Chapter 4 - NIMS Observation Summaries

Contents

Introduction to Chapter 4

This chapter summarizes the NIMS I24 observations in terms of a comprehensive sequence summary, Individual Obstab Summaries and a NIMS Obstab (Observation Table).

The NIMS Sequence Summary is a time-ordered listing of all spacecraft activity pertinent to NIMS operations for the I24 Sequence. The information in this summary is derived from the I24 SEFs (Spacecraft Event File) and PBTs (Playback Tables) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations. There are twelve columns of information in this table:

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     1) Line          -  Line Count.
     2) YR            -  Year.
     3) DOY           -  Day of Year.
     4) Time          -  SCET Time (UTC).
     5) PSID          -  Parameter Set ID of the SEF line.
     6) Command       -  Command name from the SEF.
     7) Parameters    -  Parameters from the above Command Line.
     8) Description   -  Description of the above Command for NIMS.
     9) GCM           -  NIMS Gain, Chopper mode, Instrument Mode.
                         Gain = 1,2,3 or 4.
                         Chopper Mode = R (Reference) or 6 (63Hz).
                         Instrement Mode = 0-15
    10) GO            -  NIMS Grating Offset.
    11) GS            -  NIMS Grating Start Position.
    12) RIM,MF,I      -  SCLK of the Command Line (RIM:MF:RTI)
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An additional line is inserted into this table at the start and stop times of each NIMS Observation (Oapel) to bracket the commands which affect each NIMS Observation. The NIMS Playback Select and DeSelect times are also inserted into this table to correlate the playback requests with the observations.

The Individual Obstab Summaries are expansions of the NIMS Obstab to one page per Obstab entry for ease in reading the NIMS Obstab.

The NIMS Obstab (Observation Table) is a time-ordered listing of the NIMS obsrvation parameters for use by downlink data processing of the NIMS I24 data. It is also derived from the I24 SEFs and PBTs. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry.

Sequence: I24AGE Safing   Created: 10/5/99   Begin: 99-283/04:00:00   Finish: 99-287/03:00:00

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	99	283	04:00:00.000	20A3FD	40HRPR	CMD,40HRPR,20A3F	RCT Heater OFF (primary relay)	4O0	4	0	5,206,474:26:8
2	99	283	04:00:00.000	20A3EX	37HR	CMD,37HR,20A3EX,	Replacement Heaters OFF	4O0	4	0	5,206,474:26:8
3	99	283	04:00:00.000	20A3EW	37A	CMD,37A,20A3EW,,	NIMS Power ON	4O0	4	0	5,206,474:26:8
4	99	283	04:00:00.000	20A3FF	40T2R	CMD,40T2R,20A3FF	PCT Heater 2 OFF	4O0	4	0	5,206,474:26:8
5	99	283	04:00:00.000	20A3FE	40T1PR	CMD,40T1PR,20A3F	PCT Heater 1 OFF (primary relay)	4O0	4	0	5,206,474:26:8
6	99	283	04:00:00.000	20A3FB	37F2PR	CMD,37F2PR,20A3F	Shield Flash Heater OFF (primary relay)	4O0	4	0	5,206,474:26:8
7	99	283	04:00:00.000	20A3FA	37F1PR	CMD,37F1PR,20A3F	Radiator Flash Heater OFF (primary relay)	4O0	4	0	5,206,474:26:8
8	99	283	04:00:00.000	20A3EZ	37C2PR	CMD,37C2PR,20A3E	Optics Heater 2 OFF (primary relay)	4O0	4	0	5,206,474:26:8
9	99	283	04:00:00.000	20A3EY	37C1PR	CMD,37C1PR,20A3E	Optics Heater 1 OFF (primary relay)	4O0	4	0	5,206,474:26:8
10	99	283	04:00:00.133		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,206,474:27:0
11	99	283	04:00:41.466	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4O0	4	0	5,206,474:89:0
12	99	283	04:00:42.133	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	4O0	4	0	5,206,474:90:0
13	99	283	04:00:42.800	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT	4O0	4	0	5,206,475:00:0
14	99	283	04:00:42.800	432JA6C	6RTSL1		R/T Select of DDS and	4O0	4	0	5,206,475:00:0
15	99	283	04:02:03.466	488AA6A	6TMSED	NORM,EH5	Sci, Eng, and D/L Chan	4O0	4	0	5,206,476:30:0
16	99	283	04:02:30.133	20OA6A	6HICON			4O0	4	0	5,206,476:70:0
17	99	283	04:09:40.800		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,206,483:79:0
18	99	283	04:09:40.800	465KA6A	6DMSC	P7,1	DMS Control Tape P/B 7.68kbps	4O0	4	0	5,206,483:79:0
19	99	283	04:09:47.466		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,206,483:89:0
20	99	283	04:09:48.866		DMS:	: *P_SLEW	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	5,206,484:00:1
21	99	283	04:09:48.866		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC 202.24 +/-	4O0	4	0	5,206,484:00:1
22	99	283	04:10:49.466		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC * 216.45 +/-	4O0	4	0	5,206,485:00:0
23	99	283	04:10:49.466	465KA6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	5,206,485:00:0
24	99	283	04:10:50.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 216.51 +/-	4O0	4	0	5,206,485:01:8
25	99	283	04:15:42.133	175KA422A6A	6DMSC	R28,1	DMS Control	4O0	4	0	5,206,489:75:0
26	99	283	04:15:42.133		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 216.51 +/-	4O0	4	0	5,206,489:75:0
27	99	283	04:15:48.800		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 216.51 +/-	4O0	4	0	5,206,489:85:0
28	99	283	04:15:52.133	175KA176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4O0	4	0	5,206,489:90:0
29	99	283	04:15:52.800		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 218.01 +/-	4O0	4	0	5,206,490:00:0
30	99	283	04:15:52.800		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 218.01 +/-	4O0	4	0	5,206,490:00:0
31	99	283	04:30:00.133	20TO4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,206,503:88:0
32	99	283	04:30:50.133	20TO4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,206,504:72:0
33	99	283	04:30:56.133	20TO4E	7STAR	1,1610,278.815,3	Star catalog update	4O0	4	0	5,206,504:81:0
34	99	283	04:30:58.133	20TO4F	7STAR	2,9000,2.664,14.	Star catalog update	4O0	4	0	5,206,504:84:0
35	99	283	04:31:00.133	20TO4G	7STAR	3,1610,278.815,3	Star catalog update	4O0	4	0	5,206,504:87:0
36	99	283	04:31:02.133	20TO4H	7STAR	4,9000,2.664,14.	Star catalog update	4O0	4	0	5,206,504:90:0
37	99	283	04:31:04.133	20TO4I	7STAR	5,1610,278.815,3	Star catalog update	4O0	4	0	5,206,505:02:0
38	99	283	04:31:06.133	20TO4J	7STAR	6,9000,2.664,14.	Star catalog update	4O0	4	0	5,206,505:05:0
39	99	283	04:35:02.800	432PD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,206,508:87:0
40	99	283	04:35:03.466	432PD6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,206,508:88:0
41	99	283	04:57:31.466	488AA6B	6TMSED	NORM,EH6	Sci, Eng, and D/L Chan	4O0	4	0	5,206,531:17:0
42	99	283	06:04:16.800		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *5934.41 +/-	4O0	4	0	5,206,597:19:0
43	99	283	06:04:16.800	175KA422A6B	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	5,206,597:19:0
44	99	283	06:04:18.000		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5934.71 +/-	4O0	4	0	5,206,597:20:8
45	99	283	08:01:04.133	20RA6B	6RTSL1		R/T Select of DDS and	4O0	4	0	5,206,712:65:0
46	99	283	08:05:24.133	192GA4A	7CONE	9.0,0.0	Check S/P Position	4O0	4	0	5,206,717:00:0
47	99	283	08:09:26.800	465KB6A	6DMSC	RDY,2	DMS Control Tape stop	4O0	4	0	5,206,721:00:0
48	99	283	08:09:26.800		DMS:	: READY	RDY, TRACK *2, *REV, TIC 5934.71 +/-	4O0	4	0	5,206,721:00:0
49	99	283	08:13:29.466	176GA6A	6TMREC	BPT	7.68 KBPS PPR BURST TO TAPE Record Mode C	4O0	4	0	5,206,725:00:0
50	99	283	08:15:44.133	176GA6B	6TMREC	NRC	NO RECORD Record Mode Change	4O0	4	0	5,206,727:20:0
51	99	283	08:15:46.133	50ZZ6XX	6DMSC	R7,0	DMS Control Tape runup 7.68kps	4O0	4	0	5,206,727:23:0
52	99	283	08:15:46.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5934.71 +/-	4O0	4	0	5,206,727:23:0
53	99	283	08:15:47.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5934.83 +/-	4O0	4	0	5,206,727:25:1

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
54	99	283	08:15:52.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5936.07 +/-	4O0	4	0	5,206,727:33:0	
55	99	283	08:15:54.000		DMS:	: *RUNUP	R7, TRACK *2, *REV, TIC *5936.13 +/-	4O0	4	0	5,206,727:34:8	
56	99	283	08:15:55.400		DMS:	: *AT_SPD	R7, TRACK 2, REV, TIC *5936.01 +/-	4O0	4	0	5,206,727:36:9	
57	99	283	08:15:56.133		DMS:	**: *RECORD**	R7, TRACK 2, REV, TIC *5935.83 +/-	4O0	4	0	5,206,727:38:0	
58	99	283	08:16:07.466	50ZZ6RD	6DMSC	RDY,0	DMS Control Tape stop	4O0	4	0	5,206,727:55:0	
59	99	283	08:16:07.466		DMS:	**: *RUNDOWN**	R7, TRACK 2, REV, TIC *5933.18 +/-	4O0	4	0	5,206,727:55:0	
60	99	283	08:16:08.666		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5933.12 +/-	4O0	4	0	5,206,727:56:8	
61	99	283	08:17:32.133	192GA4B	**7CONE**	**9.0,90.0**	Check S/P Position	4O0	4	0	5,206,729:00:0	
62	99	283	09:01:00.133	165GB4A	**7SCAN**	**NORM,233.136999,**	Check S/P Position	4O0	4	0	5,206,771:90:0	
63												
64						**SPACECRAFT**	**SAFING**					

			Sequence:	I24AZF		Created: 10/10/99	Begin: 99-284/03:00:00 Finish: 99-287/03:00:00					
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
1	99	284	00:30:17.400	24NNDETECT01-		-----START------					: :	
2	99	284	00:50:30.734	24NNDETECT01-		-----STOP-------					: :	
3	99	284	03:00:00.066		DMS:	: READY	RDY, TRACK 1, FWD, TIC 201.00 +/-				5,207,839:12:0	
4	99	284	03:00:51.400	432JA6B	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT				5,207,839:89:0	
5	99	284	03:00:52.066	432JA431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o				5,207,839:90:0	
6	99	284	03:00:52.733	432JA6C	6RTSL1		R/T Select of DDS and				5,207,840:00:0	
7	99	284	03:00:52.733	432JA6D	6RTSL2	NIMNCG,AACSEL,RT	AACS SELECT				5,207,840:00:0	
8	99	284	03:02:30.066	20OA6A	6HICON						5,207,841:55:0	
9	99	284	03:03:34.066	465KD6A	6DMST	235	DMS Slew to TIC				5,207,842:60:0	
10	99	284	03:03:34.066		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 201.00 +/-				5,207,842:60:0	
11	99	284	03:03:34.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 201.00 +/-				5,207,842:60:0	
12	99	284	03:03:40.733		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 201.00 +/-				5,207,842:70:0	
13	99	284	03:03:42.133		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 201.12 +/-				5,207,842:72:1	
14	99	284	03:05:56.866		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC * 232.94 +/-				5,207,845:01:2	
15	99	284	03:05:58.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 233.00 +/-				5,207,845:03:0	
16	99	284	03:11:39.400	432PD431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o				5,207,850:60:0	
17	99	284	03:11:40.066	432PD6A	6RTSL1		R/T Select of DDS and				5,207,850:61:0	
18	99	284	03:12:00.066	431OA6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl				5,207,851:00:0	
19	99	284	03:13:13.400	282NA431A6A	6RCSEL	DDSNCG,PLSSEL,EP	Record Select (DDS onl				5,207,852:19:0	
20	99	284	03:20:19.400	20ZS6A	6CKSUM	MAG,4040,46F0					5,207,859:21:0	
21	99	284	03:20:59.400	20ZS6B	6MROH	12	read from LLM1A12,2282,0,A2				5,207,859:81:0	
22	99	284	03:20:59.400	20ZS6B	6MROH	12,2282,0,A2	read from LLM1A12,2282,0,A2				5,207,859:81:0	
23	99	284	03:21:10.066	20ZU3Q	37HR	1	Replacement Heaters OFF				5,207,860:06:0	
24	99	284	03:21:12.066	20ZU3S	37HR	2	Replacement Heaters OFF				5,207,860:09:0	
25	99	284	03:21:38.066	20ZU3R	37A	1	NIMS Power ON	260	4	0	5,207,860:48:0	
26	99	284	03:21:40.066	20ZU3T	37A	2	NIMS Power ON	260	4	0	5,207,860:51:0	
27	99	284	03:23:39.400	20ZU4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,207,862:48:0	
28	99	284	03:24:03.400	20ZF5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,862:84:0	
29	99	284	03:24:10.066	20ZF5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,863:03:0	
30	99	284	03:24:16.733	20ZF6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,863:13:0	
31	99	284	03:24:26.733	20ZF6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,863:28:0	
32	99	284	03:24:36.733	20ZF5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,863:43:0	
33	99	284	03:24:38.066	20ZF5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,863:45:0	
34	99	284	03:24:49.400	20ZF4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R0	4	0	5,207,863:62:0	
35	99	284	03:27:00.066	41SX99A	POWER	PWR MODE change	Change to Data Taking Mode	4R0	4	0	5,207,865:76:0	
36	99	284	03:27:04.066	41SX3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	4R0	4	0	5,207,865:82:0	
37	99	284	03:27:14.066	41SX3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	4R0	4	0	5,207,866:06:0	
38	99	284	03:27:24.066	41SX3C	40T2R	1	PCT Heater 2 OFF	4R0	4	0	5,207,866:21:0	
39	99	284	03:27:34.066	41SX3D	40T2R	2	PCT Heater 2 OFF	4R0	4	0	5,207,866:36:0	
40	99	284	03:33:16.066	432OA431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	4R0	4	0	5,207,872:03:0	
41	99	284	03:33:16.733	432OA6A	6RTSL1		R/T Select of DDS and	4R0	4	0	5,207,872:04:0	
42	99	284	03:39:18.066	465KZ6A	6DMSC	RDY,3	DMS Control Tape stop	4R0	4	0	5,207,878:00:0	
43	99	284	03:39:18.066		DMS:	: READY	RDY, TRACK *3, FWD, TIC 233.00 +/-	4R0	4	0	5,207,878:00:0	
44	99	284	03:41:18.733	165GH4A	7SCAN	NORM,236.801998,	Check S/P Position	4R0	4	0	5,207,879:90:0	
45	99	284	03:42:09.400		DMS:	: *E4-DELAY	RDY, TRACK *1, FWD, TIC 233.00 +/-	4R0	4	0	5,207,880:75:0	
46	99	284	03:42:09.400	175TA422A6A	6DMSC	R7,3	DMS Control	4R0	4	0	5,207,880:75:0	
47	99	284	03:42:10.733	117GH	CSMOS	GS	***** GROUP START CSMOS	4R0	4	0	5,207,880:77:0	
48	99	284	03:42:16.066		DMS:	: *RUNUP	R7, TRACK *3, FWD, TIC 233.00 +/-	4R0	4	0	5,207,880:85:0	
49	99	284	03:42:17.400	175TA176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R0	4	0	5,207,880:87:0	
50	99	284	03:42:17.466		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 233.12 +/-	4R0	4	0	5,207,880:87:1	
51	99	284	03:42:17.466		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC * 233.12 +/-	4R0	4	0	5,207,880:87:1	
52	99	284	03:42:18.733	165GH4B	7VECT		Inert vect update UTC	4R0	4	0	5,207,880:89:0	
53	99	284	03:42:20.066	117GH105A106A4A	7STRP	-0.017402,0.0,0,	Slew =,0.14	4R0	4	0	5,207,881:00:0	

54	99	284	03:42:20.066	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	4R0	4	0	5,207,881:00:0
55	99	284	03:42:24.067	24NNDETECT02-		-----START------		4R0	4	0	: :
56	99	284	03:42:34.733	20FB5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,881:22:0
57	99	284	03:42:36.066	20FB5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,881:24:0
58	99	284	03:42:41.400	20FB6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,881:32:0
59	99	284	03:42:51.400	20FB6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,881:47:0
60	99	284	03:42:54.733	20FB5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,881:52:0
61	99	284	03:43:01.400	20FB5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,881:62:0
62	99	284	03:43:08.733	20FB4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,207,881:73:0
63	99	284	03:44:09.400	20FB4B	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	5,207,882:73:0
64	99	284	03:44:26.733	117GH105A106A4B	7STRP	0.017402,-0.0012	Slew =12.01	2R0	4	0	5,207,883:08:0
65	99	284	03:44:32.733	117GH105A106A4C	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R0	4	0	5,207,883:17:0
66	99	284	03:45:10.066	20FB4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	5,207,883:73:0
67	99	284	03:46:10.733	20FB4D	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,207,884:73:0
68	99	284	03:46:11.400	20FB4E	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,207,884:74:0
69	99	284	03:46:39.400	117GH105A106A4D	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,885:25:0
70	99	284	03:46:45.400	117GH105A106A4E	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,885:34:0
71	99	284	03:48:52.066	117GH105A106A4F	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,887:42:0
72	99	284	03:48:58.066	117GH105A106A4G	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,887:51:0
73	99	284	03:49:28.733	20FG6A	6MCOPY	B1A1A,5542,NIMS,	B1A1A,5542,NIMS,150F,1517	2R3	4	0	5,207,888:06:0
74	99	284	03:49:37.400	20FG6B	6MCOPY	B1A1A,554B,NIMS,	B1A1A,554B,NIMS,150F,1517	2R3	4	0	5,207,888:19:0
75	99	284	03:50:30.066	20FG6C	6MCOPY	B1A1A,5554,NIMS,	B1A1A,5554,NIMS,150F,1517	2R3	4	0	5,207,889:07:0
76	99	284	03:50:38.733	20FG6D	6MCOPY	B1A1A,555D,NIMS,	B1A1A,555D,NIMS,150F,1517	2R3	4	0	5,207,889:20:0
77	99	284	03:51:04.733	117GH105A106A4H	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,889:59:0
78	99	284	03:51:10.733	117GH105A106A4I	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,889:68:0
79	99	284	03:51:31.400	20FG6E	6MCOPY	B1A1A,5566,NIMS,	B1A1A,5566,NIMS,150F,1517	2R3	4	0	5,207,890:08:0
80	99	284	03:51:40.066	20FG6F	6MCOPY	B1A1A,556F,NIMS,	B1A1A,556F,NIMS,150F,1517	2R3	4	0	5,207,890:21:0
81	99	284	03:52:32.733	20FG6G	6MCOPY	B1A1A,5578,NIMS,	B1A1A,5578,NIMS,150F,1517	2R3	4	0	5,207,891:09:0
82	99	284	03:52:41.400	20FG6H	6MCOPY	B1A1A,5581,NIMS,	B1A1A,5581,NIMS,150F,1517	2R3	4	0	5,207,891:22:0
83	99	284	03:53:17.400	117GH105A106A4J	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,891:76:0
84	99	284	03:53:23.400	117GH105A106A4K	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,891:85:0
85	99	284	03:53:34.066	20FG6I	6MCOPY	B1A1A,558A,NIMS,	B1A1A,558A,NIMS,150F,1517	2R3	4	0	5,207,892:10:0
86	99	284	03:53:42.733	20FG6J	6MCOPY	B1A1A,5593,NIMS,	B1A1A,5593,NIMS,150F,1517	2R3	4	0	5,207,892:23:0
87	99	284	03:54:35.400	20FG6K	6MCOPY	B1A1A,559C,NIMS,	B1A1A,559C,NIMS,150F,1517	2R3	4	0	5,207,893:11:0
88	99	284	03:54:44.066	20FG6L	6MCOPY	B1A1A,55A5,NIMS,	B1A1A,55A5,NIMS,150F,1517	2R3	4	0	5,207,893:24:0
89	99	284	03:55:30.066	117GH105A106A4L	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,894:02:0
90	99	284	03:55:36.066	117GH105A106A4M	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,894:11:0
91	99	284	03:55:36.733	20FG6M	6MCOPY	B1A1A,55AE,NIMS,	B1A1A,55AE,NIMS,150F,1517	2R3	4	0	5,207,894:12:0
92	99	284	03:55:45.400	20FG6N	6MCOPY	B1A1A,55B7,NIMS,	B1A1A,55B7,NIMS,150F,1517	2R3	4	0	5,207,894:25:0
93	99	284	03:56:38.066	20FG6O	6MCOPY	B1A1A,55C0,NIMS,	B1A1A,55C0,NIMS,150F,1517	2R3	4	0	5,207,895:13:0
94	99	284	03:56:46.733	20FG6P	6MCOPY	B1A1A,55C9,NIMS,	B1A1A,55C9,NIMS,150F,1517	2R3	4	0	5,207,895:26:0
95	99	284	03:57:39.400	20FG6Q	6MCOPY	B1A1A,55D2,NIMS,	B1A1A,55D2,NIMS,150F,1517	2R3	4	0	5,207,896:14:0
96	99	284	03:57:42.733	117GH105A106A4N	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,896:19:0
97	99	284	03:57:48.066	20FG6R	6MCOPY	B1A1A,55DB,NIMS,	B1A1A,55DB,NIMS,150F,1517	2R3	4	0	5,207,896:27:0
98	99	284	03:57:48.733	117GH105A106A4O	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,896:28:0
99	99	284	03:58:40.733	20FG6S	6MCOPY	B1A1A,55E4,NIMS,	B1A1A,55E4,NIMS,150F,1517	2R3	4	0	5,207,897:15:0
100	99	284	03:58:49.400	20FG6T	6MCOPY	B1A1A,55ED,NIMS,	B1A1A,55ED,NIMS,150F,1517	2R3	4	0	5,207,897:28:0
101	99	284	03:59:42.066	20FG6U	6MCOPY	B1A1A,55F6,NIMS,	B1A1A,55F6,NIMS,150F,1517	2R3	4	0	5,207,898:16:0
102	99	284	03:59:50.733	20FG6V	6MCOPY	B1A1A,55FF,NIMS,	B1A1A,55FF,NIMS,150F,1517	2R3	4	0	5,207,898:29:0
103	99	284	03:59:55.400	117GH105A106A4P	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,898:36:0
104	99	284	04:00:01.400	117GH105A106A4Q	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,898:45:0
105	99	284	04:00:43.400	20FG6W	6MCOPY	B1A1A,5608,NIMS,	B1A1A,5608,NIMS,150F,1517	2R3	4	0	5,207,899:17:0
106	99	284	04:00:52.066	20FG6X	6MCOPY	B1A1A,5611,NIMS,	B1A1A,5611,NIMS,150F,1517	2R3	4	0	5,207,899:30:0
107	99	284	04:01:04.066	20RF6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,207,899:48:0
108	99	284	04:01:44.733	20FG6Y	6MCOPY	B1A1A,561A,NIMS,	B1A1A,561A,NIMS,150F,1517	2R3	4	0	5,207,900:18:0
109	99	284	04:01:53.400	20FG6Z	6MCOPY	B1A1A,5623,NIMS,	B1A1A,5623,NIMS,150F,151C	2R3	4	0	5,207,900:31:0

110	99	284	04:02:08.066	117GH105A106A4R	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,900:53:0
111	99	284	04:02:14.066	117GH105A106A4S	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,900:62:0
112	99	284	04:02:37.400	24NNDETECT02-		-----STOP-------		2R3	4	0	: :
113	99	284	04:04:20.733	117GH105A106A4T	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,902:70:0
114	99	284	04:04:26.733	117GH105A106A4U	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,902:79:0
115	99	284	04:06:33.400	117GH105A106A4V	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,904:87:0
116	99	284	04:06:39.400	117GH105A106A4W	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,905:05:0
117	99	284	04:08:46.066	117GH105A106A4X	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,907:13:0
118	99	284	04:08:52.066	117GH105A106A4Y	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,907:22:0
119	99	284	04:10:58.733	117GH105A106A4Z	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,909:30:0
120	99	284	04:11:04.733	117GH105A106A4AA	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,909:39:0
121	99	284	04:13:11.400	117GH105A106A4AB	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,911:47:0
122	99	284	04:13:17.400	117GH105A106A4AC	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,911:56:0
123	99	284	04:15:24.066	117GH105A106A4AD	7STRP	0.017402,-0.0012	Slew =12.01	2R3	4	0	5,207,913:64:0
124	99	284	04:15:30.066	117GH105A106A4AE	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R3	4	0	5,207,913:73:0
125	**99**	**284**	**04:15:56.733**	**20DA5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,207,914:22:0**
126	**99**	**284**	**04:15:58.066**	**20DA5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,207,914:24:0**
127	**99**	**284**	**04:16:00.066**	**20DA6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,207,914:27:0**
128	**99**	**284**	**04:16:10.066**	**20DA6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,207,914:42:0**
129	**99**	**284**	**04:16:23.400**	**20DA5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,207,914:62:0**
130	**99**	**284**	**04:16:26.733**	**20DA5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,207,914:67:0**
131	**99**	**284**	**04:16:46.734**	**24NNLOKIRA01-**		**-----START------**		**260**	**4**	**0**	**: :**
132	**99**	**284**	**04:16:58.066**	**20DA4A**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**2R0**	**4**	**0**	**5,207,915:23:0**
133	99	284	04:17:36.733	117GH105A106A4AF	7STRP	0.017402,-0.0012	Slew =12.01	2R0	4	0	5,207,915:81:0
134	99	284	04:17:42.733	117GH105A106A4AG	7STRP	-0.017402,0.0,0,	Slew =,0.14	2R0	4	0	5,207,915:90:0
135	**99**	**284**	**04:18:48.067**	**24NNLOKIRA01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
136	**99**	**284**	**04:19:40.066**	**125DA4A**	**37IST**	**0,2,0,OFF,0,1,1**	**Gain State 4**	**4R0**	**4**	**0**	**5,207,917:84:0**
137	99	284	04:19:40.066	125DA	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	5,207,917:84:0
138	99	284	04:19:49.400	117GH11A	**CSMOS**	GE	***** GROUP END CSMOS	4R0	4	0	5,207,918:07:0
139	99	284	04:20:00.066	481UA4A	7VECT		Inert vect update UTC	4R0	4	0	5,207,918:23:0
140	99	284	04:20:40.733	125DA11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,207,918:84:0
141	**99**	**284**	**04:20:40.733**	**125DA4B**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,207,918:84:0**
142	99	284	04:20:44.733	165DA4A	**7SCAN**	**NORM,265.399998,**	**Check S/P Position**	4R0	4	0	5,207,918:90:0
143	99	284	04:20:48.733	428JA6A	6RCCLR			4R0	4	0	5,207,919:05:0
144	99	284	04:20:49.400	428JA6B	6RCSET	12		4R0	4	0	5,207,919:06:0
145	**99**	**284**	**04:20:49.400**	**24INLOKIRA01-**		**-----START------**		**4R0**	**4**	**0**	**: :**
146	99	284	04:21:36.733	117DA	**CSMOS**	GS	***** GROUP START CSMOS	4R0	4	0	5,207,919:77:0
147	99	284	04:21:37.400	175DA422A6A	6DMSC	R28,3	DMS Control	4R0	4	0	5,207,919:78:0
148	99	284	04:21:37.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC * 786.23 +/-	4R0	4	0	5,207,919:78:0
149	99	284	04:21:38.600		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC * 786.29 +/-	4R0	4	0	5,207,919:79:8
150	99	284	04:21:41.400	127DA	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	5,207,919:84:0
151	**99**	**284**	**04:21:41.400**	**127DA4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,207,919:84:0**
152	**99**	**284**	**04:21:42.066**	**127DA4B**	**37ETB**	**04,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,207,919:85:0**
153	99	284	04:21:42.600		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 787.79 +/-	4R3	4	0	5,207,919:85:8
154	99	284	04:21:42.600		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC * 787.79 +/-	4R3	4	0	5,207,919:85:8
155	99	284	04:21:42.733	175DA176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	5,207,919:86:0
156	**99**	**284**	**04:21:43.400**	**24INLOKIRA01-**	**NIMPBK**	**301DA**	**IO LOKI OBSERVATION**	**4R3**	**4**	**0**	**: :**
157	99	284	04:21:44.733	165DA4B	7VECT		Inert vect update UTC	4R3	4	0	5,207,919:89:0
158	99	284	04:21:46.066	117DA105A106A4A	**7STRP**	**-0.0079,0.0,0,0,**	**Slew =,0.03**	4R3	4	0	5,207,920:00:0
159	99	284	04:21:50.066	127DA11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,207,920:06:0
160	**99**	**284**	**04:24:04.733**	**24INLOKIRA01-**	**NIMPBK**	**301EA**	**IO LOKI OBSERVATION**	**4R3**	**4**	**0**	**: :**
161	**99**	**284**	**04:24:13.400**	**24INLOKIRA01-**	**DESELC**	**300DA**	**IO LOKI OBSERVATION**	**4R3**	**4**	**0**	**: :**
162	99	284	04:26:15.400	117DA11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,207,924:40:0
163	99	284	04:26:16.733	165IA4A	**7SCAN**	**NORM,268.985996,**	**Check S/P Position**	4R3	4	0	5,207,924:42:0
164	99	284	04:26:38.733	428JB6A	6RCCLR			4R3	4	0	5,207,924:75:0
165	99	284	04:26:39.400	428JB6B	6RCSET	8		4R3	4	0	5,207,924:76:0

166	99	284	04:26:42.733	24INLOKIRA01-	DESELC	300EA	IO LOKI OBSERVATION	4R3	4	0	: :
167	99	284	04:26:43.400	175TB422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	5,207,924:82:0
168	99	284	04:26:43.400		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *1052.16 +/-	4R3	4	0	5,207,924:82:0
169	99	284	04:26:44.600		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1052.46 +/-	4R3	4	0	5,207,924:83:8
170	99	284	04:26:46.000		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *1052.58 +/-	4R3	4	0	5,207,924:85:9
171	99	284	04:26:46.000		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1052.58 +/-	4R3	4	0	5,207,924:85:9
172	99	284	04:26:46.066	175TB176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	5,207,924:86:0
173	99	284	04:27:54.067	24INHSPELE01-		-----START------		4R3	4	0	: :
174	99	284	04:27:54.067	24INLOKIRA01-		-----STOP-------		4R3	4	0	: :
175	99	284	04:28:05.400	428JC6A	6RCCLR			4R3	4	0	5,207,926:23:0
176	99	284	04:28:06.066	428JC6B	6RCSET	12		4R3	4	0	5,207,926:24:0
177	99	284	04:28:12.733	175DB422A6A	6DMSC	R28,3	DMS Control	4R3	4	0	5,207,926:34:0
178	99	284	04:28:12.733		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *1072.91 +/-	4R3	4	0	5,207,926:34:0
179	99	284	04:28:13.933		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *1072.97 +/-	4R3	4	0	5,207,926:35:8
180	99	284	04:28:17.400	165IA4B	7VECT		Inert vect update UTC	4R3	4	0	5,207,926:41:0
181	99	284	04:28:17.933		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 1074.47 +/-	4R3	4	0	5,207,926:41:8
182	99	284	04:28:17.933		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *1074.47 +/-	4R3	4	0	5,207,926:41:8
183	99	284	04:28:18.066	175DB176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	5,207,926:42:0
184	99	284	04:28:18.733	24INHSPELE01-	NIMPBK	301DB	IO PELE OBSERVATION	4R3	4	0	: :
185	99	284	04:28:48.733	24INHSPELE01-	NIMPBK	301DU	IO PELE OBSERVATION	4R3	4	0	: :
186	99	284	04:28:54.733	117IA	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	5,207,927:06:0
187	99	284	04:29:00.066	481UB4A	7VECT		Inert vect update UTC	4R3	4	0	5,207,927:14:0
188	99	284	04:29:00.066	24INHSPELE01-	DESELC	300DU	IO PELE OBSERVATION	4R3	4	0	: :
189	99	284	04:29:04.733	428JD6A	6RCCLR			4R3	4	0	5,207,927:21:0
190	99	284	04:29:05.400	428JD6B	6RCSET	14		4R3	4	0	5,207,927:22:0
191	99	284	04:29:10.066	24INHSPELE01-	DESELC	300DB	IO PELE OBSERVATION	4R3	4	0	: :
192	99	284	04:29:10.733	116IA4A	7STRP	0.017502,0.0,0,0	Slew =,8.76	4R3	4	0	5,207,927:30:0
193	99	284	04:29:10.733	175TC422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	5,207,927:30:0
194	99	284	04:29:10.733		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *1120.88 +/-	4R3	4	0	5,207,927:30:0
195	99	284	04:29:11.933		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *1121.18 +/-	4R3	4	0	5,207,927:31:8
196	99	284	04:29:13.333		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 1121.30 +/-	4R3	4	0	5,207,927:33:9
197	99	284	04:29:13.333		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *1121.30 +/-	4R3	4	0	5,207,927:33:9
198	99	284	04:29:13.400	175TC176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	5,207,927:34:0
199	99	284	04:29:14.734	24INHSPELE01-		-----STOP-------		4R3	4	0	: :
200	99	284	04:29:14.734	24NNPILLAN01-		-----START------		4R3	4	0	: :
201	99	284	04:29:17.400	175IA422A6A	6DMSC	R806,3	DMS Control	4R3	4	0	5,207,927:40:0
202	99	284	04:29:17.400		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *1122.25 +/-	4R3	4	0	5,207,927:40:0
203	99	284	04:29:18.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *1122.31 +/-	4R3	4	0	5,207,927:41:8
204	99	284	04:29:18.733	20DC5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,927:42:0
205	99	284	04:29:20.066	20DC5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,927:44:0
206	99	284	04:29:22.066	117IA105A106A4A	7STRP	-0.035014,0.0,0,	Slew =,1.16		4	0	5,207,927:47:0
207	99	284	04:29:23.400	175IA176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change		4	0	5,207,927:49:0
208	99	284	04:29:23.866		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *1188.31 +/-		4	0	5,207,927:49:7
209	99	284	04:29:23.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 1188.31 +/-		4	0	5,207,927:49:7
210	99	284	04:29:25.400	20DC6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,927:52:0
211	99	284	04:29:35.400	20DC6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,927:67:0
212	99	284	04:29:45.400	20DC5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,927:82:0
213	99	284	04:29:48.733	20DC5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,927:87:0
214	99	284	04:29:50.733	428JF6A	6RCCLR			260	4	0	5,207,927:90:0
215	99	284	04:29:51.400	176IA6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	260	4	0	5,207,928:00:0
216	99	284	04:29:51.400	428JF6B	6RCSET	11		260	4	0	5,207,928:00:0
217	99	284	04:29:52.066	20DC4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R0	4	0	5,207,928:01:0
218	99	284	04:29:56.733	175TD422A6A	6DMSC	R7,3	DMS Control	4R0	4	0	5,207,928:08:0
219	99	284	04:29:56.733	117IA11A	CSMOS	GE	***** GROUP END CSMOS	4R0	4	0	5,207,928:08:0
220	99	284	04:29:56.733		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *1997.14 +/-	4R0	4	0	5,207,928:08:0
221	99	284	04:29:59.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2008.64 +/-	4R0	4	0	5,207,928:12:1

