, TRACK 3, FWD, TIC *5016 +/- 5;	2R3	0400	189,246:47:8		
90	047	06:34:01.266	128IM149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	2R0	0400	189,251:84:0		
90	048	03:57:07.200	128G149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	2R3	0400	190,520:84:0		
90	048	03:57:45.200	165AR4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	2R3	0400	190,521:50:0		
90	048	03:57:45.866	165AR4B	7SCAN	NORM,114.556999,	Check S/P Position	2R3	0400	190,521:51:0		
90	048	03:58:07.866	128G149A131B4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R3	0400	190,521:84:0		
90	048	03:58:11.200		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 5016 +/- 5;	3R3	0400	190,521:89:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	048	03:58:11.200	175GO422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	0400	190,521:89:0		
90	048	03:58:12.533	176GO6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	0400	190,522:00:0		
90	048	03:58:15.200		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *5023 +/- 6;	3R3	0400	190,522:04:0		
90	048	03:58:43.200	175GO422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	0400	190,522:46:0		
90	048	03:58:43.200		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *5122 +/- 6;	3R3	0400	190,522:46:0		
90	048	03:58:44.400		DMS:	*READY	RDY, TRACK 3, FWD, TIC *5123 +/- 7;	3R3	0400	190,522:47:8		
90	048	05:58:04.533	165AS4A	7TMOT	DIS,TMC	Disable IVP - Target Motion	3R3	0400	190,640:50:0		
90	048	05:58:05.200	165AS4B	7SCAN	NORM,114.566999,	Check S/P Position	3R3	0400	190,640:51:0		
90	048	05:58:30.533		DMS:	*RUNUP	R115, TRACK 3, FWD, TIC 5123 +/- 7;	3R3	0400	190,640:89:0		
90	048	05:58:30.533	175GP422A6A	6DMSC	R115,0	DMS Control Tape runup 115.2kb	3R3	0400	190,640:89:0		
90	048	05:58:31.866	176GP6A	6TMCHG	NCGHCM	NO CHANGE / 115.2 comp image + NIMS + PW	3R3	0400	190,641:00:0		
90	048	05:58:34.533		DMS:	*RECORD	R115, TRACK 3, FWD, TIC *5129 +/- 8;	3R3	0400	190,641:04:0		
90	048	05:59:02.533		DMS:	*RUNDOWN	RDY, TRACK 3, FWD, TIC *5228 +/- 8;	3R3	0400	190,641:46:0		
90	048	05:59:02.533	175GP422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	0400	190,641:46:0		
90	048	05:59:03.733		DMS:	*READY	RDY, TRACK 3, FWD, TIC *5229 +/- 8;	3R3	0400	190,641:47:8		
90	048	06:04:31.200	128IN149A131A4A	37IOP	0,0	Safe, Grating Start Position =0	3R0	0400	190,646:84:0		
90	048	06:07:05.866	20YU4A	37IOP	0,0	Safe, Grating Start Position =0	3R0	0400	190,649:43:0		
90	048	06:08:06.533	20YU3A	37AR	CMD,37AR,20YU3A,	NIMS Power OFF			190,650:43:0		
90	048	06:08:09.866	20CE3B	37C1P	2	Optics Heater 1 ON (primary relay)			190,650:48:0		
90	048	06:08:09.866	20CE3A	37C1P	1	Optics Heater 1 ON (primary relay)			190,650:48:0		
90	048	06:08:19.866	20CE3D	37C2P	2	Optics Heater 2 ON (primary relay)			190,650:63:0		
90	048	06:08:19.866	20CE3C	37C2P	1	Optics Heater 2 ON (primary relay)			190,650:63:0		
90	048	06:08:26.533	20YU3B	37H	CMD,37H,20YU3B,,	Replacement Heaters ON			190,650:73:0		
90	048	19:35:59.200	490G412A4B	7MODE	INT	AACS INERTIAL MODE			191,449:43:0		
90	048	21:34:57.866	490G476A6A	6TMCHG	EHRLRS				191,567:13:0		
90	048	21:35:01.866	481G4A	7STAR	13,1701,278.8139	Star catalog update			191,567:19:0		
90	048	21:35:03.866	481G4B	7STAR	14,131,322.00599	Star catalog update			191,567:22:0		
90	048	21:35:05.866	481G4C	7STAR	15,219,68.263,16	Star catalog update			191,567:25:0		
