Chapter 6 - EE11

Contents

Chapter 6

EE11

The EE11 sequence is the last of three sequences in the second Galileo Earth/Moon Encounter (E2). The EE11 sequence takes place during Moon closest approach (MCA) and Earth closest approach (ECA). NIMS took data from -1 to +3.5 days relative to ECA. During this sequence, NIMS made various observations of the Moon and Earth as well as mini-calibrations using the RCT and PCT at the end of the sequence. A NIMS mirror calibration was attempted at the end of the sequence using new RAM code to return the physical mirror position for each mirror step in an attempt to measure any mirror offset between mirror scan directions. Note that there isn't a chapter for the second sequence, EE10, even though a large amount of data was collected, since no real observations were planned for that time period.

This chapter is divided into four parts: The NIMS Sequence Summary, The NIMS PA Summary, The NIMS Obstab, and the NIMS Detailed Observation Designs.

The NIMS Sequence Summary is a time-ordered listing of all spacecraft activity pertinent to NIMS operations for the EE11 Sequence. The information in this summary is derived from the EE11 SEF (Spacecraft Event File) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations.

The NIMS PA Summary is a time-ordered list of all Profile Activities (PAs) listed in the EE11 SEF which affect NIMS observations.

The NIMS Obstab is a time-ordered table of the NIMS observation parameters for use by downlink data processing. It is also derived from the EE11 SEF. The Calibration observations have been expanded to show details of each Calibration sequence (mode change, gain change, etc.).

Each NIMS Detailed Observation Design consists of an OAPEL form and a Pointer plot. The OAPEL form is a brief description of the design of the observation. The Pointer plot is a plot of the target body with the NIMS footprint incorporated in the mosaic design superimposed on the target body. The size and orientation of the target body is plotted as it appears at the time of the first NIMS footprint plotted. For long observations, the target body may rotate or move relative to the spacecraft during the observation. Some observations, such as calibrations, do not have Pointer plots.

NIMS SEQUENCE SUMMARY

EE11

The NIMS Sequence Summary is a time-ordered listing of all spacecraft activity pertinent to NIMS operations for the EE11 Sequence. The information in this summary is derived from the EE11 SEF (Spacecraft Event File) with inputs from the NIMS Science Coordinators regarding the start time and duration of the NIMS observations.

There are 6 columns of information in this table:

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

Also, an additional line is inserted into this table at the start and stop times of each NIMS Observation (Oapel) to bracket the commands which effect each NIMS Observation

Sequence: EE11DD   Created: 11/18/92   Begin: 92-342/06:58:00.000   Finish: 92-363/16:29:05.000

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
342	06:59:09.533	176PK476A6A	6TMCHG	HPW	Dnlnk OK		1,649,058:00
342	07:09:15.533	165MA4B	7SCAN	NORM,217.863998,	Check S/P Position		1,649,067:90
342	07:33:31.466	165LT4B	7SCAN	NORM,101.45,-16.	Check S/P Position		1,649,091:90
342	08:48:05.466	20H3A	40T1PR	1	PCT Heater 1 OFF (primary relay)		1,649,165:67
342	08:48:10.800	20H3B	40T1PR	2	PCT Heater 1 OFF (primary relay)		1,649,165:75
342	08:52:05.466	20H3C	40T2R	1	PCT Heater 2 OFF		1,649,169:63
342	08:52:10.800	20H3D	40T2R	2	PCT Heater 2 OFF		1,649,169:71
342	08:57:27.466	176RR6A	6TMCHG	HCM	Dnlnk OK		1,649,175:00
342	14:12:54.800	165NS4B	7SCAN	NORM,345.897999,	Check S/P Position		1,649,486:90
342	14:37:10.800	165NR4B	7SCAN	NORM,270.0,66.5,	Check S/P Position		1,649,510:90
342	15:01:26.800	165NQ4B	7SCAN	NORM,72.0,16.0,1	Check S/P Position		1,649,534:90
342	15:28:44.800	165JS4B	7SCAN	NORM,27.969,20.5	Check S/P Position		1,649,561:90
342	15:46:56.800	165JT4B	7SCAN	NORM,55.63,24.16	Check S/P Position		1,649,579:90
342	15:56:03.466	176PL6A	6TMCHG	HPW	Dnlnk OK		1,649,589:00
342	16:04:14.133	20RI4A	7SAFE	UNSTOW	Check S/P Position		1,649,597:08
342	19:54:40.133	165MT4B	7SCAN	NORM,217.362,-33	Check S/P Position		1,649,824:90
342	19:58:46.333	E2NNQUICAL06	-1138	-----START------			1,649,829:01
342	20:21:54.133	157LZ156A121A4A	37IST	1,0,0,OFF,0,1,3	Chopper ON, Sync, 63Hz (Ref) Gain State 1	16	1,649,851:84
342	20:22:54.800	157LZ156A121B4A	37IOP	5,2	Short Map, Grating Start Position =2	165	1,649,852:84
		E2NNQUICAL06		-----STOP-------		165	1,649,857:01
342	20:28:02.133	165MB4B	7SCAN	NORM,198.914999,	Check S/P Position	165	1,649,857:90
342	20:32:08.333	E2NNQUICAL07	-1105	-----START------		165	1,649,862:01
342	22:21:17.466	176RS6A	6TMCHG	HCM	Dnlnk OK	165	1,649,970:00
		E2NNQUICAL07		-----STOP-------		165	1,649,971:01
342	22:23:18.133	165ME4B	7SCAN	NORM,189.598999,	Check S/P Position	165	1,649,971:90
342	22:23:21.667	E2LNPHASE 01	-995	-----START------		165	1,649,972:01
		E2LNPHASE 01		-----STOP-------		165	1,650,011:01
342	23:07:43.466	128BK149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	167	1,650,015:84
342	23:08:22.133	165LV4B	7SCAN	NORM,182.785999,	Check S/P Position	167	1,650,016:51
342	23:08:44.133	128BK149A131B4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	467	1,650,016:84
342	23:08:51.667	E2LN4GAIN 01	-950	-----START------		467	1,650,017:01
342	23:09:44.800	157LT156A121A4A	37IST	0,0,0,OFF,0,1,2	Gain State 3	367	1,650,017:84
342	23:10:45.466	157LT156A121B4A	37IST	0,0,0,OFF,0,1,0	Gain State 2	267	1,650,018:84
342	23:11:46.133	157LT156A121C4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	167	1,650,019:84
342	23:18:50.800	157LT156A121D4A	37IOP	1,0	Full Map, Grating Start Position =0	161	1,650,026:84
		E2LN4GAIN 01		-----STOP-------		161	1,650,027:01
342	23:19:55.466	165MF4B	7SCAN	NORM,180.396999,	Check S/P Position	161	1,650,027:90
342	23:19:59.000	E2LNPHASE 02	-939	-----START------		161	1,650,028:01
342	23:23:58.800	176RT6A	6TMCHG	HCM	Dnlnk OK	161	1,650,032:00
		E2LNPHASE 02		-----STOP-------		161	1,650,086:01

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
343	00:19:34.800	165MG4B	7SCAN	NORM,168.491999,	Check S/P Position	161	1,650,086:90
343	00:19:38.333	E2LNPHASE 03	-880	-----START------		161	1,650,087:01
343	00:20:31.466	128BR149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	165	1,650,087:84
343	00:20:36.133	176RU6A	6TMCHG	HIM	Dnlnk OK	165	1,650,088:00
		E2LNPHASE 03		-----STOP-------		165	1,650,228:01
343	02:43:10.133	176PN6A	6TMCHG	HPW	Dnlnk OK	165	1,650,229:00
343	02:46:11.466	165MN4B	7SCAN	NORM,118.299,-48	Check S/P Position	165	1,650,231:90
343	02:46:15.000	E2LNPHASE 04	-735	-----START------		165	1,650,232:01
343	02:49:09.466	157LX156A121A4A	37IOP	1,0	Full Map, Grating Start Position =0	161	1,650,234:84
343	02:51:10.800	157LX156A121B4A	37IOP	7,6	Fixed Map, Grating Start Position =6	167	1,650,236:84
343	02:54:17.466	176KB6A	6TMCHG	HCM	Dnlnk OK	167	1,650,240:00
343	03:03:23.466	176PO6A	6TMCHG	HPW	Dnlnk OK	167	1,650,249:00
343	03:06:20.800	157LX156A121C4A	37MPT	1,6,6	Modify Parameter Table (affects scanning modes & au)	167	1,650,251:84
		E2LNPHASE 04		-----STOP-------		167	1,650,255:01
343	03:10:27.466	165MH4B	7SCAN	NORM,113.714,-47	Check S/P Position	167	1,650,255:90
343	03:10:31.000	E2LNPHASE 05	-711	-----START------		167	1,650,256:01
343	03:12:29.466	176RV6A	6TMCHG	NCGIM4	Dnlnk OK	167	1,650,258:00
		E2LNPHASE 05		-----STOP-------		167	1,650,274:01
343	03:29:14.133	165LW4B	7SCAN	NORM,110.768999,	Check S/P Position	167	1,650,274:51
343	03:29:36.133	128BL149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	161	1,650,274:84
343	03:29:40.800	176JO6A	6TMCHG	HCM	Dnlnk OK	161	1,650,275:00
343	03:29:43.667	E2LNHIRES 01	-692	-----START------		161	1,650,275:00
		E2LNHIRES 01		-----STOP-------		161	1,650,275:01
343	04:27:18.133	165MI4B	7SCAN	NORM,94.978999,-	Check S/P Position	161	1,650,331:90
343	04:27:21.667	E2LNPHASE 06	-635	-----START------		161	1,650,332:01
343	04:28:14.800	128BT149A131A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	167	1,650,332:84
343	04:29:15.466	128BT149A131B4A	37MPT	1,6,6	Modify Parameter Table (affects scanning modes & au)	167	1,650,333:84
343	04:29:20.133	176RW6A	6TMCHG	HPWIM4	Dnlnk OK	167	1,650,334:00
		E2LNPHASE 06		-----STOP-------		167	1,650,350:01
343	04:46:04.800	165LX4B	7SCAN	NORM,92.033999,-	Check S/P Position	167	1,650,350:51
343	04:46:26.800	128BM149A131A4A	37IOP	5,2	Short Map, Grating Start Position =2	165	1,650,350:84
343	04:46:34.333	E2LNPHASE 07	-616	-----START------		165	1,650,351:01
		E2LNPHASE 07		-----STOP-------		165	1,650,381:01
343	05:17:51.466	165MJ4B	7SCAN	NORM,86.559999,-	Check S/P Position	165	1,650,381:90
343	05:17:55.000	E2LNPHASE 08	-585	-----START------		165	1,650,382:01
343	05:19:53.466	176RX6A	6TMCHG	HIM	Dnlnk OK	165	1,650,384:00
		E2LNPHASE 08		-----STOP-------		165	1,650,489:01
343	07:07:03.466	165NL4B	7SCAN	NORM,75.474999,-	Check S/P Position	165	1,650,489:90
343	07:07:07.000	E2LNPHASE 09	-477	-----START------		165	1,650,490:01
343	07:09:00.800	157MB156A121A4A	37IOP	7,6	Fixed Map, Grating Start Position =6	167	1,650,491:84
343	07:13:08.133	176PQ6A	6TMCHG	HPW	Dnlnk OK	167	1,650,496:00
343	07:34:22.133	176PR476A6A	6TMCHG	HRW	Dnlnk OK	167	1,650,517:00