222	99	284	04:30:00.733	175TD176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R0	4	0	5,207,928:14:0
223	99	284	04:30:00.866		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2008.76 +/-	4R0	4	0	5,207,928:14:2
224	99	284	04:30:00.866		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2008.76 +/-	4R0	4	0	5,207,928:14:2
225	99	284	04:30:05.400	165IB4A	**7SCAN**	**NORM,318.934998,**	**Check S/P Position**	4R0	4	0	5,207,928:21:0
226	**99**	**284**	**04:30:52.733**	**20DC4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,207,929:01:0**
227	99	284	04:30:56.066	117IB	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,207,929:06:0
228	**99**	**284**	**04:31:11.400**	**24NNPILLAN01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
229	**99**	**284**	**04:31:11.400**	**24INPILLAN01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
230	99	284	04:31:12.733	428JG6A	6RCCLR			4R3	4	0	5,207,929:31:0
231	99	284	04:31:13.400	428JG6B	6RCSET		14	4R3	4	0	5,207,929:32:0
232	99	284	04:31:18.733	175IB422A6A	6DMSC	R806,3	DMS Control	4R3	4	0	5,207,929:40:0
233	99	284	04:31:18.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2027.01 +/-	4R3	4	0	5,207,929:40:0
234	99	284	04:31:19.933		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2027.07 +/-	4R3	4	0	5,207,929:41:8
235	99	284	04:31:22.066	165IB4B	7VECT		Inert vect update UTC	4R3	4	0	5,207,929:45:0
236	99	284	04:31:23.400	117IB105A106A4A	**7STRP**	**0.078159,0.0,0,0**	**Slew =,2.74**	4R3	4	0	5,207,929:47:0
237	99	284	04:31:24.733	175IB176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	4R3	4	0	5,207,929:49:0
238	99	284	04:31:25.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 2093.07 +/-	4R3	4	0	5,207,929:49:7
239	99	284	04:31:25.200		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *2093.07 +/-	4R3	4	0	5,207,929:49:7
240	**99**	**284**	**04:31:25.400**	**24INPILLAN01+**	**NIMPBK**	**301EB**	**IO MONITORING WITH SSI**	**4R3**	**4**	**0**	**: :**
241	99	284	04:31:52.066	428JH6A	6RCCLR			4R3	4	0	5,207,929:90:0
242	99	284	04:31:52.733	176IB6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	5,207,930:00:0
243	99	284	04:31:52.733	428JH6B	6RCSET		11	4R3	4	0	5,207,930:00:0
244	**99**	**284**	**04:31:53.400**	**20DC4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,207,930:01:0**
245	**99**	**284**	**04:31:56.066**	**24INPILLAN01+**	**DESELC**	**300EB**	**IO MONITORING WITH SSI**	**4R3**	**4**	**0**	**: :**
246	99	284	04:31:56.733	175TE422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	5,207,930:06:0
247	99	284	04:31:56.733		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *2869.09 +/-	4R3	4	0	5,207,930:06:0
248	99	284	04:31:58.733	117IB11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,207,930:09:0
249	99	284	04:31:59.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2880.59 +/-	4R3	4	0	5,207,930:10:1
250	99	284	04:32:00.066	116DC4A	**7STRP**	**-0.035014,-0.004**	**Slew =17.01**	4R3	4	0	5,207,930:11:0
251	99	284	04:32:00.733	175TE176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	5,207,930:12:0
252	99	284	04:32:00.866		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2880.71 +/-	4R3	4	0	5,207,930:12:2
253	99	284	04:32:00.866		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2880.71 +/-	4R3	4	0	5,207,930:12:2
254	99	284	04:32:22.066	428JI6A	6RCCLR			4R3	4	0	5,207,930:44:0
255	99	284	04:32:22.733	428JI6B	6RCSET		12	4R3	4	0	5,207,930:45:0
256	99	284	04:32:30.733	175DC422A6A	6DMSC	R28,3	DMS Control	4R3	4	0	5,207,930:57:0
257	99	284	04:32:30.733		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *2887.71 +/-	4R3	4	0	5,207,930:57:0
258	99	284	04:32:31.933		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *2887.77 +/-	4R3	4	0	5,207,930:58:8
259	99	284	04:32:35.933		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 2889.27 +/- 1	4R3	4	0	5,207,930:64:8
260	99	284	04:32:35.933		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *2889.27 +/-	4R3	4	0	5,207,930:64:8
261	99	284	04:32:36.066	175DC176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	5,207,930:65:0
262	**99**	**284**	**04:32:36.733**	**24INPILLAN01-**	**NIMPBK**	**301DC**	**IO PILLAN OBSERVATION**	**4R3**	**4**	**0**	**: :**
263	99	284	04:33:12.066	165IC4A	**7SCAN**	**NORM,2.98,-3.428**	**Check S/P Position**	4R3	4	0	5,207,931:28:0
264	**99**	**284**	**04:33:16.066**	**24INPILLAN01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
265	99	284	04:33:19.400	428JJ6A	6RCCLR			4R3	4	0	5,207,931:39:0
266	99	284	04:33:20.066	428JJ6B	6RCSET		8	4R3	4	0	5,207,931:40:0
267	**99**	**284**	**04:33:28.066**	**24INPILLAN01-**	**DESELC**	**300DC**	**IO PILLAN OBSERVATION**	**4R3**	**4**	**0**	**: :**
268	99	284	04:33:28.733	175TF422A6A	6DMSC	R7,3	DMS Control	4R3	4	0	5,207,931:53:0
269	99	284	04:33:28.733		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *2935.67 +/- 1	4R3	4	0	5,207,931:53:0
270	99	284	04:33:29.933		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *2935.97 +/- 1	4R3	4	0	5,207,931:54:8
271	99	284	04:33:31.333		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *2936.09 +/- 1	4R3	4	0	5,207,931:56:9
272	99	284	04:33:31.333		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 2936.09 +/- 1	4R3	4	0	5,207,931:56:9
273	99	284	04:33:31.400	175TF176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	4R3	4	0	5,207,931:57:0
274	99	284	04:33:58.066	117IC	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,207,932:06:0
275	99	284	04:34:00.066	481UC4A	7VECT		Inert vect update UTC	4R3	4	0	5,207,932:09:0
276	99	284	04:34:16.733	428JK6A	6RCCLR			4R3	4	0	5,207,932:34:0
277	99	284	04:34:17.400	428JK6B	6RCSET		14	4R3	4	0	5,207,932:35:0

278	99	284	04:34:25.400	175IC422A6A	6DMSC	R806,3	DMS Control	4R3	4	0	5,207,932:47:0
279	99	284	04:34:25.400		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *2948.76 +/- 1	4R3	4	0	5,207,932:47:0
280	99	284	04:34:26.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *2948.82 +/- 1	4R3	4	0	5,207,932:48:8
281	99	284	04:34:28.733	165IC4B	7VECT		Inert vect update UTC	4R3	4	0	5,207,932:52:0
282	99	284	04:34:30.066	117IC105A106A4A	7STRP	-0.064088,0.0,0,	Slew =,2.68	4R3	4	0	5,207,932:54:0
283	99	284	04:34:31.400	175IC176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R3	4	0	5,207,932:56:0
284	99	284	04:34:31.866		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *3014.82 +/- 1	4R3	4	0	5,207,932:56:7
285	99	284	04:34:31.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3014.82 +/- 1	4R3	4	0	5,207,932:56:7
286	99	284	04:34:50.066	125DD4A	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R3	4	0	5,207,932:84:0
287	99	284	04:34:50.066	125DD11A	NIMSINIT	GE	##### GROUP END INIT	2R3	4	0	5,207,932:84:0
288	99	284	04:34:50.066	125DD	NIMSINIT	GS	##### GROUP START INIT	2R3	4	0	5,207,932:84:0
289	99	284	04:34:54.066	428JL6A	6RCCLR			2R3	4	0	5,207,932:90:0
290	99	284	04:34:54.733	428JL6B	6RCSET		11	2R3	4	0	5,207,933:00:0
291	99	284	04:34:54.733	176IC6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,207,933:00:0
292	99	284	04:34:58.733		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *3676.00 +/- 1	2R3	4	0	5,207,933:06:0
293	99	284	04:34:58.733	175TG422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,207,933:06:0
294	99	284	04:35:01.400	117IC11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,207,933:10:0
295	99	284	04:35:01.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3687.50 +/- 1	2R3	4	0	5,207,933:10:1
296	99	284	04:35:02.733	116DD4A	7STRP	0.018002,-0.0290	Slew =,14.3	2R3	4	0	5,207,933:12:0
297	99	284	04:35:02.733	175TG176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,207,933:12:0
298	99	284	04:35:02.866		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3687.62 +/- 1	2R3	4	0	5,207,933:12:2
299	99	284	04:35:02.866		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3687.62 +/- 1	2R3	4	0	5,207,933:12:2
300	99	284	04:35:05.400	24INCOLCHS01-		-----START------		2R3	4	0	: :
301	99	284	04:35:29.400	428JM6A	6RCCLR			2R3	4	0	5,207,933:52:0
302	99	284	04:35:30.066	428JM6B	6RCSET		12	2R3	4	0	5,207,933:53:0
303	99	284	04:35:32.733		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3694.62 +/- 1	2R3	4	0	5,207,933:57:0
304	99	284	04:35:32.733	175DD422A6A	6DMSC	R28,3	DMS Control	2R3	4	0	5,207,933:57:0
305	99	284	04:35:33.933		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *3694.68 +/- 1	2R3	4	0	5,207,933:58:8
306	99	284	04:35:37.933		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *3696.18 +/- 1	2R3	4	0	5,207,933:64:8
307	99	284	04:35:37.933		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 3696.18 +/- 1	2R3	4	0	5,207,933:64:8
308	99	284	04:35:38.066	175DD176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,933:65:0
309	99	284	04:35:38.733	24INCOLCHS01-	NIMPBK	301DD	IO COLCHS OBSERVATION	2R3	4	0	: :
310	99	284	04:36:12.733	165ID4A	7SCAN	NORM,4.315,15.72	Check S/P Position	2R3	4	0	5,207,934:26:0
311	99	284	04:36:16.733	24NNZAMAMA01-		-----START------		2R3	4	0	: :
312	99	284	04:36:16.733	24INCOLCHS01-		-----STOP-------		2R3	4	0	: :
313	99	284	04:36:18.066	428JO6A	6RCCLR			2R3	4	0	5,207,934:34:0
314	99	284	04:36:18.733	428JO6B	6RCSET		8	2R3	4	0	5,207,934:35:0
315	99	284	04:36:30.066	24INCOLCHS01-	DESELC	300DD	IO COLCHS OBSERVATION	2R3	4	0	: :
316	99	284	04:36:30.733	175TH422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,207,934:53:0
317	99	284	04:36:30.733		DMS:	: *RUNDOWN	R28, TRACK 3, FWD, TIC *3742.58 +/- 1	2R3	4	0	5,207,934:53:0
318	99	284	04:36:31.933		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *3742.88 +/- 1	2R3	4	0	5,207,934:54:8
319	99	284	04:36:33.333		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *3743.00 +/- 1	2R3	4	0	5,207,934:56:9
320	99	284	04:36:33.333		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 3743.00 +/- 1	2R3	4	0	5,207,934:56:9
321	99	284	04:36:33.400	175TH176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,207,934:57:0
322	99	284	04:37:16.733	20DE5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,935:31:0
323	99	284	04:37:20.066	20DE5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,935:36:0
324	99	284	04:37:23.400	20DE6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,935:41:0
325	99	284	04:37:33.400	20DE6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,935:56:0
326	99	284	04:37:43.400	20DE5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,935:71:0
327	99	284	04:37:46.733	20DE5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,935:76:0
328	99	284	04:37:50.066	20DE4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,207,935:81:0
329	99	284	04:38:00.733	117ID	CSMOS	GS	***** GROUP START CSMOS	2R0	4	0	5,207,936:06:0
330	99	284	04:38:16.066	428JN6A	6RCCLR			2R0	4	0	5,207,936:29:0
331	99	284	04:38:16.733	428JN6B	6RCSET		14	2R0	4	0	5,207,936:30:0
332	99	284	04:38:23.400		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *3768.80 +/- 1	2R0	4	0	5,207,936:40:0
333	99	284	04:38:23.400	175ID422A6A	6DMSC	R806,3	DMS Control	2R0	4	0	5,207,936:40:0

334	99	284	04:38:24.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *3768.86 +/- 1	2R0	4	0	5,207,936:41:8
335	99	284	04:38:26.733	165ID4B	7VECT		Inert vect update UTC	2R0	4	0	5,207,936:45:0
336	99	284	04:38:28.066	117ID105A106A4A	**7STRP**	**-0.061076,-0.075**	**Slew =,5.58**	2R0	4	0	5,207,936:47:0
337	99	284	04:38:29.400	175ID176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	2R0	4	0	5,207,936:49:0
338	99	284	04:38:29.866		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *3834.86 +/- 1	2R0	4	0	5,207,936:49:7
339	99	284	04:38:29.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 3834.86 +/- 1	2R0	4	0	5,207,936:49:7
340	**99**	**284**	**04:38:50.733**	**20DE4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,207,936:81:0**
341	**99**	**284**	**04:38:51.400**	**20DE4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,207,936:82:0**
342	99	284	04:38:57.400	176ID6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,207,937:00:0
343	99	284	04:38:58.066	428JP6A	6RCCLR			2R3	4	0	5,207,937:01:0
344	99	284	04:38:58.733	428JP6B	6RCSET		11	2R3	4	0	5,207,937:02:0
345	99	284	04:39:01.400	175TI422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,207,937:06:0
346	**99**	**284**	**04:39:01.400**	**24NNZAMAMA01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
347	99	284	04:39:01.400		DMS:	**: *RUNDOWN**	R806, TRACK 3, FWD, TIC *4610.87 +/- 1	2R3	4	0	5,207,937:06:0
348	99	284	04:39:04.066	117ID11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,207,937:10:0
349	99	284	04:39:04.133		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4622.37 +/- 1	2R3	4	0	5,207,937:10:1
350	99	284	04:39:05.400	175TI176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,207,937:12:0
351	99	284	04:39:05.400	116DE4A	**7STRP**	**0.037017,0.00750**	**Slew =,15.0**	2R3	4	0	5,207,937:12:0
352	99	284	04:39:05.533		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4622.49 +/- 1	2R3	4	0	5,207,937:12:2
353	99	284	04:39:05.533		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4622.49 +/- 1	2R3	4	0	5,207,937:12:2
354	**99**	**284**	**04:39:08.066**	**24INZAMAMA01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
355	99	284	04:39:32.066	428JQ6A	6RCCLR			2R3	4	0	5,207,937:52:0
356	99	284	04:39:32.733	428JQ6B	6RCSET		12	2R3	4	0	5,207,937:53:0
357	99	284	04:39:35.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4629.49 +/- 1	2R3	4	0	5,207,937:57:0
358	99	284	04:39:35.400	175DE422A6A	6DMSC	R28,3	DMS Control	2R3	4	0	5,207,937:57:0
359	99	284	04:39:36.600		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *4629.55 +/- 1	2R3	4	0	5,207,937:58:8
360	99	284	04:39:40.600		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 4631.05 +/- 2	2R3	4	0	5,207,937:64:8
361	99	284	04:39:40.600		DMS:	**: *RECORD**	R28, TRACK 3, FWD, TIC *4631.05 +/- 1	2R3	4	0	5,207,937:64:8
362	99	284	04:39:40.733	175DE176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,937:65:0
363	**99**	**284**	**04:39:41.400**	**24INZAMAMA01-**	**NIMPBK**	**301DE**	**IO ZAMAMA OBSERVATION**	**2R3**	**4**	**0**	**: :**
364	99	284	04:40:24.066	428JR6A	6RCCLR			2R3	4	0	5,207,938:39:0
365	99	284	04:40:24.733	428JR6B	6RCSET		8	2R3	4	0	5,207,938:40:0
366	**99**	**284**	**04:40:32.733**	**24INZAMAMA01-**	**DESELC**	**300DE**	**IO ZAMAMA OBSERVATION**	**2R3**	**4**	**0**	**: :**
367	99	284	04:40:33.400	175TJ422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,207,938:53:0
368	99	284	04:40:33.400		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *4677.46 +/- 2	2R3	4	0	5,207,938:53:0
369	99	284	04:40:34.600		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *4677.76 +/- 2	2R3	4	0	5,207,938:54:8
370	99	284	04:40:36.000		DMS:	**: *RECORD**	R7, TRACK 3, FWD, TIC *4677.88 +/- 2	2R3	4	0	5,207,938:56:9
371	99	284	04:40:36.000		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 4677.88 +/- 2	2R3	4	0	5,207,938:56:9
372	99	284	04:40:36.066	175TJ176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,207,938:57:0
373	99	284	04:41:02.066	165IE4A	**7SCAN**	**NORM,24.663,7.31**	**Check S/P Position**	2R3	4	0	5,207,939:05:0
374	**99**	**284**	**04:41:06.066**	**24INZAMAMA01-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
375	99	284	04:42:03.400	117IE	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,207,940:06:0
376	99	284	04:42:32.066	428JS6A	6RCCLR			2R3	4	0	5,207,940:49:0
377	99	284	04:42:32.733	428JS6B	6RCSET		14	2R3	4	0	5,207,940:50:0
378	99	284	04:42:35.400	175IE422A6A	6DMSC	R806,3	DMS Control	2R3	4	0	5,207,940:54:0
379	99	284	04:42:35.400		DMS:	**: *RUNDOWN**	R7, TRACK 3, FWD, TIC *4705.86 +/- 2	2R3	4	0	5,207,940:54:0
380	99	284	04:42:36.600		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *4705.92 +/- 2	2R3	4	0	5,207,940:55:8
381	99	284	04:42:38.733	165IE4B	7VECT		Inert vect update UTC	2R3	4	0	5,207,940:59:0
382	99	284	04:42:40.066	117IE105A106A4A	**7STRP**	**-0.058567,-0.001**	**Slew =,3.07**	2R3	4	0	5,207,940:61:0
383	99	284	04:42:41.400	175IE176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,940:63:0
384	99	284	04:42:41.866		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 4771.92 +/- 2	2R3	4	0	5,207,940:63:7
385	99	284	04:42:41.866		DMS:	**: *RECORD**	R806, TRACK 3, FWD, TIC *4771.92 +/- 2	2R3	4	0	5,207,940:63:7
386	**99**	**284**	**04:42:42.066**	**24INPROMTH01+**	**NIMPBK**	**301EC**	**IO MONITORING WITH SSI**	**2R3**	**4**	**0**	**: :**
387	99	284	04:43:00.066	176IE6A	6TMREC	**IM8**	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,207,941:00:0
388	99	284	04:43:00.733	428JT6A	6RCCLR			2R3	4	0	5,207,941:01:0
389	99	284	04:43:01.400	428JT6B	6RCSET		11	2R3	4	0	5,207,941:02:0

390	99	284	04:43:03.400	24INPROMTH01+	DESELC	300EC	IO MONITORING WITH SSI	2R3	4	0	: :
391	99	284	04:43:04.066	175TK422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,207,941:06:0
392	99	284	04:43:04.066		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *5318.25 +/- 2	2R3	4	0	5,207,941:06:0
393	99	284	04:43:06.800		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5329.75 +/- 2	2R3	4	0	5,207,941:10:1
394	99	284	04:43:08.066	175TK176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,207,941:12:0
395	99	284	04:43:08.200		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5329.87 +/- 2	2R3	4	0	5,207,941:12:2
396	99	284	04:43:08.200		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5329.87 +/- 2	2R3	4	0	5,207,941:12:2
397	99	284	04:43:13.400	117IE11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,207,941:20:0
398	99	284	04:43:19.400	165IF4A	7SCAN	NORM,34.956,12.8	Check S/P Position	2R3	4	0	5,207,941:29:0
399	99	284	04:45:05.400	24NNPROMTH01-		-----START------		2R3	4	0	: :
400	99	284	04:45:22.066	20DF5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,943:31:0
401	99	284	04:45:25.400	20DF5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,943:36:0
402	99	284	04:45:28.733	20DF6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,943:41:0
403	99	284	04:45:38.733	20DF6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,943:56:0
404	99	284	04:45:48.733	20DF5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,943:71:0
405	99	284	04:45:52.066	20DF5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,943:76:0
406	99	284	04:45:55.400	20DF4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,207,943:81:0
407	99	284	04:46:04.066	20RX6B	6RTSL1		R/T Select of DDS and	2R0	4	0	5,207,944:03:0
408	99	284	04:46:06.066	117IF	CSMOS	GS	***** GROUP START CSMOS	2R0	4	0	5,207,944:06:0
409	99	284	04:46:38.733	428JU6A	6RCCLR			2R0	4	0	5,207,944:55:0
410	99	284	04:46:39.400	428JU6B	6RCSET	14		2R0	4	0	5,207,944:56:0
411	99	284	04:46:42.733		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5380.15 +/- 2	2R0	4	0	5,207,944:61:0
412	99	284	04:46:42.733	175IF422A6A	6DMSC	R806,3	DMS Control	2R0	4	0	5,207,944:61:0
413	99	284	04:46:43.933		DMS:	: *RUNUP	R806, TRACK 3, FWD, TIC *5380.21 +/- 2	2R0	4	0	5,207,944:62:8
414	99	284	04:46:44.066	165IF4B	7VECT		Inert vect update UTC	2R0	4	0	5,207,944:63:0
415	99	284	04:46:45.400	117IF105A106A4A	7STRP	0.047035,-0.0140	Slew =,11.0	2R0	4	0	5,207,944:65:0
416	99	284	04:46:48.733	175IF176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R0	4	0	5,207,944:70:0
417	99	284	04:46:49.200		DMS:	: *AT_SPD	R806, TRACK 3, FWD, TIC 5446.21 +/- 2	2R0	4	0	5,207,944:70:7
418	99	284	04:46:49.200		DMS:	: *RECORD	R806, TRACK 3, FWD, TIC *5446.21 +/- 2	2R0	4	0	5,207,944:70:7
419	99	284	04:46:56.066	20DF4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,207,944:81:0
420	99	284	04:46:56.733	20DF4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,207,944:82:0
421	99	284	04:47:02.733	176IF6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,207,945:00:0
422	99	284	04:47:03.400	428JV6A	6RCCLR			2R3	4	0	5,207,945:01:0
423	99	284	04:47:04.066	428JV6B	6RCSET	11		2R3	4	0	5,207,945:02:0
424	99	284	04:47:06.733		DMS:	: *RUNDOWN	R806, TRACK 3, FWD, TIC *5877.70 +/- 2	2R3	4	0	5,207,945:06:0
425	99	284	04:47:06.733	175TL422A6A	6DMSC	R7,3	DMS Control	2R3	4	0	5,207,945:06:0
426	99	284	04:47:06.733	24NNPROMTH01-		-----STOP-------		2R3	4	0	: :
427	99	284	04:47:09.466		DMS:	: *RUNUP	R7, TRACK 3, FWD, TIC *5889.20 +/- 2	2R3	4	0	5,207,945:10:1
428	99	284	04:47:10.733	175TL176A6A	6TMREC	LPW	7.68 KBPS LOW RATE SCI PWS RECORD Record	2R3	4	0	5,207,945:12:0
429	99	284	04:47:10.866		DMS:	: *AT_SPD	R7, TRACK 3, FWD, TIC 5889.32 +/- 2	2R3	4	0	5,207,945:12:2
430	99	284	04:47:10.866		DMS:	: *RECORD	R7, TRACK 3, FWD, TIC *5889.32 +/- 2	2R3	4	0	5,207,945:12:2
431	99	284	04:47:18.733	117IF11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,207,945:24:0
432	99	284	04:47:21.400	116DF4A	7STRP	-0.027507,0.0115	Slew =17.01	2R3	4	0	5,207,945:28:0
433	99	284	04:47:24.733	24INPROMTH01-		-----START------		2R3	4	0	: :
434	99	284	04:47:28.733	428JW6A	6RCCLR			2R3	4	0	5,207,945:39:0
435	99	284	04:47:29.400	428JW6B	6RCSET	12		2R3	4	0	5,207,945:40:0
436	99	284	04:47:32.066	175DF422A6A	6DMSC	R28,3	DMS Control	2R3	4	0	5,207,945:44:0
437	99	284	04:47:32.066		DMS:	: *RUNDOWN	R7, TRACK 3, FWD, TIC *5894.29 +/- 2	2R3	4	0	5,207,945:44:0
438	99	284	04:47:33.266		DMS:	: *RUNUP	R28, TRACK 3, FWD, TIC *5894.35 +/- 2	2R3	4	0	5,207,945:45:8
439	99	284	04:47:37.266		DMS:	: *RECORD	R28, TRACK 3, FWD, TIC *5895.85 +/- 2	2R3	4	0	5,207,945:51:8
440	99	284	04:47:37.266		DMS:	: *AT_SPD	R28, TRACK 3, FWD, TIC 5895.85 +/- 2	2R3	4	0	5,207,945:51:8
441	99	284	04:47:37.400	175DF176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,945:52:0
442	99	284	04:47:38.066	24INPROMTH01-	NIMPBK	301DF	IO PROMTH OBSERVATION	2R3	4	0	: :
443	99	284	04:48:01.400	432MB431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,207,945:88:0
444	99	284	04:48:02.066	432MB6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,207,945:89:0
445	99	284	04:48:05.400	432OB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,207,946:03:0

446	99	284	04:48:06.066	432OB6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,207,946:04:0
447	99	284	04:48:07.400	428JX6A	6RCCLR			2R3	4	0	5,207,946:06:0
448	99	284	04:48:09.400	282NB431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	5,207,946:09:0
449	**99**	**284**	**04:48:29.400**	**24INPROMTH01-**	**DESELC**	**300DF**	**IO PROMTH OBSERVATION**	**2R3**	**4**	**0**	**: :**
450	99	284	04:48:30.066		DMS:	**: *RUNDOWN**	R28, TRACK 3, FWD, TIC *5942.25 +/- 2	2R3	4	0	5,207,946:40:0
451	99	284	04:48:30.066	175DF422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,946:40:0
452	99	284	04:48:31.266		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *5942.55 +/- 2	2R3	4	0	5,207,946:41:8
453	99	284	04:48:58.066	282NB432A431A6A	6RCDSL	DDSNCG,PLSDSL,EP	Record Deselect (DDS o	2R3	4	0	5,207,946:82:0
454	99	284	04:48:58.733	282NB432A6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,207,946:83:0
455	99	284	04:49:04.066	465KE6A	6DMSC	RDY,4	DMS Control Tape stop	2R3	4	0	5,207,947:00:0
456	99	284	04:49:04.066		DMS:	: READY	RDY, TRACK *4, *REV, TIC 5942.55 +/- 2	2R3	4	0	5,207,947:00:0
457	**99**	**284**	**04:49:24.733**	**20DG5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,207,947:31:0**
458	**99**	**284**	**04:49:28.066**	**20DG5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,207,947:36:0**
459	**99**	**284**	**04:49:31.400**	**20DG6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,207,947:41:0**
460	**99**	**284**	**04:49:41.400**	**20DG6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,207,947:56:0**
461	**99**	**284**	**04:49:51.400**	**20DG5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,207,947:71:0**
462	**99**	**284**	**04:49:54.733**	**20DG5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,207,947:76:0**
463	**99**	**284**	**04:49:58.066**	**20DG4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**5,207,947:81:0**
464	99	284	04:50:05.400	165IG4A	**7SCAN**	**NORM,48.768,20.3**	**Check S/P Position**	2R0	4	0	5,207,948:01:0
465	**99**	**284**	**04:50:08.733**	**24NNCOLCHS02-**		**-----START------**		**2R0**	**4**	**0**	**: :**
466	**99**	**284**	**04:50:08.733**	**24INPROMTH01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
467	99	284	04:50:57.400	175IG422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	5,207,948:79:0
468	99	284	04:50:57.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5942.55 +/- 2	2R0	4	0	5,207,948:79:0
469	99	284	04:50:57.400	117IG	**CSMOS**	GS	***** GROUP START CSMOS	2R0	4	0	5,207,948:79:0
470	**99**	**284**	**04:50:58.733**	**20DG4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,207,948:81:0**
471	99	284	04:50:58.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5942.67 +/- 2	2R3	4	0	5,207,948:81:1
472	**99**	**284**	**04:50:59.400**	**20DG4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,207,948:82:0**
473	99	284	04:51:04.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5943.91 +/- 2	2R3	4	0	5,207,948:89:0
474	99	284	04:51:05.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5943.97 +/- 2	2R3	4	0	5,207,948:90:8
475	99	284	04:51:05.400	165IG4B	7VECT		Inert vect update UTC	2R3	4	0	5,207,949:00:0
476	99	284	04:51:06.733	117IG105A106A4A	**7STRP**	**0.0006,0.018013,**	**Slew =0,8.4**	2R3	4	0	5,207,949:02:0
477	99	284	04:51:10.066	175IG176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,949:07:0
478	99	284	04:51:10.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5877.97 +/- 3	2R3	4	0	5,207,949:07:7
479	99	284	04:51:10.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *5877.97 +/- 2	2R3	4	0	5,207,949:07:7
480	99	284	04:51:14.733	175IG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,949:14:0
481	99	284	04:51:14.733		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *5774.61 +/- 3	2R3	4	0	5,207,949:14:0
482	99	284	04:51:17.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5763.11 +/- 3	2R3	4	0	5,207,949:18:1
483	99	284	04:51:22.733	117IG11A	**CSMOS**	GE	***** GROUP END CSMOS	2R3	4	0	5,207,949:26:0
484	**99**	**284**	**04:51:27.400**	**24INCOLCHS02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
485	**99**	**284**	**04:51:27.400**	**24NNCOLCHS02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
486	99	284	04:51:29.400	116DG4A	**7STRP**	**-0.0005,-0.00475**	**Slew =,2.31**	2R3	4	0	5,207,949:36:0
487	99	284	04:52:19.400	175DG422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	5,207,950:20:0
488	99	284	04:52:19.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5763.11 +/- 3	2R3	4	0	5,207,950:20:0
489	99	284	04:52:20.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5763.23 +/- 3	2R3	4	0	5,207,950:22:1
490	99	284	04:52:26.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5764.46 +/- 3	2R3	4	0	5,207,950:30:0
491	99	284	04:52:27.266		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5764.52 +/- 3	2R3	4	0	5,207,950:31:8
492	99	284	04:52:30.733	175DG176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,950:37:0
493	99	284	04:52:31.266		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *5763.02 +/- 3	2R3	4	0	5,207,950:37:8
494	99	284	04:52:31.266		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 5763.02 +/- 3	2R3	4	0	5,207,950:37:8
495	**99**	**284**	**04:52:31.400**	**24INCOLCHS02-**	**NIMPBK**	**301DG**	**IO COLCHIS OBSERVATION**	**2R3**	**4**	**0**	**: :**
496	**99**	**284**	**04:52:47.400**	**24INCOLCHS02-**	**NIMPBK**	**301DV**	**IO COLCHIS OBSERVATION**	**2R3**	**4**	**0**	**: :**
497	**99**	**284**	**04:53:22.733**	**24INCOLCHS02-**	**DESELC**	**300DG**	**IO COLCHIS OBSERVATION**	**2R3**	**4**	**0**	**: :**
498	**99**	**284**	**04:53:22.733**	**24INCOLCHS02-**	**DESELC**	**300DV**	**IO COLCHIS OBSERVATION**	**2R3**	**4**	**0**	**: :**
499	99	284	04:53:23.400		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *5717.20 +/- 3	2R3	4	0	5,207,951:25:0
500	99	284	04:53:23.400	175DG422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,951:25:0
501	99	284	04:53:24.600		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5716.90 +/- 3	2R3	4	0	5,207,951:26:8

502	99	284	04:53:30.733	20DH5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,951:36:0
503	99	284	04:53:30.733	165IH4A	7SCAN	NORM,44.754,12.2	Check S/P Position		4	0	5,207,951:36:0
504	99	284	04:53:34.066	20DH5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,951:41:0
505	99	284	04:53:34.733	24NNNTOHIL01-		-----START------			4	0	: :
506	99	284	04:53:34.733	24INCOLCHS02-		-----STOP-------			4	0	: :
507	99	284	04:53:37.400	20DH6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,951:46:0
508	99	284	04:53:47.400	20DH6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,951:61:0
509	99	284	04:53:57.400	20DH5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,951:76:0
510	99	284	04:54:00.733	20DH5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,951:81:0
511	99	284	04:54:11.400	117IH	CSMOS	GS	***** GROUP START CSMOS	260	4	0	5,207,952:06:0
512	99	284	04:54:27.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5716.90 +/- 3	260	4	0	5,207,952:30:0
513	99	284	04:54:27.400	175IH422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	260	4	0	5,207,952:30:0
514	99	284	04:54:28.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5717.02 +/- 3	260	4	0	5,207,952:32:1
515	99	284	04:54:34.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5718.26 +/- 3	260	4	0	5,207,952:40:0
516	99	284	04:54:35.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5718.32 +/- 3	260	4	0	5,207,952:41:8
517	99	284	04:54:37.400	165IH4B	7VECT		Inert vect update UTC	260	4	0	5,207,952:45:0
518	99	284	04:54:38.733	117IH105A106A4A	7STRP	0.018202,0.0,0,0	Slew =,3.16	260	4	0	5,207,952:47:0
519	99	284	04:54:40.066	175IH176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	260	4	0	5,207,952:49:0
520	99	284	04:54:40.533		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *5652.32 +/- 3	260	4	0	5,207,952:49:7
521	99	284	04:54:40.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5652.32 +/- 3	260	4	0	5,207,952:49:7
522	99	284	04:54:47.400		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *5483.33 +/- 3	260	4	0	5,207,952:60:0
523	99	284	04:54:47.400	175IH422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	5,207,952:60:0
524	99	284	04:54:50.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5471.83 +/- 3	260	4	0	5,207,952:64:1
525	99	284	04:54:52.066	117IH105A106A4B	7STRP	-0.017902,0.0067	Slew =,6.01	260	4	0	5,207,952:67:0
526	99	284	04:55:01.400	20DH4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,207,952:81:0
527	99	284	04:55:17.400	24INNTOHIL01-		-----START------		2R0	4	0	: :
528	99	284	04:55:17.400	24NNNTOHIL01-		-----STOP-------		2R0	4	0	: :
529	99	284	04:55:51.400	175II422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	5,207,953:65:0
530	99	284	04:55:51.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5471.83 +/- 3	2R0	4	0	5,207,953:65:0
531	99	284	04:55:52.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5471.95 +/- 3	2R0	4	0	5,207,953:67:1
532	99	284	04:55:58.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5473.19 +/- 3	2R0	4	0	5,207,953:75:0
533	99	284	04:55:59.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5473.25 +/- 3	2R0	4	0	5,207,953:76:8
534	99	284	04:56:02.066	20DH4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,207,953:81:0
535	99	284	04:56:02.733	117IH105A106A4C	7STRP	0.018202,0.0,0,0	Slew =,3.16	2R3	4	0	5,207,953:82:0
536	99	284	04:56:02.733	20DH4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,207,953:82:0
537	99	284	04:56:04.066	175II176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,953:84:0
538	99	284	04:56:04.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5407.25 +/- 4	2R3	4	0	5,207,953:84:7
539	99	284	04:56:04.533		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *5407.25 +/- 3	2R3	4	0	5,207,953:84:7
540	99	284	04:56:11.400	175II422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,954:04:0
541	99	284	04:56:11.400		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *5238.26 +/- 4	2R3	4	0	5,207,954:04:0
542	99	284	04:56:14.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5226.76 +/- 4	2R3	4	0	5,207,954:08:1
543	99	284	04:56:16.066	117IH11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,207,954:11:0
544	99	284	04:56:20.066	116DH4A	7STRP	-0.0025,-0.00750	Slew =,4.01	2R3	4	0	5,207,954:17:0
545	99	284	04:57:16.066	175DH422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	5,207,955:10:0
546	99	284	04:57:16.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5226.76 +/- 4	2R3	4	0	5,207,955:10:0
547	99	284	04:57:17.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5226.88 +/- 4	2R3	4	0	5,207,955:12:1
548	99	284	04:57:22.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5228.12 +/- 4	2R3	4	0	5,207,955:20:0
549	99	284	04:57:23.933		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *5228.18 +/- 4	2R3	4	0	5,207,955:21:8
550	99	284	04:57:27.400	175DH176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,955:27:0
551	99	284	04:57:27.933		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 5226.68 +/- 4	2R3	4	0	5,207,955:27:8
552	99	284	04:57:27.933		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *5226.68 +/- 4	2R3	4	0	5,207,955:27:8
553	99	284	04:57:28.066	24INNTOHIL01-	NIMPBK	301DH	IO TOHIL OBSERVATION	2R3	4	0	: :
554	99	284	04:57:30.066	24INNTOHIL01-	NIMPBK	301DW	IO TOHIL OBSERVATION	2R3	4	0	: :
555	99	284	04:57:50.733	24INNTOHIL01-	DESELC	300DW	IO TOHIL OBSERVATION	2R3	4	0	: :
556	99	284	04:58:19.400	24INNTOHIL01-	DESELC	300DH	IO TOHIL OBSERVATION	2R3	4	0	: :
557	99	284	04:58:20.066	175DH422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,956:15:0

558	99	284	04:58:20.066		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *5180.86 +/- 4	2R3	4	0	5,207,956:15:0
559	99	284	04:58:21.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *5180.56 +/- 4	2R3	4	0	5,207,956:16:8
560	99	284	04:58:24.066	165II4A	7SCAN	NORM,44.166,17.7	Check S/P Position	2R3	4	0	5,207,956:21:0
561	99	284	04:58:27.400	24INNTOHIL01-		-----STOP-------		2R3	4	0	: :
562	99	284	04:59:14.733	24NNPROMTH02-		-----START------		2R3	4	0	: :
563	99	284	04:59:14.733	118II	SMOS	GS		2R3	4	0	5,207,957:06:0
564	99	284	04:59:26.066	175IJ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,207,957:23:0
565	99	284	04:59:26.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5180.56 +/- 4	2R3	4	0	5,207,957:23:0
566	99	284	04:59:27.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5180.68 +/- 4	2R3	4	0	5,207,957:25:1
567	99	284	04:59:32.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5181.91 +/- 4	2R3	4	0	5,207,957:33:0
568	99	284	04:59:33.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *5181.97 +/- 4	2R3	4	0	5,207,957:34:8
569	99	284	04:59:37.400	165II4B	7VECT		Inert vect update UTC	2R3	4	0	5,207,957:40:0
570	99	284	04:59:38.733	175IJ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,957:42:0
571	99	284	04:59:39.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 5115.97 +/- 4	2R3	4	0	5,207,957:42:7
572	99	284	04:59:39.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *5115.97 +/- 4	2R3	4	0	5,207,957:42:7
573	99	284	04:59:44.733	118II110A111A4A	7STRP	0.00731,0.0,206,	Slew =2,3.6	2R3	4	0	5,207,957:51:0
574	99	284	04:59:46.066	175IJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,957:53:0
575	99	284	04:59:46.066		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *4946.99 +/- 4	2R3	4	0	5,207,957:53:0
576	99	284	04:59:48.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4935.49 +/- 4	2R3	4	0	5,207,957:57:1
577	99	284	05:00:52.066	175IK422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,207,958:61:0
578	99	284	05:00:52.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4935.49 +/- 4	2R3	4	0	5,207,958:61:0
579	99	284	05:00:53.400	118II11A	SMOS	GE		2R3	4	0	5,207,958:63:0
580	99	284	05:00:53.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4935.61 +/- 4	2R3	4	0	5,207,958:63:1
581	99	284	05:00:58.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4936.84 +/- 4	2R3	4	0	5,207,958:71:0
582	99	284	05:00:58.733	24INPROMTH02-		-----START------		2R3	4	0	: :
583	99	284	05:00:58.733	24NNPROMTH02-		-----STOP-------		2R3	4	0	: :
584	99	284	05:00:59.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4936.90 +/- 4	2R3	4	0	5,207,958:72:8
585	99	284	05:01:04.733	175IK176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,958:80:0
586	99	284	05:01:05.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4870.90 +/- 5	2R3	4	0	5,207,958:80:7
587	99	284	05:01:05.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *4870.90 +/- 4	2R3	4	0	5,207,958:80:7
588	99	284	05:01:12.066	176IK6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,207,959:00:0
589	99	284	05:01:16.066	175IK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,959:06:0
590	99	284	05:01:16.066		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *4603.48 +/- 5	2R3	4	0	5,207,959:06:0
591	99	284	05:01:18.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4591.98 +/- 5	2R3	4	0	5,207,959:10:1
592	99	284	05:02:27.400	175IL422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,207,960:22:0
593	99	284	05:02:27.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4591.98 +/- 5	2R3	4	0	5,207,960:22:0
594	99	284	05:02:28.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4592.10 +/- 5	2R3	4	0	5,207,960:24:1
595	99	284	05:02:34.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4593.33 +/- 5	2R3	4	0	5,207,960:32:0
596	99	284	05:02:35.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4593.39 +/- 5	2R3	4	0	5,207,960:33:8
597	99	284	05:02:36.733	20DI5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,960:36:0
598	99	284	05:02:40.066	20DI5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,960:41:0
599	99	284	05:02:40.066	175IL176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang		4	0	5,207,960:41:0
600	99	284	05:02:40.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4527.39 +/- 5		4	0	5,207,960:41:7
601	99	284	05:02:40.533		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *4527.39 +/- 5		4	0	5,207,960:41:7
602	99	284	05:02:42.733	175IL422A6B	6DMSC	RDY,0	DMS Control Tape stop		4	0	5,207,960:45:0
603	99	284	05:02:42.733		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *4473.25 +/- 5		4	0	5,207,960:45:0
604	99	284	05:02:43.400	20DI6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,960:46:0
605	99	284	05:02:45.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4461.75 +/- 5		4	0	5,207,960:49:1
606	99	284	05:02:53.400	20DI6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,960:61:0
607	99	284	05:03:03.400	20DI5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,960:76:0
608	99	284	05:03:06.733	20DI5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,960:81:0
609	99	284	05:03:54.066	175IM422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	260	4	0	5,207,961:61:0
610	99	284	05:03:54.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4461.75 +/- 5	260	4	0	5,207,961:61:0
611	99	284	05:03:55.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4461.87 +/- 5	260	4	0	5,207,961:63:1
612	99	284	05:04:00.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4463.11 +/- 5	260	4	0	5,207,961:71:0
613	99	284	05:04:01.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *4463.17 +/- 5	260	4	0	5,207,961:72:8