90	048	21:35:07.866	481G4D	7STAR	16,0,0.0,0.0	Star catalog update			191,567:28:0		
90	048	21:35:09.866	481G4E	7STAR	17,0,0.0,0.0	Star catalog update			191,567:31:0		
90	048	21:35:11.866	481G4F	7STAR	18,0,0.0,0.0	Star catalog update			191,567:34:0		
90	048	21:36:59.200	490G412A4D	7SAFE	UNSTOW	S/P TO 153 deg cone			191,569:13:0		
90	048	21:41:09.200	490G412A4E	7VECT		Inert vect update UTC			191,573:24:0		
90	048	21:41:13.200	490G412A4F	7TURN	2,MVR	ALERT Thruster			191,573:30:0		
90	048	21:45:01.200	490G412A406A4A	7STAR	7,1701,278.81399	Star catalog update			191,577:08:0		
90	048	21:45:03.200	490G412A406A4B	7STAR	8,131,322.005997	Star catalog update			191,577:11:0		
90	048	21:45:05.200	490G412A406A4C	7STAR	9,219,68.263,16.	Star catalog update			191,577:14:0		
90	048	21:45:07.200	490G412A406A4D	7STAR	10,0,0.0,0.0	Star catalog update			191,577:17:0		
90	048	21:45:09.200	490G412A406A4E	7STAR	11,0,0.0,0.0	Star catalog update			191,577:20:0		
90	048	21:45:11.200	490G412A406A4F	7STAR	12,0,0.0,0.0	Star catalog update			191,577:23:0		
90	048	23:45:02.533	20N4A	7MODE	CRU	AACS CRUISE MODE			191,695:72:0		
90	049	00:00:03.866	20I3A	37F2P	1	Shield Flash Heater ON (primary relay)			191,710:59:0		

YR	DOY	Time	PSID	Command	Parameters	Description	GCM	O S	RIM	MF	I
90	049	00:00:03.866	20I3B	37F2P	2	Shield Flash Heater ON (primary relay)			191,710	59	0
90	050	18:29:59.066		DMS:	READY	RDY, TRACK 3, FWD, TIC 5229 +/- 8;			194,232	50	0

PA Summary Table

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

INPUT FILE: EV6_900129.SEF

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
NIMS ON	UTILITY	20ZU	00180405:27	00180408:02	90-041/01:29:06	VENUS
VEVNPDIN1	INITRS	128IB	00180423:84	00180425:88	90-041/01:47:56	VENUS
VEVNPDIN1	SCITLM	176IB	00180424:00	00180424:01	90-041/01:48:00	VENUS
VEVNPDIN1	TARGET	165B	00180424:32	00180425:87	90-041/01:48:22	VENUS
VEVNPDIN1	CSMOS	117B	00180425:73	00180467:21	90-041/01:49:50	VENUS
VEVNPDIN1	SCIREC	175IB	00180425:80	00180467:38	90-041/01:49:54	VENUS
VEVNPDIN1	CMDRS	157IB	00180467:00	00180469:00	90-041/02:31:29	VENUS
VEVNJBARS	TARGET	165F	00180535:10	00180536:78	90-041/03:40:21	VENUS
VEVNJBARS	INITRS	128IC	00180535:78	00180536:78	90-041/03:41:06	VENUS
VEVNJBARS	CSMOS	117R	00180536:64	00180556:13	90-041/03:41:58	VENUS
VEVNJBARS	SCIREC	175IC	00180536:71	00180556:51	90-041/03:42:02	VENUS
VEVNJBARS	SCITLM	176IC	00180536:78	00180536:79	90-041/03:42:07	VENUS
VEVNPDIN2	TARGET	165C	00180556:59	00180558:36	90-041/04:02:08	VENUS
VEVNPDIN2	INITRS	128ID	00180557:84	00180558:45	90-041/04:03:25	VENUS
VEVNPDIN2	CSMOS	117C	00180558:22	00180617:58	90-041/04:03:44	VENUS
VEVNPDIN2	SCITLM	176ID	00180558:26	00180558:27	90-041/04:03:47	VENUS
VEVNPDIN2	SCIREC	175ID	00180558:29	00180587:55	90-041/04:03:49	VENUS
VEVNPDIN2	SCIREC	175IP	00180589:22	00180617:11	90-041/04:35:05	VENUS
VEVNPDIN2	SCITLM	176IP	00180589:26	00180589:27	90-041/04:35:08	VENUS
VEVPFNSMAP1	TARGET	165I	00180617:67	00180618:30	90-041/05:03:54	VENUS
VEVPFNSMAP1	CSMOS	117H	00180618:16	00180636:11	90-041/05:04:20	VENUS
VEVPFNSMAP1	SCIREC	175FA	00180625:87	00180626:57	90-041/05:12:12	VENUS
VEVPFNSMAP1	SCITLM	176FA	00180626:00	00180626:01	90-041/05:12:15	VENUS
VEVPFNSMAP2	TARGET	165J	00180637:28	00180638:00	90-041/05:23:41	VENUS