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
		E2LNPHASE 09		-----STOP-------		167	1,650,520:01
343	07:58:37.466	165MK4B	7SCAN	NORM,71.216999,1	Check S/P Position	167	1,650,540:90
343	07:58:41.000	E2LNPHASE 10	-426	-----START------		167	1,650,541:01
343	07:59:34.133	128BV149A131A4A	37IOP	1,0	Full Map, Grating Start Position =0	161	1,650,541:84
343	07:59:38.800	176RY6A	6TMCHG	HCJ	Dnlnk OK	161	1,650,542:00
		E2LNPHASE 10		-----STOP-------		161	1,650,638:01
343	09:37:16.800	165LY4B	7SCAN	NORM,66.325,9.59	Check S/P Position	161	1,650,638:51
343	09:37:43.466	424RD476A6A	6TMCHG	HPJ	Dnlnk OK	161	1,650,639:00
343	09:47:36.333	E2LNPHASE 11	-328	-----START------		161	1,650,639:01
		E2LNPHASE 11		-----STOP-------		161	1,650,667:01
343	10:09:03.466	165MR4B	7SCAN	NORM,215.831999,	Check S/P Position	161	1,650,669:90
343	10:09:07.000	E2WNLOWCAL01	-297	-----START------		161	1,650,670:01
343	10:10:00.133	128CC149A131A4A	37IST	1,2,0,OFF,0,1,1	Chopper ON, Sync, Chopper (Ref) Gain State 4	4R1	1,650,670:84
343	10:11:00.800	128CC149A131B4A	37SS	0,1,1,0,11,2,6	Special Sequence (loads PTABs for modes 12 to 15 of)	4R1	1,650,671:84
343	10:12:01.466	128CC149A131C4A	37SS	1,1,1,0,11,2,6	Special Sequence (loads PTABs for modes 12 to 15 of)	4R1	1,650,672:84
343	10:13:02.133	128CC149A131D4A	37IOP	12,0	Special Sequence 1, Grating Start Position =0	4RC	1,650,673:84
		E2WNLOWCAL01		-----STOP-------		4RC	1,650,730:01
343	11:10:40.133	157ME156A121A4A	37IST	1,0,0,OFF,0,1,3	Chopper ON, Sync, 63Hz (Ref) Gain State 1	16C	1,650,730:84
343	11:10:44.133	165MC4B	7SCAN	NORM,62.724,15.1	Check S/P Position	16C	1,650,730:90
343	11:57:15.466	260PL476A6A	6TMCHG	HRW	Dnlnk OK	16C	1,650,777:00
343	12:14:26.133	165JB4B	7SCAN	NORM,313.519997,	Check S/P Position	16C	1,650,793:90
343	12:18:32.333	E2NNNOOBS1-3	-169	-----START------		16C	1,650,798:01
		E2NNNOOBS1-3		-----STOP-------		16C	1,650,799:01
343	13:43:25.400	176NA476A6A	6TMCHG	EHRMPP	NO DNLNK	16C	1,650,882:00
343	14:33:58.733	176NF6A	6TMCHG	EHRHPW	NO DNLNK	16C	1,650,932:00
343	14:54:12.066	176TM6A	6TMCHG	EHRHCM	NO DNLNK	16C	1,650,952:00
343	14:54:46.733	176TN6A	6TMCHG	EHRHPW	NO DNLNK	16C	1,650,952:52
343	14:57:14.066	176TO6A	6TMCHG	EHRHCM	NO DNLNK	16C	1,650,955:00
343	14:57:48.733	176TP6A	6TMCHG	EHRHPW	NO DNLNK	16C	1,650,955:52
343	14:59:15.400	176TQ6A	6TMCHG	EHRHCM	NO DNLNK	16C	1,650,957:00
343	14:59:50.066	176TR6A	6TMCHG	EHRHPW	NO DNLNK	16C	1,650,957:52
343	15:01:54.066	165JC4B	7SCAN	NORM,250.799999,	Check S/P Position	16C	1,650,959:56
343	15:08:53.400	165JD4B	7SCAN	NORM,248.609999,	Check S/P Position	16C	1,650,966:48
343	15:13:24.733	176TS6A	6TMCHG	EHRHCM	NO DNLNK	16C	1,650,971:00
343	15:13:59.400	176TT6A	6TMCHG	EHRHPW	NO DNLNK	16C	1,650,971:52
343	15:16:28.733	165JE4B	7SCAN	NORM,247.679998,	Check S/P Position	16C	1,650,974:03
343	15:25:25.000	E2NNNOOBS 04	11	-----START------		16C	1,650,979:01
343	15:25:32.733	176TW6A	6TMCHG	EHRHCM	NO DNLNK	16C	1,650,983:00
		E2NNNOOBS 04		-----STOP-------		16C	1,650,983:01
343	15:25:48.733	165JF4B	7SCAN	NORM,184.019999,	Check S/P Position	16C	1,650,983:24
343	15:26:07.400	176TX6A	6TMCHG	EHRHPW	NO DNLNK	16C	1,650,983:52
343	15:30:36.066	176SC6A	6TMCHG	EHRHCM	NO DNLNK	16C	1,650,988:00

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
343	15:39:34.000	E2NNNOOBS 05	26	-----START------		16C	1,650,993:01
343	15:36:40.066	176TY6A	6TMCHG	EHRLRS	NO DNLNK	16C	1,650,994:00
343	15:42:18.733	165MU4B	7SCAN	NORM,357.939999,	Check S/P Position	16C	1,650,999:53
343	15:45:41.400	128CD149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	163	1,651,002:84
343	15:45:49.000	E2ANDES 01	36	-----START------		163	1,651,003:01
		E2NNNOOBS 05		-----STOP-------		163	1,651,003:01
343	15:45:54.733	176SI6A	6TMCHG	EHRIM4	NO DNLNK	163	1,651,003:13
		E2ANDES 01		-----STOP-------		163	1,651,013:01
343	15:56:01.400	176SG6A	6TMCHG	EHRHCM	NO DNLNK	163	1,651,013:13
343	15:56:42.066	165NJ4B	7SCAN	NORM,171.289999,	Check S/P Position	163	1,651,013:74
343	15:59:29.400	176UB6A	6TMCHG	EHRLRS	NO DNLNK	163	1,651,016:52
343	16:03:50.000	E2NNNOOBS 06	50	-----START------		163	1,651,017:01
		E2NNNOOBS 06		-----STOP-------		163	1,651,021:01
343	16:04:58.733	176SJ476A6A	6TMCHG	HCM	Dnlnk OK	163	1,651,022:00
343	16:05:32.066	165NW4B	7SCAN	NORM,9.285,20.01	Check S/P Position	163	1,651,022:50
343	16:08:56.733	128CW149A131A4A	37IOP	7,0	Fixed Map, Grating Start Position =0	167	1,651,025:84
343	16:09:04.333	E2HAWAII/A	59	-----START------		167	1,651,026:01
343	16:20:44.733	165NV4B	7SCAN	NORM,165.379999,	Check S/P Position	167	1,651,037:54
		E2HAWAII/A		-----STOP-------		167	1,651,038:01
343	17:01:35.400	165ML4B	7SCAN	NORM,49.064,21.4	Check S/P Position	167	1,651,077:90
343	17:05:38.733	176SL6A	6TMCHG	HCM	Dnlnk OK	167	1,651,082:00
343	17:25:51.400	165MO4B	7SCAN	NORM,357.653999,	Check S/P Position	167	1,651,101:90
343	17:25:55.000	E2WNANTAR 01	135	-----START------		167	1,651,102:01
343	17:26:48.066	128BZ149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	163	1,651,102:84
		E2WNANTAR 01		-----STOP-------		163	1,651,146:01
343	18:11:22.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,147:00
343	18:11:27.400	20JM4A	7SAFE	UNSTOW	Check S/P Position	163	1,651,147:08
343	18:11:48.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,147:39
343	18:26:32.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,162:00
343	18:26:58.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,162:39
343	18:41:42.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,177:00
343	18:42:08.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,177:39
343	18:56:52.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,192:00
343	18:57:18.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,192:39
343	19:12:02.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,207:00
343	19:12:28.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,207:39
343	19:27:12.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,222:00
343	19:27:38.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,222:39
343	19:42:22.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,237:00
343	19:42:48.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,237:39
343	19:57:32.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,252:00
343	19:57:58.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,252:39