614	99	284	05:04:06.733	175IM176A6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	260	4	0	5,207,961:80:0
615	99	284	05:04:07.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *4397.17 +/- 5	260	4	0	5,207,961:80:7
616	99	284	05:04:07.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 4397.17 +/- 6	260	4	0	5,207,961:80:7
617	**99**	**284**	**05:04:07.400**	**20DI4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**5,207,961:81:0**
618	99	284	05:04:09.400	175IM422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,207,961:84:0
619	99	284	05:04:09.400		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *4343.03 +/- 6	2R0	4	0	5,207,961:84:0
620	99	284	05:04:12.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *4331.53 +/- 6	2R0	4	0	5,207,961:88:1
621	**99**	**284**	**05:05:08.066**	**20DI4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,207,962:81:0**
622	**99**	**284**	**05:05:08.733**	**20DI4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,207,962:82:0**
623	99	284	05:05:14.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 4331.53 +/- 6	2R3	4	0	5,207,962:90:0
624	99	284	05:05:14.066	175DI422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	5,207,962:90:0
625	99	284	05:05:15.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4331.65 +/- 6	2R3	4	0	5,207,963:01:1
626	99	284	05:05:20.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4332.88 +/- 6	2R3	4	0	5,207,963:09:0
627	99	284	05:05:21.933		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *4332.94 +/- 6	2R3	4	0	5,207,963:10:8
628	99	284	05:05:22.066	116DI4A	**7STRP**	**-0.0084,0.0,0,0,**	**Slew =,0.02**	2R3	4	0	5,207,963:11:0
629	99	284	05:05:25.400	175DI176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,963:16:0
630	99	284	05:05:25.933		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 4331.44 +/- 6	2R3	4	0	5,207,963:16:8
631	99	284	05:05:25.933		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *4331.44 +/- 6	2R3	4	0	5,207,963:16:8
632	**99**	**284**	**05:05:26.066**	**24INPROMTH02-**	**NIMPBK**	**301DI**	**IO PROMETHUS OBSERVATION**	**2R3**	**4**	**0**	**: :**
633	**99**	**284**	**05:08:51.400**	**24INPROMTH02-**	**NIMPBK**	**301EI**	**IO PROMETHUSOBSERVATION**	**2R3**	**4**	**0**	**: :**
634	**99**	**284**	**05:09:00.066**	**24INPROMTH02-**	**DESELC**	**300DI**	**IO PROMETHUS OBSERVATION**	**2R3**	**4**	**0**	**: :**
635	**99**	**284**	**05:09:41.333**	**24INPROMTH02-**	**NIMPBK**	**301EM**	**IO PROMETHUSOBSERVATION**	**2R3**	**4**	**0**	**: :**
636	**99**	**284**	**05:09:56.333**	**24INPROMTH02-**	**DESELC**	**300EM**	**IO PROMETHUS OBSERVATION**	**2R3**	**4**	**0**	**: :**
637	**99**	**284**	**05:12:17.333**	**24INPROMTH02-**	**NIMPBK**	**301FN**	**IO PROMETHUSOBSERVATION**	**2R3**	**4**	**0**	**: :**
638	**99**	**284**	**05:12:25.400**	**24INPROMTH02-**	**DESELC**	**300FN**	**IO PROMETHUS OBSERVATION**	**2R3**	**4**	**0**	**: :**
639	**99**	**284**	**05:12:25.400**	**24INPROMTH02-**	**DESELC**	**300EI**	**IO PROMETHUS OBSERVATION**	**2R3**	**4**	**0**	**: :**
640	99	284	05:12:26.066	175DI422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,970:10:0
641	99	284	05:12:26.066		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *3962.18 +/- 6	2R3	4	0	5,207,970:10:0
642	99	284	05:12:27.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3961.88 +/- 6	2R3	4	0	5,207,970:11:8
643	99	284	05:12:34.066	165IK4A	**7SCAN**	**NORM,50.097,23.0**	**Check S/P Position**	2R3	4	0	5,207,970:22:0
644	**99**	**284**	**05:12:36.733**	**24INPROMTH02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
645	**99**	**284**	**05:12:39.400**	**24NNZAMAMA02-**		**-----START------**		**2R3**	**4**	**0**	**: :**
646	99	284	05:13:24.066	117IK	**CSMOS**	GS	***** GROUP START CSMOS	2R3	4	0	5,207,971:06:0
647	99	284	05:13:30.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3961.88 +/- 6	2R3	4	0	5,207,971:16:0
648	99	284	05:13:30.733	175IN422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,207,971:16:0
649	99	284	05:13:32.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3962.00 +/- 6	2R3	4	0	5,207,971:18:1
650	99	284	05:13:37.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3963.24 +/- 6	2R3	4	0	5,207,971:26:0
651	99	284	05:13:38.600		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3963.30 +/- 6	2R3	4	0	5,207,971:27:8
652	99	284	05:13:40.733	165IK4B	7VECT		Inert vect update UTC	2R3	4	0	5,207,971:31:0
653	99	284	05:13:42.066	117IK105A106A4A	**7STRP**	**0.040522,0.0,0,0**	**Slew =,3.15**	2R3	4	0	5,207,971:33:0
654	99	284	05:13:43.400	175IN176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,971:35:0
655	99	284	05:13:43.866		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3897.30 +/- 6	2R3	4	0	5,207,971:35:7
656	99	284	05:13:43.866		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3897.30 +/- 6	2R3	4	0	5,207,971:35:7
657	**99**	**284**	**05:13:44.066**	**24INZAMAMA02+**	**NIMPBK**	**301EF**	**IO MONITORING WITH SSI**	**2R3**	**4**	**0**	**: :**
658	**99**	**284**	**05:13:56.733**	**24INZAMAMA02+**	**DESELC**	**300EF**	**IO MONITORING WITH SSI**	**2R3**	**4**	**0**	**: :**
659	99	284	05:13:57.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3564.25 +/- 6	2R3	4	0	5,207,971:56:0
660	99	284	05:13:57.400	175IN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,971:56:0
661	99	284	05:14:00.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3552.75 +/- 6	2R3	4	0	5,207,971:60:1
662	99	284	05:14:02.066	117IK105A106A4B	**7STRP**	**-0.041524,0.0073**	**Slew =0,6.7**		4	0	5,207,971:63:0
663	**99**	**284**	**05:14:44.733**	**20DJ5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,207,972:36:0**
664	**99**	**284**	**05:14:48.066**	**20DJ5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,207,972:41:0**
665	**99**	**284**	**05:14:51.400**	**20DJ6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,207,972:46:0**
666	**99**	**284**	**05:15:01.400**	**20DJ6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,207,972:61:0**
667	99	284	05:15:04.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3552.75 +/- 6		4	0	5,207,972:65:0
668	99	284	05:15:04.066	175IO422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb		4	0	5,207,972:65:0
669	99	284	05:15:05.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3552.87 +/- 6		4	0	5,207,972:67:1

670	99	284	05:15:10.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3554.11 +/- 6		4	0	5,207,972:75:0
671	**99**	**284**	**05:15:11.400**	**20DJ5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,207,972:76:0**
672	99	284	05:15:11.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3554.17 +/- 6		4	0	5,207,972:76:8
673	**99**	**284**	**05:15:14.733**	**20DJ5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,207,972:81:0**
674	99	284	05:15:15.400	117IK105A106A4C	**7STRP**	**0.040522,0.0,0,0**	**Slew =,3.15**	260	4	0	5,207,972:82:0
675	99	284	05:15:16.733	175IO176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	260	4	0	5,207,972:84:0
676	99	284	05:15:17.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3488.17 +/- 7	260	4	0	5,207,972:84:7
677	99	284	05:15:17.200		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3488.17 +/- 6	260	4	0	5,207,972:84:7
678	99	284	05:15:30.733	175IO422A6B	6DMSC	RDY,0	DMS Control Tape stop	260	4	0	5,207,973:14:0
679	99	284	05:15:30.733		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *3155.12 +/- 7	260	4	0	5,207,973:14:0
680	99	284	05:15:33.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *3143.62 +/- 7	260	4	0	5,207,973:18:1
681	99	284	05:15:35.400	117IK105A106A4D	**7STRP**	**-0.041524,0.0073**	**Slew =0,6.7**	260	4	0	5,207,973:21:0
682	**99**	**284**	**05:16:15.400**	**20DJ4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**5,207,973:81:0**
683	99	284	05:16:37.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 3143.62 +/- 7	2R0	4	0	5,207,974:23:0
684	99	284	05:16:37.400	175IP422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	5,207,974:23:0
685	99	284	05:16:38.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *3143.74 +/- 7	2R0	4	0	5,207,974:25:1
686	99	284	05:16:44.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *3144.97 +/- 7	2R0	4	0	5,207,974:33:0
687	99	284	05:16:45.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *3145.03 +/- 7	2R0	4	0	5,207,974:34:8
688	99	284	05:16:48.733	117IK105A106A4E	**7STRP**	**0.040522,0.0,0,0**	**Slew =,3.15**	2R0	4	0	5,207,974:40:0
689	99	284	05:16:50.066	175IP176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	2R0	4	0	5,207,974:42:0
690	99	284	05:16:50.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *3079.03 +/- 7	2R0	4	0	5,207,974:42:7
691	99	284	05:16:50.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 3079.03 +/- 7	2R0	4	0	5,207,974:42:7
692	**99**	**284**	**05:16:50.733**	**24INZAMAMA02+**	**NIMPBK**	**301EH**	**IO MONITORING WITH SSI**	**2R0**	**4**	**0**	**: :**
693	**99**	**284**	**05:17:03.400**	**24INZAMAMA02+**	**DESELC**	**300EH**	**IO MONITORING WITH SSI**	**2R0**	**4**	**0**	**: :**
694	99	284	05:17:04.066		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *2745.99 +/- 7	2R0	4	0	5,207,974:63:0
695	99	284	05:17:04.066	175IP422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,207,974:63:0
696	99	284	05:17:06.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2734.49 +/- 7	2R0	4	0	5,207,974:67:1
697	99	284	05:17:08.733	117IK11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	5,207,974:70:0
698	**99**	**284**	**05:17:13.400**	**24INZAMAMA02-**		**-----START------**		**2R0**	**4**	**0**	**: :**
699	**99**	**284**	**05:17:13.400**	**24NNZAMAMA02-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
700	**99**	**284**	**05:17:16.066**	**20DJ4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,207,974:81:0**
701	**99**	**284**	**05:17:16.733**	**20DJ4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,207,974:82:0**
702	99	284	05:17:22.733	116DJ4A	**7STRP**	**-0.00275,-0.0037**	**Slew =,4.81**	2R3	4	0	5,207,975:00:0
703	99	284	05:18:08.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2734.49 +/- 7	2R3	4	0	5,207,975:69:0
704	99	284	05:18:08.733	175DJ422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	5,207,975:69:0
705	99	284	05:18:10.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2734.61 +/- 7	2R3	4	0	5,207,975:71:1
706	99	284	05:18:15.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2735.84 +/- 7	2R3	4	0	5,207,975:79:0
707	99	284	05:18:16.600		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2735.90 +/- 7	2R3	4	0	5,207,975:80:8
708	99	284	05:18:16.733	116EJ4A	**7STRP**	**-0.00312,0.0,0,0**	**Slew =,0.02**	2R3	4	0	5,207,975:81:0
709	99	284	05:18:20.066	175DJ176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,975:86:0
710	99	284	05:18:20.600		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *2734.40 +/- 7	2R3	4	0	5,207,975:86:8
711	99	284	05:18:20.600		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2734.40 +/- 7	2R3	4	0	5,207,975:86:8
712	**99**	**284**	**05:18:20.733**	**24INZAMAMA02-**	**NIMPBK**	**301DJ**	**IO ZAMAMA OBSERVATION**	**2R3**	**4**	**0**	**: :**
713	**99**	**284**	**05:18:21.400**	**24INZAMAMA02-**	**NIMPBK**	**301DX**	**IO ZAMAMA OBSERVATION**	**2R3**	**4**	**0**	**: :**
714	**99**	**284**	**05:18:51.400**	**24INZAMAMA02-**	**DESELC**	**300DX**	**IO ZAMAMA OBSERVATION**	**2R3**	**4**	**0**	**: :**
715	**99**	**284**	**05:20:56.066**	**24INZAMAMA02-**	**DESELC**	**300DJ**	**IO ZAMAMA OBSERVATION**	**2R3**	**4**	**0**	**: :**
716	99	284	05:20:56.733	175DJ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,978:48:0
717	99	284	05:20:56.733		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC *2597.17 +/- 7	2R3	4	0	5,207,978:48:0
718	99	284	05:20:57.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2596.87 +/- 7	2R3	4	0	5,207,978:49:8
719	**99**	**284**	**05:21:02.066**	**24NNDORIAN01-**		**-----START------**		**2R3**	**4**	**0**	**: :**
720	**99**	**284**	**05:21:02.066**	**24INZAMAMA02-**		**-----STOP-------**		**2R3**	**4**	**0**	**: :**
721	99	284	05:21:02.733	165IM4A	**7SCAN**	**NORM,51.944,18.8**	**Check S/P Position**	2R3	4	0	5,207,978:57:0
722	**99**	**284**	**05:21:05.400**	**20DK5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,207,978:61:0**
723	**99**	**284**	**05:21:08.733**	**20DK5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,207,978:66:0**
724	**99**	**284**	**05:21:12.066**	**20DK6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,207,978:71:0**
725	**99**	**284**	**05:21:22.066**	**20DK6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,207,978:86:0**

726	99	284	05:21:29.400	117IM	CSMOS	GS	***** GROUP START CSMOS		4	0	5,207,979:06:0
727	99	284	05:21:36.066	20DK5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,979:16:0
728	99	284	05:21:39.400	20DK5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,979:21:0
729	99	284	05:21:59.400	175IQ422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	260	4	0	5,207,979:51:0
730	99	284	05:21:59.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2596.87 +/- 7	260	4	0	5,207,979:51:0
731	99	284	05:22:00.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2596.99 +/- 7	260	4	0	5,207,979:53:1
732	99	284	05:22:06.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2598.23 +/- 7	260	4	0	5,207,979:61:0
733	99	284	05:22:07.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *2598.29 +/- 7	260	4	0	5,207,979:62:8
734	99	284	05:22:09.400	165IM4B	7VECT		Inert vect update UTC	260	4	0	5,207,979:66:0
735	99	284	05:22:10.733	117IM105A106A4A	7STRP	0.025005,0.0,0,0	Slew =0,2.8	260	4	0	5,207,979:68:0
736	99	284	05:22:12.066	175IQ176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	260	4	0	5,207,979:70:0
737	99	284	05:22:12.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 2532.29 +/- 7	260	4	0	5,207,979:70:7
738	99	284	05:22:12.533		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *2532.29 +/- 7	260	4	0	5,207,979:70:7
739	99	284	05:22:19.400	20DK4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,207,979:81:0
740	99	284	05:22:21.400	175IQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,207,979:84:0
741	99	284	05:22:21.400		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *2314.08 +/- 7	2R0	4	0	5,207,979:84:0
742	99	284	05:22:24.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2302.58 +/- 8	2R0	4	0	5,207,979:88:1
743	99	284	05:22:26.733	117IM11A	CSMOS	GE	***** GROUP END CSMOS	2R0	4	0	5,207,980:01:0
744	99	284	05:22:30.066	24NNDORIAN01-		-----STOP-------		2R0	4	0	: :
745	99	284	05:22:31.400	24INDORIAN01-		-----START------		2R0	4	0	: :
746	99	284	05:23:20.066	20DK4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,207,980:81:0
747	99	284	05:23:20.733	20DK4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,207,980:82:0
748	99	284	05:23:26.066	175DK422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	5,207,980:90:0
749	99	284	05:23:26.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2302.58 +/- 8	2R3	4	0	5,207,980:90:0
750	99	284	05:23:26.733	116DK4A	7STRP	-0.0095,-0.0015,	Slew =0,4.5	2R3	4	0	5,207,981:00:0
751	99	284	05:23:27.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2302.70 +/- 8	2R3	4	0	5,207,981:01:1
752	99	284	05:23:32.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2303.94 +/- 8	2R3	4	0	5,207,981:09:0
753	99	284	05:23:33.933		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *2304.00 +/- 8	2R3	4	0	5,207,981:10:8
754	99	284	05:23:37.400	175DK176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,981:16:0
755	99	284	05:23:37.933		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 2302.50 +/- 8	2R3	4	0	5,207,981:16:8
756	99	284	05:23:37.933		DMS:	: *RECORD	R28, TRACK 4, REV, TIC *2302.50 +/- 8	2R3	4	0	5,207,981:16:8
757	99	284	05:23:38.066	24INDORIAN01-	NIMPBK	301DK	IO DORIAN OBSERVATION	2R3	4	0	: :
758	99	284	05:24:29.400	24INDORIAN01-	DESELC	300DK	IO DORIAN OBSERVATION	2R3	4	0	: :
759	99	284	05:24:30.066	175DK422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,982:04:0
760	99	284	05:24:30.066		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC *2256.68 +/- 8	2R3	4	0	5,207,982:04:0
761	99	284	05:24:31.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC *2256.38 +/- 8	2R3	4	0	5,207,982:05:8
762	99	284	05:24:37.400	165IN4A	7SCAN	NORM,45.87,21.48	Check S/P Position	2R3	4	0	5,207,982:15:0
763	99	284	05:24:41.400	24INDORIAN01-		-----STOP-------		2R3	4	0	: :
764	99	284	05:24:44.733	24NNAMSKGI01-		-----START------		2R3	4	0	: :
765	99	284	05:25:32.066	117IN	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	5,207,983:06:0
766	99	284	05:25:34.066	175IR422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,207,983:09:0
767	99	284	05:25:34.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 2256.38 +/- 8	2R3	4	0	5,207,983:09:0
768	99	284	05:25:35.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *2256.50 +/- 8	2R3	4	0	5,207,983:11:1
769	99	284	05:25:40.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *2257.73 +/- 8	2R3	4	0	5,207,983:19:0
770	99	284	05:25:41.933		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *2257.79 +/- 8	2R3	4	0	5,207,983:20:8
771	99	284	05:25:44.066	165IN4B	7VECT		Inert vect update UTC	2R3	4	0	5,207,983:24:0
772	99	284	05:25:45.400	117IN105A106A4A	7STRP	0.040522,0.0,0,0	Slew =,3.15	2R3	4	0	5,207,983:26:0
773	99	284	05:25:46.733	175IR176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	2R3	4	0	5,207,983:28:0
774	99	284	05:25:47.200		DMS:	: *RECORD	R806, TRACK 4, REV, TIC *2191.79 +/- 8	2R3	4	0	5,207,983:28:7
775	99	284	05:25:47.200		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 2191.79 +/- 8	2R3	4	0	5,207,983:28:7
776	99	284	05:25:47.400	24INAMSKGI01+	NIMPBK	301EJ	IO MONITORING WITH SSI	2R3	4	0	: :
777	99	284	05:26:00.066	24INAMSKGI01+	DESELC	300EJ	IO MONITORING WITH SSI	2R3	4	0	: :
778	99	284	05:26:00.733	175IR422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,983:49:0
779	99	284	05:26:00.733		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC *1858.75 +/- 8	2R3	4	0	5,207,983:49:0
780	99	284	05:26:03.466		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1847.25 +/- 8	2R3	4	0	5,207,983:53:1
781	99	284	05:26:05.400	117IN105A106A4B	7STRP	-0.039521,0.0072	Slew =0,6.7	2R3	4	0	5,207,983:56:0

782	99	284	05:27:07.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1847.25 +/- 8	2R3	4	0	5,207,984:58:0
783	99	284	05:27:07.400	175IS422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R3	4	0	5,207,984:58:0
784	99	284	05:27:08.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1847.37 +/- 8	2R3	4	0	5,207,984:60:1
785	**99**	**284**	**05:27:09.400**	**20DL5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,207,984:61:0**
786	**99**	**284**	**05:27:12.733**	**20DL5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,207,984:66:0**
787	99	284	05:27:14.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1848.60 +/- 8		4	0	5,207,984:68:0
788	99	284	05:27:15.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *1848.66 +/- 8		4	0	5,207,984:69:8
789	**99**	**284**	**05:27:16.066**	**20DL6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,207,984:71:0**
790	99	284	05:27:18.733	117IN105A106A4C	**7STRP**	**0.040522,0.0,0,0**	**Slew =,3.15**		4	0	5,207,984:75:0
791	99	284	05:27:20.066	175IS176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change		4	0	5,207,984:77:0
792	99	284	05:27:20.533		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *1782.66 +/- 8		4	0	5,207,984:77:7
793	99	284	05:27:20.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 1782.66 +/- 8		4	0	5,207,984:77:7
794	**99**	**284**	**05:27:26.066**	**20DL6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,207,984:86:0**
795	99	284	05:27:34.066	175IS422A6B	6DMSC	RDY,0	DMS Control Tape stop		4	0	5,207,985:07:0
796	99	284	05:27:34.066		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *1449.61 +/- 8		4	0	5,207,985:07:0
797	99	284	05:27:36.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1438.11 +/- 9		4	0	5,207,985:11:1
798	99	284	05:27:38.733	117IN105A106A4D	**7STRP**	**-0.039521,0.0072**	**Slew =0,6.7**		4	0	5,207,985:14:0
799	**99**	**284**	**05:27:40.066**	**20DL5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,207,985:16:0**
800	**99**	**284**	**05:27:43.400**	**20DL5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,207,985:21:0**
801	**99**	**284**	**05:28:23.400**	**20DL4A**	**37IST**	**1,2,0,OFF,0,1,0**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**2R0**	**4**	**0**	**5,207,985:81:0**
802	99	284	05:28:40.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1438.11 +/- 9	2R0	4	0	5,207,986:16:0
803	99	284	05:28:40.733	175IT422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	2R0	4	0	5,207,986:16:0
804	99	284	05:28:42.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1438.23 +/- 9	2R0	4	0	5,207,986:18:1
805	99	284	05:28:47.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1439.47 +/- 9	2R0	4	0	5,207,986:26:0
806	99	284	05:28:48.600		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC *1439.53 +/- 9	2R0	4	0	5,207,986:27:8
807	99	284	05:28:52.066	117IN105A106A4E	**7STRP**	**0.040522,0.0,0,0**	**Slew =,3.15**	2R0	4	0	5,207,986:33:0
808	99	284	05:28:53.400	175IT176A6A	6TMREC	**AI8**	806.4 KBPS SSI RECORD Record Mode Change	2R0	4	0	5,207,986:35:0
809	99	284	05:28:53.866		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 1373.53 +/- 9	2R0	4	0	5,207,986:35:7
810	99	284	05:28:53.866		DMS:	**: *RECORD**	R806, TRACK 4, REV, TIC *1373.53 +/- 9	2R0	4	0	5,207,986:35:7
811	**99**	**284**	**05:28:54.066**	**24INAMSKGI01+**	**NIMPBK**	**301EK**	**IO MONITORING WITH SSI**	**2R0**	**4**	**0**	**: :**
812	**99**	**284**	**05:29:06.733**	**24INAMSKGI01+**	**DESELC**	**300EK**	**IO MONITORING WITH SSI**	**2R0**	**4**	**0**	**: :**
813	99	284	05:29:07.400	175IT422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R0	4	0	5,207,986:56:0
814	99	284	05:29:07.400		DMS:	**: *RUNDOWN**	R806, TRACK 4, REV, TIC *1040.48 +/- 9	2R0	4	0	5,207,986:56:0
815	99	284	05:29:10.133		DMS:	: *READY	RDY, TRACK 4, REV, TIC *1028.98 +/- 9	2R0	4	0	5,207,986:60:1
816	99	284	05:29:12.066	117IN11A	**CSMOS**	GE	***** GROUP END CSMOS	2R0	4	0	5,207,986:63:0
817	**99**	**284**	**05:29:17.400**	**24INAMSKGI01-**		**-----START------**		**2R0**	**4**	**0**	**: :**
818	**99**	**284**	**05:29:17.400**	**24NNAMSKGI01-**		**-----STOP-------**		**2R0**	**4**	**0**	**: :**
819	99	284	05:29:18.733	116DL4A	**7STRP**	**-0.027007,-0.007**	**Slew =,1.01**	2R0	4	0	5,207,986:73:0
820	**99**	**284**	**05:29:24.066**	**20DL4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**2R3**	**4**	**0**	**5,207,986:81:0**
821	**99**	**284**	**05:29:24.733**	**20DL4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**2R3**	**4**	**0**	**5,207,986:82:0**
822	99	284	05:30:12.066	175DL422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	2R3	4	0	5,207,987:62:0
823	99	284	05:30:12.066		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 1028.98 +/- 9	2R3	4	0	5,207,987:62:0
824	99	284	05:30:13.466		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *1029.10 +/- 9	2R3	4	0	5,207,987:64:1
825	99	284	05:30:18.733		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *1030.34 +/- 9	2R3	4	0	5,207,987:72:0
826	99	284	05:30:19.933		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC *1030.40 +/- 9	2R3	4	0	5,207,987:73:8
827	99	284	05:30:20.066	116EL4A	**7STRP**	**-0.00312,-0.0005**	**Slew =,0.02**	2R3	4	0	5,207,987:74:0
828	99	284	05:30:23.400	175DL176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,207,987:79:0
829	99	284	05:30:23.933		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 1028.90 +/- 9	2R3	4	0	5,207,987:79:8
830	99	284	05:30:23.933		DMS:	**: *RECORD**	R28, TRACK 4, REV, TIC *1028.90 +/- 9	2R3	4	0	5,207,987:79:8
831	**99**	**284**	**05:30:24.066**	**24INAMSKGI01-**	**NIMPBK**	**301DL**	**IO AMSKGI OBSERVATION**	**2R3**	**4**	**0**	**: :**
832	**99**	**284**	**05:31:04.066**	**24INAMSKGI01-**	**NIMPBK**	**301DY**	**IO AMSKGI OBSERVATION**	**2R3**	**4**	**0**	**: :**
833	**99**	**284**	**05:31:34.066**	**24INAMSKGI01-**	**DESELC**	**300DY**	**IO AMSKGI OBSERVATION**	**2R3**	**4**	**0**	**: :**
834	**99**	**284**	**05:32:59.400**	**24INAMSKGI01-**	**DESELC**	**300DL**	**IO AMSKGI OBSERVATION**	**2R3**	**4**	**0**	**: :**
835	99	284	05:33:00.066	175DL422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,207,990:41:0
836	99	284	05:33:00.066		DMS:	**: *RUNDOWN**	R28, TRACK 4, REV, TIC * 891.67 +/- 9	2R3	4	0	5,207,990:41:0
837	99	284	05:33:01.266		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 891.37 +/- 9	2R3	4	0	5,207,990:42:8

838	99	284	05:33:02.066	165IP4A	7SCAN	NORM,45.078,19.4	Check S/P Position	2R3	4	0	5,207,990:44:0
839	99	284	05:33:03.400	24INAMSKGI01-		-----STOP-------		2R3	4	0	: :
840	99	284	05:33:04.066	24NNTERMAP01-		-----START------		2R3	4	0	: :
841	99	284	05:33:13.400	20DM5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,207,990:61:0
842	99	284	05:33:16.733	20DM5B	37MRL		Memory Realocate (software operates from R		4	0	5,207,990:66:0
843	99	284	05:33:20.066	20DM6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,207,990:71:0
844	99	284	05:33:30.066	20DM6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,207,990:86:0
845	99	284	05:33:37.400	117IP	CSMOS	GS	***** GROUP START CSMOS		4	0	5,207,991:06:0
846	99	284	05:33:44.066	20DM5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,207,991:16:0
847	99	284	05:33:47.400	20DM5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,207,991:21:0
848	99	284	05:34:07.400		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 891.37 +/- 9	260	4	0	5,207,991:51:0
849	99	284	05:34:07.400	175IU422A6A	6DMSC	R806,0	DMS Control Tape runup 806.4kb	260	4	0	5,207,991:51:0
850	99	284	05:34:08.800		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 891.49 +/- 9	260	4	0	5,207,991:53:1
851	99	284	05:34:14.066		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 892.72 +/- 9	260	4	0	5,207,991:61:0
852	99	284	05:34:15.266		DMS:	: *RUNUP	R806, TRACK *4, *REV, TIC * 892.78 +/- 9	260	4	0	5,207,991:62:8
853	99	284	05:34:15.400	165IP4B	7VECT		Inert vect update UTC	260	4	0	5,207,991:63:0
854	99	284	05:34:16.733	117IP105A106A4A	7STRP	-0.0018,0.049371	Slew =,9.45	260	4	0	5,207,991:65:0
855	99	284	05:34:20.066	175IU176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	260	4	0	5,207,991:70:0
856	99	284	05:34:20.533		DMS:	: *AT_SPD	R806, TRACK 4, REV, TIC 826.78 +/- 9	260	4	0	5,207,991:70:7
857	99	284	05:34:20.533		DMS:	: *RECORD	R806, TRACK 4, REV, TIC * 826.78 +/- 9	260	4	0	5,207,991:70:7
858	99	284	05:34:27.400	20DM4A	37IST	1,2,0,OFF,0,1,2	Chopper ON, Sync, Chopper (Ref)Gain State	3R0	4	0	5,207,991:81:0
859	99	284	05:34:34.066	176IU6A	6TMREC	IM8	806.4 KBPS IMAGE RECORD Record Mode Chang	3R0	4	0	5,207,992:00:0
860	99	284	05:34:38.066		DMS:	: *RUNDOWN	R806, TRACK 4, REV, TIC * 395.30 +/- 9	3R0	4	0	5,207,992:06:0
861	99	284	05:34:38.066	175IU422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R0	4	0	5,207,992:06:0
862	99	284	05:34:40.800		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 383.80 +/- 9	3R0	4	0	5,207,992:10:1
863	99	284	05:34:44.066	117IP11A	CSMOS	GE	***** GROUP END CSMOS	3R0	4	0	5,207,992:15:0
864	99	284	05:34:50.733	116DM4A	7STRP	-0.0035,-0.03119	Slew =,13.4	3R0	4	0	5,207,992:25:0
865	99	284	05:35:28.066	20DM4B	37IOP	3,0	Long Map, Grating Start Position =00	3R3	4	0	5,207,992:81:0
866	99	284	05:35:28.733	20DM4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	3R3	4	0	5,207,992:82:0
867	99	284	05:35:38.733	24NNTERMAP01-		-----STOP-------		3R3	4	0	: :
868	99	284	05:35:38.733	24INTERMAP01-		-----START------		3R3	4	0	: :
869	99	284	05:35:42.733	175DM422A6A	6DMSC	R28,0	DMS Control Tape runup 28.8kbp	3R3	4	0	5,207,993:12:0
870	99	284	05:35:42.733		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 383.80 +/- 9	3R3	4	0	5,207,993:12:0
871	99	284	05:35:44.133		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 383.92 +/- 9	3R3	4	0	5,207,993:14:1
872	99	284	05:35:49.400		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 385.15 +/- 9	3R3	4	0	5,207,993:22:0
873	99	284	05:35:50.600		DMS:	: *RUNUP	R28, TRACK *4, *REV, TIC * 385.21 +/- 10	3R3	4	0	5,207,993:23:8
874	99	284	05:35:54.066	175DM176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	3R3	4	0	5,207,993:29:0
875	99	284	05:35:54.600		DMS:	: *RECORD	R28, TRACK 4, REV, TIC * 383.71 +/- 10	3R3	4	0	5,207,993:29:8
876	99	284	05:35:54.600		DMS:	: *AT_SPD	R28, TRACK 4, REV, TIC 383.71 +/- 10	3R3	4	0	5,207,993:29:8
877	99	284	05:35:54.733	24INTERMAP01-	NIMPBK	301DM	IO TERMAP OBSERVATION	3R3	4	0	: :
878	99	284	05:37:12.066	24INTERMAP01-	DESELC	300DM	IO TERMAP OBSERVATION	3R3	4	0	: :
879	99	284	05:37:12.733		DMS:	: *RUNDOWN	R28, TRACK 4, REV, TIC * 315.04 +/- 10	3R3	4	0	5,207,994:56:0
880	99	284	05:37:12.733	175DM422A6B	6DMSC	RDY,0	DMS Control Tape stop	3R3	4	0	5,207,994:56:0
881	99	284	05:37:13.933		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 314.74 +/- 10	3R3	4	0	5,207,994:57:8
882	99	284	05:37:40.066	24INTERMAP01-		-----STOP-------		3R3	4	0	: :
883	99	284	05:38:46.733	465KF6A	6DMSC	RDY,1	DMS Control Tape stop	3R3	4	0	5,207,996:15:0
884	99	284	05:38:46.733		DMS:	: READY	RDY, TRACK *1, *FWD, TIC 314.74 +/- 10	3R3	4	0	5,207,996:15:0
885	99	284	05:56:48.066	165GJ4A	7SCAN	NORM,48.307,21.1	Check S/P Position	3R3	4	0	5,208,013:90:0
886	99	284	05:58:40.733	117GJ	CSMOS	GS	***** GROUP START CSMOS	3R3	4	0	5,208,015:77:0
887	99	284	05:58:50.066	117GJ105A106A4A	7STRP	0.0054,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,208,016:00:0
888	99	284	06:00:22.733	117GJ105A106A4B	7STRP	-0.0059,0.0016,0	Slew =12.01	3R3	4	0	5,208,017:48:0
889	99	284	06:00:32.066	117GJ105A106A4C	7STRP	0.0054,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,208,017:62:0
890	99	284	06:01:04.066	20RR6B	6RTSL1		R/T Select of DDS and	3R3	4	0	5,208,018:19:0
891	99	284	06:02:04.733	117GJ105A106A4D	7STRP	-0.0059,0.0016,0	Slew =12.01	3R3	4	0	5,208,019:19:0
892	99	284	06:02:14.066	117GJ105A106A4E	7STRP	0.0054,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,208,019:33:0
893	99	284	06:03:46.733	117GJ105A106A4F	7STRP	-0.0059,0.0016,0	Slew =12.01	3R3	4	0	5,208,020:81:0