VEVPFNSMAP2	SCIREC	175MB	00180637:71	00180646:41	90-041/05:24:10	VENUS
VEVNLSN	INITRS	128IE	00180644:84	00180646:46	90-041/05:31:23	VENUS
VEVNLSN	TARGET	165D	00180645:24	00180646:46	90-041/05:31:44	VENUS
VEVNLSN	CSMOS	117D	00180646:30	00180652:30	90-041/05:32:48	VENUS
VEVNLSN	SCIREC	175IE	00180646:39	00180652:33	90-041/05:32:54	VENUS
VEVNLSN	SCITLM	176IE	00180646:39	00180646:40	90-041/05:32:54	VENUS
VEVNLSN	CMDRS	157IE	00180652:00	00180654:00	90-041/05:38:32	VENUS
VEVNLSD	TARGET	165E	00180680:80	00180682:11	90-041/06:07:44	VENUS
VEVNLSD	INITRS	128IF	00180681:78	00180682:11	90-041/06:08:44	VENUS
VEVNLSD	CSMOS	117E	00180681:88	00180686:07	90-041/06:08:50	VENUS
VEVNLSD	SCITLM	176IF	00180682:00	00180682:01	90-041/06:08:52	VENUS
VEVNLSD	SCIREC	175IF	00180682:04	00180686:00	90-041/06:08:55	VENUS
VEVSLMB01	CMDRS	157F	00180701:00	00180714:00	90-041/06:28:05	VENUS
VEVSLMB01	TARGET	165AX	00180768:68	00180770:00	90-041/07:36:35	VENUS
VEVSLMB01	SSI	147AK	00180769:76	00180776:89	90-041/07:37:41	VENUS
VEVSLMB01	SMOS	118U	00180769:81	00180776:57	90-041/07:37:44	VENUS
VEVSLMB01	SCIREC	175FB	00180769:89	00180771:03	90-041/07:37:50	VENUS
VEVSLMB01	SCITLM	176FB	00180770:00	00180770:01	90-041/07:37:51	VENUS
VEVSLMB01	SCIREC	175GW	00180771:43	00180772:48	90-041/07:39:20	VENUS
VEVSLMB01	SCIREC	175GX	00180772:89	00180774:03	90-041/07:40:52	VENUS
VEVSLMB01	SCIREC	175GY	00180774:43	00180775:48	90-041/07:42:22	VENUS
VEVSLMB01	SCIREC	175GZ	00180775:89	00180777:03	90-041/07:43:54	VENUS
VEVPNEWS	TARGET	165BC	00180777:44	00180778:00	90-041/07:45:25	VENUS

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
VEVPNEWS	CSMOS	117P	00180777:77	00180826:87	90-041/07:45:47	VENUS
VEVPNEWS	SCIREC	175JG	00180777:84	00180826:45	90-041/07:45:52	VENUS
VEVPNEWS	SCITLM	176JG	00180778:00	00180778:01	90-041/07:45:56	VENUS
VEVSLMB02	TARGET	165AY	00180887:38	00180889:01	90-041/09:36:34	VENUS
VEVSLMB02	SSI	147AL	00180887:76	00180888:89	90-041/09:37:00	VENUS
VEVSLMB02	SCIREC	175FC	00180887:89	00180889:03	90-041/09:37:08	VENUS
VEVSLMB02	SCITLM	176FC	00180888:00	00180888:01	90-041/09:37:10	VENUS
VEVSLMB02	INITRS	128IG	00180893:84	00180894:69	90-041/09:43:09	VENUS
VEVSFT201	TARGET	165S	00182165:89	00182170:00	90-042/07:09:20	VENUS
VEVSFT201	INITRS	128C	00182168:84	00182170:53	90-042/07:12:19	VENUS
VEVSFT201	SMOS	118B	00182169:81	00182170:51	90-042/07:13:18	VENUS
VEVSFT201	SCIREC	175FD	00182169:89	00182171:03	90-042/07:13:23	VENUS
VEVSFT201	SCITLM	176FD	00182170:00	00182170:01	90-042/07:13:24	VENUS
VEVSFT202	TARGET	165T	00182179:50	00182180:00	90-042/07:23:04	VENUS
VEVSFT202	SMOS	118C	00182179:81	00182180:51	90-042/07:23:24	VENUS
VEVSFT202	SCIREC	175FE	00182179:89	00182181:03	90-042/07:23:30	VENUS
VEVSFT202	SCITLM	176FE	00182180:00	00182180:01	90-042/07:23:31	VENUS
VEVSFT203	TARGET	165U	00182209:50	00182210:00	90-042/07:53:24	VENUS
VEVSFT203	SMOS	118D	00182209:81	00182210:51	90-042/07:53:44	VENUS
VEVSFT203	SCIREC	175FF	00182209:89	00182211:03	90-042/07:53:50	VENUS
VEVSFT203	SCITLM	176FF	00182210:00	00182210:01	90-042/07:53:51	VENUS
VEVSFT204	TARGET	165V	00182288:50	00182289:00	90-042/09:13:16	VENUS
VEVSFT204	SMOS	118E	00182288:81	00182289:51	90-042/09:13:37	VENUS
VEVSFT204	SCIREC	175FG	00182288:89	00182290:03	90-042/09:13:42	VENUS
VEVSFT204	SCITLM	176FG	00182289:00	00182289:01	90-042/09:13:44	VENUS