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
343	20:12:42.066	260PN476A6A	6TMCHG	HIMPW8	Dnlnk OK	163	1,651,267:00
343	20:13:08.066	260PO476A6A	6TMCHG	HPWHPW	Dnlnk OK	163	1,651,267:39
343	20:28:52.066	165NF4B	7SCAN	NORM,357.148998,	Check S/P Position	163	1,651,282:90
343	20:29:48.733	128CO149A131A4A	37IOP	7,0	Fixed Map, Grating Start Position =0	167	1,651,283:84
343	20:29:53.400	176SM6A	6TMCHG	HIM	Dnlnk OK	167	1,651,284:00
343	20:29:56.333	E2LIGHTNING	317	-----START------		167	1,651,284:01
		E2LIGHTNING		-----STOP-------		167	1,651,299:01
343	20:49:40.066	165MP4B	7SCAN	NORM,355.803997,	Check S/P Position	167	1,651,303:51
343	20:50:02.066	128CA149A131A4A	37IOP	3,0	Long Map, Grating Start Position =0	163	1,651,303:84
343	20:50:06.733	176JI6A	6TMCHG	HCM	Dnlnk OK	163	1,651,304:00
343	20:50:09.667	E2WNAUSIE 01	337	-----START------		163	1,651,304:01
		E2WNAUSIE 01		-----STOP-------		163	1,651,364:01
343	21:51:46.733	165MM4B	7SCAN	NORM,35.729,18.9	Check S/P Position	163	1,651,364:90
343	21:55:50.066	176SN6A	6TMCHG	HIM	Dnlnk OK	163	1,651,369:00
343	22:31:43.400	165NU4B	7SCAN	NORM,355.238998,	Check S/P Position	163	1,651,404:45
343	22:34:15.400	176YZ6A	6TMCHG	HCM	Dnlnk OK	163	1,651,407:00
343	22:34:18.333	E2WNINDO 01	440	-----START------		163	1,651,407:01
343	22:54:28.733	424EA476A6A	6TMCHG	HPJ	Dnlnk OK	163	1,651,427:00
		E2WNINDO 01		-----STOP-------		163	1,651,427:01
343	23:06:36.066	165MQ4B	7SCAN	NORM,356.067997,	Check S/P Position	163	1,651,438:90
343	23:10:42.333	E2WNGMOS 01	476	-----START------		163	1,651,443:01
344	01:44:20.733	176YK476A6A	6TMCHG	HCM	Dnlnk OK	163	1,651,595:00
		E2WNGMOS 01		-----STOP-------		163	1,651,738:01
344	04:09:56.066	165MS4B	7SCAN	NORM,353.443996,	Check S/P Position	163	1,651,738:90
344	05:20:24.733	484A4B	7SAFE	UNSTOW	Check S/P Position	163	1,651,808:63
344	06:11:16.066	165NX4B	7SCAN	NORM,354.170998,	Check S/P Position	163	1,651,858:90
344	06:15:19.400	176SO6A	6TMCHG	HCM	Dnlnk OK	163	1,651,863:00
344	06:15:22.333	E2GMOS 02	896	-----START------		163	1,651,863:01
		E2GMOS 02		-----STOP-------		163	1,652,157:01
344	11:13:09.400	165MX4B	7SCAN	NORM,354.285999,	Check S/P Position	163	1,652,157:51
344	11:17:31.000	E2WGOPEX 01	1191	-----START------		163	1,652,158:01
		E2WGOPEX 01		-----STOP-------		163	1,652,336:01
344	14:16:10.066	165NG4B	7SCAN	NORM,353.924999,	Check S/P Position	163	1,652,338:51
344	14:16:39.667	E2WNGMOS 03	1372	-----START------		163	1,652,339:01
344	18:10:05.333	20K3A	40T1P	1	PCT Heater 1 ON (primary relay)	163	1,652,569:83
344	18:10:10.666	20K3B	40T1P	2	PCT Heater 1 ON (primary relay)	163	1,652,570:00
		E2WNGMOS 03		-----STOP-------		163	1,652,570:01
344	18:11:10.666	165MD4B	7SCAN	NORM,13.878,12.5	Check S/P Position	163	1,652,570:90
344	18:13:12.666	176SP6A	6TMCHG	HPWAI8	Dnlnk OK	163	1,652,573:00
344	18:14:05.333	20K3C	40T2	1	PCT Heater 2 ON	163	1,652,573:79
344	18:14:10.666	20K3D	40T2	2	PCT Heater 2 ON	163	1,652,573:87
344	18:14:47.333	165NT4B	7SCAN	NORM,13.861,12.5	Check S/P Position	163	1,652,574:51

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
344	18:15:14.000	176SQ6A	6TMCHG	HIM	Dnlnk OK	163	1,652,575:00
344	20:17:34.666	424RE476A6A	6TMCHG	HPB	NO DNLNK	163	1,652,696:00
344	20:22:38.000	176SR476A6A	6TMCHG	XCM	Dnlnk OK	163	1,652,701:00
344	20:26:40.000	165NH4B	7SCAN	NORM,353.912998,	Check S/P Position	163	1,652,704:90
344	20:28:45.000	E2GMOS 04	1740	-----START------		163	1,652,707:01
		E2GMOS 04		-----STOP-------		163	1,653,574:01
345	11:05:54.000	165MY4B	7SCAN	NORM,353.855,5.6	Check S/P Position	163	1,653,574:51
345	11:10:15.000	E2WGOPEX 02	2608	-----START------		163	1,653,575:01
		E2WGOPEX 02		-----STOP-------		163	1,653,695:01
345	13:08:14.666	165NI4B	7SCAN	NORM,353.862999,	Check S/P Position	163	1,653,695:51
345	15:02:56.666	176YW476A6A	6TMCHG	MPW	Dnlnk OK	163	1,653,809:00
345	15:14:00.000	490B412A4C	7MODE	INT	Dual-Spin Mode	163	1,653,819:85
345	15:16:57.333	490B476A6A	6TMCHG	EHRLRS	NO DNLNK	163	1,653,822:78
345	15:19:00.000	490B412A4E	7SAFE	UNSTOW	Check S/P Position	163	1,653,824:80
345	15:23:14.000	490B412A4G	7TURN	2,MVR	ALERT -- Thruster firing	163	1,653,829:06
345	17:10:20.666	176A476A6A	6TMCHG	XCM	Dnlnk OK	163	1,653,935:00
345	17:18:25.333	165A4B	7SCAN	NORM,353.843998,	Check S/P Position	163	1,653,942:90
346	00:50:23.933	176YC476A6A	6TMCHG	LRSLRS	NO DNLNK	163	1,654,390:00
346	01:17:41.933	176UF476A6A	6TMCHG	LRSHCM	NO DNLNK	163	1,654,417:00
346	01:25:20.600	165NY4B	7SCAN	NORM,353.846996,	Check S/P Position	163	1,654,424:51
346	02:03:05.266	20L3A	40T1PR	1	PCT Heater 1 OFF (primary relay)	163	1,654,461:81
346	02:03:10.600	20L3B	40T1PR	2	PCT Heater 1 OFF (primary relay)	163	1,654,461:89
346	02:07:05.266	20L3C	40T2R	1	PCT Heater 2 OFF	163	1,654,465:77
346	02:07:10.600	20L3D	40T2R	2	PCT Heater 2 OFF	163	1,654,465:85
346	06:14:57.933	424RM476A6A	6TMCHG	MPB	NO DNLNK	163	1,654,711:00
346	08:28:25.933	176JK6A	6TMCHG	MPW	Dnlnk OK	163	1,654,843:00
346	08:28:25.933	192JC4A	7CONE	17.0,54.88	Check S/P Position	163	1,654,843:00
346	08:33:24.600	157JF156A121A4A	37IOP	4,0	Long Spectrometer, Grating Start Position =0	164	1,654,847:84
346	08:34:25.266	157JF156A121B4A	37IST	1,0,0,OFF,0,1,0	Chopper ON, Sync, 63Hz (Ref) Gain State 2	264	1,654,848:84
346	08:37:35.000	E2NNPCTMIN01	3885	-----START------		264	1,654,852:01
346	08:41:29.933	157JF156A121C4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	464	1,654,855:84
346	08:44:31.933	157JF156A121D4A	37IST	0,0,0,OFF,0,1,2	Gain State 3	364	1,654,858:84
346	08:47:33.933	157JF156A121E4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	164	1,654,861:84
		E2NNPCTMIN01		-----STOP-------		164	1,654,942:01
346	10:54:01.933	176SS476A6A	6TMCHG	EHRHCM	NO DNLNK	164	1,654,987:00
346	11:06:09.266	165MZ4B	7SCAN	NORM,354.306,4.2	Check S/P Position	164	1,654,998:90
346	11:10:15.667	E2NNRCTON 01	4036	-----START------		164	1,655,003:01
346	11:11:13.266	185JB10A3A	40HRP	1	RCT Heater ON (primary relay)	164	1,655,004:00
346	12:09:57.933	20RJ4A	7SAFE	UNSTOW	Check S/P Position	164	1,655,062:09
346	15:08:49.933	424RF476A6A	6TMCHG	MPB	NO DNLNK	164	1,655,239:00
346	17:35:25.933	165JG4B	7SCAN	NORM,60.0,81.0,1	Check S/P Position	164	1,655,383:90
346	17:39:29.266	176JL6A	6TMCHG	MPW	Dnlnk OK	164	1,655,388:00