894	99	284	06:03:56.066	117GJ105A106A4G	7STRP	0.0054,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,208,021:04:0
895	99	284	06:05:28.733	117GJ105A106A4H	7STRP	-0.0059,0.0016,0	Slew =12.01	3R3	4	0	5,208,022:52:0
896	99	284	06:05:38.066	117GJ105A106A4I	7STRP	0.0054,0.0,0,0,0	Slew =,0.06	3R3	4	0	5,208,022:66:0
897	99	284	06:05:58.733	24NNREGION01-		-----START------		3R3	4	0	: :
898	99	284	06:06:35.400	20DN5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,208,023:61:0
899	99	284	06:06:38.733	20DN5B	37MRL		Memory Realocate (software operates from R		4	0	5,208,023:66:0
900	99	284	06:06:42.066	20DN6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,208,023:71:0
901	99	284	06:06:52.066	20DN6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,208,023:86:0
902	99	284	06:07:06.066	20DN5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,208,024:16:0
903	99	284	06:07:09.400	20DN5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,208,024:21:0
904	99	284	06:07:10.733	117GJ105A106B4A	7STRP	0.030009,0.0,0,0	Slew =12.01	260	4	0	5,208,024:23:0
905	99	284	06:07:17.400	117GJ105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.06	260	4	0	5,208,024:33:0
906	99	284	06:07:49.400	20DN4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,208,024:81:0
907	99	284	06:07:51.400	117GJ11A	CSMOS	GE	***** GROUP END CSMOS	2R0	4	0	5,208,024:84:0
908	99	284	06:07:55.400	165DN4A	7SCAN	NORM,50.423,21.1	Check S/P Position	2R0	4	0	5,208,024:90:0
909	99	284	06:08:00.066	24INREGION01-		-----START------		2R0	4	0	: :
910	99	284	06:08:00.066	24NNREGION01-		-----STOP-------		2R0	4	0	: :
911	99	284	06:08:47.400	117DN	CSMOS	GS	***** GROUP START CSMOS	2R0	4	0	5,208,025:77:0
912	99	284	06:08:50.066	20DN4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,208,025:81:0
913	99	284	06:08:50.733	20DN4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,208,025:82:0
914	99	284	06:08:55.400	165DN4B	7VECT		Inert vect update UTC	2R3	4	0	5,208,025:89:0
915	99	284	06:08:56.733	117DN105A106A4A	7STRP	0.019653,0.0,0,0	Slew =,0.03	2R3	4	0	5,208,026:00:0
916	99	284	06:09:44.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 314.74 +/- 10	2R3	4	0	5,208,026:71:0
917	99	284	06:09:44.066	175DN422A6A	6DMSC	R28,1	DMS Control	2R3	4	0	5,208,026:71:0
918	99	284	06:09:50.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 314.74 +/- 10	2R3	4	0	5,208,026:81:0
919	99	284	06:09:54.066	175DN176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,208,026:86:0
920	99	284	06:09:54.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 316.24 +/- 10	2R3	4	0	5,208,026:87:0
921	99	284	06:09:54.733	24INREGION01-	NIMPBK	301DN	IO REGION OBSERVATION	2R3	4	0	: :
922	99	284	06:09:54.733		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC * 316.24 +/- 10	2R3	4	0	5,208,026:87:0
923	99	284	06:19:55.400	117DN105A106A4B	7STRP	-0.018402,0.0075	Slew =12.01	2R3	4	0	5,208,036:78:0
924	99	284	06:20:06.066	117DN105A106A4C	7STRP	0.019653,0.0,0,0	Slew =,0.03	2R3	4	0	5,208,037:03:0
925	99	284	06:25:50.000	24INREGION01-	NIMPBK	301FO	IO REGION OBSERVATION	2R3	4	0	: :
926	99	284	06:25:52.066	24INREGION01-	NIMPBK	301EN	IO REGION OBSERVATION	2R3	4	0	: :
927	99	284	06:26:00.733	24INREGION01-	DESELC	300DN	IO REGION OBSERVATION	2R3	4	0	: :
928	99	284	06:26:10.000	24INREGION01-	DESELC	300FO	IO REGION OBSERVATION	2R3	4	0	: :
929	99	284	06:27:58.666	24INREGION01-	NIMPBK	301FP	IO REGION OBSERVATION	2R3	4	0	: :
930	99	284	06:28:10.666	24INREGION01-	DESELC	300FP	IO REGION OBSERVATION	2R3	4	0	: :
931	99	284	06:31:04.733	117DN105A106A4D	7STRP	-0.018402,0.0075	Slew =12.01	2R3	4	0	5,208,047:81:0
932	99	284	06:31:15.400	117DN105A106A4E	7STRP	0.019653,0.0,0,0	Slew =,0.03	2R3	4	0	5,208,048:06:0
933	99	284	06:32:01.333	24INREGION01-	NIMPBK	301FQ	IO REGION OBSERVATION	2R3	4	0	: :
934	99	284	06:32:10.000	24INREGION01-	DESELC	300FQ	IO REGION OBSERVATION	2R3	4	0	: :
935	99	284	06:35:12.000	24INREGION01-	NIMPBK	301ER	IO REGION OBSERVATION	2R3	4	0	: :
936	99	284	06:35:24.000	24INREGION01-	DESELC	300ER	IO REGION OBSERVATION	2R3	4	0	: :
937	99	284	06:36:30.000	24INREGION01-	NIMPBK	301ES	IO REGION OBSERVATION	2R3	4	0	: :
938	99	284	06:39:50.000	24INREGION01-	DESELC	300ES	IO REGION OBSERVATION	2R3	4	0	: :
939	99	284	06:40:41.333	24INREGION01-	NIMPBK	301ET	IO REGION OBSERVATION	2R3	4	0	: :
940	99	284	06:41:16.000	24INREGION01-	DESELC	300ET	IO REGION OBSERVATION	2R3	4	0	: :
941	99	284	06:41:22.066	24INREGION01-		-----STOP-------		2R3	4	0	: :
942	99	284	06:41:54.066	24INREGION01-	DESELC	300EN	IO REGION OBSERVATION	2R3	4	0	: :
943	99	284	06:41:54.733	175DN422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,208,058:55:0
944	99	284	06:41:54.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *2003.74 +/- 10	2R3	4	0	5,208,058:55:0
945	99	284	06:41:55.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2004.04 +/- 10	2R3	4	0	5,208,058:56:8
946	99	284	06:42:14.066	117DN11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,208,058:84:0
947	99	284	06:42:22.733	24NNPPLUME01-		-----START------		2R3	4	0	: :
948	99	284	06:42:59.400	20DO5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,208,059:61:0
949	99	284	06:43:02.733	20DO5B	37MRL		Memory Realocate (software operates from R		4	0	5,208,059:66:0

950	99	284	06:43:06.066	20DO6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,208,059:71:0
951	99	284	06:43:16.066	20DO6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,208,059:86:0
952	99	284	06:43:30.066	20DO5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,208,060:16:0
953	99	284	06:43:33.400	20DO5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,208,060:21:0
954	99	284	06:44:13.400	20DO4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref)Gain State	4R0	4	0	5,208,060:81:0
955	99	284	06:45:14.066	20DO4B	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	5,208,061:81:0
956	99	284	06:45:14.733	20DO4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	4R3	4	0	5,208,061:82:0
957	99	284	06:45:20.066	165IQ4A	7SCAN	NORM,52.101,20.5	Check S/P Position	4R3	4	0	5,208,061:90:0
958	99	284	06:45:24.733	24NNPPLUME01-		-----STOP-------		4R3	4	0	: :
959	99	284	06:46:10.066	175IV422A6A	6DMSC	R806,1	DMS Control	4R3	4	0	5,208,062:74:0
960	99	284	06:46:10.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2004.04 +/- 10	4R3	4	0	5,208,062:74:0
961	99	284	06:46:16.733		DMS:	: *RUNUP	R806, TRACK 1, FWD, TIC 2004.04 +/- 10	4R3	4	0	5,208,062:84:0
962	99	284	06:46:20.066	165IQ4B	7VECT		Inert vect update UTC	4R3	4	0	5,208,062:89:0
963	99	284	06:46:21.400	175IV176A6A	6TMREC	AI8	806.4 KBPS SSI RECORD Record Mode Change	4R3	4	0	5,208,063:00:0
964	99	284	06:46:22.000		DMS:	: *AT_SPD	R806, TRACK 1, FWD, TIC 2070.04 +/- 10	4R3	4	0	5,208,063:00:9
965	99	284	06:46:22.000		DMS:	: *RECORD	R806, TRACK 1, FWD, TIC *2070.04 +/- 10	4R3	4	0	5,208,063:00:9
966	99	284	06:46:25.400	175IV422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,208,063:06:0
967	99	284	06:46:25.400		DMS:	: *RUNDOWN	R806, TRACK 1, FWD, TIC *2153.71 +/- 10	4R3	4	0	5,208,063:06:0
968	99	284	06:46:27.400	24INPPLUME01-		-----START------		4R3	4	0	: :
969	99	284	06:46:27.400	116IQ4A	7STRP	0.003,0.0,0,0,0,	Slew =,1.01	4R3	4	0	5,208,063:09:0
970	99	284	06:46:28.133		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2165.21 +/- 10	4R3	4	0	5,208,063:10:1
971	99	284	06:47:28.733	175DO422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	5,208,064:10:0
972	99	284	06:47:28.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2165.21 +/- 10	4R3	4	0	5,208,064:10:0
973	99	284	06:47:30.066	116JQ4A	7STRP	-0.006,0.0,0,0,0	Slew =,0.02	4R3	4	0	5,208,064:12:0
974	99	284	06:47:35.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 2165.21 +/- 10	4R3	4	0	5,208,064:20:0
975	99	284	06:47:38.733	175DO176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	5,208,064:25:0
976	99	284	06:47:39.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 2166.71 +/- 10	4R3	4	0	5,208,064:26:0
977	99	284	06:47:39.400		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *2166.71 +/- 10	4R3	4	0	5,208,064:26:0
978	99	284	06:47:39.400	24INPPLUME01-	NIMPBK	301DO	IO PLUME OBSERVATION	4R3	4	0	: :
979	99	284	06:50:04.733	24INPPLUME01-	NIMPBK	301EO	IO PLUME OBSERVATION	4R3	4	0	: :
980	99	284	06:50:13.400	24INPPLUME01-	DESELC	300DO	IO PLUME OBSERVATION	4R3	4	0	: :
981	99	284	06:52:29.400	24INPPLUME01-		-----STOP-------		4R3	4	0	: :
982	99	284	06:52:38.066	165GK4A	7SCAN	NORM,51.014,20.8	Check S/P Position	4R3	4	0	5,208,069:19:0
983	99	284	06:52:38.733	24INPPLUME01-	DESELC	300EO	IO PLUME OBSERVATION	4R3	4	0	: :
984	99	284	06:52:39.400		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *2430.38 +/- 10	4R3	4	0	5,208,069:21:0
985	99	284	06:52:39.400	175DO422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,208,069:21:0
986	99	284	06:52:40.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2430.68 +/- 10	4R3	4	0	5,208,069:22:8
987	99	284	06:54:17.400	117GK	CSMOS	GS	***** GROUP START CSMOS	4R3	4	0	5,208,070:77:0
988	99	284	06:54:26.733	117GK105A106A4A	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,071:00:0
989	99	284	06:57:13.400	117GK105A106A4B	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,073:68:0
990	99	284	06:57:19.400	117GK105A106A4C	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,073:77:0
991	99	284	07:00:06.066	117GK105A106A4D	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,076:54:0
992	99	284	07:00:12.066	117GK105A106A4E	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,076:63:0
993	99	284	07:02:58.733	117GK105A106A4F	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,079:40:0
994	99	284	07:03:04.733	117GK105A106A4G	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,079:49:0
995	99	284	07:05:51.400	117GK105A106A4H	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,082:26:0
996	99	284	07:05:57.400	117GK105A106A4I	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,082:35:0
997	99	284	07:08:44.066	117GK105A106A4J	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,085:12:0
998	99	284	07:08:50.066	117GK105A106A4K	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,085:21:0
999	99	284	07:11:36.733	117GK105A106A4L	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,087:89:0
1000	99	284	07:11:42.733	117GK105A106A4M	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,088:07:0
1001	99	284	07:14:29.400	117GK105A106A4N	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,090:75:0
1002	99	284	07:14:35.400	117GK105A106A4O	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,090:84:0
1003	99	284	07:17:22.066	117GK105A106A4P	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,093:61:0
1004	99	284	07:17:28.066	117GK105A106A4Q	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,093:70:0
1005	99	284	07:20:14.733	117GK105A106A4R	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,096:47:0

1006	99	284	07:20:20.733	117GK105A106A4S	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,096:56:0
1007	99	284	07:23:07.400	117GK105A106A4T	7STRP	-0.012301,0.001,	Slew =12.01	4R3	4	0	5,208,099:33:0
1008	99	284	07:23:13.400	117GK105A106A4U	7STRP	0.013001,0.0,0,0	Slew =,0.08	4R3	4	0	5,208,099:42:0
1009	99	284	07:26:00.066	117GK105A106B4A	7STRP	-0.025005,0.0100	Slew =12.01	4R3	4	0	5,208,102:19:0
1010	99	284	07:26:11.400	117GK105A106B4B	7STRP	0.0,0.0,0,0,0,0,	Slew =,0.08	4R3	4	0	5,208,102:36:0
1011	99	284	07:27:12.066	117GK11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,208,103:36:0
1012	99	284	07:27:48.066	165GL4A	7SCAN	NORM,50.275,19.8	Check S/P Position	4R3	4	0	5,208,103:90:0
1013	99	284	07:29:40.733	117GL	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,208,105:77:0
1014	99	284	07:29:50.066	117GL105A106A4A	7STRP	-0.0035,-0.03307	Slew =,0.17	4R3	4	0	5,208,106:00:0
1015	99	284	07:38:54.066	117GL11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,208,114:88:0
1016	99	284	07:38:55.400	165GM4A	7SCAN	NORM,50.56,21.39	Check S/P Position	4R3	4	0	5,208,114:90:0
1017	99	284	07:39:47.400	117GM	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,208,115:77:0
1018	99	284	07:39:56.733	117GM105A106A4A	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,116:00:0
1019	99	284	07:42:08.733	117GM105A106A4B	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,118:16:0
1020	99	284	07:42:14.733	117GM105A106A4C	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,118:25:0
1021	99	284	07:44:26.733	117GM105A106A4D	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,120:41:0
1022	99	284	07:44:32.733	117GM105A106A4E	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,120:50:0
1023	99	284	07:46:44.733	117GM105A106A4F	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,122:66:0
1024	99	284	07:46:50.733	117GM105A106A4G	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,122:75:0
1025	99	284	07:49:02.733	117GM105A106A4H	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,125:00:0
1026	99	284	07:49:08.733	117GM105A106A4I	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,125:09:0
1027	99	284	07:51:20.733	117GM105A106A4J	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,127:25:0
1028	99	284	07:51:26.733	117GM105A106A4K	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,127:34:0
1029	99	284	07:53:38.733	117GM105A106A4L	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,129:50:0
1030	99	284	07:53:44.733	117GM105A106A4M	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,129:59:0
1031	99	284	07:55:56.733	117GM105A106A4N	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,131:75:0
1032	99	284	07:56:02.733	117GM105A106A4O	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,131:84:0
1033	99	284	07:58:14.733	117GM105A106A4P	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,134:09:0
1034	99	284	07:58:20.733	117GM105A106A4Q	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,134:18:0
1035	99	284	08:00:32.733	117GM105A106A4R	7STRP	-0.00998,0.0007,	Slew =12.01	4R3	4	0	5,208,136:34:0
1036	99	284	08:00:38.733	117GM105A106A4S	7STRP	0.0103,0.0,0,0,0	Slew =,0.08	4R3	4	0	5,208,136:43:0
1037	99	284	08:01:04.066	20RG6B	6RTSL1		R/T Select of DDS and	4R3	4	0	5,208,136:81:0
1038	**99**	**284**	**08:02:15.400**	**24NNPELEPM01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
1039	99	284	08:02:50.733	117GM11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,208,138:59:0
1040	**99**	**284**	**08:02:52.066**	**20DP5A**	**37PL**		**Program Load (halts microprocessor & unwri**		**4**	**0**	**5,208,138:61:0**
1041	**99**	**284**	**08:02:55.400**	**20DP5B**	**37MRL**		**Memory Realocate (software operates from R**		**4**	**0**	**5,208,138:66:0**
1042	**99**	**284**	**08:02:58.733**	**20DP6A**	**6MCOPY**	**NIMS**	**NIMS,1000,LLM1A,7300,77F7**		**4**	**0**	**5,208,138:71:0**
1043	**99**	**284**	**08:03:08.733**	**20DP6B**	**6MCOPY**	**NIMS**	**NIMS,1598,LLM1A,77F8,781D**		**4**	**0**	**5,208,138:86:0**
1044	**99**	**284**	**08:03:22.733**	**20DP5C**	**37IRT**		**Instrument Reset (goes into POR state)**		**4**	**0**	**5,208,139:16:0**
1045	**99**	**284**	**08:03:26.066**	**20DP5D**	**37MN**		**Memory Normal (software operates from ROM)**	**260**	**4**	**0**	**5,208,139:21:0**
1046	**99**	**284**	**08:04:06.066**	**20DP4A**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**5,208,139:81:0**
1047	**99**	**284**	**08:05:06.733**	**20DP4B**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,208,140:81:0**
1048	**99**	**284**	**08:05:07.400**	**20DP4C**	**37ETB**	**4,C4,35,FF,FF**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,208,140:82:0**
1049	99	284	08:05:12.733	165DP4A	**7SCAN**	**NORM,50.47,20.25**	**Check S/P Position**	4R3	4	0	5,208,140:90:0
1050	**99**	**284**	**08:05:17.400**	**24INPELEPM01-**		**-----START------**		**4R3**	**4**	**0**	**: :**
1051	**99**	**284**	**08:05:17.400**	**24NNPELEPM01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
1052	99	284	08:06:00.733		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2430.68 +/- 10	4R3	4	0	5,208,141:71:0
1053	99	284	08:06:00.733	175DP422A6A	6DMSC	R28,1	DMS Control	4R3	4	0	5,208,141:71:0
1054	99	284	08:06:04.733	117DP	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,208,141:77:0
1055	99	284	08:06:07.400		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 2430.68 +/- 10	4R3	4	0	5,208,141:81:0
1056	99	284	08:06:10.733	175DP176A6A	6TMREC	**MPW**	28.8 KBPS PWS + NIMS RECORD Record Mode C	4R3	4	0	5,208,141:86:0
1057	99	284	08:06:11.400		DMS:	**: *RECORD**	R28, TRACK 1, FWD, TIC *2432.18 +/- 10	4R3	4	0	5,208,141:87:0
1058	99	284	08:06:11.400		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 2432.18 +/- 10	4R3	4	0	5,208,141:87:0
1059	**99**	**284**	**08:06:11.400**	**24INPELEPM01-**	**NIMPBK**	**301DP**	**IO PELE PLUME OBSERVATION**	**4R3**	**4**	**0**	**: :**
1060	99	284	08:06:12.733	165DP4B	7VECT		Inert vect update UTC	4R3	4	0	5,208,141:89:0
1061	99	284	08:06:14.066	117DP105A106A4A	7STRP	-0.0089,0.0,0,0,	Slew =,0.03	4R3	4	0	5,208,142:00:0

1062	**99**	**284**	**08:08:39.400**	**24INPELEPM01-**	**NIMPBK**	**301EP**	**IO PELE PLUME OBSERVATION**	**4R3**	**4**	**0**	**: :**
1063	**99**	**284**	**08:08:48.066**	**24INPELEPM01-**	**DESELC**	**300DP**	**IO PELE PLUME OBSERVATION**	**4R3**	**4**	**0**	**: :**
1064	**99**	**284**	**08:11:10.733**	**24INPELEPM01-**	**DESELC**	**300EP**	**IO PELE PLUME OBSERVATION**	**4R3**	**4**	**0**	**: :**
1065	99	284	08:11:11.400		DMS:	**: *RUNDOWN**	R28, TRACK 1, FWD, TIC *2695.86 +/- 10	4R3	4	0	5,208,146:82:0
1066	99	284	08:11:11.400	175DP422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,208,146:82:0
1067	99	284	08:11:12.600		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *2696.16 +/- 10	4R3	4	0	5,208,146:83:8
1068	99	284	08:11:14.066	117DP11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,208,146:86:0
1069	**99**	**284**	**08:11:21.400**	**24INPELEPM01-**		**-----STOP-------**		**4R3**	**4**	**0**	**: :**
1070	99	284	08:12:17.400	165GN4A	7SCAN	NORM,50.007,21.4	Check S/P Position	4R3	4	0	5,208,147:90:0
1071	99	284	08:13:09.400	117GN	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,208,148:77:0
1072	99	284	08:13:18.733	117GN105A106A4A	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,149:00:0
1073	99	284	08:15:49.400	117GN105A106A4B	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,151:44:0
1074	99	284	08:15:56.066	117GN105A106A4C	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,151:54:0
1075	99	284	08:18:26.733	117GN105A106A4D	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,154:07:0
1076	99	284	08:18:33.400	117GN105A106A4E	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,154:17:0
1077	99	284	08:21:04.066	117GN105A106A4F	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,156:61:0
1078	99	284	08:21:10.733	117GN105A106A4G	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,156:71:0
1079	99	284	08:23:41.400	117GN105A106A4H	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,159:24:0
1080	99	284	08:23:48.066	117GN105A106A4I	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,159:34:0
1081	99	284	08:26:18.733	117GN105A106A4J	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,161:78:0
1082	99	284	08:26:25.400	117GN105A106A4K	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,161:88:0
1083	99	284	08:28:56.066	117GN105A106A4L	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,164:41:0
1084	99	284	08:29:02.733	117GN105A106A4M	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,164:51:0
1085	99	284	08:31:33.400	117GN105A106A4N	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,167:04:0
1086	99	284	08:31:40.066	117GN105A106A4O	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,167:14:0
1087	99	284	08:34:10.733	117GN105A106A4P	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,169:58:0
1088	99	284	08:34:17.400	117GN105A106A4Q	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,169:68:0
1089	99	284	08:36:48.066	117GN105A106A4R	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,172:21:0
1090	99	284	08:36:54.733	117GN105A106A4S	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,172:31:0
1091	99	284	08:39:25.400	117GN105A106A4T	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,174:75:0
1092	99	284	08:39:32.066	117GN105A106A4U	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,174:85:0
1093	99	284	08:42:02.733	117GN105A106A4V	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,177:38:0
1094	99	284	08:42:09.400	117GN105A106A4W	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,177:48:0
1095	99	284	08:44:40.066	117GN105A106A4X	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,180:01:0
1096	99	284	08:44:46.733	117GN105A106A4Y	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,180:11:0
1097	99	284	08:47:17.400	117GN105A106A4Z	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,182:55:0
1098	99	284	08:47:24.066	117GN105A106A4AA	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,182:65:0
1099	99	284	08:49:54.733	117GN105A106A4AB	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,185:18:0
1100	99	284	08:50:01.400	117GN105A106A4AC	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,185:28:0
1101	99	284	08:52:32.066	117GN105A106A4AD	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,187:72:0
1102	99	284	08:52:38.733	117GN105A106A4AE	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,187:82:0
1103	99	284	08:55:09.400	117GN105A106A4AF	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,190:35:0
1104	99	284	08:55:16.066	117GN105A106A4AG	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,190:45:0
1105	99	284	08:57:46.733	117GN105A106A4AH	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,192:89:0
1106	99	284	08:57:53.400	117GN105A106A4AI	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,193:08:0
1107	99	284	09:00:24.066	117GN105A106A4AJ	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,195:52:0
1108	99	284	09:00:30.733	117GN105A106A4AK	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,195:62:0
1109	99	284	09:03:01.400	117GN105A106A4AL	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,198:15:0
1110	99	284	09:03:08.066	117GN105A106A4AM	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,198:25:0
1111	99	284	09:05:38.733	117GN105A106A4AN	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,200:69:0
1112	99	284	09:05:45.400	117GN105A106A4AO	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,200:79:0
1113	99	284	09:08:16.066	117GN105A106A4AP	7STRP	-0.024305,0.001,	Slew =12.01	4R3	4	0	5,208,203:32:0
1114	99	284	09:08:22.733	117GN105A106A4AQ	7STRP	0.025005,0.0,0,0	Slew =,0.17	4R3	4	0	5,208,203:42:0
1115	99	284	09:10:53.400	117GN11A	**CSMOS**	GE	***** GROUP END CSMOS	4R3	4	0	5,208,205:86:0
1116	99	284	09:15:46.066	165IR4A	**7SCAN**	**NORM,49.109,20.8**	**Check S/P Position**	4R3	4	0	5,208,210:70:0
1117	99	284	09:16:52.066	175IW422A6A	6DMSC	R403,1	DMS Control	4R3	4	0	5,208,211:78:0

1118	99	284	09:16:52.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 2696.16 +/- 10	4R3	4	0	5,208,211:78:0
1119	99	284	09:16:52.733	118IR	**SMOS**	GS		4R3	4	0	5,208,211:79:0
1120	99	284	09:16:58.733		DMS:	: *RUNUP	R403, TRACK 1, FWD, TIC 2696.16 +/- 10	4R3	4	0	5,208,211:88:0
1121	99	284	09:16:59.400	165IR4B	7VECT		Inert vect update UTC	4R3	4	0	5,208,211:89:0
1122	99	284	09:17:02.066	175IW176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	4R3	4	0	5,208,212:02:0
1123	99	284	09:17:02.600		DMS:	**: *RECORD**	R403, TRACK 1, FWD, TIC *2719.16 +/- 10	4R3	4	0	5,208,212:02:8
1124	99	284	09:17:02.600		DMS:	: *AT_SPD	R403, TRACK 1, FWD, TIC 2719.16 +/- 10	4R3	4	0	5,208,212:02:8
1125	99	284	09:17:02.733	118IR110A111A4A	**7STRP**	**0.0063,0.0,26,0,**	**Slew =4,2.5**	4R3	4	0	5,208,212:03:0
1126	**99**	**284**	**09:17:02.733**	**24INSSTEREO01**	**NIMPBK**	**301EL**	**IO MONITORING WITH SSI**	**4R3**	**4**	**0**	**: :**
1127	99	284	09:17:28.733	118IR110A111A4B	**7STRP**	**-0.018902,0.0073**	**Slew =,5.21**	4R3	4	0	5,208,212:42:0
1128	99	284	09:17:37.400	118IR110A111A4C	**7STRP**	**0.0063,0.0,26,0,**	**Slew =4,2.5**	4R3	4	0	5,208,212:55:0
1129	99	284	09:18:03.400	118IR110A111A4D	**7STRP**	**-0.018902,0.0073**	**Slew =,5.21**	4R3	4	0	5,208,213:03:0
1130	99	284	09:18:12.066	118IR110A111A4E	**7STRP**	**0.0063,0.0,26,0,**	**Slew =4,2.5**	4R3	4	0	5,208,213:16:0
1131	99	284	09:18:38.066	118IR11A	**SMOS**	GE		4R3	4	0	5,208,213:55:0
1132	**99**	**284**	**09:18:44.066**	**24INSTEREO01+**	**DESELC**	**300EL**	**IO MONITORING WITH SSI**	**4R3**	**4**	**0**	**: :**
1133	99	284	09:18:44.733	175IW422A6B	6DMSC	RDY,0	DMS Control Tape stop	4R3	4	0	5,208,213:65:0
1134	99	284	09:18:44.733		DMS:	**: *RUNDOWN**	R403, TRACK 1, FWD, TIC *3975.88 +/- 10	4R3	4	0	5,208,213:65:0
1135	99	284	09:18:47.466		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *3979.88 +/- 11	4R3	4	0	5,208,213:69:1
1136	99	284	09:19:01.400	165GO4A	7SCAN	NORM,49.142,21.2	Check S/P Position	4R3	4	0	5,208,213:90:0
1137	99	284	09:19:53.400	117GO	**CSMOS**	GS	***** GROUP START CSMOS	4R3	4	0	5,208,214:77:0
1138	99	284	09:20:02.733	117GO105A106A4A	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,215:00:0
1139	99	284	09:22:42.066	117GO105A106A4B	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,217:57:0
1140	99	284	09:22:48.733	117GO105A106A4C	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,217:67:0
1141	99	284	09:25:28.066	117GO105A106A4D	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,220:33:0
1142	99	284	09:25:34.733	117GO105A106A4E	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,220:43:0
1143	99	284	09:28:14.066	117GO105A106A4F	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,223:09:0
1144	99	284	09:28:20.733	117GO105A106A4G	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,223:19:0
1145	99	284	09:31:00.066	117GO105A106A4H	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,225:76:0
1146	99	284	09:31:06.733	117GO105A106A4I	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,225:86:0
1147	99	284	09:33:46.066	117GO105A106A4J	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,228:52:0
1148	99	284	09:33:52.733	117GO105A106A4K	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,228:62:0
1149	99	284	09:36:32.066	117GO105A106A4L	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,231:28:0
1150	99	284	09:36:38.733	117GO105A106A4M	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,231:38:0
1151	99	284	09:39:18.066	117GO105A106A4N	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,234:04:0
1152	99	284	09:39:24.733	117GO105A106A4O	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,234:14:0
1153	99	284	09:42:04.066	117GO105A106A4P	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,236:71:0
1154	99	284	09:42:10.733	117GO105A106A4Q	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,236:81:0
1155	99	284	09:44:50.066	117GO105A106A4R	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,239:47:0
1156	99	284	09:44:56.733	117GO105A106A4S	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,239:57:0
1157	99	284	09:47:36.066	117GO105A106A4T	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,242:23:0
1158	99	284	09:47:42.733	117GO105A106A4U	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,242:33:0
1159	99	284	09:50:22.066	117GO105A106A4V	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,244:90:0
1160	99	284	09:50:28.733	117GO105A106A4W	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,245:09:0
1161	99	284	09:53:08.066	117GO105A106A4X	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,247:66:0
1162	99	284	09:53:14.733	117GO105A106A4Y	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,247:76:0
1163	99	284	09:55:54.066	117GO105A106A4Z	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,250:42:0
1164	99	284	09:56:00.733	117GO105A106A4AA	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,250:52:0
1165	99	284	09:58:40.066	117GO105A106A4AB	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,253:18:0
1166	99	284	09:58:46.733	117GO105A106A4AC	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,253:28:0
1167	99	284	10:01:04.066	20RS6B	6RTSL1		R/T Select of DDS and	4R3	4	0	5,208,255:52:0
1168	99	284	10:01:26.066	117GO105A106A4AD	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,255:85:0
1169	99	284	10:01:32.733	117GO105A106A4AE	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,256:04:0
1170	99	284	10:04:12.066	117GO105A106A4AF	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,258:61:0
1171	99	284	10:04:18.733	117GO105A106A4AG	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,258:71:0
1172	99	284	10:06:58.066	117GO105A106A4AH	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,261:37:0
1173	99	284	10:07:04.733	117GO105A106A4AI	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,261:47:0

1174	99	284	10:09:00.066	480SF6A	6MROH	44,23E8,0,A10	read from LLM2A44,23E8,0,A1	4R3	4	0	5,208,263:38:0
1175	99	284	10:09:44.066	117GO105A106A4AJ	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,264:13:0
1176	99	284	10:09:50.733	117GO105A106A4AK	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,264:23:0
1177	99	284	10:10:20.066	480SF6B	6MROH	45,23E8,0,B10	read from LLM2B45,23E8,0,B1	4R3	4	0	5,208,264:67:0
1178	99	284	10:12:30.066	117GO105A106A4AL	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,266:80:0
1179	99	284	10:12:36.733	117GO105A106A4AM	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,266:90:0
1180	99	284	10:15:16.066	117GO105A106A4AN	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,269:56:0
1181	99	284	10:15:22.733	117GO105A106A4AO	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,269:66:0
1182	99	284	10:18:02.066	117GO105A106A4AP	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,272:32:0
1183	99	284	10:18:08.733	117GO105A106A4AQ	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,272:42:0
1184	99	284	10:20:48.066	117GO105A106A4AR	7STRP	-0.024205,0.0009	Slew =12.01	4R3	4	0	5,208,275:08:0
1185	99	284	10:20:54.733	117GO105A106A4AS	7STRP	0.024805,0.0,0,0	Slew =,0.16	4R3	4	0	5,208,275:18:0
1186	99	284	10:23:34.066	117GO11A	CSMOS	GE	***** GROUP END CSMOS	4R3	4	0	5,208,277:75:0
1187	99	284	10:24:45.400	192GP4A	7CONE	9.0,0.0	Check S/P Position	4R3	4	0	5,208,279:00:0
1188	99	284	10:36:53.400	192GP4B	7CONE	9.0,90.0	Check S/P Position	4R3	4	0	5,208,291:00:0
1189	99	284	10:39:59.400	24NNREGION02-		-----START------		4R3	4	0	: :
1190	99	284	10:40:36.066	20DQ5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,208,294:61:0
1191	99	284	10:40:39.400	20DQ5B	37MRL		Memory Realocate (software operates from R		4	0	5,208,294:66:0
1192	99	284	10:40:42.733	20DQ6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,208,294:71:0
1193	99	284	10:40:52.733	20DQ6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,208,294:86:0
1194	99	284	10:41:06.733	20DQ5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,208,295:16:0
1195	99	284	10:41:10.066	20DQ5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,208,295:21:0
1196	99	284	10:41:50.066	20DQ4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,208,295:81:0
1197	99	284	10:41:56.066	165DZ4A	7SCAN	NORM,48.486,20.4	Check S/P Position	2R0	4	0	5,208,295:90:0
1198	99	284	10:42:00.733	24INREGION02-		-----START------		2R0	4	0	: :
1199	99	284	10:42:00.733	24NNREGION02-		-----STOP-------		2R0	4	0	: :
1200	99	284	10:42:50.733	20DQ4B	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,208,296:81:0
1201	99	284	10:42:51.400	20DQ4C	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,208,296:82:0
1202	99	284	10:45:46.066		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 3979.88 +/- 11	2R3	4	0	5,208,299:71:0
1203	99	284	10:45:46.066	175DQ422A6A	6DMSC	R28,1	DMS Control	2R3	4	0	5,208,299:71:0
1204	99	284	10:45:50.066	117DZ	CSMOS	GS	***** GROUP START CSMOS	2R3	4	0	5,208,299:77:0
1205	99	284	10:45:52.733		DMS:	: *RUNUP	R28, TRACK 1, FWD, TIC 3979.88 +/- 11	2R3	4	0	5,208,299:81:0
1206	99	284	10:45:56.066	175DQ176A6A	6TMREC	MPW	28.8 KBPS PWS + NIMS RECORD Record Mode C	2R3	4	0	5,208,299:86:0
1207	99	284	10:45:56.733		DMS:	: *AT_SPD	R28, TRACK 1, FWD, TIC 3981.38 +/- 11	2R3	4	0	5,208,299:87:0
1208	99	284	10:45:56.733		DMS:	: *RECORD	R28, TRACK 1, FWD, TIC *3981.38 +/- 11	2R3	4	0	5,208,299:87:0
1209	99	284	10:45:56.733	24INREGION02-	NIMPBK	301DQ	IO MONITORING	2R3	4	0	: :
1210	99	284	10:45:59.400	117DZ105A106A4A	7STRP	0.016001,0.0,0,0	Slew =,0.03	2R3	4	0	5,208,300:00:0
1211	99	284	10:46:23.400	24INREGION02-	NIMPBK	301DR	IO MONITORING	2R3	4	0	: :
1212	99	284	10:47:20.066	24INREGION02-	DESELC	300DR	IO MONITORING	2R3	4	0	: :
1213	99	284	10:52:44.733	24INREGION02-	NIMPBK	301DS	IO MONITORING	2R3	4	0	: :
1214	99	284	10:53:34.733	24INREGION02-	DESELC	300DS	IO MONITORING	2R3	4	0	: :
1215	99	284	10:54:02.733	24INREGION02-	NIMPBK	301DT	IO MONITORING	2R3	4	0	: :
1216	99	284	10:54:22.733	24INREGION02-	DESELC	300DT	IO MONITORING	2R3	4	0	: :
1217	99	284	10:54:31.000	24INREGION02-	NIMPBK	301EU	IO MONITORING	2R3	4	0	: :
1218	99	284	10:54:54.733	24INREGION02-	NIMPBK	301EQ	IO MONITORING	2R3	4	0	: :
1219	99	284	10:54:58.066	117DZ105A106A4B	7STRP	-0.016001,0.0076	Slew =12.01	2R3	4	0	5,208,308:80:0
1220	99	284	10:55:03.400	24INREGION02-	DESELC	300DQ	IO MONITORING	2R3	4	0	: :
1221	99	284	10:55:11.333	24INREGION02-	DESELC	300EU	IO MONITORING	2R3	4	0	: :
1222	99	284	10:55:11.400	117DZ105A106A4C	7STRP	0.016001,0.0,0,0	Slew =,0.03	2R3	4	0	5,208,309:09:0
1223	99	284	10:56:41.000	24INREGION02-	NIMPBK	301EV	IO MONITORING	2R3	4	0	: :
1224	99	284	10:57:11.333	24INREGION02-	DESELC	300EV	IO MONITORING	2R3	4	0	: :
1225	99	284	10:57:50.000	24INREGION02-	NIMPBK	301EX	IO MONITORING	2R3	4	0	: :
1226	99	284	10:58:10.000	24INREGION02-	DESELC	300EX	IO MONITORING	2R3	4	0	: :
1227	99	284	11:00:00.000	24INREGION02-	NIMPBK	301EY	IO MONITORING	2R3	4	0	: :
1228	99	284	11:00:24.000	24INREGION02-	DESELC	300EY	IO MONITORING	2R3	4	0	: :
1229	99	284	11:02:22.066	24INREGION02-	DESELC	300EQ	IO MONITORING	2R3	4	0	: :