VEVSFT205	TARGET	165W	00182298:50	00182299:00	90-042/09:23:23	VENUS
VEVSFT205	SMOS	118F	00182298:81	00182299:51	90-042/09:23:44	VENUS
VEVSFT205	SCIREC	175FH	00182298:89	00182300:03	90-042/09:23:49	VENUS
VEVSFT205	SCITLM	176FH	00182299:00	00182299:01	90-042/09:23:50	VENUS
VEVSFT206	TARGET	165X	00182327:50	00182328:00	90-042/09:52:42	VENUS
VEVSFT206	SMOS	118G	00182327:81	00182328:51	90-042/09:53:03	VENUS
VEVSFT206	SCIREC	175FI	00182327:89	00182329:03	90-042/09:53:08	VENUS
VEVSFT206	SCITLM	176FI	00182328:00	00182328:01	90-042/09:53:10	VENUS
VEVSFT207	TARGET	165Y	00182406:50	00182407:00	90-042/11:12:35	VENUS
VEVSFT207	SMOS	118H	00182406:81	00182407:51	90-042/11:12:56	VENUS
VEVSFT207	SCIREC	175FJ	00182406:89	00182408:03	90-042/11:13:01	VENUS
VEVSFT207	SCITLM	176FJ	00182407:00	00182407:01	90-042/11:13:02	VENUS
VEVSFT208	TARGET	165Z	00182416:50	00182417:00	90-042/11:22:42	VENUS
VEVSFT208	SMOS	118I	00182416:81	00182417:51	90-042/11:23:02	VENUS
VEVSFT208	SCIREC	175FK	00182416:89	00182418:03	90-042/11:23:08	VENUS
VEVSFT208	SCITLM	176FK	00182417:00	00182417:01	90-042/11:23:09	VENUS
VEVSFT209	TARGET	165AA	00182446:50	00182447:00	90-042/11:53:02	VENUS
VEVSFT209	SMOS	118J	00182446:81	00182447:51	90-042/11:53:22	VENUS
VEVSFT209	SCIREC	175FL	00182446:89	00182448:03	90-042/11:53:28	VENUS
VEVSFT209	SCITLM	176FL	00182447:00	00182447:01	90-042/11:53:29	VENUS
VEVSFT210	TARGET	165AB	00182525:50	00182526:00	90-042/13:12:54	VENUS
VEVSFT210	SMOS	118K	00182525:81	00182526:51	90-042/13:13:15	VENUS
VEVSFT210	SCIREC	175FM	00182525:89	00182527:03	90-042/13:13:20	VENUS
VEVSFT210	SCITLM	176FM	00182526:00	00182526:01	90-042/13:13:22	VENUS
VEVSFT211	TARGET	165AC	00182555:50	00182556:00	90-042/13:43:14	VENUS
VEVSFT211	SMOS	118L	00182555:81	00182556:51	90-042/13:43:35	VENUS
VEVSFT211	SCIREC	175FN	00182555:89	00182557:03	90-042/13:43:40	VENUS
VEVSFT211	SCITLM	176FN	00182556:00	00182556:01	90-042/13:43:42	VENUS

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
VEVSFT212	TARGET	165AD	00182644:50	00182645:00	90-042/15:13:14	VENUS
VEVSFT212	SMOS	118M	00182644:81	00182645:51	90-042/15:13:34	VENUS
VEVSFT212	SCIREC	175FO	00182644:89	00182646:03	90-042/15:13:40	VENUS
VEVSFT212	SCITLM	176FO	00182645:00	00182645:01	90-042/15:13:41	VENUS
VEVSFT213	TARGET	165AE	00182673:50	00182674:00	90-042/15:42:33	VENUS
VEVSFT213	SMOS	118N	00182673:81	00182674:51	90-042/15:42:54	VENUS
VEVSFT213	SCIREC	175FP	00182673:89	00182675:03	90-042/15:42:59	VENUS
VEVSFT213	SCITLM	176FP	00182674:00	00182674:01	90-042/15:43:00	VENUS
VEVSFT214	TARGET	165AF	00182762:50	00182763:00	90-042/17:12:32	VENUS
VEVSFT214	SMOS	118O	00182762:81	00182763:51	90-042/17:12:53	VENUS
VEVSFT214	SCIREC	175FQ	00182762:89	00182764:03	90-042/17:12:58	VENUS
VEVSFT214	SCITLM	176FQ	00182763:00	00182763:01	90-042/17:13:00	VENUS
VEVSFT215	TARGET	165AG	00182792:50	00182793:00	90-042/17:42:52	VENUS
VEVSFT215	SMOS	118P	00182792:81	00182793:51	90-042/17:43:13	VENUS
VEVSFT215	SCIREC	175FR	00182792:89	00182794:03	90-042/17:43:18	VENUS
VEVSFT215	SCITLM	176FR	00182793:00	00182793:01	90-042/17:43:20	VENUS
VEVSFT216	TARGET	165AH	00182881:50	00182882:00	90-042/19:12:52	VENUS
VEVSFT216	SMOS	118Q	00182881:81	00182882:51	90-042/19:13:12	VENUS
VEVSFT216	SCIREC	175FS	00182881:89	00182883:03	90-042/19:13:18	VENUS
VEVSFT216	SCITLM	176FS	00182882:00	00182882:01	90-042/19:13:19	VENUS