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
		E2NNRCTON 01		-----STOP-------		164	1,655,389:01
346	17:41:33.667	E2NNRCTMIN01	4423	-----START------		164	1,655,390:01
346	17:42:26.600	157JG156A121A4A	37IOP	4,0	Long Spectrometer, Grating Start Position =0	164	1,655,390:84
346	17:43:27.266	157JG156A121B4A	37IST	0,0,1,OFF,1,1,1	OPCAL Gain State 4	464	1,655,391:84
346	17:44:27.933	157JG156A121C4A	37IST	0,0,0,OFF,0,1,0	Gain State 2	264	1,655,392:84
346	17:45:28.600	157JG156A121D4A	37IST	0,0,1,ON,0,1,3	ECAL Gain State 1	164	1,655,393:84
346	17:46:29.266	157JG156A121E4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	464	1,655,394:84
346	17:47:29.933	157JG156A121F4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	164	1,655,395:84
346	17:48:30.600	157JG156A121G4A	37IST	0,0,0,OFF,0,1,2	Gain State 3	364	1,655,396:84
346	17:49:31.266	157JG156A121H4A	37IST	1,2,0,OFF,0,1,0	Chopper ON, Sync, Chopper (Ref) Gain State 2	2R4	1,655,397:84
346	17:52:33.266	157JG156A121I4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	4R4	1,655,400:84
346	17:53:33.933	157JG156A121J4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	1R4	1,655,401:84
346	17:54:34.600	157JG156A121K4A	37IST	0,0,0,OFF,0,1,2	Gain State 3	3R4	1,655,402:84
346	17:55:39.933	192JD4A	7CONE	17.0,0.0	Check S/P Position	3R4	1,655,404:00
346	17:59:37.933	157JG156A121L4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	1R4	1,655,407:84
346	18:00:38.600	157JG156A121M4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	4R4	1,655,408:84
346	18:01:39.266	157JG156A121N4A	37IST	0,0,0,OFF,0,1,0	Gain State 2	2R4	1,655,409:84
346	18:02:39.933	157JG156A121O4A	37IST	1,0,0,OFF,0,1,2	Chopper ON, Sync, 63Hz (Ref) Gain State 3	364	1,655,410:84
346	18:05:41.933	157JG156A121P4A	37IST	0,0,0,OFF,0,1,3	Gain State 1	164	1,655,413:84
346	18:06:42.600	157JG156A121Q4A	37IST	0,0,0,OFF,0,1,1	Gain State 4	464	1,655,414:84
346	18:07:43.266	157JG156A121R4A	37IST	0,0,0,OFF,0,1,0	Gain State 2	264	1,655,415:84
346	18:08:48.600	192JD4B	7CONE	17.0,153.0	Check S/P Position	264	1,655,417:00
346	18:11:50.600	185JB10B3A	40HRPR	1	RCT Heater OFF (primary relay)	264	1,655,420:00
		E2NNRCTMIN01		-----STOP-------		264	1,655,420:01
346	18:15:52.600	165LR4B	7SCAN	NORM,4.456,12.79	Check S/P Position	264	1,655,423:90
346	18:15:56.333	E2NNMIRCAL01	4457	-----START------		264	1,655,424:01
	18:15:59.266	20JC5A	37PL	CMD,37PL,20JC5A,	Program Load (halts microprocessor & unwrite-protec)	264	1,655,424:09
346	18:17:57.933	20JC5B	37MRL		Memory Realocate (software operates from RAM)	264	1,655,426:05
346	18:18:58.600	20JC5C	37IRT		Instrument Reset (goes into POR state)	260	1,655,427:05
	18:20:59.933	20JC5E	37MN	CMD,37MN,20JC5E,	Memory Normal (software operates from ROM)	260	1,655,429:05
346	18:22:53.266	157LU156A121A4A	37IOP	7,0	Fixed Map, Grating Start Position =0	267	1,655,430:84
346	18:29:57.933	157LU156A121B4A	37IOP	3,0	Long Map, Grating Start Position =0	263	1,655,437:84
346	18:34:08.333	E2NNNIMOFF01	4490	-----START------		263	1,655,442:01
346	18:37:02.600	157LU156A121C4A	37IST	1,2,0,OFF,0,0,0	Chopper ON, Sync, Chopper (Ref)	2R3	1,655,444:84
		E2NNNIMOFF01		-----STOP-------		2R3	1,655,450:01
346	18:47:17.266	20JC5F	37IRT		Instrument Reset (goes into POR state)	260	1,655,455:05
346	18:48:14.600	176KA476A6A	6TMCHG	LRSHCM	NO DNLNK	260	1,655,456:00
		E2NNMIRCAL01		-----STOP-------		260	1,655,456:01
346	19:03:59.933	20YU4A	37IOP	0,0	Safe, Grating Start Position =0	260	1,655,471:53
	19:05:00.600	20YU3A	37AR	CMD,37AR,20YU3A,	NIMS Power OFF		1,655,472:53
	19:05:20.600	20YU3B	37H	CMD,37H,20YU3B,,	Replacement Heaters ON		1,655,472:83
347	10:10:22.533	176ST6A	6TMCHG	LRSHCM	NO DNLNK		1,656,368:00

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
347	10:21:29.200	165NA4B	7SCAN	NORM,354.255997,	Check S/P Position		1,656,378:90
347	11:25:11.866	424RG476A6A	6TMCHG	BPB	NO DNLNK		1,656,442:00
347	11:32:17.200	276KA4A	7CONE	17.45,90.0	Check S/P Position		1,656,449:01
347	13:25:05.200	20I3A	40T1P	1	PCT Heater 1 ON (primary relay)		1,656,560:52
347	13:25:10.533	20I3B	40T1P	2	PCT Heater 1 ON (primary relay)		1,656,560:60
347	13:29:05.200	20I3C	40T2	1	PCT Heater 2 ON		1,656,564:48
347	13:29:10.533	20I3D	40T2	2	PCT Heater 2 ON		1,656,564:56
347	13:31:35.200	176KC476A6A	6TMCHG	LRSLRS	NO DNLNK		1,656,567:00
348	10:59:44.466	176YM476A6A	6TMCHG	EHR	NO DNLNK		1,657,841:00
348	15:20:36.466	176SU476A6A	6TMCHG	LRSHCM	NO DNLNK		1,658,099:00
349	07:00:56.466	192LA4A	7CONE	17.45,111.0	Check S/P Position		1,659,029:00
349	07:02:57.133	165LZ4B	7SCAN	NORM,356.445,6.0	Check S/P Position		1,659,030:90
349	10:38:19.133	165NB4B	7SCAN	NORM,354.093998,	Check S/P Position		1,659,243:90
349	11:40:06.466	20RK4A	7SAFE	UNSTOW	Check S/P Position		1,659,305:09
349	12:29:33.133	424RH476A6A	6TMCHG	LPB	NO DNLNK		1,659,354:00
349	14:21:47.066	176TA6A	6TMCHG	LRSLRS	NO DNLNK		1,659,465:00
349	23:59:07.733	176YD476A6A	6TMCHG	EHRLRS	NO DNLNK		1,660,036:00
350	03:29:26.400	176YE476A6A	6TMCHG	LRSLRS	NO DNLNK		1,660,244:00
350	08:59:03.733	176YF476A6A	6TMCHG	EHRHCM	NO DNLNK		1,660,570:00
350	10:36:07.066	165NC4B	7SCAN	NORM,354.085999,	Check S/P Position		1,660,665:90
350	11:29:49.066	20RL4A	7SAFE	UNSTOW	Check S/P Position		1,660,719:09
350	12:14:12.400	176C476A6A	6TMCHG	LRSLRS	NO DNLNK		1,660,763:00
350	12:30:23.066	424RI476A6A	6TMCHG	LPB	NO DNLNK		1,660,779:00
350	14:07:27.066	176YH476A6A	6TMCHG	EHRLRS	NO DNLNK		1,660,875:00
350	16:19:54.400	176YO476A6A	6TMCHG	LRS	NO DNLNK		1,661,006:00
350	22:59:17.666	176YN476A6A	6TMCHG	EHR	NO DNLNK		1,661,401:00
351	07:34:59.666	490C412A4C	7MODE	INT	Dual-Spin Mode		1,661,911:03
351	07:37:59.666	490C476A6A	6TMCHG	EHRLRS	NO DNLNK		1,661,914:00
351	07:39:59.666	490C412A4E	7SAFE	UNSTOW	Check S/P Position		1,661,915:89
351	07:44:13.666	490C412A4G	7TURN	2,MVR	ALERT -- Thruster firing		1,661,920:15
351	08:22:29.000	176SW476A6A	6TMCHG	LRSHCM	NO DNLNK		1,661,958:00
351	10:35:56.333	165ND4B	7SCAN	NORM,354.139,4.1	Check S/P Position		1,662,089:90
351	11:29:38.333	20RM4A	7SAFE	UNSTOW	Check S/P Position		1,662,143:09
351	11:59:52.333	424RJ476A6A	6TMCHG	LPB	NO DNLNK		1,662,173:00
351	13:18:44.333	176TB6A	6TMCHG	LRSLRS	NO DNLNK		1,662,251:00
351	15:05:54.333	165MW4B	7SCAN	NORM,353.925999,	Check S/P Position		1,662,356:90
351	15:09:57.666	176SX6A	6TMCHG	LRSHCM	NO DNLNK		1,662,361:00
352	05:15:03.600	20AG4A	7MODE	CRU	Dual-Spin Mode		1,663,196:74
352	05:15:14.266	190RA4B	7MODE	CRU	Dual-Spin Mode		1,663,196:90
352	05:15:14.933	190RA4C	7SAFE	UNSTOW	Check S/P Position		1,663,197:00
352	05:19:11.600	190RA4D	7MODE	SPNL	All-Spin Mode		1,663,200:82
352	05:27:16.933	190RA4E	7SAFE	UNSTOW	Check S/P Position		1,663,208:82