1230	99	284	11:02:22.733		DMS:	: *RUNDOWN	R28, TRACK 1, FWD, TIC *4847.98 +/- 11	2R3	4	0	5,208,316:19:0
1231	99	284	11:02:22.733	175DQ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,208,316:19:0
1232	99	284	11:02:23.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4848.28 +/- 11	2R3	4	0	5,208,316:20:8
1233	99	284	11:04:10.066	117DZ11A	CSMOS	GE	***** GROUP END CSMOS	2R3	4	0	5,208,317:89:0
1234	99	284	11:06:16.733	24INREGION02-		-----STOP-------		2R3	4	0	: :
1235	99	284	11:17:24.066	24NNDETECT03-		-----START------		2R3	4	0	: :
1236	99	284	11:17:27.400	20FC5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,208,331:11:0
1237	99	284	11:17:29.400	20FC5B	37MRL		Memory Realocate (software operates from R		4	0	5,208,331:14:0
1238	99	284	11:17:34.066	20FC6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,208,331:21:0
1239	99	284	11:17:44.066	20FC6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,208,331:36:0
1240	99	284	11:17:54.066	20FC5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,208,331:51:0
1241	99	284	11:18:00.733	20FC5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,208,331:61:0
1242	99	284	11:18:13.400	20FC4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R0	4	0	5,208,331:80:0
1243	99	284	11:19:14.066	20FC4B	37IST	0,2,0,OFF,0,1,0	Gain State 2	2R0	4	0	5,208,332:80:0
1244	99	284	11:20:14.733	20FC4C	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	2R0	4	0	5,208,333:80:0
1245	99	284	11:21:15.400	20FC4D	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,208,334:80:0
1246	99	284	11:21:16.066	20FC4E	37ETB	4,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,208,334:81:0
1247	99	284	11:23:28.066	20FH6A	6MCOPY	B1A1A,5631,NIMS,	B1A1A,5631,NIMS,150F,1517	2R3	4	0	5,208,337:06:0
1248	99	284	11:23:36.733	20FH6B	6MCOPY	B1A1A,563A,NIMS,	B1A1A,563A,NIMS,150F,1517	2R3	4	0	5,208,337:19:0
1249	99	284	11:24:29.400	20FH6C	6MCOPY	B1A1A,5643,NIMS,	B1A1A,5643,NIMS,150F,1517	2R3	4	0	5,208,338:07:0
1250	99	284	11:24:38.066	20FH6D	6MCOPY	B1A1A,564C,NIMS,	B1A1A,564C,NIMS,150F,1517	2R3	4	0	5,208,338:20:0
1251	99	284	11:25:30.733	20FH6E	6MCOPY	B1A1A,5655,NIMS,	B1A1A,5655,NIMS,150F,1517	2R3	4	0	5,208,339:08:0
1252	99	284	11:25:39.400	20FH6F	6MCOPY	B1A1A,565E,NIMS,	B1A1A,565E,NIMS,150F,1517	2R3	4	0	5,208,339:21:0
1253	99	284	11:26:32.066	20FH6G	6MCOPY	B1A1A,5667,NIMS,	B1A1A,5667,NIMS,150F,1517	2R3	4	0	5,208,340:09:0
1254	99	284	11:26:40.733	20FH6H	6MCOPY	B1A1A,5670,NIMS,	B1A1A,5670,NIMS,150F,1517	2R3	4	0	5,208,340:22:0
1255	99	284	11:27:33.400	20FH6I	6MCOPY	B1A1A,5679,NIMS,	B1A1A,5679,NIMS,150F,1517	2R3	4	0	5,208,341:10:0
1256	99	284	11:27:42.066	20FH6J	6MCOPY	B1A1A,5682,NIMS,	B1A1A,5682,NIMS,150F,1517	2R3	4	0	5,208,341:23:0
1257	99	284	11:28:34.733	20FH6K	6MCOPY	B1A1A,568B,NIMS,	B1A1A,568B,NIMS,150F,1517	2R3	4	0	5,208,342:11:0
1258	99	284	11:28:43.400	20FH6L	6MCOPY	B1A1A,5694,NIMS,	B1A1A,5694,NIMS,150F,1517	2R3	4	0	5,208,342:24:0
1259	99	284	11:29:36.066	20FH6M	6MCOPY	B1A1A,569D,NIMS,	B1A1A,569D,NIMS,150F,1517	2R3	4	0	5,208,343:12:0
1260	99	284	11:29:44.733	20FH6N	6MCOPY	B1A1A,56A6,NIMS,	B1A1A,56A6,NIMS,150F,1517	2R3	4	0	5,208,343:25:0
1261	99	284	11:30:37.400	20FH6O	6MCOPY	B1A1A,56AF,NIMS,	B1A1A,56AF,NIMS,150F,1517	2R3	4	0	5,208,344:13:0
1262	99	284	11:30:46.066	20FH6P	6MCOPY	B1A1A,56B8,NIMS,	B1A1A,56B8,NIMS,150F,1517	2R3	4	0	5,208,344:26:0
1263	99	284	11:31:38.733	20FH6Q	6MCOPY	B1A1A,56C1,NIMS,	B1A1A,56C1,NIMS,150F,1517	2R3	4	0	5,208,345:14:0
1264	99	284	11:31:47.400	20FH6R	6MCOPY	B1A1A,56CA,NIMS,	B1A1A,56CA,NIMS,150F,1517	2R3	4	0	5,208,345:27:0
1265	99	284	11:32:40.066	20FH6S	6MCOPY	B1A1A,56D3,NIMS,	B1A1A,56D3,NIMS,150F,1517	2R3	4	0	5,208,346:15:0
1266	99	284	11:32:48.733	20FH6T	6MCOPY	B1A1A,56DC,NIMS,	B1A1A,56DC,NIMS,150F,1517	2R3	4	0	5,208,346:28:0
1267	99	284	11:33:41.400	20FH6U	6MCOPY	B1A1A,56E5,NIMS,	B1A1A,56E5,NIMS,150F,1517	2R3	4	0	5,208,347:16:0
1268	99	284	11:33:50.066	20FH6V	6MCOPY	B1A1A,56EE,NIMS,	B1A1A,56EE,NIMS,150F,1517	2R3	4	0	5,208,347:29:0
1269	99	284	11:34:42.733	20FH6W	6MCOPY	B1A1A,56F7,NIMS,	B1A1A,56F7,NIMS,150F,1517	2R3	4	0	5,208,348:17:0
1270	99	284	11:34:51.400	20FH6X	6MCOPY	B1A1A,5700,NIMS,	B1A1A,5700,NIMS,150F,1517	2R3	4	0	5,208,348:30:0
1271	99	284	11:35:44.066	20FH6Y	6MCOPY	B1A1A,5709,NIMS,	B1A1A,5709,NIMS,150F,1517	2R3	4	0	5,208,349:18:0
1272	99	284	11:35:52.733	20FH6Z	6MCOPY	B1A1A,5712,NIMS,	B1A1A,5712,NIMS,150F,151C	2R3	4	0	5,208,349:31:0
1273	99	284	11:37:37.400	24NNDETECT03-		-----STOP-------		2R3	4	0	: :
1274	99	284	11:55:44.733	165CA4A	7SCAN	NORM,48.271,20.1	Check S/P Position	2R3	4	0	5,208,368:90:0
1275	99	284	11:59:46.733	165CA4B	7VECT		Inert vect update UTC	2R3	4	0	5,208,372:89:0
1276	99	284	12:01:04.066	20RH6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,208,374:23:0
1277	99	284	12:38:46.066	165CA4C	7VECT		Inert vect update UTC	2R3	4	0	5,208,411:49:0
1278	99	284	13:17:45.400	165CA4D	7VECT		Inert vect update UTC	2R3	4	0	5,208,450:09:0
1279	99	284	13:56:44.733	165CA4E	7VECT		Inert vect update UTC	2R3	4	0	5,208,488:60:0
1280	99	284	14:01:04.066	20RT6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,208,492:85:0
1281	99	284	14:35:44.066	165CA4F	7VECT		Inert vect update UTC	2R3	4	0	5,208,527:20:0
1282	99	284	15:14:43.400	165CA4G	7VECT		Inert vect update UTC	2R3	4	0	5,208,565:71:0
1283	99	284	15:53:42.733	165CA4H	7VECT		Inert vect update UTC	2R3	4	0	5,208,604:31:0
1284	99	284	16:01:04.066	20RI6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,208,611:56:0
1285	99	284	16:32:47.400	165CB4A	7SCAN	NORM,53.572,21.4	Check S/P Position	2R3	4	0	5,208,642:90:0

1286	99	284	16:33:47.400	165CB4B	7VECT		Inert vect update UTC	2R3	4	0	5,208,643:89:0
1287	99	284	17:04:05.400	165CB4C	7VECT		Inert vect update UTC	2R3	4	0	5,208,673:86:0
1288	99	284	17:12:22.066	20MC6A	6CKSUM	MAG,4040,46F0		2R3	4	0	5,208,682:12:0
1289	**99**	**284**	**17:13:18.733**	**480MB6**	**6MROH**	**12**	**read from LLM1A12,2282,0,A1**	**2R3**	**4**	**0**	**5,208,683:06:0**
1290	**99**	**284**	**17:13:18.733**	**480MB6A**	**6MROH**	**12,2282,0,A10**	**read from LLM1A12,2282,0,A1**	**2R3**	**4**	**0**	**5,208,683:06:0**
1291	99	284	17:34:23.400	165CB4D	7VECT		Inert vect update UTC	2R3	4	0	5,208,703:83:0
1292	**99**	**284**	**17:35:00.066**	**480SH6A**	**6MROH**	**44,23E8,0,A10**	**read from LLM2A44,23E8,0,A1**	**2R3**	**4**	**0**	**5,208,704:47:0**
1293	**99**	**284**	**17:36:20.066**	**480SH6B**	**6MROH**	**45,23E8,0,B10**	**read from LLM2B45,23E8,0,B1**	**2R3**	**4**	**0**	**5,208,705:76:0**
1294	99	284	18:01:04.066	20RU6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,208,730:27:0
1295	99	284	18:04:45.400	165IS4A	**7SCAN**	**NORM,56.642,22.1**	**Check S/P Position**	2R3	4	0	5,208,733:86:0
1296	99	284	18:04:57.400		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 4848.28 +/- 11	2R3	4	0	5,208,734:13:0
1297	99	284	18:04:57.400	175IX422A6A	6DMSC	R403,1	DMS Control	2R3	4	0	5,208,734:13:0
1298	99	284	18:05:04.066		DMS:	: *RUNUP	R403, TRACK 1, FWD, TIC 4848.28 +/- 11	2R3	4	0	5,208,734:23:0
1299	99	284	18:05:04.733	165IS4B	7VECT		Inert vect update UTC	2R3	4	0	5,208,734:24:0
1300	99	284	18:05:07.400	175IX176A6A	6TMREC	**IM4**	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,208,734:28:0
1301	99	284	18:05:07.933		DMS:	**: *RECORD**	R403, TRACK 1, FWD, TIC *4871.28 +/- 11	2R3	4	0	5,208,734:28:8
1302	99	284	18:05:07.933		DMS:	: *AT_SPD	R403, TRACK 1, FWD, TIC 4871.28 +/- 11	2R3	4	0	5,208,734:28:8
1303	**99**	**284**	**18:05:08.066**	**24INGLOCOL01+**	**NIMPBK**	**301EZ**	**IO MONITORING WITH SSI**	**2R3**	**4**	**0**	**: :**
1304	**99**	**284**	**18:05:57.400**	**24INGLOCOL01+**	**DESELC**	**300EZ**	**IO MONITORING WITH SSI**	**2R3**	**4**	**0**	**: :**
1305	99	284	18:05:58.066		DMS:	**: *RUNDOWN**	R403, TRACK 1, FWD, TIC *5488.15 +/- 11	2R3	4	0	5,208,735:13:0
1306	99	284	18:05:58.066	175IX422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,208,735:13:0
1307	99	284	18:06:00.800		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5492.15 +/- 11	2R3	4	0	5,208,735:17:1
1308	99	284	18:07:50.066	165CC4A	7SCAN	NORM,56.889,22.2	Check S/P Position	2R3	4	0	5,208,736:90:0
1309	99	284	18:11:52.066	165CC4B	7VECT		Inert vect update UTC	2R3	4	0	5,208,740:89:0
1310	99	284	18:50:51.400	165CC4C	7VECT		Inert vect update UTC	2R3	4	0	5,208,779:49:0
1311	99	284	19:29:50.733	165CC4D	7VECT		Inert vect update UTC	2R3	4	0	5,208,818:09:0
1312	99	284	20:01:04.066	20RJ6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,208,848:89:0
1313	99	284	20:08:50.066	165CC4E	7VECT		Inert vect update UTC	2R3	4	0	5,208,856:60:0
1314	99	284	20:47:49.400	165CC4F	7VECT		Inert vect update UTC	2R3	4	0	5,208,895:20:0
1315	99	284	21:26:48.733	165CC4G	7VECT		Inert vect update UTC	2R3	4	0	5,208,933:71:0
1316	99	284	22:01:04.000	20RV6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,208,967:60:0
1317	99	284	22:05:48.000	165CC4H	7VECT		Inert vect update UTC	2R3	4	0	5,208,972:31:0
1318	99	284	22:47:54.666	165CD4A	7SCAN	NORM,68.518999,2	Check S/P Position	2R3	4	0	5,209,013:90:0
1319	99	284	22:48:54.666	165CD4B	7VECT		Inert vect update UTC	2R3	4	0	5,209,014:89:0
1320	99	284	23:34:22.666	165CD4C	7VECT		Inert vect update UTC	2R3	4	0	5,209,059:86:0
1321	99	285	00:01:04.000	20RK6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,209,086:31:0
1322	99	285	00:20:55.333	431ZL6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,209,105:89:0
1323	99	285	00:22:00.000	20TS4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2R3	4	0	5,209,107:04:0
1324	99	285	00:22:50.000	20TS4B	7SLEW	DIS,POS,0.0	Stator movement	2R3	4	0	5,209,107:79:0
1325	99	285	00:22:58.000	20TS4F	7STAR	1,1610,278.815,3	Star catalog update	2R3	4	0	5,209,108:00:0
1326	99	285	00:23:00.000	20TS4G	7STAR	2,317,120.456,-3	Star catalog update	2R3	4	0	5,209,108:03:0
1327	99	285	00:23:02.000	20TS4H	7STAR	3,133,165.161,62	Star catalog update	2R3	4	0	5,209,108:06:0
1328	99	285	00:23:04.000	20TS4I	7STAR	4,0,0.0,0.0	Star catalog update	2R3	4	0	5,209,108:09:0
1329	99	285	00:23:06.000	20TS4J	7STAR	5,0,0.0,0.0	Star catalog update	2R3	4	0	5,209,108:12:0
1330	99	285	00:23:08.000	20TS4K	7STAR	6,0,0.0,0.0	Star catalog update	2R3	4	0	5,209,108:15:0
1331	99	285	00:25:09.333	20ZM6A	6EUVON			2R3	4	0	5,209,110:15:0
1332	99	285	00:26:00.000	431ZM6A	6RCSEL	DDSNCG,PLSNCG,EP	Record Select (DDS onl	2R3	4	0	5,209,111:00:0
1333	99	285	00:31:02.666	165BA4A	7SCAN	NORM,120.860999,	Check S/P Position	2R3	4	0	5,209,115:90:0
1334	99	285	00:32:06.000	432PB431A6A	6RCDSL	DDSNCG,PLSNCG,EP	Record Deselect (DDS o	2R3	4	0	5,209,117:03:0
1335	99	285	00:32:06.666	432PB6A	6RTSL1		R/T Select of DDS and	2R3	4	0	5,209,117:04:0
1336	99	285	02:01:04.000	20RW6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,209,205:02:0
1337	99	285	03:08:46.666	165CE4A	7SCAN	NORM,81.210999,2	Check S/P Position	2R3	4	0	5,209,271:90:0
1338	99	285	03:12:48.666	165CE4B	7VECT		Inert vect update UTC	2R3	4	0	5,209,275:89:0
1339	**99**	**285**	**03:30:00.000**	**480SI6A**	**6MROH**	**44,23E8,0,A10**	**read from LLM2A44,23E8,0,A1**	**2R3**	**4**	**0**	**5,209,292:89:0**
1340	**99**	**285**	**03:31:20.000**	**480SI6B**	**6MROH**	**45,23E8,0,B10**	**read from LLM2B45,23E8,0,B1**	**2R3**	**4**	**0**	**5,209,294:27:0**
1341	99	285	03:55:24.666	165IT4A	**7SCAN**	**NORM,83.264999,2**	**Check S/P Position**	2R3	4	0	5,209,318:10:0

1342	99	285	03:56:17.333	165IT4B	7VECT		Inert vect update UTC	2R3	4	0	5,209,318:89:0
1343	99	285	03:56:19.333	118IT	SMOS	GS		2R3	4	0	5,209,319:01:0
1344	99	285	03:56:29.333	118IT110A111A4A	7STRP	-0.00352,0.0,234	Slew =2,1.8	2R3	4	0	5,209,319:16:0
1345	99	285	03:57:36.666	175IY422A6A	6DMSC	R403,1	DMS Control	2R3	4	0	5,209,320:26:0
1346	99	285	03:57:36.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5492.15 +/- 11	2R3	4	0	5,209,320:26:0
1347	99	285	03:57:43.333		DMS:	: *RUNUP	R403, TRACK 1, FWD, TIC 5492.15 +/- 11	2R3	4	0	5,209,320:36:0
1348	99	285	03:57:46.666	175IY176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,209,320:41:0
1349	99	285	03:57:47.200		DMS:	: *RECORD	R403, TRACK 1, FWD, TIC *5515.15 +/- 11	2R3	4	0	5,209,320:41:8
1350	99	285	03:57:47.200		DMS:	: *AT_SPD	R403, TRACK 1, FWD, TIC 5515.15 +/- 11	2R3	4	0	5,209,320:41:8
1351	99	285	03:57:47.333	118IT110A111A4B	7STRP	0.00352,0.0,0,0,	Slew =0,1.8	2R3	4	0	5,209,320:42:0
1352	99	285	03:57:50.666		DMS:	: *RUNDOWN	R403, TRACK 1, FWD, TIC *5557.81 +/- 11	2R3	4	0	5,209,320:47:0
1353	99	285	03:57:50.666	175IY422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,209,320:47:0
1354	99	285	03:57:53.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5561.81 +/- 11	2R3	4	0	5,209,320:51:1
1355	99	285	03:59:05.333	118IT110A111A4C	7STRP	-0.00352,0.0,234	Slew =2,1.8	2R3	4	0	5,209,321:68:0
1356	99	285	04:00:12.666	175IZ422A6A	6DMSC	R403,1	DMS Control	2R3	4	0	5,209,322:78:0
1357	99	285	04:00:12.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5561.81 +/- 11	2R3	4	0	5,209,322:78:0
1358	99	285	04:00:19.333		DMS:	: *RUNUP	R403, TRACK 1, FWD, TIC 5561.81 +/- 11	2R3	4	0	5,209,322:88:0
1359	99	285	04:00:22.666	175IZ176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,209,323:02:0
1360	99	285	04:00:23.200		DMS:	: *AT_SPD	R403, TRACK 1, FWD, TIC 5584.81 +/- 12	2R3	4	0	5,209,323:02:8
1361	99	285	04:00:23.200		DMS:	: *RECORD	R403, TRACK 1, FWD, TIC *5584.81 +/- 11	2R3	4	0	5,209,323:02:8
1362	99	285	04:00:23.333	118IT110A111A4D	7STRP	0.00352,0.0,0,0,	Slew =0,1.8	2R3	4	0	5,209,323:03:0
1363	99	285	04:00:26.666		DMS:	: *RUNDOWN	R403, TRACK 1, FWD, TIC *5627.46 +/- 12	2R3	4	0	5,209,323:08:0
1364	99	285	04:00:26.666	175IZ422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,209,323:08:0
1365	99	285	04:00:29.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5631.46 +/- 12	2R3	4	0	5,209,323:12:1
1366	99	285	04:01:04.000	20RL6B	6RTSL1		R/T Select of DDS and	2R3	4	0	5,209,323:64:0
1367	99	285	04:01:41.333	118IT110A111A4E	7STRP	-0.00352,0.0,234	Slew =2,1.8	2R3	4	0	5,209,324:29:0
1368	99	285	04:02:48.666		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 5631.46 +/- 12	2R3	4	0	5,209,325:39:0
1369	99	285	04:02:48.666	175JA422A6A	6DMSC	R403,1	DMS Control	2R3	4	0	5,209,325:39:0
1370	99	285	04:02:55.333		DMS:	: *RUNUP	R403, TRACK 1, FWD, TIC 5631.46 +/- 12	2R3	4	0	5,209,325:49:0
1371	99	285	04:02:58.666	175JA176A6A	6TMREC	IM4	403.2 KBPS IMAGE RECORD Record Mode Chang	2R3	4	0	5,209,325:54:0
1372	99	285	04:02:59.200		DMS:	: *AT_SPD	R403, TRACK 1, FWD, TIC 5654.46 +/- 12	2R3	4	0	5,209,325:54:8
1373	99	285	04:02:59.200		DMS:	: *RECORD	R403, TRACK 1, FWD, TIC *5654.46 +/- 12	2R3	4	0	5,209,325:54:8
1374	99	285	04:02:59.333	118IT11A	SMOS	GE		2R3	4	0	5,209,325:55:0
1375	99	285	04:03:02.666	175JA422A6B	6DMSC	RDY,0	DMS Control Tape stop	2R3	4	0	5,209,325:60:0
1376	99	285	04:03:02.666		DMS:	: *RUNDOWN	R403, TRACK 1, FWD, TIC *5697.12 +/- 12	2R3	4	0	5,209,325:60:0
1377	99	285	04:03:05.400		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *5701.12 +/- 12	2R3	4	0	5,209,325:64:1
1378	99	285	04:03:52.666	165CF4A	7SCAN	NORM,83.757999,2	Check S/P Position	2R3	4	0	5,209,326:44:0
1379	99	285	04:04:22.666	165CF4B	7VECT		Inert vect update UTC	2R3	4	0	5,209,326:89:0
1380	99	285	04:17:36.733	24NNRELOAD01-		-----START------		2R3	4	0	: :
1381	99	285	04:19:14.000	20FN5A	37PL		Program Load (halts microprocessor & unwri		4	0	5,209,341:61:0
1382	99	285	04:19:17.333	20FN5B	37MRL		Memory Realocate (software operates from R		4	0	5,209,341:66:0
1383	99	285	04:19:20.666	20FN6A	6MCOPY	NIMS	NIMS,1000,LLM1A,7300,77F7		4	0	5,209,341:71:0
1384	99	285	04:19:30.666	20FN6B	6MCOPY	NIMS	NIMS,1598,LLM1A,77F8,781D		4	0	5,209,341:86:0
1385	99	285	04:19:44.666	20FN5C	37IRT		Instrument Reset (goes into POR state)		4	0	5,209,342:16:0
1386	99	285	04:19:48.000	20FN5D	37MN		Memory Normal (software operates from ROM)	260	4	0	5,209,342:21:0
1387	99	285	04:20:28.000	20FN4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref)Gain State	2R0	4	0	5,209,342:81:0
1388	99	285	04:23:32.000	127FO4A	37IOP	3,0	Long Map, Grating Start Position =00	2R3	4	0	5,209,345:84:0
1389	99	285	04:23:32.000	127FO	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,209,345:84:0
1390	99	285	04:23:32.666	127FO4B	37ETB	04,C4,35,FF,FF	Loads wavelength edit table	2R3	4	0	5,209,345:85:0
1391	99	285	04:23:40.666	127FO11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R3	4	0	5,209,346:06:0
1392	99	285	04:23:40.733	24NNCHOPOF01-		-----START------		2R3	4	0	: :
1393	99	285	04:23:40.733	24NNRELOAD01-		-----STOP-------		2R3	4	0	: :
1394	99	285	04:28:35.333	127FN	NIMSTAB	GS	%%%%% GROUP START TAB	2R3	4	0	5,209,350:84:0
1395	99	285	04:28:35.333	127FN4A	37IOP	0,0	Safe, Grating Start Position =00	2R0	4	0	5,209,350:84:0
1396	99	285	04:28:36.000	127FN4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	2R0	4	0	5,209,350:85:0
1397	99	285	04:28:44.000	127FN11A	NIMSTAB	GE	%%%%% GROUP END TAB	2R0	4	0	5,209,351:06:0

1398	99	285	04:31:37.333	125FN4A	37IST	1,0,0,OFF,0,0,0		Chopper ON, Sync, 63Hz (Ref)	260	4	0	5,209,353:84:0
1399	99	285	04:31:37.333	125FN	NIMSINIT	GS		##### GROUP START INIT	260	4	0	5,209,353:84:0
1400	99	285	04:32:38.000	125FN4B	37IST	1,1,0,OFF,0,0,0		Chopper OFF, N/A, 63Hz (Ref)	2O0	4	0	5,209,354:84:0
1401	99	285	04:33:38.666	125FN4C	37MB	0,0,0,0,0,0		Selects mirror (spatial) edit table	2O0	4	0	5,209,355:84:0
1402	99	285	04:33:38.666	125FN11A	NIMSINIT	GE		##### GROUP END INIT	2O0	4	0	5,209,355:84:0
1403	99	285	04:33:47.400	24NNCHOPOF01-		-----STOP-------			2O0	4	0	: :
1404	99	285	05:33:22.000	165BB4A	7SCAN	NORM,122.467999,		Check S/P Position	2O0	4	0	5,209,414:90:0
1405	99	285	05:35:15.333		DMS:	: *E4-DELAY		RDY, TRACK 1, FWD, TIC 5701.12 +/- 12	2O0	4	0	5,209,416:78:0
1406	99	285	05:35:15.333	175KB422A6A	6DMSC	R7,1		DMS Control Tape runup 7.68kbp	2O0	4	0	5,209,416:78:0
1407	99	285	05:35:22.000		DMS:	: *RUNUP		R7, TRACK 1, FWD, TIC 5701.12 +/- 12	2O0	4	0	5,209,416:88:0
1408	99	285	05:35:23.333	175KB176A6A	6TMREC	LPW		7.68 KBPS LOW RATE SCI PWS RECORD Record	2O0	4	0	5,209,416:90:0
1409	99	285	05:35:23.400		DMS:	: *AT_SPD		R7, TRACK 1, FWD, TIC 5701.24 +/- 12	2O0	4	0	5,209,416:90:1
1410	99	285	05:35:23.400		DMS:	: *RECORD		R7, TRACK 1, FWD, TIC *5701.24 +/- 12	2O0	4	0	5,209,416:90:1
1411	99	285	05:35:46.666		DMS:	: *RUNDOWN		R7, TRACK 1, FWD, TIC *5706.69 +/- 12	2O0	4	0	5,209,417:34:0
1412	99	285	05:35:46.666	175KB422A6B	6DMSC	RDY,0		DMS Control Tape stop	2O0	4	0	5,209,417:34:0
1413	99	285	05:35:47.866		DMS:	: *READY		RDY, TRACK 1, FWD, TIC *5706.75 +/- 12	2O0	4	0	5,209,417:35:8
1414	99	285	05:56:36.666	432JB6B	6RTDS2	NIMNCG,AACDSL,RT		AACS DESELECT	2O0	4	0	5,209,437:89:0
1415	99	285	05:57:04.000	20VL4A	7SAFE	STOP		S/P NO MOVEMENT	2O0	4	0	5,209,438:39:0
1416	99	285	05:57:54.000	20VL4B	7SLEW	DIS,POS,0.0		Stator movement	2O0	4	0	5,209,439:23:0
1417	99	285	05:59:40.000	176WA6A	6TMREC	IPB		INITIATE PLAYBACK (PB CONTROL) Record Mod	2O0	4	0	5,209,441:00:0
1418	99	286	03:29:50.666	176SP6A	6TMREC	PPB		PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,210,717:00:0
1419	99	286	03:33:05.333	20SZ4A	7SAFE	UNSTOW		S/P TO 153 deg cone	2O0	4	0	5,210,720:19:0
1420	99	286	03:37:04.000	20SP4A	7SAFE	STOP		S/P NO MOVEMENT	2O0	4	0	5,210,724:13:0
1421	99	286	03:37:54.000	20SP4B	7SLEW	DIS,POS,0.0		Stator movement	2O0	4	0	5,210,724:88:0
1422	99	286	03:40:58.000	176SQ6A	6TMREC	RPB		RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,210,728:00:0
1423	99	286	16:33:27.266	176SL6A	6TMREC	PPB		PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,211,492:00:0
1424	99	286	17:08:59.933	20SV4I	7MODE	INT		AACS INERTIAL MODE	2O0	4	0	5,211,527:14:0
1425	99	286	17:23:59.933	20SV4K	7SLEW	INIT,POS,17.45		Stator movement	2O0	4	0	5,211,541:90:0
1426	99	286	17:35:59.933	20SV4L	7SLEW	DIS,POS,0.0		Stator movement	2O0	4	0	5,211,553:78:0
1427	99	286	17:42:59.933	20SV4M	7SLEW	INIT,NEG,17.45		Stator movement	2O0	4	0	5,211,560:71:0
1428	99	286	17:54:59.933	20SV4N	7SLEW	DIS,POS,0.0		Stator movement	2O0	4	0	5,211,572:59:0
1429	99	286	18:06:59.933	20SV4AH	7MODE	CRU		AACS CRUISE MODE	2O0	4	0	5,211,584:47:0
1430	99	286	18:23:03.933	20SU4A	7SAFE	STOP		S/P NO MOVEMENT	2O0	4	0	5,211,600:37:0
1431	99	286	18:23:53.933	20SU4B	7SLEW	DIS,POS,0.0		Stator movement	2O0	4	0	5,211,601:21:0
1432	99	286	18:24:40.600	176TE6A	6TMREC	RPB		RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,211,602:00:0
1433	99	287	01:06:03.933	431YL6A	6RCDSL	DDSNCG,PLSNCG,EP		Record Deselect (DDS o	2O0	4	0	5,211,998:89:0
1434	99	287	01:09:19.933	20YC6A	6HICON				2O0	4	0	5,212,002:19:0
1435	99	287	01:10:07.933	431YM6A	6RCSEL	DDSNCG,PLSNCG,EP		Record Select (DDS onl	2O0	4	0	5,212,003:00:0
1436	99	287	02:29:59.933	41AB99A	POWER	PWR MODE change		Change to Maneuver/Playback Mode	2O0	4	0	5,212,081:90:0
1437	99	287	02:31:53.933	41AB3G	40T1P		1	PCT Heater 1 ON (primary relay)	2O0	4	0	5,212,083:79:0
1438	99	287	02:32:03.933	41AB3H	40T1P		2	PCT Heater 1 ON (primary relay)	2O0	4	0	5,212,084:03:0
1439	99	287	02:32:13.933	41AB3I	40T2		1	PCT Heater 2 ON	2O0	4	0	5,212,084:18:0
1440	99	287	02:32:24.600	41AB3J	40T2		2	PCT Heater 2 ON	2O0	4	0	5,212,084:34:0
1441	99	287	02:49:13.266	176SA6A	6TMREC	PPB		PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,212,101:00:0
1442	99	287	02:52:05.266	20KA4A	7SAFE	UNSTOW		S/P TO 153 deg cone	2O0	4	0	5,212,103:76:0
1443	99	287	02:59:59.933		DMS:	: READY		RDY, TRACK 1, FWD, TIC 5706.75 +/- 12	2O0	4	0	5,212,111:60:0
1444	99	287	03:00:00.000	20A3EY	37C1PR	Final Condition		Optics Heater 1 OFF (primary relay)	2O0	4	0	5,212,111:60:1
1445	99	287	03:00:00.000	20A3EZ	37C2PR	Final Condition		Optics Heater 2 OFF (primary relay)	2O0	4	0	5,212,111:60:1
1446	99	287	03:00:00.000	20A3FA	37F1PR	Final Condition		Radiator Flash Heater OFF (primary relay)	2O0	4	0	5,212,111:60:1
1447	99	287	03:00:00.000	20A3FB	37F2PR	Final Condition		Shield Flash Heater OFF (primary relay)	2O0	4	0	5,212,111:60:1
1448	99	287	03:00:00.000	20A3FD	40HRPR	Final Condition		RCT Heater OFF (primary relay)	2O0	4	0	5,212,111:60:1
1449	99	287	03:00:00.000	20A3FE	40T1P	Final Condition		PCT Heater 1 ON (primary relay)	2O0	4	0	5,212,111:60:1
1450	99	287	03:00:00.000	20A3FF	40T2	Final Condition		PCT Heater 2 ON	2O0	4	0	5,212,111:60:1
1451	99	287	03:00:00.000	20A3EX	37HR	Final Condition		Replacement Heaters OFF	2O0	4	0	5,212,111:60:1
1452	99	287	03:00:00.000	20A3EW	37A	Final Condition		NIMS Power ON	2O0	4	0	5,212,111:60:1