VEVSFT217	TARGET	165AI	00182911:50	00182912:00	90-042/19:43:12	VENUS
VEVSFT217	SMOS	118R	00182911:81	00182912:51	90-042/19:43:32	VENUS
VEVSFT217	SCIREC	175FT	00182911:89	00182913:03	90-042/19:43:38	VENUS
VEVSFT217	SCITLM	176FT	00182912:00	00182912:01	90-042/19:43:39	VENUS
VEVSFT218	TARGET	165AJ	00183000:50	00183001:00	90-042/21:13:11	VENUS
VEVSFT218	SMOS	118S	00183000:81	00183001:51	90-042/21:13:32	VENUS
VEVSFT218	SCIREC	175FU	00183000:89	00183002:03	90-042/21:13:37	VENUS
VEVSFT218	SCITLM	176FU	00183001:00	00183001:01	90-042/21:13:38	VENUS
VEVSFT219	TARGET	165AK	00183030:50	00183031:00	90-042/21:43:31	VENUS
VEVSFT219	SMOS	118T	00183030:81	00183031:51	90-042/21:43:52	VENUS
VEVSFT219	SCIREC	175FV	00183030:89	00183032:03	90-042/21:43:57	VENUS
VEVSFT219	SCITLM	176FV	00183031:00	00183031:01	90-042/21:43:58	VENUS
VEVSFT219	INITRS	128IH	00183035:84	00183036:87	90-042/21:48:57	VENUS
VEVSFT101	INITRS	128A	00183518:84	00183520:53	90-043/05:57:19	VENUS
VEVSFT101	TARGET	165N	00183519:50	00183520:47	90-043/05:57:57	VENUS
VEVSFT101	SSI	147A	00183519:76	00183520:53	90-043/05:58:14	VENUS
VEVSFT101	SCIREC	175FW	00183519:89	00183520:49	90-043/05:58:23	VENUS
VEVSFT101	SCITLM	176FW	00183520:00	00183520:01	90-043/05:58:24	VENUS
VEVSLTNG02	TARGET	165AZ	00183534:50	00183535:00	90-043/06:13:07	VENUS
VEVSLTNG02	SSI	147AN	00183534:76	00183535:38	90-043/06:13:24	VENUS
VEVSLTNG02	CSMOS	117M	00183534:77	00183535:29	90-043/06:13:25	VENUS
VEVSLTNG02	SCIREC	175FX	00183534:83	00183535:26	90-043/06:13:29	VENUS
VEVSLTNG02	SCITLM	176FX	00183535:00	00183535:01	90-043/06:13:34	VENUS
VEVSFT102	TARGET	165O	00183638:50	00183639:47	90-043/07:58:16	VENUS
VEVSFT102	SSI	147B	00183638:76	00183639:24	90-043/07:58:34	VENUS
VEVSFT102	SCIREC	175FY	00183638:89	00183639:49	90-043/07:58:42	VENUS
VEVSFT102	SCITLM	176FY	00183639:00	00183639:01	90-043/07:58:44	VENUS
VEVSFT103	TARGET	165P	00183756:50	00183757:47	90-043/09:57:35	VENUS
VEVSFT103	SSI	147C	00183756:76	00183757:86	90-043/09:57:52	VENUS
VEVSFT103	SCIREC	175FZ	00183756:89	00183757:49	90-043/09:58:01	VENUS
VEVSFT103	SCITLM	176FZ	00183757:00	00183757:01	90-043/09:58:02	VENUS
VEVSFT104	TARGET	165Q	00183875:50	00183876:47	90-043/11:57:54	VENUS
VEVSFT104	SSI	147D	00183875:76	00183876:57	90-043/11:58:12	VENUS

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
VEVSFT104	SCIREC	175GA	00183875:89	00183876:49	90-043/11:58:20	VENUS
VEVSFT104	SCITLM	176GA	00183876:00	00183876:01	90-043/11:58:22	VENUS
VEVSFT105	TARGET	165R	00183993:50	00183994:47	90-043/13:57:13	VENUS
VEVSFT105	SSI	147E	00183993:76	00183994:29	90-043/13:57:30	VENUS
VEVSFT105	SCIREC	175GB	00183993:89	00183994:49	90-043/13:57:39	VENUS
VEVSFT105	SCITLM	176GB	00183994:00	00183994:01	90-043/13:57:40	VENUS
VEVSFT105	INITRS	128II	00183999:84	00184000:23	90-043/14:03:40	VENUS
VEVSGLI01	INITRS	128H	00184942:84	00184944:69	90-044/05:57:08	VENUS
VEVSGLI01	TARGET	165AT	00184943:50	00184945:01	90-044/05:57:46	VENUS
VEVSGLI01	SSI	147AG	00184943:76	00184944:89	90-044/05:58:04	VENUS
VEVSGLI01	SCIREC	175GC	00184943:89	00184945:03	90-044/05:58:12	VENUS
VEVSGLI01	SCITLM	176GC	00184944:00	00184944:01	90-044/05:58:14	VENUS
VEVSGLI02	TARGET	165AU	00185062:50	00185064:01	90-044/07:58:06	VENUS
VEVSGLI02	SSI	147AH	00185062:76	00185063:89	90-044/07:58:23	VENUS