DOY	Time	PSID	Command	Parameters	Description	GCM	RIM
352	05:46:35.600	192RA4A	7CONE	17.0,60.36	Check S/P Position		1,663,228:00
352	05:46:36.266	192RA4B	7CLK	17.0,243.619999	Check S/P Position		1,663,228:01
352	05:50:38.266	176SY6A	6TMCHG	NCGHIM	Dnlnk OK		1,663,232:00
352	06:06:48.933	191RB4A	7SAFE	UNSTOW	Check S/P Position		1,663,248:00
352	06:10:51.600	191RB4B	7MODE	CRU	Dual-Spin Mode		1,663,252:00
352	06:20:58.266	424RK476A6A	6TMCHG	LPB	NO DNLNK		1,663,262:00
352	21:53:12.933	176YP476A6A	6TMCHG	EHR	NO DNLNK		1,664,184:00
353	08:50:05.533	20J3A	37F2P	1	Shield Flash Heater ON (primary relay)		1,664,833:60
353	08:50:10.866	20J3B	37F2P	2	Shield Flash Heater ON (primary relay)		1,664,833:68
353	09:09:59.533	498B4B	7SAFE	UNSTOW	Check S/P Position		1,664,853:31
353	09:13:58.866	498B4D	7MODE	SPNL	All-Spin Mode		1,664,857:26
353	09:34:19.533	498B4H	7MODE	SPNH	All-Spin Mode		1,664,877:37
353	09:46:39.533	498B4I	7MODE	SPNL	All-Spin Mode		1,664,889:55
353	09:58:59.533	498B4K	7MODE	SPNH	All-Spin Mode		1,664,901:73
353	10:11:19.533	498B4L	7MODE	SPNL	All-Spin Mode		1,664,914:00
353	10:23:39.533	498B4M	7MODE	CRU	Dual-Spin Mode		1,664,926:18
353	10:51:39.533	498B4O	7MODE	INT	Dual-Spin Mode		1,664,953:81
353	10:58:40.866	498B4Q	7BURN	LAT,179.745998,-	ALERT -- Thruster firing		1,664,960:76
353	11:12:05.533	498B4R	7BURN	LAT,0.0,90.0,1,0	ALERT -- Thruster firing		1,664,974:09
353	11:25:30.866	498B4T	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster firing		1,664,987:34
353	11:38:50.866	498B4V	7BURN	PULZ,0.0,90.0,1,	ALERT -- Thruster firing		1,665,000:51
353	12:45:03.533	20Z4A	7MODE	CRU	Dual-Spin Mode		1,665,066:04
353	12:59:10.200	176YX476A6A	6TMCHG	LRSLRS	NO DNLNK		1,665,080:00
353	14:32:11.533	176YY476A6A	6TMCHG	EHRLRS	NO DNLNK		1,665,172:00
353	15:07:34.866	176D476A6A	6TMCHG	LRSLRS	NO DNLNK		1,665,207:00
353	15:19:51.533	424ND476A6A	6TMCHG	LPB	NO DNLNK		1,665,219:13
354	00:11:33.533	176YQ476A6A	6TMCHG	EHRLRS	NO DNLNK		1,665,745:00
354	02:26:02.200	176E476A6A	6TMCHG	LRSLRS	NO DNLNK		1,665,878:00
354	02:39:54.200	424NG476A6A	6TMCHG	LPB	NO DNLNK		1,665,891:65
354	04:41:31.533	176YV476A6A	6TMCHG	EHRLRS	NO DNLNK		1,666,012:00
357	00:29:56.666	476A6A	6TMCHG	EHRLRS	NO DNLNK		1,670,035:65
357	14:32:55.333	476B6A	6TMCHG	EHRLRS	NO DNLNK		1,670,869:39
358	00:29:54.666	476C6A	6TMCHG	EHRLRS	NO DNLNK		1,671,459:78
358	10:59:58.600	476D6A	6TMCHG	EHRLRS	NO DNLNK		1,672,083:00

PA Summary Table

This summary is a listing of the PAs (Profile Activities) used by NIMS during EE11.

INPUT FILE: EE11_921118.SEF

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
E2LPLUNFAZ01	TARGET	165MA	01649067:89	01649072:00	92-342/07:09:14	MOON
E2LPLUNFAZ01	CSMOS	117AN	01649071:77	01649086:61	92-342/07:13:09	MOON
E2LPLUNFAZ01	CMDRS	157MD	01649072:00	01649074:00	92-342/07:13:18	MOON
E2HUUSTAR_02	TARGET	165LT	01649091:89	01649096:00	92-342/07:33:30	SKY
E2HUUSTAR_02	INITRS	128BI	01649094:89	01649096:04	92-342/07:36:32	SKY
E2HUUSTAR_02	CSMOS	117AH	01649095:77	01649423:71	92-342/07:37:25	SKY
E2HUUSTAR_02	SSI	147CK	01649174:76	01649175:44	92-342/08:57:17	SKY
E2HUUSTAR_02	CMDRS	157LR	01649258:00	01649260:00	92-342/10:21:22	SKY
E2HUUSTAR_02	CMDRS	157LS	01649426:00	01649428:00	92-342/13:11:14	SKY
E2WPNITLIT01	TARGET	165MT	01649824:89	01649829:00	92-342/19:54:39	EARTH
E2WPNITLIT01	CSMOS	117AV	01649828:77	01649851:62	92-342/19:58:34	EARTH
E2WPNITLIT01	CMDRS	157LZ	01649851:00	01649854:00	92-342/20:20:58	EARTH
E2LPLUNFAZ02	TARGET	165MB	01649857:89	01649862:00	92-342/20:28:01	MOON
E2LPLUNFAZ02	CSMOS	117AO	01649861:77	01649963:22	92-342/20:31:56	MOON
E2LPLUNFAZ02	CMDRS	157LV	01649862:00	01649968:00	92-342/20:32:05	MOON
E2LSLUNMOS01	SCITLM	176RS	01649970:00	01649970:13	92-342/22:21:17	MOON
E2LSLUNMOS01	TARGET	165ME	01649971:89	01649974:01	92-342/22:23:17	MOON
E2LSLUNMOS01	INITRS	128BP	01649972:89	01649974:04	92-342/22:24:18	MOON
E2LSLUNMOS01	SSI	147CQ	01649973:76	01650014:89	92-342/22:25:10	MOON
E2LSLUNMOS01	SMOS	118AB	01649973:82	01650014:87	92-342/22:25:14	MOON
E2LN4GAIN_01	INITRS	128BK	01650015:84	01650017:04	92-342/23:07:43	MOON
E2LN4GAIN_01	TARGET	165LV	01650016:50	01650027:00	92-342/23:08:21	MOON
E2LN4GAIN_01	SSI	147EM	01650016:76	01650022:89	92-342/23:08:38	MOON
E2LN4GAIN_01	CMDRS	157LT	01650017:00	01650028:00	92-342/23:08:48	MOON
E2LN4GAIN_01	CSMOS	117AI	01650020:77	01650026:67	92-342/23:12:42	MOON
E2LSLUNMOS02	TARGET	165MF	01650027:89	01650083:00	92-342/23:19:54	MOON
E2LSLUNMOS02	SSI	147CR	01650031:76	01650082:89	92-342/23:23:48	MOON
E2LSLUNMOS02	SCITLM	176RT	01650032:00	01650032:13	92-342/23:23:58	MOON
E2LSLUNMOS02	SMOS	118AC	01650037:04	01650082:52	92-342/23:29:04	MOON
E2LSLUNMOS03	TARGET	165MG	01650086:89	01650228:00	92-343/00:19:34	MOON
E2LSLUNMOS03	SSI	147CS	01650087:76	01650227:89	92-343/00:20:26	MOON
E2LSLUNMOS03	INITRS	128BR	01650087:78	01650088:04	92-343/00:20:27	MOON
E2LSLUNMOS03	SCITLM	176RU	01650088:00	01650088:13	92-343/00:20:36	MOON
E2LSLUNMOS03	SMOS	118AE	01650098:87	01650216:11	92-343/00:31:40	MOON
E2LSLUNMOS03	SMOS	118AV	01650216:87	01650225:11	92-343/02:30:59	MOON
E2LULNRLMB01	TARGET	165MN	01650231:89	01650255:00	92-343/02:46:10	MOON
E2LULNRLMB01	INITRS	128BY	01650231:89	01650233:04	92-343/02:46:10	MOON
E2LULNRLMB01	CMDRS	157LX	01650234:00	01650254:00	92-343/02:48:13	MOON
E2LULNRLMB01	SSI	147CZ	01650239:76	01650247:89	92-343/02:54:07	MOON
E2LULNRLMB01	SCITLM	176KB	01650240:00	01650240:13	92-343/02:54:17	MOON