			Sequence:	I24BFC		Created: 9/30/99	Begin: 99-287/03:00:00 Finish: 99-329/04:00:00				
Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
1	99	287	02:59:59.933		DMS:	: READY	RDY, TRACK 1, FWD, TIC 5862.69 +/- 12	2O0	4	0	5,212,111:60:0
2	**99**	**287**	**03:00:00.000**	**20A3EW**	**37A**	**CMD,37A,20A3EW,,**	**NIMS Power ON**	**2O0**	**4**	**0**	**5,212,111:60:1**
3	**99**	**287**	**03:00:00.000**	**20A3EX**	**37HR**	**CMD,37HR,20A3EX,**	**Replacement Heaters OFF**	**2O0**	**4**	**0**	**5,212,111:60:1**
4	**99**	**287**	**03:00:00.000**	**20A3EY**	**37C1PR**	**CMD,37C1PR,20A3E**	**Optics Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,212,111:60:1**
5	**99**	**287**	**03:00:00.000**	**20A3EZ**	**37C2PR**	**CMD,37C2PR,20A3E**	**Optics Heater 2 OFF (primary relay)**	**2O0**	**4**	**0**	**5,212,111:60:1**
6	**99**	**287**	**03:00:00.000**	**20A3FA**	**37F1PR**	**CMD,37F1PR,20A3F**	**Radiator Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,212,111:60:1**
7	**99**	**287**	**03:00:00.000**	**20A3FB**	**37F2PR**	**CMD,37F2PR,20A3F**	**Shield Flash Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,212,111:60:1**
8	**99**	**287**	**03:00:00.000**	**20A3FD**	**40HRPR**	**CMD,40HRPR,20A3F**	**RCT Heater OFF (primary relay)**	**2O0**	**4**	**0**	**5,212,111:60:1**
9	**99**	**287**	**03:00:00.000**	**20A3FE**	**40T1P**	**CMD,40T1P,20A3FE**	**PCT Heater 1 ON (primary relay)**	**2O0**	**4**	**0**	**5,212,111:60:1**
10	**99**	**287**	**03:00:00.000**	**20A3FF**	**40T2**	**CMD,40T2,20A3FF,**	**PCT Heater 2 ON**	**2O0**	**4**	**0**	**5,212,111:60:1**
11	**99**	**287**	**03:01:19.933**	**432NA6B**	**6RTDS2**	**NIMDSL,AACDSL,RT**	**NIMS R/T DESELECTAACS DESELECT**	**2O0**	**4**	**0**	**5,212,112:89:0**
12	99	287	03:02:19.266	488AA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,212,113:87:0
13	99	287	03:05:03.933	20WA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,212,116:61:0
14	99	287	03:05:53.933	20WA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,212,117:45:0
15	99	287	03:07:25.266	176SA6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,212,119:00:0
16	99	287	03:27:55.266	488AA6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,212,139:25:0
17	99	287	03:55:16.600	488AA6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,212,166:30:0
18	99	287	04:19:49.933	488AA6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,212,190:56:0
19	99	287	09:19:55.266	488AB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,212,487:37:0
20	99	287	10:08:59.266	488AB6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,212,535:85:0
21	99	287	11:55:20.600	488AB6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,212,641:11:0
22	99	287	11:57:47.266	488AB6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,212,643:49:0
23	99	287	11:59:27.266	488AB6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,212,645:17:0
24	99	287	16:00:59.200	488AC6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,212,884:06:0
25	99	287	17:49:47.200	488AC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,212,991:61:0
26	99	287	18:30:19.200	488AC6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,213,031:69:0
27	99	287	19:12:59.200	488AC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,213,073:87:0
28	99	287	19:43:53.866	488AC6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,213,104:48:0
29	99	287	20:10:43.200	488AD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,213,131:05:0
30	99	288	03:33:53.866	488AE6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,213,569:33:0
31	99	288	04:05:43.200	488AE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,213,600:76:0
32	99	288	10:02:35.200	488AF6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,213,953:71:0
33	99	288	10:25:16.533	488AF6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,213,976:20:0
34	99	288	10:49:49.866	488AF6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,214,000:46:0
35	99	288	11:44:41.200	488AF6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,214,054:69:0
36	99	288	11:47:07.200	488AF6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,214,057:15:0
37	99	288	11:48:47.200	488AG6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,214,058:74:0
38	99	288	12:51:39.866	176QA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,214,121:00:0
39	99	288	12:56:19.866	20UM4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,214,125:56:0
40	99	288	13:15:19.866	20UM4D	**7MODE**	**INT**	AACS INERTIAL MODE	2O0	4	0	5,214,144:37:0
41	99	288	15:52:59.866	488AG6B	6TMSED	NORM,AH8	Sci, Eng, and D/L Chan	2O0	4	0	5,214,300:31:0
42	99	288	16:00:59.200	488AG6C	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	2O0	4	0	5,214,308:22:0
43	99	288	17:45:31.200	488AG6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,411:57:0
44	99	288	18:26:03.200	488AH6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,214,451:65:0
45	99	288	19:08:43.200	488AH6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,493:83:0
46	99	288	19:38:53.866	488AH6C	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,523:69:0
47	99	288	20:05:43.200	488AH6D	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,550:26:0
48	99	289	01:41:15.133	488AI6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	2O0	4	0	5,214,882:12:0
49	99	289	02:17:31.133	488AI6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,918:00:0
50	99	289	02:53:53.800	488AI6C	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,953:89:0
51	99	289	03:00:59.800	488AI6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,961:00:0
52	99	289	03:01:03.800	176QJ6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,214,961:06:0
53	99	289	03:04:59.800	444QA443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,214,964:87:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
54	99	289	03:10:03.800	20QA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,214,969:88:0
55	99	289	03:10:53.800	20QA4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,214,970:72:0
56	99	289	03:13:07.800	176QB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,214,973:00:0
57	99	289	03:25:43.133	488AI6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,214,985:41:0
58	99	289	09:54:03.133	488AJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,215,369:47:0
59	99	289	10:20:16.466	488AJ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,215,395:41:0
60	99	289	10:44:49.800	488AJ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,215,419:67:0
61	99	289	11:40:25.133	488AJ6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,215,474:65:0
62	99	289	11:42:51.133	488AJ6E	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,215,477:11:0
63	99	289	11:44:31.133	488AK6A	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,215,478:70:0
64	99	289	15:54:35.133	488AK6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,215,726:08:0
65	99	289	17:41:15.133	488AK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,215,831:53:0
66	99	289	18:19:39.133	488AL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,215,869:51:0
67	99	289	19:02:19.133	488AL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,215,911:69:0
68	99	289	19:33:54.466	488AL6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,215,943:00:0
69	99	289	20:00:44.466	488AL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,215,969:49:0
70	99	290	03:08:43.133	488AM6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,216,392:74:0
71	99	290	03:40:17.800	488AM6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,216,424:04:0
72	99	290	04:04:51.133	488AM6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,216,448:30:0
73	99	290	09:04:59.066	488AM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,216,745:15:0
74	99	290	09:54:03.066	488AN6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,216,793:63:0
75	99	290	11:36:09.066	488AN6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,216,894:61:0
76	99	290	11:38:35.066	488AN6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,216,897:07:0
77	99	290	11:40:15.066	488AN6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,216,898:66:0
78	99	290	15:50:19.066	488AN6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,217,146:04:0
79	99	290	17:34:51.066	488AO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,217,249:39:0
80	99	290	18:15:23.066	488AO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,217,289:47:0
81	99	290	18:32:27.066	488AO6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,217,306:36:0
82	99	290	20:34:03.066	488AO6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,217,426:60:0
83	99	291	02:15:23.066	488AP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,217,764:22:0
84	99	291	03:02:19.066	488AP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,217,810:60:0
85	99	291	09:00:43.066	488AQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,218,165:11:0
86	99	291	09:47:39.066	488AQ6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,218,211:49:0
87	**99**	**291**	**09:59:59.733**	**480EO6A**	**6MROH**	**17,5453,22,B2**	**read from B1A2B17,5453,22,B**	**2O0**	**4**	**0**	**5,218,223:68:0**
88	99	291	11:29:44.400	488AQ6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,218,312:46:0
89	99	291	11:32:11.066	488AQ6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,218,314:84:0
90	99	291	11:33:51.066	488AQ6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,218,316:52:0
91	99	291	15:46:03.000	488AR6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,218,566:00:0
92	99	291	17:30:35.000	488AR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,218,669:35:0
93	99	291	18:11:07.000	488AR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,218,709:43:0
94	99	291	18:53:47.000	488AR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,218,751:61:0
95	99	291	19:23:54.333	488AR6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,218,781:42:0
96	99	291	19:50:44.333	488AS6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,218,808:00:0
97	99	292	03:02:19.000	488AT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,219,234:76:0
98	99	292	03:30:17.666	488AT6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,219,262:46:0
99	99	292	03:54:51.000	488AT6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,219,286:72:0
100	99	292	04:56:44.333	176UW6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,219,348:00:0
101	99	292	05:02:00.333	20UQ4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,219,353:19:0
102	99	292	05:03:00.333	20UQ4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	5,219,354:18:0
103	99	292	05:05:00.333	20UQ4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,219,356:16:0
104	99	292	05:10:30.333	20UQ4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	2O0	4	0	5,219,361:56:0
105	99	292	05:10:31.000	20UQ4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	2O0	4	0	5,219,361:57:0
106	99	292	05:10:51.000	20UQ4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	2O0	4	0	5,219,361:87:0
107	99	292	05:10:51.666	20UQ4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	2O0	4	0	5,219,361:88:0
108	99	292	05:11:11.666	20UQ4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,219,362:27:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
109	99	292	05:11:12.333	20UQ4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,219,362:28:0	
110	99	292	05:11:22.333	20UQ4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	2O0	4	0	5,219,362:43:0	
111	99	292	05:11:23.000	20UQ4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	2O0	4	0	5,219,362:44:0	
112	99	292	05:11:33.000	20UQ4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	2O0	4	0	5,219,362:59:0	
113	99	292	05:11:33.666	20UQ4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	2O0	4	0	5,219,362:60:0	
114	99	292	05:13:20.333	20UQ4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	2O0	4	0	5,219,364:38:0	
115	99	292	05:13:21.000	20UQ4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	2O0	4	0	5,219,364:39:0	
116	99	292	05:13:41.000	20UQ4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	2O0	4	0	5,219,364:69:0	
117	99	292	05:13:41.666	20UQ4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	2O0	4	0	5,219,364:70:0	
118	99	292	05:14:01.666	20UQ4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,219,365:09:0	
119	99	292	05:14:02.333	20UQ4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,219,365:10:0	
120	99	292	05:14:12.333	20UQ4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	2O0	4	0	5,219,365:25:0	
121	99	292	05:14:13.000	20UQ4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	2O0	4	0	5,219,365:26:0	
122	99	292	05:14:23.000	20UQ4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	2O0	4	0	5,219,365:41:0	
123	99	292	05:14:23.666	20UQ4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	2O0	4	0	5,219,365:42:0	
124	99	292	05:15:20.333	20UQ4Z	**7MODE**	**CRU**	AACS CRUISE MODE	2O0	4	0	5,219,366:36:0	
125	99	292	05:40:04.333	20UW4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	2O0	4	0	5,219,390:78:0	
126	99	292	05:40:54.333	20UW4B	7SLEW	DIS,POS,0.0	Stator movement	2O0	4	0	5,219,391:62:0	
127	99	292	05:42:14.333	176UX6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	2O0	4	0	5,219,393:00:0	
128	99	292	08:54:19.000	488AT6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,219,582:88:0	
129	99	292	09:43:23.000	488AU6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,219,631:45:0	
130	99	292	11:25:29.000	488AU6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,219,732:43:0	
131	99	292	11:27:55.000	488AU6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,219,734:80:0	
132	99	292	11:29:35.000	488AU6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,219,736:48:0	
133	99	292	15:39:39.000	488AU6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,219,983:77:0	
134	99	292	17:24:11.000	488AV6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,220,087:21:0	
135	99	292	18:11:07.000	488AV6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,220,133:59:0	
136	99	292	18:28:11.000	488AV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,220,150:48:0	
137	99	292	20:27:39.000	488AV6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,220,268:62:0	
138	99	293	02:04:42.933	488AW6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,220,602:04:0	
139	99	293	02:58:02.933	488AW6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,220,654:72:0	
140	99	293	08:50:02.933	488AX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,221,002:84:0	
141	99	293	09:36:58.933	488AX6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,221,049:31:0	
142	99	293	11:25:28.933	488AX6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,221,156:59:0	
143	99	293	11:27:54.933	488AX6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,221,159:05:0	
144	99	293	11:29:34.933	488AX6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,221,160:64:0	
145	99	293	15:31:06.933	488AY6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,221,399:53:0	
146	99	293	17:19:54.933	488AY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,221,507:17:0	
147	99	293	18:04:42.933	488AY6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,221,551:45:0	
148	99	293	18:09:32.266	488AY6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,221,556:24:0	
149	99	293	18:11:06.933	488AY6E	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	2O0	4	0	5,221,557:75:0	
150	99	293	18:19:38.933	488AZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,221,566:24:0	
151	99	293	20:14:34.266	488AZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,221,679:84:0	
152	99	293	21:23:55.600	488AZ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,221,748:47:0	
153	99	293	21:50:44.933	488AZ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,221,775:04:0	
154	99	294	02:01:27.600	431MA6A	6RCSEL	DDSSEL,PLSNCG,EP	Record Select (DDS onl	2O0	4	0	5,222,023:00:0	
155	99	294	02:58:02.933	488BA6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,222,078:88:0	
156	99	294	03:20:18.933	488BA6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,222,100:90:0	
157	99	294	03:44:51.600	488BA6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,222,125:24:0	
158	99	294	08:45:46.866	488BA6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,222,422:80:0	
159	99	294	09:32:42.866	488BB6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,222,469:27:0	
160	99	294	11:25:28.866	488BB6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,222,580:75:0	
161	99	294	11:27:54.866	488BB6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,222,583:21:0	
162	99	294	11:29:34.866	488BB6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	2O0	4	0	5,222,584:80:0	
163	99	294	15:24:42.866	488BB6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,222,817:39:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
164	99	294	17:15:38.866	488BC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,222,927:13:0	
165	99	294	17:56:10.866	488BC6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,222,967:21:0	
166	99	294	18:13:14.866	488BC6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,222,984:10:0	
167	99	294	20:23:22.866	488BC6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,223,112:74:0	
168	99	295	01:56:10.866	488BD6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,223,441:87:0	
169	99	295	02:53:46.866	488BD6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	2O0	4	0	5,223,498:84:0	
170	99	295	08:39:22.866	488BE6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	2O0	4	0	5,223,840:66:0	
171	**99**	**295**	**08:59:56.866**	**24NNPCTRLT01-**		**-----START------**		**2O0**	**4**	**0**	**: :**	
172	**99**	**295**	**09:00:00.866**	**41FB3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,223,861:12:0**	
173	**99**	**295**	**09:00:10.866**	**41FB3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**2O0**	**4**	**0**	**5,223,861:27:0**	
174	**99**	**295**	**09:00:20.866**	**41FB3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**5,223,861:42:0**	
175	**99**	**295**	**09:00:30.866**	**41FB3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**2O0**	**4**	**0**	**5,223,861:57:0**	
176	99	295	09:17:46.866	488BE6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,223,878:64:0	
177	99	295	09:48:56.866	488BE6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,223,909:48:0	
178	99	295	10:15:46.200	488BE6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	2O0	4	0	5,223,936:05:0	
179	99	295	15:03:52.800	176FB6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	2O0	4	0	5,224,221:00:0	
180	99	295	15:07:01.466	444FB443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	2O0	4	0	5,224,224:10:0	
181	99	295	15:11:01.466	444FB443A4B	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	2O0	4	0	5,224,228:06:0	
182	99	295	15:20:01.466	444FB443A4C	**7CLK**	**17.45,0.0**	Check S/P Position	2O0	4	0	5,224,236:88:0	
183	99	295	15:23:00.800	125FB	NIMSINIT	GS	##### GROUP START INIT	2O0	4	0	5,224,239:84:0	
184	**99**	**295**	**15:23:00.800**	**125FB4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**260**	**4**	**0**	**5,224,239:84:0**	
185	**99**	**295**	**15:24:01.466**	**125FB4B**	**37IST**	**1,2,0,OFF,0,1,1**	**Chopper ON, Sync, Chopper (Ref)Gain State**	**4R0**	**4**	**0**	**5,224,240:84:0**	
186	99	295	15:25:02.133	125FB11A	NIMSINIT	GE	##### GROUP END INIT	4R0	4	0	5,224,241:84:0	
187	**99**	**295**	**15:25:02.133**	**125FB4C**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**4R0**	**4**	**0**	**5,224,241:84:0**	
188	99	295	15:28:04.133	127FB	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	5,224,244:84:0	
189	**99**	**295**	**15:28:04.133**	**127FB4A**	**37IOP**	**3,0**	**Long Map, Grating Start Position =00**	**4R3**	**4**	**0**	**5,224,244:84:0**	
190	**99**	**295**	**15:28:04.800**	**127FB4B**	**37ETB**	**0A,CA,19,FF,C0,1**	**Loads wavelength edit table**	**4R3**	**4**	**0**	**5,224,244:85:0**	
191	99	295	15:28:12.800	127FB11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,224,245:06:0	
192	**99**	**295**	**15:28:28.800**	**432FB6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**5,224,245:30:0**	
193	**99**	**295**	**15:30:28.800**	**432FC6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**5,224,247:28:0**	
194	99	295	15:31:10.800	192FC4A	**7CONE**	**17.0,54.88**	Check S/P Position	4R3	4	0	5,224,248:00:0	
195	99	295	15:31:11.466	192FC4B	**7CLK**	**17.0,244.07**	Check S/P Position	4R3	4	0	5,224,248:01:0	
196	**99**	**295**	**15:34:32.800**	**432FD6A**	**6RTSL2**	**NIMSEL,AACNCG,RT**	**NIMS R/T SELECT**	**4R3**	**4**	**0**	**5,224,251:30:0**	
197	**99**	**295**	**15:44:38.133**	**432FE6A**	**6RTDS2**	**NIMDSL,AACNCG,RT**	**NIMS R/T DESELECT**	**4R3**	**4**	**0**	**5,224,261:28:0**	
198	99	295	15:45:15.466	127FE	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,224,261:84:0	
199	**99**	**295**	**15:45:15.466**	**127FE4A**	**37IOP**	**0,0**	**Safe, Grating Start Position =00**	**4R0**	**4**	**0**	**5,224,261:84:0**	
200	**99**	**295**	**15:45:16.133**	**127FE4B**	**37ETB**	**04,C4,02,00,00**	**Loads wavelength edit table**	**4R0**	**4**	**0**	**5,224,261:85:0**	
201	99	295	15:45:24.133	127FE11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	5,224,262:06:0	
202	99	295	15:45:24.133	20FE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4R0	4	0	5,224,262:06:0	
203	**99**	**295**	**15:47:16.800**	**125FE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**5,224,263:84:0**	
204	99	295	15:47:16.800	125FE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	5,224,263:84:0	
205	**99**	**295**	**15:48:17.466**	**125FE4B**	**37IST**	**1,1,0,OFF,0,0,0**	**Chopper OFF, N/A, 63Hz (Ref)**	**4O0**	**4**	**0**	**5,224,264:84:0**	
206	**99**	**295**	**15:49:18.133**	**125FE4C**	**37MB**	**0,0,0,0,0,0**	**Selects mirror (spatial) edit table**	**4O0**	**4**	**0**	**5,224,265:84:0**	
207	99	295	15:49:18.133	125FE11A	NIMSINIT	GE	##### GROUP END INIT	4O0	4	0	5,224,265:84:0	
208	99	295	15:50:30.133	444FF443A4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,224,267:10:0	
209	99	295	15:54:30.133	444FF443A4B	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,224,271:06:0	
210	99	295	16:04:36.800	41FG99A	**POWER**	**PWR MODE change**	Change to Maneuver/Playback Mode	4O0	4	0	5,224,281:06:0	
211	**99**	**295**	**16:06:30.800**	**41FG3G**	**40T1P**	**1**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**5,224,282:86:0**	
212	**99**	**295**	**16:06:40.800**	**41FG3H**	**40T1P**	**2**	**PCT Heater 1 ON (primary relay)**	**4O0**	**4**	**0**	**5,224,283:10:0**	
213	**99**	**295**	**16:06:50.800**	**41FG3I**	**40T2**	**1**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**5,224,283:25:0**	
214	**99**	**295**	**16:07:00.800**	**41FG3J**	**40T2**	**2**	**PCT Heater 2 ON**	**4O0**	**4**	**0**	**5,224,283:40:0**	
215	99	295	16:08:43.466	20FH4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,224,285:12:0	
216	99	295	16:09:33.466	20FH4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,224,285:87:0	
217	99	295	16:10:36.800	176FH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,224,287:00:0	
218	**99**	**295**	**16:50:06.866**	**24NNPCTRLT01-**		**-----STOP-------**		**4O0**	**4**	**0**	**: :**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
219	99	295	17:24:10.800	488BF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,224,359:69:0	
220	99	295	17:54:02.800	488BF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,224,389:27:0	
221	99	295	18:02:34.800	488BF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,224,397:67:0	
222	99	295	18:08:58.800	488BF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,224,404:06:0	
223	99	295	18:53:57.466	488BF6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,224,448:50:0	
224	99	295	19:20:47.466	488BG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,224,475:08:0	
225	99	295	20:23:22.800	488BG6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,224,536:90:0	
226	99	296	00:00:00.133	481UC4A	7VECT		Inert vect update UTC	4O0	4	0	5,224,751:21:0	
227	99	296	01:49:46.800	488BH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,224,859:73:0	
228	99	296	02:53:46.800	488BH6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,224,923:09:0	
229	99	296	08:35:06.800	488BI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,225,260:62:0	
230	99	296	09:28:26.800	488BI6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,225,313:39:0	
231	99	296	11:25:28.800	488BI6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,225,429:16:0	
232	99	296	11:27:54.800	488BI6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,225,431:53:0	
233	99	296	11:29:34.800	488BI6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,225,433:21:0	
234	99	296	15:05:30.800	488BJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,225,646:72:0	
235	99	296	17:04:58.800	488BJ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,225,764:86:0	
236	99	296	17:49:46.800	488BJ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,225,809:23:0	
237	99	296	18:53:46.800	488BJ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,225,872:50:0	
238	99	296	19:03:58.800	488BJ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,225,882:58:0	
239	99	296	19:30:48.133	488BK6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,225,909:15:0	
240	99	297	03:04:26.733	488BL6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,226,357:75:0	
241	99	297	04:20:22.066	488BL6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,226,432:83:0	
242	99	297	04:44:54.733	488BL6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,226,457:17:0	
243	99	297	08:35:06.733	488BL6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,226,684:78:0	
244	99	297	09:22:02.733	488BM6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,226,731:25:0	
245	99	297	11:25:28.733	488BM6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,226,853:32:0	
246	99	297	11:27:54.733	488BM6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,226,855:69:0	
247	99	297	11:29:34.733	488BM6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,226,857:37:0	
248	99	297	14:54:50.733	488BM6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,227,060:38:0	
249	99	297	17:00:42.733	488BN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,227,184:82:0	
250	99	297	17:45:30.733	488BN6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,227,229:19:0	
251	99	297	18:02:34.733	488BN6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,227,246:08:0	
252	99	297	20:27:38.733	488BN6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,227,389:51:0	
253	99	298	01:39:06.733	488BO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,227,697:55:0	
254	99	298	02:47:22.733	488BO6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,227,765:11:0	
255	99	298	08:30:50.666	488BP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,228,104:74:0	
256	99	298	09:22:02.666	488BP6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,228,155:41:0	
257	99	298	11:25:28.666	488BP6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,228,277:48:0	
258	99	298	11:27:54.666	488BP6D	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,228,279:85:0	
259	99	298	11:29:34.666	488BP6E	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,228,281:53:0	
260	99	298	14:44:10.666	488BQ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,228,474:04:0	
261	99	298	16:54:18.666	488BQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,228,602:68:0	
262	99	298	17:39:06.666	488BQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,228,647:05:0	
263	99	298	18:32:26.666	488BQ6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,228,699:73:0	
264	99	298	18:54:00.666	488BQ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,228,721:12:0	
265	99	298	19:20:50.000	488BR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,228,747:60:0	
266	99	299	02:43:06.666	488BS6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,185:07:0	
267	99	299	02:55:24.000	488BS6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,197:21:0	
268	99	299	03:19:56.666	488BS6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,221:46:0	
269	99	299	08:24:26.666	488BS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,229,522:60:0	
270	99	299	09:17:46.666	488BT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,575:37:0	
271	99	299	11:29:44.000	488BT6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,705:83:0	
272	99	299	11:32:10.666	488BT6C	6TMSED	FILL,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,229,708:30:0	
273	99	299	11:33:50.666	488BT6D	6TMSED	NORM,AL8	Sci, Eng, and D/L Chan	4O0	4	0	5,229,709:89:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
274	99	299	12:52:59.933	488BT6E	6TMSED	NORM,AH8	Sci, Eng, and D/L Chan	4O0	4	0	5,229,788:24:0	
275	99	299	12:56:46.600	176UA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,229,792:00:0	
276	99	299	13:05:59.933	20RP4C	7STAT	10.00,204.79,-5.	Stator inertial point	4O0	4	0	5,229,801:11:0	
277	**99**	**299**	**13:06:11.933**	**20RP6D**	**6MROH**	**7,6744,0,A10**	**read from AACSA7,6744,0,A10**	**4O0**	**4**	**0**	**5,229,801:29:0**	
278	99	299	13:25:01.933	490UA412A4B	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,229,819:86:0	
279	99	299	13:29:59.933	490UA412A4D	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,229,824:78:0	
280	99	299	13:30:19.933	20RP4D	7STAT	17.45,204.79,-5.	Stator inertial point	4O0	4	0	5,229,825:17:0	
281	99	299	13:34:09.933	490UA412A4E	7VECT		Inert vect update UTC	4O0	4	0	5,229,828:89:0	
282	99	299	13:34:13.933	490UA412A4F	7TURN	2,RTH	ALERT Thruster	4O0	4	0	5,229,829:04:0	
283	99	299	13:38:01.933	490UA412A406A4A	7STAR	11,610,278.81	Star catalog update	4O0	4	0	5,229,832:73:0	
284	99	299	13:38:03.933	490UA412A406A4B	7STAR	2,111,285.778,13	Star catalog update	4O0	4	0	5,229,832:76:0	
285	99	299	13:38:05.933	490UA412A406A4C	7STAR	3,371,138.16	Star catalog update	4O0	4	0	5,229,832:79:0	
286	99	299	13:38:07.933	490UA412A406A4D	7STAR	4,317,120.46	Star catalog update	4O0	4	0	5,229,832:82:0	
287	99	299	13:38:09.933	490UA412A406A4E	7STAR	5,0,0.0,0.0	Star catalog update	4O0	4	0	5,229,832:85:0	
288	99	299	13:38:11.933	490UA412A406A4F	7STAR	6,0,0.0,0.0	Star catalog update	4O0	4	0	5,229,832:88:0	
289	99	299	13:48:05.933	20RP4F	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,229,842:69:0	
290	99	299	13:56:09.933	490UA412A4G	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,229,850:67:0	
291	99	299	14:35:38.600	488BU6A	6TMSED	NORM,AH7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,889:71:0	
292	99	299	15:30:03.933	20US4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,229,943:55:0	
293	99	299	15:30:53.933	20US4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,229,944:39:0	
294	99	299	15:30:59.933	488BU6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,229,944:48:0	
295	99	299	15:32:29.266	176UB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,229,946:00:0	
296	99	299	16:45:46.600	488BU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,230,018:44:0	
297	99	299	17:30:34.600	488BU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,230,062:72:0	
298	99	299	18:17:30.600	488BU6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,230,109:19:0	
299	99	300	01:49:46.600	488BV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,230,556:46:0	
300	99	300	02:13:14.600	488BV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,230,579:65:0	
301	99	300	03:04:01.933	488BV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,230,629:86:0	
302	99	300	03:30:51.266	488BV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,230,656:43:0	
303	99	300	08:20:10.600	488BW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,230,942:56:0	
304	99	300	08:37:14.600	488BW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,230,959:45:0	
305	99	300	09:17:39.266	488BW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,230,999:42:0	
306	99	300	09:49:46.600	488BW6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,231,031:21:0	
307	99	300	09:51:20.600	488BW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,231,032:71:0	
308	99	300	11:52:59.933	488BX6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,231,153:09:0	
309	99	300	11:56:56.600	176UC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,231,157:00:0	
310	99	300	12:23:29.933	20RN4I	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,231,183:24:0	
311	99	300	12:38:29.933	20RN4K	7SLEW	INIT,POS,17.45	Stator movement	4O0	4	0	5,231,198:09:0	
312	99	300	12:50:29.933	20RN4L	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,231,209:88:0	
313	99	300	12:57:29.933	20RN4M	7SLEW	INIT,NEG,17.45	Stator movement	4O0	4	0	5,231,216:81:0	
314	99	300	13:09:29.933	20RN4N	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,231,228:69:0	
315	99	300	13:16:29.933	20RN4O	7SLEW	INIT,POS,4.36	Stator movement	4O0	4	0	5,231,235:62:0	
316	99	300	13:28:29.933	20RN4P	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,231,247:50:0	
317	99	300	13:35:29.933	20RN4Q	7SLEW	INIT,NEG,4.36	Stator movement	4O0	4	0	5,231,254:43:0	
318	99	300	13:47:29.933	20RN4R	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,231,266:31:0	
319	99	300	13:59:29.933	20RN4AH	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,231,278:19:0	
320	99	300	14:14:59.933	488BX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,231,293:49:0	
321	99	300	14:15:03.933	20UC4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,231,293:55:0	
322	99	300	14:15:53.933	20UC4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,231,294:39:0	
323	99	300	14:17:29.266	176UD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,231,296:00:0	
324	99	300	16:15:54.600	488BX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,231,413:11:0	
325	99	300	17:24:10.600	488BX6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,231,480:58:0	
326	99	300	17:47:38.600	488BX6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,231,503:77:0	
327	99	300	18:32:39.266	488BY6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,231,548:33:0	
328	99	300	19:11:45.933	488BY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,231,587:04:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
329	99	300	19:17:14.600	488BY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,231,592:42:0	
330	99	301	03:00:10.533	488BZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,232,050:28:0	
331	99	301	04:29:46.533	488BZ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,232,138:84:0	
332	99	301	04:55:22.533	488BZ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,232,164:22:0	
333	99	301	05:40:26.533	488BZ6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,232,208:74:0	
334	99	301	06:04:59.866	488BZ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,232,233:09:0	
335	99	301	08:15:54.533	488CA6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,232,362:52:0	
336	99	301	08:32:58.533	488CA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,232,379:41:0	
337	99	301	09:17:40.533	488CA6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,232,423:60:0	
338	99	301	09:39:06.533	488CA6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,232,444:78:0	
339	99	301	09:44:56.533	488CA6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,232,450:57:0	
340	99	301	16:09:30.533	488CB6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,232,830:88:0	
341	99	301	17:24:10.533	488CB6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,232,904:74:0	
342	99	301	17:47:38.533	488CB6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,232,928:02:0	
343	99	301	18:27:41.200	488CB6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,232,967:57:0	
344	99	301	19:11:47.866	488CB6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,233,011:23:0	
345	99	301	19:12:58.533	488CC6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,233,012:38:0	
346	99	302	02:44:04.533	488CD6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,233,458:51:0	
347	99	302	03:10:54.533	488CD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,233,485:09:0	
348	99	302	03:42:50.533	488CD6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,233,516:62:0	
349	99	302	08:09:30.466	488CD6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,233,780:38:0	
350	99	302	08:28:42.466	488CD6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,233,799:37:0	
351	99	302	09:36:58.466	488CE6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,233,866:84:0	
352	99	302	16:05:14.466	488CF6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,234,250:84:0	
353	99	302	17:19:54.466	488CF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,234,324:70:0	
354	99	302	17:43:22.466	488CF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,234,347:89:0	
355	99	302	18:37:42.466	488CF6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,234,401:65:0	
356	99	302	19:06:48.466	488CF6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,234,430:45:0	
357	99	302	19:08:42.466	488CG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,234,432:34:0	
358	99	303	02:39:06.466	488CH6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,234,877:75:0	
359	99	303	03:05:56.466	488CH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,234,904:33:0	
360	99	303	03:32:10.466	488CH6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,234,930:28:0	
361	99	303	08:05:14.466	488CH6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,235,200:34:0	
362	99	303	08:22:18.466	488CH6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,235,217:23:0	
363	99	303	09:28:26.466	488CI6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,235,282:60:0	
364	99	303	16:00:58.400	488CJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,235,670:80:0	
365	99	303	17:13:30.400	488CJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,235,742:56:0	
366	99	303	17:58:18.400	488CJ6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,235,786:84:0	
367	99	304	03:27:54.400	488CK6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,236,350:24:0	
368	99	304	08:05:14.400	488CK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,236,624:50:0	
369	99	304	09:22:02.400	488CK6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,236,700:46:0	
370	99	304	15:54:34.400	488CL6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,237,088:66:0	
371	99	304	17:09:14.400	488CL6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,237,162:52:0	
372	99	304	17:15:38.400	488CL6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,237,168:82:0	
373	99	304	17:32:42.400	488CL6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,237,185:71:0	
374	99	304	18:27:46.400	488CL6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,237,240:22:0	
375	99	304	18:53:46.400	488CM6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,237,265:87:0	
376	99	304	18:56:11.066	488CM6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,237,268:31:0	
377	99	305	02:29:09.666	488CN6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,237,716:31:0	
378	99	305	02:55:59.000	488CN6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,237,742:79:0	
379	99	305	03:17:14.333	488CN6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,237,763:81:0	
380	99	305	07:54:34.333	488CN6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,238,038:16:0	
381	99	305	08:13:46.333	488CN6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,238,057:15:0	
382	99	305	09:17:46.333	488CO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,238,120:42:0	
383	99	305	15:54:34.333	488CP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,238,512:82:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
384	99	305	17:09:14.333	488CP6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,238,586:68:0
385	99	305	17:28:26.333	488CP6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,238,605:67:0
386	99	305	18:22:48.333	488CP6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,238,659:46:0
387	99	305	18:49:30.333	488CP6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,238,685:83:0
388	99	305	18:51:23.666	488CQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,238,687:71:0
389	99	306	01:19:54.333	488CR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,239,072:02:0
390	99	306	01:36:58.333	488CR6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,239,088:82:0
391	99	306	02:29:11.666	488CR6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,239,140:50:0
392	99	306	03:01:01.000	488CR6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,239,172:02:0
393	99	306	07:54:34.266	488CS6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,239,462:32:0
394	99	306	08:51:50.933	176QC6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,239,519:00:0
395	99	306	08:52:49.600	488CS6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,239,519:88:0
396	99	306	08:56:20.266	20UL4B	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,239,523:40:0
397	99	306	09:13:30.266	488CS6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,239,540:38:0
398	99	306	09:15:20.266	20UL4D	**7MODE**	**INT**	AACS INERTIAL MODE	4O0	4	0	5,239,542:21:0
399	99	306	09:23:39.600	488CS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,239,550:42:0
400	99	306	11:53:00.266	488CS6E	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,239,698:15:0
401	99	306	11:55:04.266	20QI4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,239,700:19:0
402	99	306	11:55:54.266	20QI4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,239,701:03:0
403	99	306	15:54:34.266	488CT6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,239,937:07:0
404	99	306	17:04:58.266	488CT6B	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,240,006:64:0
405	99	306	17:22:02.266	488CT6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,240,023:53:0
406	99	306	18:02:50.266	488CT6D	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,240,063:85:0
407	99	306	18:43:06.266	488CT6E	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,103:69:0
408	99	306	18:46:04.266	488CU6A	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,106:63:0
409	99	307	01:00:42.266	488CV6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,240,477:19:0
410	99	307	01:32:42.266	488CV6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,508:78:0
411	99	307	02:01:00.266	488CV6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,536:77:0
412	99	307	02:01:09.600	176QK6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,240,537:00:0
413	99	307	02:05:00.266	444QB443A4A	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,240,540:73:0
414	99	307	02:09:13.600	488CV6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,544:89:0
415	99	307	02:10:04.266	20QB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,240,545:74:0
416	99	307	02:10:54.266	20QB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,240,546:58:0
417	99	307	02:13:17.600	176QD6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,240,549:00:0
418	99	307	02:41:02.933	488CV6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,576:41:0
419	99	307	08:59:14.933	488CW6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,240,950:45:0
420	99	307	09:19:54.266	488CW6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,240,970:84:0
421	99	307	09:24:07.600	488CW6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,240,975:09:0
422	99	307	15:43:54.200	488CX6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,241,350:64:0
423	99	307	17:00:42.200	488CX6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,241,426:60:0
424	99	307	17:36:58.200	488CX6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,241,462:48:0
425	99	308	03:02:18.200	488CY6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,242,021:59:0
426	99	308	07:41:43.533	176VA6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,242,298:00:0
427	99	308	07:43:54.200	488CY6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,242,300:14:0
428	99	308	07:47:47.533		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5862.69 +/- 12	4O0	4	0	5,242,304:00:0
429	99	308	07:47:47.533		DMS:	: *SLEW-TIC	P7, TRACK *2, *REV, TIC 5862.69 +/- 12	4O0	4	0	5,242,304:00:0
430	99	308	07:47:47.533	465WA6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	5,242,304:00:0
431	99	308	07:47:48.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5862.81 +/- 12	4O0	4	0	5,242,304:02:1
432	99	308	07:47:54.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5864.04 +/- 12	4O0	4	0	5,242,304:10:0
433	99	308	07:47:55.400		DMS:	: *RUNUP	P7, TRACK *2, *REV, TIC *5864.10 +/- 12	4O0	4	0	5,242,304:11:8
434	99	308	07:47:56.800		DMS:	: *AT_SPD	P7, TRACK 2, REV, TIC *5863.98 +/- 12	4O0	4	0	5,242,304:13:9
435	99	308	08:49:13.666		DMS:	: *RUNDOWN	P7, TRACK 2, REV, TIC *5002.06 +/- 12	4O0	4	0	5,242,364:69:2
436	99	308	08:49:14.866		DMS:	: *READY	RDY, TRACK 2, REV, TIC *5002.00 +/- 12	4O0	4	0	5,242,364:71:0
437	99	308	09:02:50.200	488CZ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,242,378:20:0
438	99	308	13:41:28.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 5002.00 +/- 12	4O0	4	0	5,242,653:73:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
439	99	308	13:41:28.866	465WB6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,242,653:73:0	
440	99	308	13:41:30.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *5002.12 +/- 12	4O0	4	0	5,242,653:75:1	
441	99	308	13:41:35.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *5003.35 +/- 12	4O0	4	0	5,242,653:83:0	
442	99	308	13:41:36.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *5003.41 +/- 12	4O0	4	0	5,242,653:84:8	
443	99	308	13:41:40.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4997.91 +/- 12	4O0	4	0	5,242,653:90:6	
444	99	308	13:41:40.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4997.91 +/- 12	4O0	4	0	5,242,653:90:6	
445	99	308	14:07:20.866	465WB6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,242,679:35:0	
446	99	308	14:07:20.866		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 259.79 +/- 12	4O0	4	0	5,242,679:35:0	
447	99	308	14:07:22.066		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 258.99 +/- 13	4O0	4	0	5,242,679:36:8	
448	99	308	15:43:54.200	488DA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,242,774:80:0	
449	99	308	16:05:08.866		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 258.99 +/- 13	4O0	4	0	5,242,795:81:0	
450	99	308	16:05:08.866	465WC6A	6DTRN	CMD,6DTRN,465WC6	DMS TRACK TURNAROUND	4O0	4	0	5,242,795:81:0	
451	99	308	16:05:08.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 258.99 +/- 13	4O0	4	0	5,242,795:81:0	
452	99	308	16:05:10.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 259.11 +/- 13	4O0	4	0	5,242,795:83:1	
453	99	308	16:05:15.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 260.34 +/- 13	4O0	4	0	5,242,796:00:0	
454	99	308	16:05:16.733		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 260.40 +/- 13	4O0	4	0	5,242,796:01:8	
455	99	308	16:05:18.133		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 260.28 +/- 13	4O0	4	0	5,242,796:03:9	
456	99	308	16:09:09.533	488DA6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,242,799:78:0	
457	99	308	16:09:35.866		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/- 13	4O0	4	0	5,242,800:26:5	
458	99	308	16:09:37.066		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/- 13	4O0	4	0	5,242,800:28:3	
459	99	308	16:09:37.066		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/- 13	4O0	4	0	5,242,800:28:3	
460	99	308	16:09:38.466		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,242,800:30:4	
461	99	308	16:09:50.466		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,242,800:48:4	
462	99	308	16:09:51.666		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,242,800:50:2	
463	99	308	16:15:11.533		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,242,805:75:0	
464	99	308	16:15:11.533	465WD6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,242,805:75:0	
465	99	308	16:15:18.200		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,242,805:85:0	
466	99	308	16:15:22.066		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	5,242,805:90:8	
467	99	308	16:15:22.066		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	5,242,805:90:8	
468	99	308	16:47:05.533	465WD6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	5,242,837:34:0	
469	99	308	16:47:05.533		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	5,242,837:34:0	
470	99	308	16:47:06.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	5,242,837:35:8	
471	99	308	16:54:18.200	488DA6C	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,242,844:46:0	
472	99	308	17:00:42.200	488DA6D	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,242,850:76:0	
473	99	308	17:02:41.533	465WE6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,242,852:73:0	
474	99	308	17:02:41.533		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	5,242,852:73:0	
475	99	308	17:02:42.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	5,242,852:75:1	
476	99	308	17:02:48.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	5,242,852:83:0	
477	99	308	17:02:49.400		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	5,242,852:84:8	
478	99	308	17:02:53.266		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	5,242,852:90:6	
479	99	308	17:02:53.266		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	5,242,852:90:6	
480	99	308	17:17:46.200	488DA6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,242,867:65:0	
481	99	308	17:34:49.533		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	5,242,884:53:0	
482	99	308	17:34:49.533	465WF6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,242,884:53:0	
483	99	308	17:34:50.733		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	5,242,884:54:8	
484	99	308	17:34:54.600		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	5,242,884:60:6	
485	99	308	17:34:54.600		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	5,242,884:60:6	
486	99	308	18:06:50.200		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	5,242,916:22:0	
487	99	308	18:06:50.200	465WF6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,242,916:22:0	
488	99	308	18:06:51.400		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	5,242,916:23:8	
489	99	308	18:12:54.200	488DB6A	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,242,922:22:0	
490	99	308	18:21:33.533	465WG6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,242,930:73:0	
491	99	308	18:21:33.533		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	5,242,930:73:0	
492	99	308	18:21:34.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	5,242,930:75:1	
493	99	308	18:21:40.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	5,242,930:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
494	99	308	18:21:41.400		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	5,242,930:84:8	
495	99	308	18:21:45.266		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	5,242,930:90:6	
496	99	308	18:21:45.266		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	5,242,930:90:6	
497	99	308	18:34:34.200	488DB6B	6TMSED	FILL,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,242,943:61:0	
498	99	308	18:40:14.200	488DB6C	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,242,949:25:0	
499	99	308	18:53:40.866	465WH6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,242,962:52:0	
500	99	308	18:53:40.866		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.38 +/-	4O0	4	0	5,242,962:52:0	
501	99	308	18:53:42.066		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.58 +/-	4O0	4	0	5,242,962:53:8	
502	99	308	18:53:45.933		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.08 +/-	4O0	4	0	5,242,962:59:6	
503	99	308	18:53:45.933		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.08 +/-	4O0	4	0	5,242,962:59:6	
504	99	308	18:54:46.866	465WH6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,242,963:60:0	
505	99	308	18:54:46.866		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.52 +/-	4O0	4	0	5,242,963:60:0	
506	99	308	18:54:48.066		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.32 +/-	4O0	4	0	5,242,963:61:8	
507	99	308	18:55:59.533	488DB6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,242,964:78:0	
508	99	308	19:09:16.866		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.32 +/-	4O0	4	0	5,242,978:00:0	
509	99	308	19:09:16.866	465WI6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,242,978:00:0	
510	99	308	19:10:10.866	465WJ6A	6DTRN	CMD,6DTRN,465WJ6	DMS TRACK TURNAROUND	4O0	4	0	5,242,978:81:0	
511	99	308	19:10:10.866		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.32 +/-	4O0	4	0	5,242,978:81:0	
512	99	308	19:10:10.866		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.32 +/-	4O0	4	0	5,242,978:81:0	
513	99	308	19:10:12.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.44 +/-	4O0	4	0	5,242,978:83:1	
514	99	308	19:10:17.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.67 +/-	4O0	4	0	5,242,979:00:0	
515	99	308	19:10:18.733		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.73 +/-	4O0	4	0	5,242,979:01:8	
516	99	308	19:10:20.133		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.61 +/-	4O0	4	0	5,242,979:03:9	
517	99	308	19:21:45.933		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	5,242,990:31:6	
518	99	308	19:21:47.133		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	5,242,990:33:4	
519	99	308	19:21:47.133		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	5,242,990:33:4	
520	99	308	19:21:48.533		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,242,990:35:5	
521	99	308	19:22:00.533		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,242,990:53:5	
522	99	308	19:22:01.733		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,242,990:55:3	
523	99	308	19:37:04.200	20VB4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,243,005:44:0	
524	99	308	19:37:54.200	20VB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,243,006:28:0	
525	99	308	19:39:36.866	176VB6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,243,008:00:0	
526	99	309	00:50:02.133	488DC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,243,315:01:0	
527	99	309	01:28:26.133	488DC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,243,352:90:0	
528	99	309	01:59:18.800	488DC6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,243,383:48:0	
529	99	309	02:31:08.133	488DC6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,243,415:00:0	
530	99	309	07:39:38.133	488DD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,243,720:10:0	
531	99	309	07:56:42.133	488DD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,243,736:90:0	
532	99	309	08:49:18.800	488DD6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,243,789:02:0	
533	99	309	09:09:14.133	488DD6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,243,808:66:0	
534	99	309	09:13:56.800	488DD6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,243,813:35:0	
535	99	309	15:39:38.133	488DE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,244,194:76:0	
536	99	309	16:50:02.133	488DE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,244,264:42:0	
537	99	309	17:00:42.133	488DE6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,244,275:01:0	
538	99	309	17:01:06.800	488DE6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,244,275:38:0	
539	99	309	17:28:10.800	488DE6E	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,244,302:17:0	
540	99	309	17:36:58.133	488DF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,244,310:80:0	
541	99	309	18:28:10.133	488DF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,244,361:47:0	
542	99	309	18:34:19.466	488DF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,244,367:55:0	
543	99	309	19:01:09.466	488DF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,244,394:13:0	
544	99	310	02:30:18.133	488DG6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,244,838:32:0	
545	99	310	03:30:02.133	488DG6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,244,897:39:0	
546	99	310	04:45:44.066	488DG6C	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,244,972:27:0	
547	99	310	05:10:16.733	488DG6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,244,996:52:0	
548	99	310	07:35:22.066	488DG6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,245,140:06:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
549	99	310	07:52:26.066	488DH6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,245,156:86:0
550	99	310	08:52:10.066	488DH6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,245,216:02:0
551	99	310	15:35:22.066	488DI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,245,614:72:0
552	99	310	16:50:02.066	488DI6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,245,688:58:0
553	99	310	17:07:06.066	488DI6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,245,705:47:0
554	99	310	18:02:59.400	488DI6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,245,760:72:0
555	99	310	18:23:54.066	488DI6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,245,781:43:0
556	99	310	18:30:08.066	488DJ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,245,787:58:0
557	99	311	03:29:23.400	488DK6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,246,320:88:0
558	99	311	04:01:13.400	488DK6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,246,352:41:0
559	99	311	07:28:58.066	488DK6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,246,557:83:0
560	99	311	07:48:10.066	488DK6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,246,576:82:0
561	99	311	08:28:00.733	488DK6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,246,616:28:0
562	99	311	08:50:02.066	488DL6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,246,638:08:0
563	99	311	08:59:10.733	488DL6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,246,647:12:0
564	99	311	15:39:38.000	488DM6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,247,043:17:0
565	99	311	16:43:38.000	488DM6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,247,106:44:0
566	99	311	16:52:10.000	488DM6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,247,114:84:0
567	99	311	17:22:02.000	488DM6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,247,144:42:0
568	99	311	17:44:24.666	488DM6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,247,166:54:0
569	99	311	18:11:14.000	488DN6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,247,193:11:0
570	99	312	02:43:06.000	488DO6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,247,699:33:0
571	99	312	05:02:32.666	488DO6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,247,837:25:0
572	99	312	05:03:54.000	488DO6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,247,838:56:0
573	99	312	07:29:57.333	488DO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,247,983:06:0
574	99	312	07:41:46.000	488DO6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,247,994:68:0
575	99	312	08:41:30.000	488DP6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,248,053:75:0
576	99	312	15:24:42.000	488DQ6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,248,452:54:0
577	99	312	16:39:22.000	488DQ6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,248,526:40:0
578	99	312	16:56:26.000	488DQ6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,248,543:29:0
579	99	312	17:53:04.666	488DQ6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,248,599:31:0
580	99	312	17:59:52.666	41XE99A	**POWER**	**PWR MODE change**	Change to Calib/Decon Mode	4O0	4	0	5,248,606:06:0
581	**99**	**312**	**17:59:52.666**	**24NNRCTRLT01-**		**-----START------**		**4O0**	**4**	**0**	**: :**
582	**99**	**312**	**17:59:56.666**	**41XE3I**	**40T1PR**		**1 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,248,606:12:0**
583	**99**	**312**	**18:00:06.666**	**41XE3J**	**40T1PR**		**2 PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,248,606:27:0**
584	**99**	**312**	**18:00:16.666**	**41XE3K**	**40T2R**		**1 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,248,606:42:0**
585	**99**	**312**	**18:00:26.666**	**41XE3L**	**40T2R**		**2 PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,248,606:57:0**
586	99	312	18:10:56.000	176XU6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,248,617:00:0
587	99	312	18:14:02.000	20XE4A	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,248,620:06:0
588	99	312	18:15:22.000	488DQ6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,248,621:35:0
589	99	312	18:18:08.666	20DA4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,248,624:12:0
590	99	312	18:18:58.666	20DA4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,248,624:87:0
591	99	312	18:20:33.333	488DR6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,248,626:47:0
592	99	312	18:21:02.666	176XV6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,248,627:00:0
593	**99**	**312**	**18:22:03.333**	**185XE10A3A**	**40HRP**		**1 RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**5,248,628:00:0**
594	**99**	**312**	**18:22:08.666**	**185XE10B3A**	**40HRP**		**2 RCT Heater ON (primary relay)**	**4O0**	**4**	**0**	**5,248,628:08:0**
595	99	313	01:54:28.600	488DS6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,249,075:41:0
596	99	313	02:21:17.933	488DS6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,249,101:89:0
597	99	313	02:36:41.933	488DS6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,249,117:19:0
598	**99**	**313**	**06:16:49.933**	**125XE4A**	**37IST**	**1,0,0,OFF,0,0,0**	**Chopper ON, Sync, 63Hz (Ref)**	**460**	**4**	**0**	**5,249,334:84:0**
599	99	313	06:16:49.933	125XE	NIMSINIT	GS	##### GROUP START INIT	460	4	0	5,249,334:84:0
600	**99**	**313**	**06:17:50.600**	**125XE4B**	**37IST**	**1,2,0,OFF,0,0,0**	**Chopper ON, Sync, Chopper (Ref)**	**4R0**	**4**	**0**	**5,249,335:84:0**
601	**99**	**313**	**06:18:51.266**	**125XE4C**	**37IST**	**0,2,0,OFF,0,1,3**	**Gain State 1**	**1R0**	**4**	**0**	**5,249,336:84:0**
602	**99**	**313**	**06:19:51.933**	**125XE4D**	**37MB**	**1B,1B,0,0,0,0**	**Selects mirror (spatial) edit table**	**1R0**	**4**	**0**	**5,249,337:84:0**
603	99	313	06:19:51.933	125XE11A	NIMSINIT	GE	##### GROUP END INIT	1R0	4	0	5,249,337:84:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
604	99	313	06:21:53.266	127XE	NIMSTAB	GS	%%%%% GROUP START TAB	1R0	4	0	5,249,339:84:0
605	99	313	06:21:53.266	127XE4A	37IOP	3,0	Long Map, Grating Start Position =00	1R3	4	0	5,249,339:84:0
606	99	313	06:21:53.933	127XE4B	37ETB	0A,CA,18,03,FF,1	Loads wavelength edit table	1R3	4	0	5,249,339:85:0
607	99	313	06:22:01.933	127XE11A	NIMSTAB	GE	%%%%% GROUP END TAB	1R3	4	0	5,249,340:06:0
608	99	313	06:26:00.600	176XE6A	6TMREC	PPB	PAUSE PLAYBACK (PB CONTROL) Record Mode C	1R3	4	0	5,249,344:00:0
609	99	313	06:32:04.600	192XE4A	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	5,249,350:00:0
610	99	313	06:34:25.933	432XE6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,249,352:30:0
611	99	313	06:35:25.266	432XF6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,249,353:28:0
612	99	313	06:38:08.600	192XE4B	7CONE	17.0,0.0	Check S/P Position	1R3	4	0	5,249,356:00:0
613	99	313	06:40:29.933	432XU6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,249,358:30:0
614	99	313	06:42:29.933	432XV6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,249,360:28:0
615	99	313	06:44:12.600	192XE4C	7CONE	17.0,119.7	Check S/P Position	1R3	4	0	5,249,362:00:0
616	99	313	06:46:13.933	185XE10C3A	40HRPR	1	RCT Heater OFF (primary relay)	1R3	4	0	5,249,364:00:0
617	99	313	06:46:19.266	185XE10D3A	40HRPR	2	RCT Heater OFF (primary relay)	1R3	4	0	5,249,364:08:0
618	99	313	06:46:33.933	432XW6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	1R3	4	0	5,249,364:30:0
619	99	313	06:47:33.266	432XY6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	1R3	4	0	5,249,365:28:0
620	99	313	06:49:11.266	125DC11A	NIMSINIT	GE	##### GROUP END INIT	1R3	4	0	5,249,366:84:0
621	99	313	06:49:11.266	125DC	NIMSINIT	GS	##### GROUP START INIT	1R3	4	0	5,249,366:84:0
622	99	313	06:49:11.266	125DC4A	37IST	0,2,0,OFF,0,1,1	Gain State 4	4R3	4	0	5,249,366:84:0
623	99	313	06:50:11.933	127DC	NIMSTAB	GS	%%%%% GROUP START TAB	4R3	4	0	5,249,367:84:0
624	99	313	06:50:11.933	127DC4A	37IOP	3,0	Long Map, Grating Start Position =00	4R3	4	0	5,249,367:84:0
625	99	313	06:50:12.600	127DC4B	37ETB	07,C7,31,80,00,0	Loads wavelength edit table	4R3	4	0	5,249,367:85:0
626	99	313	06:50:16.600	192XE4D	7CONE	17.0,153.0	Check S/P Position	4R3	4	0	5,249,368:00:0
627	99	313	06:50:20.600	127DC11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R3	4	0	5,249,368:06:0
628	99	313	06:50:36.600	432DC6A	6RTSL2	NIMSEL,AACNCG,RT	NIMS R/T SELECT	4R3	4	0	5,249,368:30:0
629	99	313	06:51:12.600	125DD	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,249,368:84:0
630	99	313	06:51:12.600	125DD4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	5,249,368:84:0
631	99	313	06:51:12.600	125DD11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,249,368:84:0
632	99	313	06:53:13.933	125DE11A	NIMSINIT	GE	##### GROUP END INIT	4R3	4	0	5,249,370:84:0
633	99	313	06:53:13.933	125DE	NIMSINIT	GS	##### GROUP START INIT	4R3	4	0	5,249,370:84:0
634	99	313	06:53:13.933	125DE4A	37IST	0,2,1,OFF,1,0,1	OPCAL	4R3	4	0	5,249,370:84:0
635	99	313	06:53:37.266	432DE6A	6RTDS2	NIMDSL,AACNCG,RT	NIMS R/T DESELECT	4R3	4	0	5,249,371:28:0
636	99	313	06:57:16.600	127XF4A	37IOP	0,0	Safe, Grating Start Position =00	4R0	4	0	5,249,374:84:0
637	99	313	06:57:16.600	127XF	NIMSTAB	GS	%%%%% GROUP START TAB	4R0	4	0	5,249,374:84:0
638	99	313	06:57:17.266	127XF4B	37ETB	04,C4,02,00,00	Loads wavelength edit table	4R0	4	0	5,249,374:85:0
639	99	313	06:57:25.266	127XF11A	NIMSTAB	GE	%%%%% GROUP END TAB	4R0	4	0	5,249,375:06:0
640	99	313	07:00:18.600	125XF4A	37MB	0,0,0,0,0,0	Selects mirror (spatial) edit table	4R0	4	0	5,249,377:84:0
641	99	313	07:00:18.600	125XF	NIMSINIT	GS	##### GROUP START INIT	4R0	4	0	5,249,377:84:0
642	99	313	07:01:19.266	125XF4B	37IST	1,0,0,OFF,0,0,0	Chopper ON, Sync, 63Hz (Ref)	460	4	0	5,249,378:84:0
643	99	313	07:02:19.933	125XF11A	NIMSINIT	GE	##### GROUP END INIT	460	4	0	5,249,379:84:0
644	99	313	07:02:19.933	125XF4C	37IST	1,1,0,OFF,0,0,0	Chopper OFF, N/A, 63Hz (Ref)	4O0	4	0	5,249,379:84:0
645	99	313	07:08:32.600	41XU99A	POWER	PWR MODE change	Change to Maneuver/Playback Mode	4O0	4	0	5,249,386:06:0
646	99	313	07:10:26.600	41XU3G	40T1P	1	PCT Heater 1 ON (primary relay)	4O0	4	0	5,249,387:86:0
647	99	313	07:10:36.600	41XU3H	40T1P	2	PCT Heater 1 ON (primary relay)	4O0	4	0	5,249,388:10:0
648	99	313	07:10:46.600	41XU3I	40T2	1	PCT Heater 2 ON	4O0	4	0	5,249,388:25:0
649	99	313	07:10:56.600	41XU3J	40T2	2	PCT Heater 2 ON	4O0	4	0	5,249,388:40:0
650	99	313	07:15:37.332	24NNRCTRLT01-		-----STOP-------		4O0	4	0	: :
651	99	313	07:18:43.266	20DB4A	7SAFE	STOP	S/P NO MOVEMENT	4O0	4	0	5,249,396:12:0
652	99	313	07:19:33.266	20DB4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,249,396:87:0
653	99	313	07:21:37.266	176XF6A	6TMREC	RPB	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,249,399:00:0
654	99	313	07:24:41.933	488DS6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,249,402:04:0
655	99	313	08:37:13.933	488DT6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,249,473:71:0
656	99	313	15:24:41.933	488DU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,249,876:70:0
657	99	313	16:35:05.933	488DU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,249,946:36:0
658	99	313	17:11:21.933	488DU6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,249,982:24:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
659	99	314	00:39:21.933	488DV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,250,425:31:0	
660	99	314	01:02:49.933	488DV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,250,448:50:0	
661	99	314	01:54:30.600	488DV6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,250,499:60:0	
662	99	314	02:21:19.933	488DV6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,250,526:17:0	
663	99	314	07:14:01.866	488DW6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,250,815:61:0	
664	99	314	07:33:13.866	488DW6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,250,834:60:0	
665	99	314	08:18:08.533	488DW6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,250,879:07:0	
666	99	314	08:39:21.866	488DW6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,250,900:06:0	
667	99	314	08:49:06.533	488DW6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,250,909:64:0	
668	99	314	15:24:41.866	488DX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,251,300:86:0	
669	99	314	16:28:41.866	488DX6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,251,364:22:0	
670	99	314	16:47:53.866	488DX6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,251,383:21:0	
671	99	314	17:33:09.200	488DX6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,251,427:90:0	
672	99	314	18:08:57.866	488DX6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,251,463:37:0	
673	99	314	18:11:31.200	488DY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,251,465:85:0	
674	99	314	18:52:59.866	488DY6B	6TMSED	NORM,AH6	Sci, Eng, and D/L Chan	4O0	4	0	5,251,506:87:0	
675	99	314	18:56:04.533	176QE6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,251,510:00:0	
676	99	315	00:00:59.866	488DY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,251,811:52:0	
677	99	315	00:01:25.866	176QF6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,251,812:00:0	
678	99	315	00:26:42.533	176UY6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,251,837:00:0	
679	99	315	00:31:59.866	20UR4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,251,842:21:0	
680	99	315	00:32:59.866	20UR4D	**7MODE**	**SPNL**	AACS ALL-SPIN LOW	4O0	4	0	5,251,843:20:0	
681	99	315	00:34:59.866	20UR4E	**7SAFE**	**UNSTOW**	S/P TO 153 deg cone	4O0	4	0	5,251,845:18:0	
682	99	315	00:40:29.866	20UR4G	7VENT	0.611,1.333,8	ALERT -- Thruster fire	4O0	4	0	5,251,850:58:0	
683	99	315	00:40:30.533	20UR4H	7VENT	0.611,10.989,8	ALERT -- Thruster fire	4O0	4	0	5,251,850:59:0	
684	99	315	00:40:50.533	20UR4I	7VENT	0.611,1.333,6	ALERT -- Thruster fire	4O0	4	0	5,251,850:89:0	
685	99	315	00:40:51.200	20UR4J	7VENT	0.611,10.989,6	ALERT -- Thruster fire	4O0	4	0	5,251,850:90:0	
686	99	315	00:41:11.200	20UR4K	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,251,851:29:0	
687	99	315	00:41:11.866	20UR4L	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,251,851:30:0	
688	99	315	00:41:21.866	20UR4M	7VENT	0.611,1.333,4	ALERT -- Thruster fire	4O0	4	0	5,251,851:45:0	
689	99	315	00:41:22.533	20UR4N	7VENT	0.611,0.666,5	ALERT -- Thruster fire	4O0	4	0	5,251,851:46:0	
690	99	315	00:41:32.533	20UR4O	7VENT	1.211,1.333,10	ALERT -- Thruster fire	4O0	4	0	5,251,851:61:0	
691	99	315	00:41:33.200	20UR4P	7VENT	1.211,0.666,12	ALERT -- Thruster fire	4O0	4	0	5,251,851:62:0	
692	99	315	00:43:19.866	20UR4S	7VENT	0.611,1.333,7	ALERT -- Thruster fire	4O0	4	0	5,251,853:40:0	
693	99	315	00:43:20.533	20UR4T	7VENT	0.611,10.989,7	ALERT -- Thruster fire	4O0	4	0	5,251,853:41:0	
694	99	315	00:43:40.533	20UR4U	7VENT	0.611,1.333,1	ALERT -- Thruster fire	4O0	4	0	5,251,853:71:0	
695	99	315	00:43:41.200	20UR4V	7VENT	0.611,10.989,1	ALERT -- Thruster fire	4O0	4	0	5,251,853:72:0	
696	99	315	00:44:01.200	20UR4AC	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,251,854:11:0	
697	99	315	00:44:01.866	20UR4AD	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,251,854:12:0	
698	99	315	00:44:11.866	20UR4AE	7VENT	0.611,1.333,2	ALERT -- Thruster fire	4O0	4	0	5,251,854:27:0	
699	99	315	00:44:12.533	20UR4AF	7VENT	0.611,0.666,3	ALERT -- Thruster fire	4O0	4	0	5,251,854:28:0	
700	99	315	00:44:22.533	20UR4W	7VENT	1.211,1.333,9	ALERT -- Thruster fire	4O0	4	0	5,251,854:43:0	
701	99	315	00:44:23.200	20UR4X	7VENT	1.211,0.666,11	ALERT -- Thruster fire	4O0	4	0	5,251,854:44:0	
702	99	315	00:45:19.866	20UR4Z	**7MODE**	**CRU**	AACS CRUISE MODE	4O0	4	0	5,251,855:38:0	
703	99	315	01:10:03.866	20UY4A	**7SAFE**	**STOP**	S/P NO MOVEMENT	4O0	4	0	5,251,879:80:0	
704	99	315	01:10:53.866	20UY4B	7SLEW	DIS,POS,0.0	Stator movement	4O0	4	0	5,251,880:64:0	
705	99	315	01:12:12.533	176UZ6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,251,882:00:0	
706	99	315	02:59:33.866	488DZ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,251,988:16:0	
707	99	315	03:31:23.200	488DZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,252,019:59:0	
708	99	315	08:24:34.533	488DZ6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,252,309:56:0	
709	99	315	08:45:45.866	488DZ6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,252,330:52:0	
710	99	315	08:49:37.866	488DZ6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,252,334:36:0	
711	99	315	15:14:01.800	488EA6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,252,714:52:0	
712	99	315	16:24:25.800	488EA6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,252,784:18:0	
713	99	315	16:35:05.800	488EA6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,252,794:68:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
714	99	315	16:35:50.466	488EA6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,252,795:44:0	
715	99	315	16:56:25.800	488EA6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,252,815:77:0	
716	99	315	17:23:54.466	488EB6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,252,843:02:0	
717	99	316	00:32:03.800	488EC6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,253,266:43:0	
718	99	316	01:48:53.133	488EC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,253,342:41:0	
719	99	316	02:28:09.800	488EC6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,253,381:27:0	
720	99	316	07:09:45.800	488ED6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,253,659:73:0	
721	99	316	08:26:33.800	488ED6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,253,735:69:0	
722	99	316	15:09:45.800	488EE6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,254,134:48:0	
723	99	316	16:20:09.800	488EE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,254,204:14:0	
724	99	316	16:28:41.800	488EE6C	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,254,212:54:0	
725	99	316	16:30:48.466	488EE6D	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,254,214:62:0	
726	99	316	16:50:01.800	488EE6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,254,233:63:0	
727	99	316	16:59:45.800	488EF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,254,243:29:0	
728	99	316	17:58:17.800	488EF6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,254,301:19:0	
729	99	316	18:09:38.466	488EF6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,254,312:39:0	
730	99	316	18:36:28.466	488EF6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,254,338:88:0	
731	99	317	01:34:39.733	488EG6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,254,752:51:0	
732	99	317	02:01:29.066	488EG6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,254,779:08:0	
733	99	317	02:21:45.733	488EG6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,254,799:13:0	
734	99	317	05:42:21.733	488EG6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,254,997:49:0	
735	99	317	05:44:25.733	488EG6E	6TMSED	FILL,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,254,999:53:0	
736	99	317	07:07:50.400	488EH6A	6TMSED	NORM,AL3	Sci, Eng, and D/L Chan	4O0	4	0	5,255,082:07:0	
737	99	317	07:18:17.733	488EH6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,255,092:38:0	
738	99	317	08:22:17.733	488EH6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,255,155:65:0	
739	99	317	15:03:21.733	488EI6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,255,552:34:0	
740	99	317	16:20:09.733	488EI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,255,628:30:0	
741	99	317	16:56:25.733	488EI6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,255,664:18:0	
742	99	318	02:21:45.733	488EJ6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,256,223:29:0	
743	99	318	05:42:13.000	488EJ6B	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,256,421:52:0	
744	99	318	05:44:25.666	488EJ6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,256,423:69:0	
745	99	318	07:06:47.666	488EJ6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,256,505:20:0	
746	99	318	07:11:53.666	488EJ6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,256,510:24:0	
747	99	318	08:03:20.333	488EK6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,256,561:13:0	
748	99	318	08:24:25.666	488EK6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,256,582:00:0	
749	99	318	08:30:31.666	488EK6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,256,588:03:0	
750	99	318	15:03:21.666	488EL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,256,976:50:0	
751	99	318	16:13:45.666	488EL6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,257,046:16:0	
752	99	318	16:17:43.000	488EL6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,257,050:08:0	
753	99	318	16:24:25.666	488EL6D	6TMSED	FILL,AL1	Sci, Eng, and D/L Chan	4O0	4	0	5,257,056:66:0	
754	99	318	17:00:41.666	488EL6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,257,092:54:0	
755	99	318	17:08:45.000	488EM6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,257,100:51:0	
756	99	318	17:14:44.333	488EM6B	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,257,106:44:0	
757	99	318	17:41:34.333	488EM6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,257,133:02:0	
758	99	319	02:49:29.666	488EN6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,257,674:84:0	
759	99	319	03:15:05.666	488EN6B	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,257,700:22:0	
760	99	319	06:54:49.666	488EN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,257,917:51:0	
761	99	319	07:11:53.666	488EN6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,257,934:40:0	
762	99	319	08:18:01.666	488EN6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,257,999:77:0	
763	99	319	14:54:49.600	488EO6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,258,392:26:0	
764	99	319	16:09:29.600	488EO6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,258,466:12:0	
765	99	319	16:26:33.600	488EO6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,258,483:01:0	
766	99	319	17:23:24.266	488EO6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,258,539:21:0	
767	99	319	17:51:53.600	488EO6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,258,567:37:0	
768	99	319	17:52:26.266	488EP6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,258,567:86:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
769	99	320	01:24:48.933	488EQ6A	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,259,015:32:0
770	99	320	01:51:38.266	488EQ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,259,041:80:0
771	99	320	02:21:45.600	488EQ6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,259,071:61:0
772	99	320	06:48:25.600	488EQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,259,335:37:0
773	99	320	07:07:37.600	488EQ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,259,354:36:0
774	99	320	08:11:37.600	488ER6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,259,417:63:0
775	99	320	14:44:09.600	488ES6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,259,805:83:0
776	99	320	16:05:13.600	488ES6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,259,886:08:0
777	99	320	16:47:53.600	488ES6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,259,928:26:0
778	99	321	02:32:25.533	488ET6A	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,260,506:36:0
779	99	321	06:44:09.533	488ET6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,260,755:33:0
780	99	321	07:01:13.533	488ET6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,260,772:22:0
781	99	321	08:18:01.533	488ET6D	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,260,848:18:0
782	99	321	14:33:29.533	488EU6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,261,219:49:0
783	99	321	15:58:49.533	488EU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,261,303:85:0
784	99	321	16:05:13.533	488EU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,261,310:24:0
785	99	321	16:22:17.533	488EU6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,261,327:13:0
786	99	321	17:18:30.200	488EU6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,261,382:67:0
787	99	321	17:47:36.866	488EV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,261,411:48:0
788	99	321	17:56:09.533	488EV6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,261,419:89:0
789	99	322	01:13:29.533	488EW6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,261,852:46:0
790	99	322	02:53:45.533	488EW6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,261,951:61:0
791	99	322	03:12:57.533	488EW6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,261,970:60:0
792	99	322	04:11:18.800	488EW6D	6TMSED	FILL,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,262,028:34:0
793	99	322	04:35:52.133	488EW6E	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,262,052:60:0
794	99	322	06:39:53.466	488EX6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,262,175:29:0
795	99	322	06:56:57.466	488EX6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,262,192:18:0
796	99	322	08:22:17.466	488EX6C	6TMSED	NORM,AL7	Sci, Eng, and D/L Chan	4O0	4	0	5,262,276:54:0
797	99	322	14:18:33.466	488EY6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,262,628:86:0
798	99	322	15:48:09.466	488EY6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,262,717:51:0
799	99	322	16:47:53.466	488EY6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,262,776:58:0
800	99	323	02:13:13.466	488EZ6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,263,335:69:0
801	99	323	02:58:01.466	488EZ6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,263,380:06:0
802	99	323	06:33:29.466	488EZ6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,263,593:15:0
803	99	323	06:50:33.466	488EZ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,263,610:04:0
804	99	323	07:43:36.800	488EZ6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,263,662:47:0
805	99	323	08:12:42.800	488FA6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,263,691:27:0
806	99	323	08:26:33.466	488FA6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,263,704:90:0
807	99	323	13:59:21.400	488FA6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,264,034:12:0
808	99	323	14:29:37.400	488FB6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,264,064:06:0
809	99	323	14:33:29.400	488FB6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,264,067:81:0
810	99	323	16:09:30.733	488FB6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,264,162:78:0
811	99	323	16:22:17.400	488FB6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,264,175:45:0
812	99	323	16:58:37.400	488FB6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,264,211:39:0
813	99	323	17:27:43.400	488FC6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,264,240:19:0
814	99	323	18:47:21.400	488FC6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,264,318:88:0
815	99	323	23:43:53.400	488FD6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,264,612:22:0
816	99	324	00:00:57.400	488FD6B	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,264,629:11:0
817	99	324	01:05:01.400	488FD6C	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,264,692:44:0
818	99	324	01:31:51.400	488FD6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,264,719:02:0
819	99	324	06:29:13.400	488FE6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,265,013:11:0
820	99	324	06:52:41.400	488FE6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,265,036:30:0
821	99	324	07:38:39.400	488FE6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,265,081:72:0
822	99	324	08:07:45.400	488FE6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,265,110:52:0
823	99	324	09:07:05.400	488FE6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,265,169:23:0