VEVSGLI02	SCIREC	175GD	00185062:89	00185064:03	90-044/07:58:32	VENUS
VEVSGLI02	SCITLM	176GD	00185063:00	00185063:01	90-044/07:58:33	VENUS
VEVSGLI03	TARGET	165AV	00185183:50	00185185:01	90-044/10:00:26	VENUS
VEVSGLI03	SSI	147AI	00185183:76	00185184:89	90-044/10:00:44	VENUS
VEVSGLI03	SCIREC	175GG	00185183:89	00185185:03	90-044/10:00:52	VENUS
VEVSGLI03	SCITLM	176GG	00185184:00	00185184:01	90-044/10:00:54	VENUS
VEVSGLIR04	TARGET	165AW	00185301:50	00185303:01	90-044/11:59:45	VENUS
VEVSGLIR04	SSI	147AJ	00185301:76	00185302:89	90-044/12:00:02	VENUS
VEVSGLIR04	SCIREC	175GH	00185301:89	00185303:03	90-044/12:00:11	VENUS
VEVSGLIR04	SCITLM	176GH	00185302:00	00185302:01	90-044/12:00:12	VENUS
VEVSGLIR04	INITRS	128IJ	00185307:84	00185308:65	90-044/12:06:12	VENUS
VEVSGL03	TARGET	165AL	00186334:89	00186339:47	90-045/05:24:40	VENUS
VEVSGL03	INITRS	128D	00186337:84	00186339:24	90-045/05:27:38	VENUS
VEVSGL03	SSI	147Y	00186338:76	00186339:24	90-045/05:28:34	VENUS
VEVSGL03	SCIREC	175GI	00186338:89	00186339:49	90-045/05:28:42	VENUS
VEVSGL03	SCITLM	176GI	00186339:00	00186339:01	90-045/05:28:44	VENUS
VEVSGL04	TARGET	165AM	00186456:50	00186457:47	90-045/07:27:35	VENUS
VEVSGL04	SSI	147Z	00186456:76	00186457:86	90-045/07:27:52	VENUS
VEVSGL04	SCIREC	175GJ	00186456:89	00186457:49	90-045/07:28:01	VENUS
VEVSGL04	SCITLM	176GJ	00186457:00	00186457:01	90-045/07:28:02	VENUS
VEVSGL04	INITRS	128IK	00186462:84	00186463:80	90-045/07:34:02	VENUS
VEVSGL05	INITRS	128E	00187731:84	00187733:70	90-046/04:57:08	VENUS
VEVSGL05	TARGET	165AN	00187732:50	00187733:47	90-046/04:57:46	VENUS
VEVSGL05	SSI	147AA	00187732:76	00187733:70	90-046/04:58:03	VENUS
VEVSGL05	SCIREC	175GK	00187732:89	00187733:49	90-046/04:58:12	VENUS
VEVSGL05	SCITLM	176GK	00187733:00	00187733:01	90-046/04:58:13	VENUS
VEVSGL06	TARGET	165AO	00187851:50	00187852:47	90-046/06:58:05	VENUS
VEVSGL06	SSI	147AB	00187851:76	00187852:41	90-046/06:58:22	VENUS
VEVSGL06	SCIREC	175GL	00187851:89	00187852:49	90-046/06:58:31	VENUS
VEVSGL06	SCITLM	176GL	00187852:00	00187852:01	90-046/06:58:32	VENUS
VEVSGL06	INITRS	128IL	00187857:84	00187858:35	90-046/07:04:32	VENUS
VEVSGL07	TARGET	165AP	00189123:89	00189128:46	90-047/04:24:39	VENUS
VEVSGL07	INITRS	128F	00189126:84	00189128:25	90-047/04:27:37	VENUS
VEVSGL07	SSI	147AC	00189127:76	00189128:25	90-047/04:28:33	VENUS
VEVSGL07	SCIREC	175GM	00189127:89	00189128:49	90-047/04:28:41	VENUS
VEVSGL07	SCITLM	176GM	00189128:00	00189128:01	90-047/04:28:43	VENUS
VEVSGL08	TARGET	165AQ	00189245:50	00189246:47	90-047/06:27:34	VENUS
VEVSGL08	SSI	147AD	00189245:76	00189246:87	90-047/06:27:51	VENUS
VEVSGL08	SCIREC	175GN	00189245:89	00189246:49	90-047/06:28:00	VENUS

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
VEVSGL08	SCITLM	176GN	00189246:00	00189246:01	90-047/06:28:01	VENUS
VEVSGL08	INITRS	128IM	00189251:84	00189252:81	90-047/06:34:01	VENUS
VEVSGL09	INITRS	128G	00190520:84	00190522:71	90-048/03:57:07	VENUS
VEVSGL09	TARGET	165AR	00190521:50	00190522:47	90-048/03:57:45	VENUS
VEVSGL00	SSI	147AE	00190521:76	00190522:71	90-048/03:58:02	VENUS
VEVSGL09	SCIREC	175GO	00190521:89	00190522:49	90-048/03:58:11	VENUS
VEVSGL09	SCITLM	176GO	00190522:00	00190522:01	90-048/03:58:12	VENUS
VEVSGL10	TARGET	165AS	00190640:50	00190641:47	90-048/05:58:04	VENUS
VEVSGL10	SSI	147AF	00190640:76	00190641:42	90-048/05:58:21	VENUS