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
E2LSLUNMOS04	TARGET	165MH	01650255:89	01650274:00	92-343/03:10:26	MOON
E2LSLUNMOS04	INITRS	128BS	01650256:90	01650258:04	92-343/03:11:28	MOON
E2LSLUNMOS04	SSI	147CT	01650257:76	01650273:63	92-343/03:12:19	MOON
E2LSLUNMOS04	SCIREC	175RL	01650257:88	01650273:69	92-343/03:12:27	MOON
E2LSLUNMOS04	SCITLM	176RV	01650258:00	01650258:13	92-343/03:12:29	MOON
E2LSLUNMOS04	SMOS	118AF	01650258:04	01650273:29	92-343/03:12:32	MOON
E2LNHIRES_01	INITRS	128BL	01650273:89	01650275:04	92-343/03:28:38	MOON
E2LNHIRES_01	TARGET	165LW	01650274:50	01650331:00	92-343/03:29:13	MOON
E2LNHIRES_01	SSI	147EN	01650274:76	01650330:89	92-343/03:29:30	MOON
E2LNHIRES_01	CSMOS	117AJ	01650274:77	01650330:80	92-343/03:29:31	MOON
E2LNHIRES_01	SCITLM	176JO	01650275:00	01650275:13	92-343/03:29:40	MOON
E2LSLUNMOS05	TARGET	165MI	01650331:89	01650350:00	92-343/04:27:17	MOON
E2LSLUNMOS05	INITRS	128BT	01650332:84	01650334:04	92-343/04:28:14	MOON
E2LSLUNMOS05	SSI	147CU	01650333:76	01650349:37	92-343/04:29:10	MOON
E2LSLUNMOS05	SCIREC	175RM	01650333:88	01650349:43	92-343/04:29:18	MOON
E2LSLUNMOS05	SCITLM	176RW	01650334:00	01650334:13	92-343/04:29:20	MOON
E2LSLUNMOS05	SMOS	118AG	01650334:04	01650349:29	92-343/04:29:22	MOON
E2LNPHASE_07	TARGET	165LX	01650350:50	01650381:00	92-343/04:46:04	MOON
E2LNPHASE_07	CSMOS	117AK	01650350:77	01650380:88	92-343/04:46:22	MOON
E2LNPHASE_07	INITRS	128BM	01650350:84	01650351:04	92-343/04:46:26	MOON
E2LSLUNMOS06	TARGET	165MJ	01650381:89	01650488:00	92-343/05:17:50	MOON
E2LSLUNMOS06	SSI	147CV	01650383:76	01650487:89	92-343/05:19:43	MOON
E2LSLUNMOS06	INITRS	128BU	01650383:78	01650384:04	92-343/05:19:44	MOON
E2LSLUNMOS06	SCITLM	176RX	01650384:00	01650384:13	92-343/05:19:53	MOON
E2LSLUNMOS06	SMOS	118AH	01650388:87	01650487:11	92-343/05:24:54	MOON
E2LPFOVMAP01	TARGET	165NL	01650489:89	01650491:00	92-343/07:07:02	MOON
E2LPFOVMAP01	SSI	147EI	01650490:76	01650494:89	92-343/07:07:54	MOON
E2LPFOVMAP01	CSMOS	117BF	01650490:77	01650519:76	92-343/07:07:55	MOON
E2LPFOVMAP01	CMDRS	157MB	01650491:00	01650521:00	92-343/07:08:04	MOON
E2LSLUNMOS07	TARGET	165MK	01650540:89	01650635:00	92-343/07:58:36	MOON
E2LSLUNMOS07	INITRS	128BV	01650540:89	01650542:04	92-343/07:58:36	MOON
E2LSLUNMOS07	SSI	147CW	01650541:76	01650634:89	92-343/07:59:28	MOON
E2LSLUNMOS07	SCITLM	176RY	01650542:00	01650542:13	92-343/07:59:38	MOON
E2LSLUNMOS07	SMOS	118AI	01650544:04	01650634:52	92-343/08:01:42	MOON
E2LNPHASE_11	TARGET	165LY	01650638:50	01650667:00	92-343/09:37:16	MOON
E2LNPHASE_11	CSMOS	117AL	01650638:77	01650666:87	92-343/09:37:34	MOON
E2WNLOWCAL01	TARGET	165MR	01650669:89	01650730:00	92-343/10:09:02	EARTH
E2WNLOWCAL01	INITRS	128CC	01650670:84	01650674:04	92-343/10:10:00	EARTH
E2WNLOWCAL01	CSMOS	117AT	01650673:77	01650729:46	92-343/10:12:57	EARTH
E2WNLOWCAL01	CMDRS	157ME	01650730:00	01650732:00	92-343/11:09:44	EARTH
E2LPLUNFAZ06	TARGET	165MC	01650730:89	01650735:00	92-343/11:10:43	MOON
E2LPLUNFAZ06	CSMOS	117AP	01650734:77	01650788:23	92-343/11:14:38	MOON
E2LPLUNFAZ06	CMDRS	157LW	01650735:00	01650792:00	92-343/11:14:47	MOON

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
E2NNNOOBS_01	TARGET	165JB	01650793:89	01650798:00	92-343/12:14:25	NO_OBS
E2NNNOOBS_02	TARGET	165JC	01650959:55	01650965:87	92-343/15:01:53	NO_OBS
E2NNNOOBS_03	TARGET	165JD	01650966:47	01650972:28	92-343/15:08:52	NO_OBS
E2NNNOOBS_04	TARGET	165JE	01650974:02	01650978:04	92-343/15:16:28	NO_OBS
E2NNNOOBS_05	TARGET	165JF	01650983:23	01650993:25	92-343/15:25:48	NO_OBS
E2WSANDES_01	TARGET	165MU	01650999:52	01651013:00	92-343/15:42:18	EARTH
E2WSANDES_01	INITRS	128CD	01651001:90	01651003:04	92-343/15:44:44	EARTH
E2WSANDES_01	SMOS	118AL	01651002:81	01651013:70	92-343/15:45:39	EARTH
E2WSANDES_01	SSI	147DF	01651002:89	01651013:11	92-343/15:45:44	EARTH
E2WSANDES_01	SCIREC	175SH	01651003:10	01651013:17	92-343/15:45:52	EARTH
E2WSANDES_01	SCITLM	176SI	01651003:13	01651003:26	92-343/15:45:54	EARTH
E2WSHAWAUR01	SCITLM	176SJ	01651022:00	01651025:00	92-343/16:04:58	EARTH
E2WSHAWAUR01	TARGET	165NW	01651022:49	01651037:52	92-343/16:05:31	EARTH
E2WSHAWAUR01	INITRS	128CW	01651024:89	01651026:04	92-343/16:07:59	EARTH
E2WSHAWAUR01	SSI	147EP	01651025:76	01651037:89	92-343/16:08:51	EARTH
E2WSHAWAUR01	SMOS	118AW	01651026:04	01651037:52	92-343/16:09:04	EARTH
E2WSHAWAUN01	TARGET	165NV	01651037:53	01651045:55	92-343/16:20:44	EARTH
E2LSLUNMOS08	TARGET	165ML	01651077:89	01651082:06	92-343/17:01:34	MOON
E2LSLUNMOS08	SSI	147CX	01651081:76	01651100:89	92-343/17:05:28	MOON
E2LSLUNMOS08	SMOS	118AJ	01651081:82	01651099:23	92-343/17:05:32	MOON
E2LSLUNMOS08	SCITLM	176SL	01651082:00	01651082:13	92-343/17:05:38	MOON
E2WNANTAR_01	INITRS	128BZ	01651101:89	01651103:04	92-343/17:25:50	EARTH
E2WNANTAR_01	TARGET	165MO	01651101:89	01651149:00	92-343/17:25:50	EARTH
E2WNANTAR_01	SSI	147DA	01651105:76	01651145:89	92-343/17:29:44	EARTH
E2WNANTAR_01	CSMOS	117AQ	01651105:77	01651149:00	92-343/17:29:45	EARTH
E2WSLTNING01	TARGET	165NF	01651282:89	01651303:00	92-343/20:28:51	EARTH
E2WSLTNING01	SSI	147DX	01651283:76	01651302:89	92-343/20:29:43	EARTH
E2WSLTNING01	INITRS	128CO	01651283:78	01651284:04	92-343/20:29:44	EARTH
E2WSLTNING01	SCITLM	176SM	01651284:00	01651284:13	92-343/20:29:53	EARTH
E2WSLTNING01	SMOS	118AP	01651286:87	01651302:11	92-343/20:32:52	EARTH
E2WNAUSIE_01	INITRS	128CA	01651302:89	01651304:04	92-343/20:49:04	EARTH
E2WNAUSIE_01	TARGET	165MP	01651303:50	01651364:00	92-343/20:49:39	EARTH
E2WNAUSIE_01	SSI	147DB	01651303:76	01651363:89	92-343/20:49:56	EARTH
E2WNAUSIE_01	CSMOS	117AR	01651303:77	01651361:08	92-343/20:49:57	EARTH
E2WNAUSIE_01	SCITLM	176JI	01651304:00	01651304:13	92-343/20:50:06	EARTH
E2LSLUNMOS09	TARGET	165MM	01651364:89	01651369:11	92-343/21:51:46	MOON
E2LSLUNMOS09	SSI	147CY	01651368:76	01651403:89	92-343/21:55:40	MOON
E2LSLUNMOS09	SMOS	118AK	01651368:87	01651403:11	92-343/21:55:47	MOON
E2LSLUNMOS09	INITRS	128BX	01651368:90	01651369:04	92-343/21:55:49	MOON
E2LSLUNMOS09	SCITLM	176SN	01651369:00	01651369:13	92-343/21:55:50	MOON
E2WNINDO__01	TARGET	165NU	01651404:44	01651409:00	92-343/22:31:42	EARTH
E2WNINDO__01	INITRS	128CV	01651405:89	01651407:04	92-343/22:33:13	EARTH
E2WNINDO__01	SSI	147EO	01651406:76	01651426:44	92-343/22:34:05	EARTH
E2WNINDO__01	CSMOS	117BI	01651406:77	01651426:48	92-343/22:34:06	EARTH