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
824	99	324	13:08:09.400	488FF6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,265,407:61:0	
825	99	324	15:28:57.400	488FF6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,265,546:84:0	
826	99	324	16:11:37.400	488FF6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,265,589:11:0	
827	99	324	16:48:40.733	488FF6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,265,625:70:0	
828	99	324	17:09:13.400	488FF6E	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,265,646:08:0	
829	99	324	17:15:43.400	488FG6A	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,265,652:47:0	
830	99	324	23:58:49.333	488FH6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,266,051:17:0	
831	99	325	01:13:41.333	488FH6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,266,125:21:0	
832	99	325	01:42:47.333	488FH6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,266,154:01:0	
833	99	325	01:51:53.333	488FH6D	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,266,163:01:0	
834	99	325	06:33:29.333	488FI6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,266,441:47:0	
835	99	325	07:01:13.333	488FI6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,266,468:86:0	
836	99	325	07:43:42.666	488FI6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,266,510:88:0	
837	99	325	08:17:48.666	488FI6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,266,544:63:0	
838	99	325	15:14:01.333	488FJ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,266,956:30:0	
839	99	325	16:07:21.333	488FJ6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,009:07:0	
840	99	325	16:48:43.333	488FJ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,049:90:0	
841	99	325	17:17:49.333	488FJ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,078:70:0	
842	99	325	17:36:57.333	488FJ6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,267,097:63:0	
843	99	326	00:50:01.333	488FK6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,526:00:0	
844	99	326	01:00:01.333	488FK6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,535:81:0	
845	99	326	01:04:57.333	488FK6C	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,267,540:70:0	
846	99	326	03:59:05.266	432MC431A6A	6RCDSL	DDSDSL,PLSNCG,EP	Record Deselect (DDS o	4O0	4	0	5,267,712:90:0	
847	99	326	03:59:05.933	432MC6A	6RTSL1		R/T Select of DDS and	4O0	4	0	5,267,713:00:0	
848	99	326	06:31:02.600	488FK6D	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,267,863:25:0	
849	99	326	07:07:37.266	488FL6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,899:41:0	
850	99	326	07:28:45.266	488FL6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,920:32:0	
851	99	326	07:57:51.933	488FL6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,267,949:13:0	
852	99	326	14:54:49.266	488FM6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,268,361:47:0	
853	99	326	15:43:45.933	488FM6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,268,409:84:0	
854	99	326	15:48:09.266	488FM6C	6TMSED	FILL,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,268,414:24:0	
855	99	326	16:11:20.600	488FM6D	6TMSED	NORM,AL2	Sci, Eng, and D/L Chan	4O0	4	0	5,268,437:18:0	
856	99	326	16:15:53.266	488FM6E	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,268,441:63:0	
857	99	326	16:40:59.933	488FN6A	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,268,466:48:0	
858	99	326	17:04:57.266	488FN6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,268,490:20:0	
859	99	326	17:11:31.933	488FN6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,268,496:66:0	
860	99	326	17:13:46.600	488FN6D	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,268,498:86:0	
861	99	326	17:42:52.600	488FN6E	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,268,527:66:0	
862	99	327	01:48:47.266	488FO6A	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,008:27:0	
863	99	327	02:22:53.933	488FO6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,042:03:0	
864	99	327	06:18:33.266	488FO6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,269,275:09:0	
865	99	327	07:16:09.266	488FO6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,332:06:0	
866	99	327	07:18:48.600	488FO6E	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,334:63:0	
867	99	327	07:52:54.600	488FP6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,368:38:0	
868	99	327	14:44:09.200	488FQ6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,269,775:13:0	
869	99	327	16:36:03.200	488FQ6B	6TMSED	FILL,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,269,885:74:0	
870	99	327	17:11:21.200	488FQ6C	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,920:66:0	
871	99	327	17:17:01.866	488FQ6D	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,926:31:0	
872	99	327	17:52:59.866	488FQ6E	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,269,961:83:0	
873	99	327	17:56:07.200	176QG6A	6TMREC	**PPB**	PAUSE PLAYBACK (PB CONTROL) Record Mode C	4O0	4	0	5,269,965:00:0	
874	99	327	23:00:59.866	488FR6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,270,266:48:0	
875	99	327	23:01:28.533	176QH6A	6TMREC	**RPB**	RESUME PLAYBACK (PB CONTROL) Record Mode	4O0	4	0	5,270,267:00:0	
876	99	327	23:04:59.866	41FZ99A	**POWER**	**PWR MODE change**	Change to Data Taking Mode	4O0	4	0	5,270,270:44:0	
877	**99**	**327**	**23:05:03.866**	**41FZ3A**	**40T1PR**	**1**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,270,270:50:0**	
878	**99**	**327**	**23:05:13.866**	**41FZ3B**	**40T1PR**	**2**	**PCT Heater 1 OFF (primary relay)**	**4O0**	**4**	**0**	**5,270,270:65:0**	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
879	**99**	**327**	**23:05:23.866**	**41FZ3C**	**40T2R**	**1**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,270,270:80:0**	
880	**99**	**327**	**23:05:33.866**	**41FZ3D**	**40T2R**	**2**	**PCT Heater 2 OFF**	**4O0**	**4**	**0**	**5,270,271:04:0**	
881	99	328	02:13:50.533	488FR6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,270,457:23:0	
882	99	328	02:47:56.533	488FR6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,270,490:89:0	
883	99	328	03:54:41.866	176SB6A	6TMREC	**TPB**	TERMINATE PLAYBACK (PB CONTROL) Record Mo	4O0	4	0	5,270,557:00:0	
884	99	328	06:14:17.200	488FS6A	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,270,695:05:0	
885	99	328	06:31:21.200	488FS6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,270,711:85:0	
886	99	328	07:16:09.200	488FS6C	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,270,756:22:0	
887	99	328	07:25:13.866	488FS6D	6TMSED	FILL,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,270,765:20:0	
888	99	328	07:47:15.200		DMS:	: *SLEW-TIC	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,270,787:00:0	
889	99	328	07:47:15.200		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,270,787:00:0	
890	99	328	07:47:15.200	465WK6A	6DMST	5000	DMS Slew to TIC	4O0	4	0	5,270,787:00:0	
891	99	328	07:47:15.200		DMS:	: *TURNARND	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,270,787:00:0	
892	99	328	07:47:21.866		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,270,787:10:0	
893	99	328	07:47:23.266		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 202.24 +/-	4O0	4	0	5,270,787:12:1	
894	99	328	07:52:03.200	488FS6E	6TMSED	NORM,AL6	Sci, Eng, and D/L Chan	4O0	4	0	5,270,791:68:0	
895	99	328	08:59:59.866	481UA4A	7VECT		Inert vect update UTC	4O0	4	0	5,270,858:86:0	
896	99	328	13:28:24.000		DMS:	: *RUNDOWN	P7, TRACK 1, FWD, TIC *4997.94 +/-	4O0	4	0	5,271,124:36:2	
897	99	328	13:28:25.200		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *4998.00 +/-	4O0	4	0	5,271,124:38:0	
898	99	328	13:40:56.533		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 4998.00 +/-	4O0	4	0	5,271,136:73:0	
899	99	328	13:40:56.533	465WL6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,271,136:73:0	
900	99	328	13:40:57.933		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *4998.12 +/-	4O0	4	0	5,271,136:75:1	
901	99	328	13:41:03.200		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *4999.35 +/-	4O0	4	0	5,271,136:83:0	
902	99	328	13:41:04.400		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *4999.41 +/-	4O0	4	0	5,271,136:84:8	
903	99	328	13:41:08.266		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 4993.91 +/-	4O0	4	0	5,271,136:90:6	
904	99	328	13:41:08.266		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *4993.91 +/-	4O0	4	0	5,271,136:90:6	
905	99	328	14:06:48.533	465WL6B	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,271,162:35:0	
906	99	328	14:06:48.533		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 255.79 +/-	4O0	4	0	5,271,162:35:0	
907	99	328	14:06:49.733		DMS:	: *READY	RDY, TRACK 4, REV, TIC * 254.99 +/-	4O0	4	0	5,271,162:36:8	
908	99	328	14:39:53.200	488FT6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,195:09:0	
909	99	328	15:33:13.200	488FT6B	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,271,247:77:0	
910	99	328	16:05:37.200	465WM6A	6DTRN	CMD,6DTRN,465WM6	DMS TRACK TURNAROUND	4O0	4	0	5,271,279:81:0	
911	99	328	16:05:37.200		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 254.99 +/-	4O0	4	0	5,271,279:81:0	
912	99	328	16:05:37.200		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 254.99 +/-	4O0	4	0	5,271,279:81:0	
913	99	328	16:05:38.600		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 255.11 +/-	4O0	4	0	5,271,279:83:1	
914	99	328	16:05:43.866		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 256.34 +/-	4O0	4	0	5,271,280:00:0	
915	99	328	16:05:45.066		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 256.40 +/-	4O0	4	0	5,271,280:01:8	
916	99	328	16:05:46.466		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 256.28 +/-	4O0	4	0	5,271,280:03:9	
917	99	328	16:09:09.200	488FT6C	6TMSED	NORM,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,271,283:35:0	
918	99	328	16:09:47.133		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	5,271,284:00:9	
919	99	328	16:09:48.333		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	5,271,284:02:7	
920	99	328	16:09:48.333		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	5,271,284:02:7	
921	99	328	16:09:49.733		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,271,284:04:8	
922	99	328	16:10:01.733		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,271,284:22:8	
923	99	328	16:10:02.933		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,271,284:24:6	
924	99	328	16:15:39.866		DMS:	: *E4-DELAY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,271,289:75:0	
925	99	328	16:15:39.866	465WN6A	6DMSC	P100,1	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,271,289:75:0	
926	99	328	16:15:46.533		DMS:	: *RUNUP	P100, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,271,289:85:0	
927	99	328	16:15:50.400		DMS:	: *P_SLEW	P100, TRACK 1, FWD, TIC * 207.62 +/-	4O0	4	0	5,271,289:90:8	
928	99	328	16:15:50.400		DMS:	: *AT_SPD	P100, TRACK 1, FWD, TIC 207.62 +/-	4O0	4	0	5,271,289:90:8	
929	99	328	16:47:02.533	488FT6D	6TMSED	FILL,AH4	Sci, Eng, and D/L Chan	4O0	4	0	5,271,320:78:0	
930	99	328	16:47:33.866		DMS:	: *RUNDOWN	P100, TRACK 1, FWD, TIC *6063.01 +/-	4O0	4	0	5,271,321:34:0	
931	99	328	16:47:33.866	465WN6B	6DMSC	RDY,1	DMS Control Tape stop	4O0	4	0	5,271,321:34:0	
932	99	328	16:47:35.066		DMS:	: *READY	RDY, TRACK 1, FWD, TIC *6063.81 +/-	4O0	4	0	5,271,321:35:8	
933	99	328	16:52:09.200	488FT6E	6TMSED	FILL,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,325:83:0	