VEVSGL10	SCIREC	175GP	00190640:89	00190641:49	90-048/05:58:30	VENUS
VEVSGL10	SCITLM	176GP	00190641:00	00190641:01	90-048/05:58:31	VENUS
VEVSGL10	INITRS	128IN	00190646:84	00190647:36	90-048/06:04:31	VENUS
NIMS OFF	UTILITY	20YU	00190649:43	00190650:87	90-048/06:07:05	VENUS
NIMS HTRS	UTILITY	20CE	00190650:33	00190652:31	90-048/06:07:59	VENUS

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_(6)	56 - 71	.First PTAB (repeat count,mirror op,autobias...
PTAB_(6)	74 - 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
		.The TARGET names used are:
		VENUS - V - Venus

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

INPUT SEF FILE: EV6_900129.SEF

OAPEL, EXT, PSID, SCLK1, SCLK2, MODE, GAIN, CHOP, GRAT_OFF, PTAB_(6), PTAB_(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
VEVNPDIN1	A	B	00180425:85	00180467:34	7	2	1	4	1 1 0 16	0 12 1 1 0 16	0	0	1990-041T01:49:58	0	1	VENUS
VEVNJBARS	A	R	00180536:78	00180556:47	3	2	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T03:42:07	0	1	VENUS
VEVNPDIN2	A	C	00180558:35	00180617:07	7	2	1	4	1 1 0 16	0 12 1 1 0 16	0	0	1990-041T04:03:53	0	1	VENUS
VEVPFNSMAP1	A	H	00180626:01	00180626:52	7	2	1	4	1 1 0 16	0 12 1 1 0 16	0	0	1990-041T05:12:16	0	1	VENUS
VEVPFNSMAP2	A	I	00180636:39	00180637:77	7	2	1	4	1 1 0 16	0 12 1 1 0 16	0	0	1990-041T05:24:14	0	1	VENUS
VEVNLSN	A	D	00180646:45	00180646:90	4	4	1	4	1 0 0 0	1 24 1 0 0 0	0	1	1990-041T05:32:58	0	1	VENUS
VEVNLSN	B	D	00180647:00	00180652:29	4	4	1	4	1 0 0 0	1 24 1 0 0 0	0	0	1990-041T05:33:29	0	1	VENUS
VEVNLSD	A	E	00180682:09	00180685:87	4	4	1	4	1 0 0 0	1 24 1 0 0 0	0	0	1990-041T06:08:59	0	1	VENUS
VEVSLMB01	A	U	00180770:03	00180770:90	3	1	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T07:37:54	0	1	VENUS
VEVSLMB01	B	U	00180771:49	00180772:44	3	1	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T07:39:24	0	1	VENUS
VEVSLMB01	C	U	00180773:04	00180773:90	3	1	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T07:40:56	0	1	VENUS
VEVSLMB01	D	U	00180774:49	00180775:44	3	1	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T07:42:26	0	1	VENUS
VEVSLMB01	E	U	00180776:04	00180776:90	3	1	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T07:43:58	0	1	VENUS
VEVPNEWS	A	P	00180777:87	00180778:00	3	1	1	4	1 1 0 0	1 24 1 1 0 0	0	0	1990-041T07:45:53	0	1	VENUS

OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A								PTAB B								E	O	UTC1	R	T	TARGET
VEVSLMB02	A	AL	00180888:03	00180888:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-041T09:37:12	0	1	VENUS
VEVSFT201	A	B	00182170:03	00182170:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T07:13:27	0	1	VENUS
VEVSFT202	A	C	00182180:03	00182180:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T07:23:34	0	1	VENUS
VEVSFT203	A	D	00182210:03	00182210:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T07:53:54	0	1	VENUS
VEVSFT204	A	E	00182289:03	00182289:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T09:13:46	0	1	VENUS
VEVSFT205	A	F	00182299:03	00182299:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T09:23:53	0	1	VENUS
VEVSFT206	A	G	00182328:03	00182328:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T09:53:12	0	1	VENUS
VEVSFT207	A	H	00182407:03	00182407:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T11:13:05	0	1	VENUS
VEVSFT208	A	I	00182417:03	00182417:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T11:23:12	0	1	VENUS