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
E2WNGMOS__01	TARGET	165MQ	01651438:89	01651444:00	92-343/23:06:35	EARTH
E2WNGMOS__01	INITRS	128CB	01651441:89	01651443:04	92-343/23:09:37	EARTH
E2WNGMOS__01	CSMOS	117AS	01651442:77	01651735:90	92-343/23:10:30	EARTH
E2WNGMOS__01	SSI	147DC	01651604:76	01651672:44	92-344/01:54:17	EARTH
E2WNGMOS__01	SSI	147DD	01651672:76	01651740:89	92-344/03:03:02	EARTH
E2WPBUDLIT01	TARGET	165MS	01651738:89	01651743:00	92-344/04:09:55	EARTH
E2WPBUDLIT01	SSI	147DE	01651742:76	01651794:89	92-344/04:13:49	EARTH
E2WPBUDLIT01	CSMOS	117AU	01651742:77	01651794:68	92-344/04:13:50	EARTH
E2WPBUDLIT01	CMDRS	157LY	01651743:00	01651745:00	92-344/04:13:59	EARTH
E2WSZOOMMV01	TARGET	165NX	01651858:89	01651864:00	92-344/06:11:15	EARTH
E2WSZOOMMV01	INITRS	128CX	01651861:89	01651863:04	92-344/06:14:17	EARTH
E2WSZOOMMV01	SSI	147EQ	01651862:76	01651960:44	92-344/06:15:09	EARTH
E2WSZOOMMV01	SCITLM	176SO	01651863:00	01651863:13	92-344/06:15:19	EARTH
E2WSZOOMMV01	SMOS	118AX	01651865:81	01652157:01	92-344/06:18:14	EARTH
E2WSZOOMMV01	SSI	147ER	01651960:76	01652058:44	92-344/07:54:14	EARTH
E2WSZOOMMV01	SSI	147EV	01652058:76	01652156:89	92-344/09:33:20	EARTH
E2WSGOPEX_01	TARGET	165MX	01652157:50	01652159:00	92-344/11:13:08	EARTH
E2WSGOPEX_01	SSI	147DO	01652157:76	01652247:44	92-344/11:13:26	EARTH
E2WSGOPEX_01	CSMOS	117AW	01652157:77	01652337:66	92-344/11:13:26	EARTH
E2WSGOPEX_01	SSI	147DP	01652247:76	01652335:89	92-344/12:44:26	EARTH
E2WSZOOMMV02	TARGET	165NG	01652338:50	01652340:00	92-344/14:16:09	EARTH
E2WSZOOMMV02	SSI	147DY	01652338:76	01652457:44	92-344/14:16:26	EARTH
E2WSZOOMMV02	SMOS	118AQ	01652341:82	01652569:84	92-344/14:19:32	EARTH
E2WSZOOMMV02	SSI	147DZ	01652457:76	01652569:89	92-344/16:16:46	EARTH
E2LSLUNCAL01	TARGET	165MD	01652570:89	01652574:00	92-344/18:11:10	MOON
E2LSLUNCAL01	INITRS	128BN	01652571:90	01652573:05	92-344/18:12:11	MOON
E2LSLUNCAL01	SSI	147CO	01652572:76	01652573:26	92-344/18:13:02	MOON
E2LSLUNCAL01	SCIREC	175SI	01652572:84	01652573:32	92-344/18:13:08	MOON
E2LSLUNCAL01	SCITLM	176SP	01652573:00	01652573:13	92-344/18:13:12	MOON
E2LSLUNCAL02	TARGET	165NT	01652574:50	01652575:11	92-344/18:14:46	MOON
E2LSLUNCAL02	SSI	147CP	01652574:76	01652694:89	92-344/18:15:04	MOON
E2LSLUNCAL02	SMOS	118AA	01652574:87	01652694:11	92-344/18:15:11	MOON
E2LSLUNCAL02	INITRS	128BO	01652574:90	01652575:05	92-344/18:15:13	MOON
E2LSLUNCAL02	SCITLM	176SQ	01652575:00	01652575:13	92-344/18:15:14	MOON
E2WSZOOMMV03	SCITLM	176SR	01652701:00	01652704:00	92-344/20:22:38	EARTH
E2WSZOOMMV03	TARGET	165NH	01652704:89	01652708:00	92-344/20:26:39	EARTH
E2WSZOOMMV03	SSI	147EB	01652706:76	01652922:89	92-344/20:28:32	EARTH
E2WSZOOMMV03	INITRS	128CQ	01652706:90	01652707:05	92-344/20:28:41	EARTH
E2WSZOOMMV03	SMOS	118AR	01652712:88	01653574:12	92-344/20:34:44	EARTH
E2WSZOOMMV03	SSI	147EC	01652923:76	01653139:89	92-345/00:07:56	EARTH
E2WSZOOMMV03	SSI	147ED	01653140:76	01653356:89	92-345/03:47:21	EARTH
E2WSZOOMMV03	SSI	147ES	01653357:76	01653573:89	92-345/07:26:46	EARTH
E2WSGOPEX_02	TARGET	165MY	01653574:50	01653576:00	92-345/11:05:53	EARTH
E2WSGOPEX_02	SSI	147DQ	01653574:76	01653694:89	92-345/11:06:10	EARTH
E2WSGOPEX_02	CSMOS	117AX	01653574:82	01653694:71	92-345/11:06:14	EARTH