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM MF I
934	99	328	17:03:09.866		DMS:	: *US-RUNUP	P7, TRACK 1, FWD, TIC 6063.81 +/-	4O0	4	0	5,271,336:73:0
935	99	328	17:03:09.866	465WO6A	6DMSC	P100,2	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,271,336:73:0
936	99	328	17:03:11.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.93 +/-	4O0	4	0	5,271,336:75:1
937	99	328	17:03:16.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6065.17 +/-	4O0	4	0	5,271,336:83:0
938	99	328	17:03:17.733		DMS:	: *RUNUP	P100, TRACK *2, *REV, TIC *6065.23 +/-	4O0	4	0	5,271,336:84:8
939	99	328	17:03:21.600		DMS:	: *AT_SPD	P100, TRACK 2, REV, TIC 6059.73 +/-	4O0	4	0	5,271,336:90:6
940	99	328	17:03:21.600		DMS:	: *P_SLEW	P100, TRACK 2, REV, TIC *6059.73 +/-	4O0	4	0	5,271,336:90:6
941	99	328	17:17:57.866	488FU6A	6TMSED	NORM,AH5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,351:40:0
942	99	328	17:35:17.866		DMS:	: *RUNDOWN	P100, TRACK 2, REV, TIC * 164.96 +/-	4O0	4	0	5,271,368:53:0
943	99	328	17:35:17.866	465WP6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,271,368:53:0
944	99	328	17:35:19.066		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 164.16 +/-	4O0	4	0	5,271,368:54:8
945	99	328	17:35:22.933		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 169.66 +/-	4O0	4	0	5,271,368:60:6
946	99	328	17:35:22.933		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 169.66 +/-	4O0	4	0	5,271,368:60:6
947	99	328	18:07:18.533		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC *6062.38 +/-	4O0	4	0	5,271,400:22:0
948	99	328	18:07:18.533	465WP6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,271,400:22:0
949	99	328	18:07:19.733		DMS:	: *READY	RDY, TRACK 3, FWD, TIC *6063.18 +/-	4O0	4	0	5,271,400:23:8
950	99	328	18:22:01.866		DMS:	: *US-RUNUP	P7, TRACK *1, FWD, TIC 6063.18 +/-	4O0	4	0	5,271,414:73:0
951	99	328	18:22:01.866	465WQ6A	6DMSC	P100,4	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,271,414:73:0
952	99	328	18:22:03.266		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC *6063.30 +/-	4O0	4	0	5,271,414:75:1
953	99	328	18:22:08.533		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC *6064.53 +/-	4O0	4	0	5,271,414:83:0
954	99	328	18:22:09.733		DMS:	: *RUNUP	P100, TRACK *4, *REV, TIC *6064.59 +/-	4O0	4	0	5,271,414:84:8
955	99	328	18:22:13.600		DMS:	: *AT_SPD	P100, TRACK 4, REV, TIC 6059.09 +/-	4O0	4	0	5,271,414:90:6
956	99	328	18:22:13.600		DMS:	: *P_SLEW	P100, TRACK 4, REV, TIC *6059.09 +/-	4O0	4	0	5,271,414:90:6
957	99	328	18:54:09.133		DMS:	: *RUNDOWN	P100, TRACK 4, REV, TIC * 166.58 +/-	4O0	4	0	5,271,446:52:0
958	99	328	18:54:09.133	465WR6A	6DMSC	P100,3	DMS Control Tape P/B 100.8kbps	4O0	4	0	5,271,446:52:0
959	99	328	18:54:10.333		DMS:	: *RUNUP	P100, TRACK *3, *FWD, TIC * 165.78 +/-	4O0	4	0	5,271,446:53:8
960	99	328	18:54:14.200		DMS:	: *AT_SPD	P100, TRACK 3, FWD, TIC 171.28 +/-	4O0	4	0	5,271,446:59:6
961	99	328	18:54:14.200		DMS:	: *P_SLEW	P100, TRACK 3, FWD, TIC * 171.28 +/-	4O0	4	0	5,271,446:59:6
962	99	328	18:55:15.133	465WR6B	6DMSC	RDY,3	DMS Control Tape stop	4O0	4	0	5,271,447:60:0
963	99	328	18:55:15.133		DMS:	: *RUNDOWN	P100, TRACK 3, FWD, TIC * 358.72 +/-	4O0	4	0	5,271,447:60:0
964	99	328	18:55:16.333		DMS:	: *READY	RDY, TRACK 3, FWD, TIC * 359.52 +/-	4O0	4	0	5,271,447:61:8
965	99	328	18:55:59.133	488FU6B	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,448:35:0
966	99	328	19:09:45.133		DMS:	: READY	RDY, TRACK *4, *REV, TIC 359.52 +/-	4O0	4	0	5,271,462:00:0
967	99	328	19:09:45.133	465WS6A	6DMSC	RDY,4	DMS Control Tape stop	4O0	4	0	5,271,462:00:0
968	99	328	19:10:39.133	465WT6A	6DTRN	CMD,6DTRN,465WT6	DMS TRACK TURNAROUND	4O0	4	0	5,271,462:81:0
969	99	328	19:10:39.133		DMS:	: *US-RUNUP	P7, TRACK *1, *FWD, TIC 359.52 +/-	4O0	4	0	5,271,462:81:0
970	99	328	19:10:39.133		DMS:	: *DMS-TURN	P7, TRACK 4, REV, TIC 359.52 +/-	4O0	4	0	5,271,462:81:0
971	99	328	19:10:40.533		DMS:	: *US_AT_SP	P7, TRACK 1, FWD, TIC * 359.64 +/-	4O0	4	0	5,271,462:83:1
972	99	328	19:10:45.800		DMS:	: *US_RD	P7, TRACK 1, FWD, TIC * 360.88 +/-	4O0	4	0	5,271,463:00:0
973	99	328	19:10:47.000		DMS:	: *RUNUP	P7, TRACK *4, *REV, TIC * 360.94 +/-	4O0	4	0	5,271,463:01:8
974	99	328	19:10:48.400		DMS:	: *AT_SPD	P7, TRACK 4, REV, TIC * 360.82 +/-	4O0	4	0	5,271,463:03:9
975	99	328	19:22:15.066		DMS:	: *REVERSE	P7, TRACK 4, REV, TIC * 199.87 +/-	4O0	4	0	5,271,474:32:9
976	99	328	19:22:16.266		DMS:	: *TURNARND	P7, TRACK *1, *FWD, TIC * 199.81 +/-	4O0	4	0	5,271,474:34:7
977	99	328	19:22:16.266		DMS:	: *RUNUP	P7, TRACK 1, FWD, TIC 199.81 +/-	4O0	4	0	5,271,474:34:7
978	99	328	19:22:17.666		DMS:	: *AT_SPD	P7, TRACK 1, FWD, TIC * 199.93 +/-	4O0	4	0	5,271,474:36:8
979	99	328	19:22:29.666		DMS:	: *AUTOSTOP	P7, TRACK 1, FWD, TIC * 202.06 +/-	4O0	4	0	5,271,474:54:8
980	99	328	19:22:30.866		DMS:	: *READY	RDY, TRACK 1, FWD, TIC * 202.12 +/-	4O0	4	0	5,271,474:56:6
981	99	328	22:54:49.133	488FU6C	6TMSED	NORM,AL4	Sci, Eng, and D/L Chan	4O0	4	0	5,271,684:54:0
982	99	328	23:59:59.800	481UD4A	7VECT		Inert vect update UTC	4O0	4	0	5,271,749:05:0
983	99	329	00:00:57.133	488FV6A	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,750:00:0
984	99	329	00:03:51.800	488FV6B	6TMSED	FILL,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,752:80:0
985	99	329	00:37:57.800	488FV6C	6TMSED	NORM,AL5	Sci, Eng, and D/L Chan	4O0	4	0	5,271,786:55:0
986	99	329	03:59:59.800		DMS:	: READY	RDY, TRACK 1, FWD, TIC 202.12 +/-	4O0	4	0	5,271,986:38:0
987	**99**	**329**	**04:00:00.000**	**20A3EW**	**37A**	**Final Condition**	**NIMS Power ON**	**4O0**	**4**	**0**	**5,271,986:38:3**
988	**99**	**329**	**04:00:00.000**	**20A3EX**	**37HR**	**Final Condition**	**Replacement Heaters OFF**	**4O0**	**4**	**0**	**5,271,986:38:3**

Line	YR	DOY	SCET - GMT	PSID	Command	Parameters	Description	GCM	GO	GS	RIM	MF I
989	99	329	04:00:00.000	20A3EY	37C1PR	Final Condition	Optics Heater 1 OFF (primary relay)	4O0	4	0	5,271,986:38:3	
990	99	329	04:00:00.000	20A3EZ	37C2PR	Final Condition	Optics Heater 2 OFF (primary relay)	4O0	4	0	5,271,986:38:3	
991	99	329	04:00:00.000	20A3FA	37F1PR	Final Condition	Radiator Flash Heater OFF (primary relay)	4O0	4	0	5,271,986:38:3	
992	99	329	04:00:00.000	20A3FB	37F2PR	Final Condition	Shield Flash Heater OFF (primary relay)	4O0	4	0	5,271,986:38:3	
993	99	329	04:00:00.000	20A3FD	40HRPR	Final Condition	RCT Heater OFF (primary relay)	4O0	4	0	5,271,986:38:3	
994	99	329	04:00:00.000	20A3FE	40T1PR	Final Condition	PCT Heater 1 OFF (primary relay)	4O0	4	0	5,271,986:38:3	
995	99	329	04:00:00.000	20A3FF	40T2R	Final Condition	PCT Heater 2 OFF	4O0	4	0	5,271,986:38:3	

24INLOKIRA01

OAPEL: 24INLOKIRA01	ALIAS: 24INLOKIRA01
EXT: A	PSID: DA
SCLK1: 05207919:87:0	SCLK2: 05207924:80:0
SCET1: 99-284/04:21:43.400	SCET2: 99-284/04:26:42.733
TARGET: IO	PARTITION: 1

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

MB_DOWN: 00000	MB_UP: 00000
COMP_FLAG: 1	
EST_COMP: 2.0	EST_COMPV: 0.3
RATE_CON1: 00000	RATE_CON2: 65525
NWAVETOT: 360	TLMFMT: MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INHSPELE01

OAPEL:	24INHSPELE01	ALIAS:	24INHSPELE01
EXT:	A	PSID:	DB
SCLK1:	05207926:43:0	SCLK2:	05207927:28:0
SCET1:	99-284/04:28:18.733	SCET2:	99-284/04:29:10.066
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPILLAN01

OAPEL:	24INPILLAN01	ALIAS:	24ISPILLAN01
EXT:	B	PSID:	IB
SCLK1:	05207929:49:0	SCLK2:	05207930:04:0
SCET1:	99-284/04:31:25.400	SCET2:	99-284/04:31:56.066
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	AI8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPILLAN01

OAPEL:	24INPILLAN01	ALIAS:	24INPILLAN01
EXT:	A	PSID:	DC
SCLK1:	05207930:66:0	SCLK2:	05207931:51:0
SCET1:	99-284/04:32:36.733	SCET2:	99-284/04:33:28.066
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INCOLCHS01

OAPEL:	24INCOLCHS01	ALIAS:	24INCOLCHS01
EXT:	A	PSID:	DD
SCLK1:	05207933:66:0	SCLK2:	05207934:51:0
SCET1:	99-284/04:35:38.733	SCET2:	99-284/04:36:30.066
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INZAMAMA01

OAPEL:	24INZAMAMA01	ALIAS:	24INZAMAMA01
EXT:	A	PSID:	DE
SCLK1:	05207937:66:0	SCLK2:	05207938:51:0
SCET1:	99-284/04:39:41.400	SCET2:	99-284/04:40:32.733
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPROMTH01

OAPEL:	24INPROMTH01	ALIAS:	24ISPROMTH01
EXT:	B	PSID:	IE
SCLK1:	05207940:64:0	SCLK2:	05207941:05:0
SCET1:	99-284/04:42:42.066	SCET2:	99-284/04:43:03.400
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	AI8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPROMTH01

OAPEL:	24INPROMTH01	ALIAS:	24INPROMTH01
EXT:	A	PSID:	DF
SCLK1:	05207945:52:0	SCLK2:	05207946:39:0
SCET1:	99-284/04:47:38.066	SCET2:	99-284/04:48:29.400
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INCOLCHS02

OAPEL:	24INCOLCHS02	ALIAS:	24INCOLCHS02
EXT:	A	PSID:	DG
SCLK1:	05207950:38:0	SCLK2:	05207951:23:0
SCET1:	99-284/04:52:31.400	SCET2:	99-284/04:53:22.733
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INNTOHIL01

OAPEL:	24INNTOHIL01	ALIAS:	24INNTOHIL01
EXT:	A	PSID:	DH
SCLK1:	05207955:27:0	SCLK2:	05207956:14:0
SCET1:	99-284/04:57:28.066	SCET2:	99-284/04:58:19.400
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPROMTH02

OAPEL:	24INPROMTH02	ALIAS:	24INPROMTH02
EXT:	A	PSID:	DI
SCLK1:	05207963:16:0	SCLK2:	05207970:09:0
SCET1:	99-284/05:05:26.066	SCET2:	99-284/05:12:25.400
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INZAMAMA02

OAPEL:	24INZAMAMA02	ALIAS:	24ISZAMAMA02
EXT:	B	PSID:	IK
SCLK1:	05207971:36:0	SCLK2:	05207971:54:0
SCET1:	99-284/05:13:44.066	SCET2:	99-284/05:13:56.733
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	AI8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INZAMAMA02

OAPEL:	24INZAMAMA02	ALIAS:	24ISZAMAMA02
EXT:	C	PSID:	IK
SCLK1:	05207974:43:0	SCLK2:	05207974:62:0
SCET1:	99-284/05:16:50.733	SCET2:	99-284/05:17:03.400
TARGET:	IO	PARTITION:	1

MODE:	0	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 0 0 0 012	PTAB_B:	1 0 0 0 012
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	15	TLMFMT:	AI8

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

WETGID: 0013015001 00 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111

24INZAMAMA02

OAPEL:	24INZAMAMA02	ALIAS:	24INZAMAMA02
EXT:	A	PSID:	DJ
SCLK1:	05207975:86:0	SCLK2:	05207978:46:0
SCET1:	99-284/05:18:20.733	SCET2:	99-284/05:20:56.066
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INDORIAN01

OAPEL:	24INDORIAN01	ALIAS:	24INDORIAN01
EXT:	A	PSID:	DK
SCLK1:	05207981:16:0	SCLK2:	05207982:03:0
SCET1:	99-284/05:23:38.066	SCET2:	99-284/05:24:29.400
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INAMSKGI01

OAPEL:	24INAMSKGI01	ALIAS:	24ISAMSKGI01
EXT:	B	PSID:	IN
SCLK1:	05207983:29:0	SCLK2:	05207983:47:0
SCET1:	99-284/05:25:47.400	SCET2:	99-284/05:26:00.066
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	AI8

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INAMSKGI01

OAPEL: 24INAMSKGI01
ALIAS: 24ISAMSKGI01
EXT: C
PSID: IN
SCLK1: 05207986:36:0
SCLK2: 05207986:54:0
SCET1: 99-284/05:28:54.066
SCET2: 99-284/05:29:06.733
TARGET: IO
PARTITION: 1

MODE: 0
GAIN: 2
CHOP: 1
GRAT_OFF: 4
PTAB_A: 1 0 0 0 012
PTAB_B: 1 0 0 0 012
ECAL: 0
OPCAL: 0
R/T: 0
RECORD: 1

MB_DOWN: 00000
MB_UP: 00000
COMP_FLAG: 1
EST_COMP: 2.0
EST_COMPV: 0.3
RATE_CON1: 00000
RATE_CON2: 65525
NWAVETOT: 15
TLMFMT: AI8

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

WETGID: 0013015001 00 13 015 001
WTGRP_SIZ: 13

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111

24INAMSKGI01

OAPEL:	24INAMSKGI01	ALIAS:	24INAMSKGI01
EXT:	A	PSID:	DL
SCLK1:	05207987:79:0	SCLK2:	05207990:40:0
SCET1:	99-284/05:30:24.066	SCET2:	99-284/05:32:59.400
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INTERMAP01

OAPEL:	24INTERMAP01	ALIAS:	24INTERMAP01
EXT:	A	PSID:	DM
SCLK1:	05207993:29:0	SCLK2:	05207994:54:0
SCET1:	99-284/05:35:54.733	SCET2:	99-284/05:37:12.066
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	3
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INREGION01

OAPEL:	24INREGION01	ALIAS:	24INREGION01
EXT:	A	PSID:	DN
SCLK1:	05208026:87:0	SCLK2:	05208058:53:0
SCET1:	99-284/06:09:54.733	SCET2:	99-284/06:41:54.066
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPPLUME01

OAPEL:	24INPPLUME01	ALIAS:	24INPPLUME01
EXT:	A	PSID:	DO
SCLK1:	05208064:26:0	SCLK2:	05208069:19:0
SCET1:	99-284/06:47:39.400	SCET2:	99-284/06:52:38.733
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INPELEPM01

OAPEL:	24INPELEPM01	ALIAS:	24INPELEPM01
EXT:	A	PSID:	DP
SCLK1:	05208141:87:0	SCLK2:	05208146:80:0
SCET1:	99-284/08:06:11.400	SCET2:	99-284/08:11:10.733
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INSTEREO01

OAPEL:	24INSTEREO01	ALIAS:	24ISSTEREO01
EXT:	A	PSID:	IR
SCLK1:	05208212:02:0	SCLK2:	05208213:63:0
SCET1:	99-284/09:17:02.733	SCET2:	99-284/09:18:44.066
TARGET:	IO	PARTITION:	1

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

MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	IM4

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INREGION02

OAPEL:	24INREGION02	ALIAS:	24INREGION02
EXT:	A	PSID:	DZ
SCLK1:	05208299:87:0	SCLK2:	05208316:17:0
SCET1:	99-284/10:45:56.733	SCET2:	99-284/11:02:22.066
TARGET:	IO	PARTITION:	1
MODE:	3	GAIN:	2
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 0 0 124	PTAB_B:	1 1 0 0 124
ECAL:	0	OPCAL:	0
R/T:	0	RECORD:	1
MB_DOWN:	00000	MB_UP:	00000
COMP_FLAG:	1		
EST_COMP:	2.0	EST_COMPV:	0.3
RATE_CON1:	00000	RATE_CON2:	65525
NWAVETOT:	360	TLMFMT:	MPW

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24INGLOCOL01

OAPEL: 24INGLOCOL01
EXT: A
SCLK1: 05208734:28:0
SCET1: 99-284/18:05:08.066
TARGET: IO

ALIAS: 24ISGLOCOL01
PSID: IS
SCLK2: 05208735:12:0
SCET2: 99-284/18:05:57.400
PARTITION: 1

MODE: 3
CHOP: 1
PTAB_A: 1 1 0 0 124
ECAL: 0
R/T: 0

GAIN: 2
GRAT_OFF: 4
PTAB_B: 1 1 0 0 124
OPCAL: 0
RECORD: 1

MB_DOWN: 00000
COMP_FLAG: 1
EST_COMP: 2.0
RATE_CON1: 00000
NWAVETOT: 360

MB_UP: 00000
EST_COMPV: 0.3
RATE_CON2: 65525
TLMFMT: IM4

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

WETGID: 0326360001 03 26 360 001
WTGRP_SIZ: 26

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1BDFF	1,1011,1101,1111,1111
1	1BDFF	1,1011,1101,1111,1111
2	1BDFF	1,1011,1101,1111,1111
3	1BDFF	1,1011,1101,1111,1111
4	1BDFF	1,1011,1101,1111,1111
5	1BDFF	1,1011,1101,1111,1111
6	1BDFF	1,1011,1101,1111,1111
7	1BDFF	1,1011,1101,1111,1111
8	1BDFF	1,1011,1101,1111,1111
9	1BDFF	1,1011,1101,1111,1111
10	1BDFF	1,1011,1101,1111,1111
11	1BDFF	1,1011,1101,1111,1111
12	1BDFF	1,1011,1101,1111,1111
13	1BDFF	1,1011,1101,1111,1111
14	1BDFF	1,1011,1101,1111,1111
15	1BDFF	1,1011,1101,1111,1111
16	1BDFF	1,1011,1101,1111,1111
17	1BDFF	1,1011,1101,1111,1111
18	1BDFF	1,1011,1101,1111,1111
19	1BDFF	1,1011,1101,1111,1111
20	1BDFF	1,1011,1101,1111,1111
21	1BDFF	1,1011,1101,1111,1111
22	1BDFF	1,1011,1101,1111,1111
23	1BDFF	1,1011,1101,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24NNPCTRLT01

OAPEL:	24NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	R	PSID:	FB
SCLK1:	05224246:00:0	SCLK2:	05224247:12:0
SCET1:	1999-295/15:29:09.466	SCET2:	1999-295/15:30:18.133
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

24NNPCTRLT01

OAPEL:	24NNPCTRLT01	ALIAS:	LSNNPCTRLT01
EXT:	S	PSID:	FB
SCLK1:	05224252:00:0	SCLK2:	05224261:12:0
SCET1:	1999-295/15:34:73.466	SCET2:	1999-295/15:44:27.466
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

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

24NNOPCAL_02

OAPEL:	24NNOPCAL_02	ALIAS:	24NNOPCAL_02
EXT:	R	PSID:	XA
SCLK1:	05226464:00:0	SCLK2:	05226468:12:0
SCET1:	1999-297/04:51:48.066	SCET2:	1999-297/04:55:58.733
TARGET:	CAL	PARTITION:	1

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

MB_DOWN:	11011	MB_UP:	11011
COMP_FLAG:	0		
EST_COMP:	0.0	EST_COMPV:	0.0
RATE_CON1:	00000	RATE_CON2:	00000
NWAVETOT:	408	TLMFMT:	RT

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

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

24NNOPCAL_03

OAPEL:	24NNOPCAL_03	ALIAS:	24NNOPCAL_03
EXT:	R	PSID:	XB
SCLK1:	05238071:00:0	SCLK2:	05238074:12:0
SCET1:	1999-305/08:27:45.666	SCET2:	1999-305/08:30:55.666
TARGET:	CAL	PARTITION:	1

MODE:	8	GAIN:	4
CHOP:	1	GRAT_OFF:	4
PTAB_A:	1 1 011 0 1	PTAB_B:	1 1 023 0 1
ECAL:	1	OPCAL:	1
R/T:	1	RECORD:	0

MB_DOWN:	11011	MB_UP:	11011
COMP_FLAG:	0		
EST_COMP:	0.0	EST_COMPV:	0.0
RATE_CON1:	00000	RATE_CON2:	00000
NWAVETOT:	408	TLMFMT:	RT

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

WETGID: 0302408000 03 02 408 000
WTGRP_SIZ: 2

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	1FFFF	1,1111,1111,1111,1111
1	1FFFF	1,1111,1111,1111,1111
2	1FFFF	1,1111,1111,1111,1111
3	1FFFF	1,1111,1111,1111,1111

24NNRCTRLT01

OAPEL: 24NNRCTRLT01
ALIAS: LSNNRCTRTA01
EXT: R
PSID: XU
SCLK1: 05249353:00:0
SCLK2: 05249353:12:0
SCET1: 1999-313/06:35:06.600
SCET2: 1999-313/06:35:14.600
TARGET: CAL
PARTITION: 1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	003FF	0,0000,0011,1111,1111
1	003FF	0,0000,0011,1111,1111
2	003FF	0,0000,0011,1111,1111
3	003FF	0,0000,0011,1111,1111
4	003FF	0,0000,0011,1111,1111
5	003FF	0,0000,0011,1111,1111
6	003FF	0,0000,0011,1111,1111
7	003FF	0,0000,0011,1111,1111
8	003FF	0,0000,0011,1111,1111
9	003FF	0,0000,0011,1111,1111
10	003FF	0,0000,0011,1111,1111
11	003FF	0,0000,0011,1111,1111
12	007FF	0,0000,0111,1111,1111
13	007FF	0,0000,0111,1111,1111
14	007FF	0,0000,0111,1111,1111
15	007FF	0,0000,0111,1111,1111
16	007FF	0,0000,0111,1111,1111
17	007FF	0,0000,0111,1111,1111
18	007FF	0,0000,0111,1111,1111
19	007FF	0,0000,0111,1111,1111
20	007FF	0,0000,0111,1111,1111
21	007FF	0,0000,0111,1111,1111
22	007FF	0,0000,0111,1111,1111
23	007FF	0,0000,0111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24NNRCTRLT01

OAPEL:	24NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	S	PSID:	XU
SCLK1:	05249359:00:0	SCLK2:	05249360:12:0
SCET1:	1999-313/06:41:10.600	SCET2:	1999-313/06:42:19.266
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	003FF	0,0000,0011,1111,1111
1	003FF	0,0000,0011,1111,1111
2	003FF	0,0000,0011,1111,1111
3	003FF	0,0000,0011,1111,1111
4	003FF	0,0000,0011,1111,1111
5	003FF	0,0000,0011,1111,1111
6	003FF	0,0000,0011,1111,1111
7	003FF	0,0000,0011,1111,1111
8	003FF	0,0000,0011,1111,1111
9	003FF	0,0000,0011,1111,1111
10	003FF	0,0000,0011,1111,1111
11	003FF	0,0000,0011,1111,1111
12	007FF	0,0000,0111,1111,1111
13	007FF	0,0000,0111,1111,1111
14	007FF	0,0000,0111,1111,1111
15	007FF	0,0000,0111,1111,1111
16	007FF	0,0000,0111,1111,1111
17	007FF	0,0000,0111,1111,1111
18	007FF	0,0000,0111,1111,1111
19	007FF	0,0000,0111,1111,1111
20	007FF	0,0000,0111,1111,1111
21	007FF	0,0000,0111,1111,1111
22	007FF	0,0000,0111,1111,1111
23	007FF	0,0000,0111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24NNRCTRLT01

OAPEL:	24NNRCTRLT01	ALIAS:	LSNNRCTRTA01
EXT:	T	PSID:	XU
SCLK1:	05249365:00:0	SCLK2:	05249365:12:0
SCET1:	1999-313/06:47:14.600	SCET2:	1999-313/06:47:22.600
TARGET:	CAL	PARTITION:	1

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

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

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

WETGID: 0303252000 03 03 252 000
WTGRP_SIZ: 3

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	003FF	0,0000,0011,1111,1111
1	003FF	0,0000,0011,1111,1111
2	003FF	0,0000,0011,1111,1111
3	003FF	0,0000,0011,1111,1111
4	003FF	0,0000,0011,1111,1111
5	003FF	0,0000,0011,1111,1111
6	003FF	0,0000,0011,1111,1111
7	003FF	0,0000,0011,1111,1111
8	003FF	0,0000,0011,1111,1111
9	003FF	0,0000,0011,1111,1111
10	003FF	0,0000,0011,1111,1111
11	003FF	0,0000,0011,1111,1111
12	007FF	0,0000,0111,1111,1111
13	007FF	0,0000,0111,1111,1111
14	007FF	0,0000,0111,1111,1111
15	007FF	0,0000,0111,1111,1111
16	007FF	0,0000,0111,1111,1111
17	007FF	0,0000,0111,1111,1111
18	007FF	0,0000,0111,1111,1111
19	007FF	0,0000,0111,1111,1111
20	007FF	0,0000,0111,1111,1111
21	007FF	0,0000,0111,1111,1111
22	007FF	0,0000,0111,1111,1111
23	007FF	0,0000,0111,1111,1111
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

24NNOPCAL_01

OAPEL:	24NNOPCAL_01	ALIAS:	LSNNOPCAL_01
EXT:	R	PSID:	DC
SCLK1:	05249369:00:0	SCLK2:	05249371:12:0
SCET1:	1999-313/06:50:77.266	SCET2:	1999-313/06:53:26.600
TARGET:	CAL	PARTITION:	1

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

MB_DOWN:	11011	MB_UP:	11011
COMP_FLAG:	0		
EST_COMP:	0.0	EST_COMPV:	0.0
RATE_CON1:	00000	RATE_CON2:	00000
NWAVETOT:	048	TLMFMT:	RT

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

WETGID: 0302048000 03 02 048 000
WTGRP_SIZ: 2

EDIT TABLE

GRATING STEP	HEX MASK	DETECTOR MASK
0	18000	1,1000,0000,0000,0000
1	18000	1,1000,0000,0000,0000
2	18000	1,1000,0000,0000,0000
3	18000	1,1000,0000,0000,0000
4	18000	1,1000,0000,0000,0000
5	18000	1,1000,0000,0000,0000
6	18000	1,1000,0000,0000,0000
7	18000	1,1000,0000,0000,0000
8	18000	1,1000,0000,0000,0000
9	18000	1,1000,0000,0000,0000
10	18000	1,1000,0000,0000,0000
11	18000	1,1000,0000,0000,0000
12	18000	1,1000,0000,0000,0000
13	18000	1,1000,0000,0000,0000
14	18000	1,1000,0000,0000,0000
15	18000	1,1000,0000,0000,0000
16	18000	1,1000,0000,0000,0000
17	18000	1,1000,0000,0000,0000
18	18000	1,1000,0000,0000,0000
19	18000	1,1000,0000,0000,0000
20	18000	1,1000,0000,0000,0000
21	18000	1,1000,0000,0000,0000
22	18000	1,1000,0000,0000,0000
23	18000	1,1000,0000,0000,0000
24	00000	0,0000,0000,0000,0000
25	00000	0,0000,0000,0000,0000

NIMS I24 OBSTAB

This is a time-ordered ASCII TABLE (listing) of GALILEO NIMS observation parameters for use by downlink data processing of the NIMS I24 data. Each Obstab entry is 512 bytes long but is presented here as 4 lines of 128 characters per entry. Included items come from NIMS commands in (1) the Standard Sequence Data File (SSDF) and (2) the Playback Table Update Process (PTUP), plus some items from (3) the NIMS/CDS software load.

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

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

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

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

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

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


* THRESHSEL     1 105 - 105     .Threshold value select (>0 = yes)                PBK: THRESHLD_TBL > 0 (i.e. 1-3)
  <spare>       1 106 - 106     .
# RTISELDN      5 107 - 111     .RTI select, 5 binary bits (for mirror            SEF: 37MB data byte 1, bits 4-8 <tbd>
                                  position blocking, down scan)
# RTISELUP      5 112 - 116     .RTI select, 5 binary bits (for mirror            SEF: 37MB data byte 2, bits 4-8 <tbd>
                                  position blocking, up scan)
  <spare>       1 117 - 117     .
* RICEFLAG      1 118 - 118     .Rice compression flag                            PBK: 0 no compression
                                                                                       1 Rice compression, ref vals each mirror scan
                                                                                       3 Rice compression, ref vals each RIM rollover
  <spare>       1 119 - 119     .
  ESTCOMP       3 120 - 122     .Rice estimated compression ratio (m.n)           PBK: CMPR_DVSR <tbd>
  ESTCOMPV      3 123 - 125     .Rice estimated error in compression ratio (m.n)PBK: CMPR_UNC <tbd>
# RATECON1      5 126 - 130     .Rate control lower limit                         PBK: | S/W table entry indexed by LOSSY_COMP (1-7)
# RATECON2      5 131 - 135     .Rate control upper limit                         PBK: | or 0 if LOSSY_COMP = 0 (no rate control)
  <spare>      17 136 - 152
  NWAVETOT      3 153 - 155     .Total number of wavelengths selected             Compute from relevant Wavelength Edit Table group
  TLMFMT        3 156 - 158     .Telemetry format (MPW et al, LPU or LNR)           SEF: 6TMREC command
  SCET1        21 159 - 179     .Start time of played-back OBS in UTC             PBK (except realtime data: SEF)
  SCET2        21 180 - 200     .Stop time of played-back OBS in UTC              PBK (except realtime data: SEF)
<spares>       67 201 - 267     .Start time of played-back OBS in UTC             PBK (except realtime data: SEF)
* THRESH       51 268 - 318     .Threshold values (17 3-digit values, 0-999)      PBK: S/W table indexed by THRESH_TBL > 0, else 0s
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# WETGID       10 319 - 328     .Wavelength selection group ID (unique)         PBK: WET_GID    (realtime <tbd>)
                                  Rule of formation: mmeelllnnn where
                                   mm  = instrument mode (0-15)
                                   ee  = # entries in group
                                   lll = number of wavelengths selected
                                   nnn = sequence number
* WETGRPSIZ     2 329 - 330     .# Wavelength Edit entries (1-26)               PBK: ED_GRP_LEN (realtime SEF: 37ETB <tbd>)
* WETGRP      182 331 - 512     .Wavelength Edit Table group:  WETGRPSIZ        PBK: ED_GRP     (realtime SEF: 37ETB data bytes 2..)
                                  entries, each one has 7 characters.  The
                                  first 2 characters are the repeat count
                                  (01-26).  The other 5 characters contain
                                  5 hex digits, representing the detector
                                  mask in the form BHHHH where B is 0 or 1
                                  and H has range 0-15.  (These entries are
                                  from the 37ETB instrument edit group for
                                  realtime data and from the logical AND of
                                  corresponding entries in the instrument
                                  and playback edit groups for playback data.)
--------------------------------
.The TARGET names used are:
   CAL      - N - non-science targets, usually calibration targets
   EARTH    - W - Earth
   MOON     - L - Moon
   SKY      - H - Stellar Space (space and stars)
   VENUS    - V - Venus
   GASPRA   - P - Gaspra
   IDA      - U - Ida
   JUPITER  - J - Jupiter
   IO       - I - Io
   EUROPA   - E - Europa
   GANYMEDE - G - Ganymede
   CALLISTO - C - Callisto
   J_RING   - R - Jupiter rings
   (the single letter abbreviation appears as the third character in the OAPEL name ).
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```

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------------------------------------------------------------------------------------------------------------------------------
24INLOKIRA0124INLOKIRA01ADA05207919:87:005207924:80:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:21:43.400  99-284/04:26:42.733
           00000000000000000000000000000000000000000000000003263600012601 1BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000010000 0
24INHSPELE0124INHSPELE01ADB05207926:43:005207927:28:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:28:18.733  99-284/04:29:10.066
           0000000000000000000000000000000000000000000000000326360001260 11BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000010000 0
24INPILLAN0124ISPILLAN01BIB05207929:49:005207930:04:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360AI8  99-284/04:31:25.400  99-284/04:31:56.066
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INPILLAN0124INPILLAN01ADC05207930:66:005207931:51:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:32:36.733  99-284/04:33:28.066
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INCOLCHS0124INCOLCHS01ADD05207933:66:005207934:51:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:35:38.733  99-284/04:36:30.066
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INZAMAMA0124INZAMAMA01ADE05207937:66:005207938:51:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:39:41.400  99-284/04:40:32.733
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INPROMTH0124ISPROMTH01BIE05207940:64:005207941:05:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360AI8  99-284/04:42:42.066  99-284/04:43:03.400
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INPROMTH0124INPROMTH01ADF05207945:52:005207946:39:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:47:38.066  99-284/04:48:29.400
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INCOLCHS0224INCOLCHS02ADG05207950:38:005207951:23:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:52:31.400  99-284/04:53:22.733
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
24INNTOHIL0124INNTOHIL01ADH05207955:27:005207956:14:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/04:57:28.066  99-284/04:58:19.400
           000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF01000000100000
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24INPROMTH0224INPROMTH02ADI05207963:16:005207970:09:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  99-284/05:05:26.066  99-284/05:12:25.400
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INZAMAMA0224ISZAMAMA02BIK05207971:36:005207971:54:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360AI8  99-284/05:13:44.066  99-284/05:13:56.733
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INZAMAMA0224ISZAMAMA02CIK05207974:43:005207974:62:01         IO       0214 1 0 0 0 012 1 0 0 0 01200010 0000000000 1 2.00.3000
0065525        3         15AI8  99-284/05:16:50.733  99-284/05:17:03.400
           000000000000000000000000000000000000000000000000000001301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF
24INZAMAMA0224INZAMAMA02ADJ05207975:86:005207978:46:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  99-284/05:18:20.733  99-284/05:20:56.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INDORIAN0124INDORIAN01ADK05207981:16:005207982:03:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  99-284/05:23:38.066  99-284/05:24:29.400
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INAMSKGI0124ISAMSKGI01BIN05207983:29:005207983:47:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3        360AI8  99-284/05:25:47.400  99-284/05:26:00.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INAMSKGI0124ISAMSKGI01CIN05207986:36:005207986:54:01         IO       0214 1 0 0 0 012 1 0 0 0 01200010 0000000000 1 2.00.3000
0065525        3         15AI8  99-284/05:28:54.066  99-284/05:29:06.733
           000000000000000000000000000000000000000000000000000001301500113011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF
24INAMSKGI0124INAMSKGI01ADL05207987:79:005207990:40:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  99-284/05:30:24.066  99-284/05:32:59.400
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INTERMAP0124INTERMAP01ADM05207993:29:005207994:54:01         IO       3314 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  99-284/05:35:54.733  99-284/05:37:12.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INREGION0124INREGION01ADN05208026:87:005208058:53:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1        360MPW  99-284/06:09:54.733  99-284/06:41:54.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
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24INPPLUME0124INPPLUME01ADO05208064:26:005208069:19:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/06:47:39.400  99-284/06:52:38.733
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INPELEPM0124INPELEPM01ADP05208141:87:005208146:80:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/08:06:11.400  99-284/08:11:10.733
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INSTEREO0124ISSTEREO01AIR05208212:02:005208213:63:01         IO       3414 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        3         360IM4  99-284/09:17:02.733  99-284/09:18:44.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INREGION0224INREGION02ADZ05208299:87:005208316:17:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        1         360MPW  99-284/10:45:56.733  99-284/11:02:22.066
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24INGLOCOL0124ISGLOCOL01AIS05208734:28:005208735:12:01         IO       3214 1 1 0 0 124 1 1 0 0 12400010 0000000000 1 2.00.3000
0065525        2         360IM4  99-284/18:05:08.066  99-284/18:05:57.400
           000000000000000000000000000000000000000000000000000032636000126011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BD
FF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF011BDFF0100000100000
24NNPCTRLT01LSNNPCTRLT01RFB05224246:00:005224247:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1999-295/15:29:09.4661999-295/15:30:18.133
           0000000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

24NNPCTRLT01LSNNPCTRLT01SFB05224252:00:005224261:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1999-295/15:34:73.4661999-295/15:44:27.466
           0000000000000000000000000000000000000000000000000000303252000 3121FFC0121FF800200000

24NNOPCAL_0224NNOPCAL_02RXA05226464:00:005226468:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12411100 1101111011 0 0.00.0000
0000000                  408RT 1999-297/04:51:48.0661999-297/04:55:58.733
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

24NNOPCAL_0324NNOPCAL_03RXB05238071:00:005238074:12:01         CAL      8414 1 1 011 0 1 1 1 023 0 111100 1101111011 0 0.00.0000
0000000                  408RT 1999-305/08:27:45.6661999-305/08:30:55.666
           0000000000000000000000000000000000000000000000000000302408000 2241FFFF0200000

24NNRCTRLT01LSNNRCTRTA01RXU05249353:00:005249353:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                  252RT 1999-313/06:35:06.6001999-313/06:35:14.600
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

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24NNRCTRLT01LSNNRCTRTA01SXU05249359:00:005249360:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-313/06:41:10.6001999-313/06:42:19.266
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

24NNRCTRLT01LSNNRCTRTA01TXU05249365:00:005249365:12:01         CAL      3114 1 1 0 0 124 1 1 0 0 12400100 1101111011 0 0.00.0000
0000000                 252RT 1999-313/06:47:14.6001999-313/06:47:22.600
           0000000000000000000000000000000000000000000000000000303252000 312003FF12007FF0200000

24NNOPCAL_01LSNNOPCAL_01RDC05249369:00:005249371:12:01         CAL      3414 1 1 0 0 124 1 1 0 0 12401100 1101111011 0 0.00.0000
0000000                 048RT 1999-313/06:50:77.2661999-313/06:53:26.600
           0000000000000000000000000000000000000000000000000000302048000 224180000200000

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