VEVSFT209	A	J	00182447:03	00182447:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T11:53:32	0	1	VENUS
VEVSFT210	A	K	00182526:03	00182526:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T13:13:24	0	1	VENUS
VEVSFT211	A	L	00182556:03	00182556:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T13:43:44	0	1	VENUS
VEVSFT212	A	M	00182645:03	00182645:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T15:13:44	0	1	VENUS
VEVSFT213	A	N	00182674:03	00182674:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T15:43:03	0	1	VENUS
VEVSFT214	A	O	00182763:03	00182763:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T17:13:02	0	1	VENUS
VEVSFT215	A	P	00182793:03	00182793:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T17:43:22	0	1	VENUS
VEVSFT216	A	Q	00182882:03	00182882:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T19:13:22	0	1	VENUS
VEVSFT217	A	R	00182912:03	00182912:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T19:43:42	0	1	VENUS
VEVSFT218	A	S	00183001:03	00183001:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T21:13:41	0	1	VENUS
VEVSFT219	A	T	00183031:03	00183031:90	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-042T21:44:01	0	1	VENUS
VEVSFT101	A	A	00183520:03	00183520:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-043T05:58:27	0	1	VENUS
VEVSLTNG02	A	M	00183535:00	00183535:20	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-043T06:13:34	0	1	VENUS
VEVSFT102	A	B	00183639:03	00183639:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-043T07:58:46	0	1	VENUS
VEVSFT103	A	C	00183757:03	00183757:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-043T09:58:05	0	1	VENUS
VEVSFT104	A	D	00183876:03	00183876:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-043T11:58:24	0	1	VENUS
VEVSFT105	A	E	00183994:03	00183994:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-043T13:57:43	0	1	VENUS
VEVSGLI01	A	AG	00184944:03	00184944:90	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-044T05:58:16	0	1	VENUS
VEVSGLI02	A	AH	00185063:03	00185063:90	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-044T07:58:36	0	1	VENUS
VEVSGLI03	A	AI	00185184:03	00185184:90	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-044T10:00:56	0	1	VENUS
VEVSGLIR04	A	AJ	00185302:03	00185302:90	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-044T12:00:15	0	1	VENUS
VEVSGL03	A	Y	00186339:03	00186339:45	3	4	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-045T05:28:46	0	1	VENUS
VEVSGL04	A	Z	00186457:03	00186457:45	3	4	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-045T07:28:05	0	1	VENUS
VEVSGL05	A	AA	00187733:03	00187733:45	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-046T04:58:16	0	1	VENUS
VEVSGL06	A	AB	00187852:03	00187852:45	3	1	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-046T06:58:35	0	1	VENUS
VEVSGL07	A	AC	00189128:03	00189128:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-047T04:28:45	0	1	VENUS
VEVSGL08	A	AD	00189246:03	00189246:45	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-047T06:28:04	0	1	VENUS
VEVSGL09	A	AE	00190522:03	00190522:45	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-048T03:58:15	0	1	VENUS
VEVSGL10	A	AF	00190641:03	00190641:45	3	3	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1990-048T05:58:34	0	1	VENUS