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
E2WSZOOMMV00	TARGET	165NI	01653695:50	01653697:00	92-345/13:08:14	EARTH
E2WSZOOMMV00	SSI	147EE	01653695:76	01653807:89	92-345/13:08:31	EARTH
E2WSZOOMMV00	SMOS	118AS	01653701:88	01653807:12	92-345/13:14:43	EARTH
E2WSZOOMMV04	SCITLM	176A	01653935:00	01653938:00	92-345/17:10:20	EARTH
E2WSZOOMMV04	TARGET	165A	01653942:89	01653947:00	92-345/17:18:24	EARTH
E2WSZOOMMV04	SSI	147EF	01653946:76	01654155:89	92-345/17:22:18	EARTH
E2WSZOOMMV04	SMOS	118A	01653952:88	01654366:12	92-345/17:28:30	EARTH
E2WSZOOMMV04	SSI	147EG	01654156:76	01654369:89	92-345/20:54:38	EARTH
E2WSZOOMMV05	SCITLM	176UF	01654417:00	01654420:00	92-346/01:17:41	EARTH
E2WSZOOMMV05	INITRS	128CY	01654423:89	01654425:05	92-346/01:24:45	EARTH
E2WSZOOMMV05	TARGET	165NY	01654424:50	01654709:00	92-346/01:25:19	EARTH
E2WSZOOMMV05	SSI	147ET	01654424:76	01654540:89	92-346/01:25:37	EARTH
E2WSZOOMMV05	SCIREC	175WX	01654425:44	01654429:02	92-346/01:26:16	EARTH
E2WSZOOMMV05	SCIREC	175WY	01654481:44	01654485:02	92-346/02:22:53	EARTH
E2WSZOOMMV05	SCIREC	175WZ	01654537:44	01654541:02	92-346/03:19:31	EARTH
E2WSZOOMMV05	SSI	147EU	01654592:76	01654708:89	92-346/04:15:29	EARTH
E2WSZOOMMV05	SCIREC	175XA	01654593:44	01654597:02	92-346/04:16:08	EARTH
E2WSZOOMMV05	SCIREC	175XB	01654649:44	01654653:02	92-346/05:12:45	EARTH
E2WSZOOMMV05	SCIREC	175XC	01654705:44	01654709:02	92-346/06:09:23	EARTH
	ALSPINSP	192JC	01654843:00	01654846:00	92-346/08:28:25	PCT
E2NNPCTMIN01	SCITLM	176JK	01654843:00	01654843:13	92-346/08:28:25	PCT
E2NNPCTMIN01	CMDRS	157JF	01654847:00	01654938:00	92-346/08:32:28	PCT
E2WSGOPEX_03	SCITLM	176SS	01654987:00	01654990:00	92-346/10:54:01	EARTH
E2WSGOPEX_03	TARGET	165MZ	01654998:89	01655004:00	92-346/11:06:08	EARTH
E2WSGOPEX_03	INITRS	128CI	01655001:89	01655003:05	92-346/11:09:10	EARTH
E2WSGOPEX_03	SSI	147DR	01655002:76	01655060:89	92-346/11:10:02	EARTH
E2WSGOPEX_03	CSMOS	117AY	01655002:77	01655060:50	92-346/11:10:03	EARTH
E2WSGOPEX_03	SCIREC	175SK	01655002:90	01655003:48	92-346/11:10:11	EARTH
	RADHTR	185JB	01655004:00	01655420:01	92-346/11:11:13	RCT_ON
E2WSGOPEX_03	SCIREC	175SL	01655005:90	01655006:48	92-346/11:13:13	EARTH
E2WSGOPEX_03	SCIREC	175SM	01655008:90	01655009:48	92-346/11:16:15	EARTH
E2WSGOPEX_03	SCIREC	175SN	01655011:90	01655012:48	92-346/11:19:17	EARTH
E2WSGOPEX_03	SCIREC	175SO	01655014:90	01655015:48	92-346/11:22:19	EARTH
E2WSGOPEX_03	SCIREC	175SP	01655017:90	01655018:48	92-346/11:25:21	EARTH
E2WSGOPEX_03	SCIREC	175SQ	01655020:90	01655021:48	92-346/11:28:23	EARTH
E2WSGOPEX_03	SCIREC	175SR	01655023:90	01655024:48	92-346/11:31:25	EARTH
E2WSGOPEX_03	SCIREC	175SS	01655026:90	01655027:48	92-346/11:34:27	EARTH
E2WSGOPEX_03	SCIREC	175ST	01655029:90	01655030:48	92-346/11:37:29	EARTH
E2WSGOPEX_03	SCIREC	175SU	01655032:90	01655033:48	92-346/11:40:31	EARTH
E2WSGOPEX_03	SCIREC	175SV	01655035:90	01655036:48	92-346/11:43:33	EARTH
E2WSGOPEX_03	SCIREC	175SW	01655038:90	01655039:48	92-346/11:46:35	EARTH
E2WSGOPEX_03	SCIREC	175SX	01655041:90	01655042:48	92-346/11:49:37	EARTH
E2WSGOPEX_03	SCIREC	175SY	01655044:90	01655045:48	92-346/11:52:39	EARTH
E2WSGOPEX_03	SCIREC	175SZ	01655047:90	01655048:48	92-346/11:55:41	EARTH
E2WSGOPEX_03	SCIREC	175TA	01655050:90	01655051:48	92-346/11:58:43	EARTH
E2WSGOPEX_03	SCIREC	175TB	01655053:90	01655054:48	92-346/12:01:45	EARTH
E2WSGOPEX_03	SCIREC	175TC	01655056:90	01655057:48	92-346/12:04:47	EARTH
E2WSGOPEX_03	SCIREC	175TD	01655059:90	01655060:48	92-346/12:07:49	EARTH

OAPEL	PA	PSID	SCLK1	SCLK2	SCET1	TARGET
E2NNRCTMIN01	TARGET	165JG	01655383:89	01655388:00	92-346/17:35:25	RCT
E2NNRCTMIN01	SCITLM	176JL	01655388:00	01655388:13	92-346/17:39:29	RCT
	ALSPINSP	192JD	01655390:00	01655420:00	92-346/17:41:30	RCT
E2NNRCTMIN01	CMDRS	157JG	01655390:00	01655421:00	92-346/17:41:30	RCT
E2HUSYSCAN01	TARGET	165LR	01655423:89	01655428:04	92-346/18:15:51	SKY
E2HUSYSCAN01	CMDRS	157MF	01655427:00	01655429:00	92-346/18:18:55	SKY
E2HUSYSCAN01	CSMOS	117AF	01655427:77	01656361:00	92-346/18:19:46	SKY
E2HNMIRCAL01	CMDRS	157LU	01655430:00	01655452:00	92-346/18:21:57	SKY

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 Heading             Columns     Comments
------------------------------------------------------------------------------
  OAPEL                 1 -  12     .Oapel Name from SEF (no aliases yet)
  EXT                  14 -  14     .Extension (allow for split OAPELs)
  PSID                 16 -  17     .2 Letter ID for the OAPEL
  SCLK1                19 -  29     .Start time of OBS in SCLK
  SCLK2                31 -  41     .STOP time of OBS in SCLK
  MODE                 43 -  44     .NIMS Instrument MODE
  GAIN                 46 -  47     .Gain State (true value)
  CHOP                 49 -  50     .Chopper State (1=Ref,2=63Hz,3=FreeRun,4=Off)
  GRAT_OFF             52 -  53     .Grating Offset
  PTAB_A(6)            55 -  71     .First PTAB  (repeat count,mirror op,autobias...
  PTAB_B(6)            73 -  89     .Second PTAB (...grating start, grating delta...
                                    .            (...number of grating postions)
  ECAL                 92 -  92     .Electronics Calibration Active (1=yes)
  OPCAL                94 -  94     .Optics Calibration active (1=yes)
  UTC1                 96 - 112     .Start time of OBS in UTC (from SEF - ISO STANDARD)
  REAL_TIME           115 - 115     .NIMS in Real-Time Telemetry (1=yes)
  RECORD              117 - 117     .NIMS in Record Telemetry(1=yes)
  TARGET              120 - 127     .Primary Target of OBS
                                     EARTH       - W - Earth
                                     MOON        - L - Moon
                                     SKY         - H - Stellar Sky
                                     CALIBRATION - N - Non-Science
  (the single letter abbreviation appears as the third character in the OBSNAME (OAPEL Name) ).
 INPUT SEF FILE: EE11_921118.SEF
-----------------------------------------------------------------------------------------------------------------------------
OAPEL, EXT, PSID, SCLK1, SCLK2, MODE, GAIN, CHOP, GRAT_OFF, PTAB_A(6), PTAB_B(6), ECAL, OPCAL, UTC1, REAL_TIME, RECORD, TARGET

OAPEL      EXT PSID SCLK1       SCLK2      M  G  C  O  |    PTAB A     |  |    PTAB B     |  E O      UTC1          R T  TARGET
----------------------------------------------------------------------------------------------------------------------------
E2LPLUNFAZ01 A AN 01649071:77 01649086:61  0  4  1  4  1  0  0  0  0 12  1  0  0  0  0 12  0 0 1992-342T07:13:09  1 0  MOON
E2HUUSTAR_02 A AH 01649095:77 01649423:71  0  4  1  4  1  0  0  0  0 12  1  0  0  0  0 12  0 0 1992-342T07:37:25  1 0  SKY
E2HSSTRCAL13 A T  01649565:76 01649579:89  0  4  1  4  1  0  0  0  0 12  1  0  0  0  0 12  0 0 1992-342T15:32:38  1 0  SKY
E2HSSTRCAL14 A U  01649583:76 01649587:89  0  4  1  4  1  0  0  0  0 12  1  0  0  0  0 12  0 0 1992-342T15:50:50  1 0  SKY
E2WPNITLIT01 A AV 01649828:77 01649851:62  0  4  1  4  1  0  0  0  0 12  1  0  0  0  0 12  0 0 1992-342T19:58:34  1 0  EARTH
E2LPLUNFAZ02 A AO 01649861:77 01649963:22  5  1  2  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1992-342T20:31:56  1 0  MOON
E2LSLUNMOS01 A AB 01649973:82 01650014:87  5  1  2  4  1  1  0  2  4  6  1  1  0  2  4  6  0 0 1992-342T22:25:14  1 0  MOON
E2LN4GAIN_01 A BK 01650016:00 01650016:90  7  1  2  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1992-342T23:07:43  1 0  MOON
E2LN4GAIN_01 B LV 01650017:00 01650017:90  7  4  2  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1992-342T23:08:44  1 0  MOON
E2LN4GAIN_01 C LV 01650018:00 01650018:90  7  3  2  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1992-342T23:09:44  1 0  MOON
E2LN4GAIN_01 D LV 01650019:00 01650019:90  7  2  2  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1992-342T23:10:45  1 0  MOON
E2LN4GAIN_01 E LV 01650020:00 01650026:90  7  1  2  4  1  1  0  6  0 12  1  1  0  6  0 12  0 0 1992-342T23:11:46  1 0  MOON
E2LN4GAIN_01 F LV 01650027:00 01650027:89  1  1  2  4  1  1  0  0  2 12  1  1  0  0  2 12  0 0 1992-342T23:18:50  1 0  MOON
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OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A						PTAB B						E	O	UTC1	R	T	TARGET
E2LSLUNMOS02	A	AC	01650037:04	01650082:52	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1992-342T23:29:04	1	0	MOON
E2LSLUNMOS03	A	AE	01650098:87	01650216:11	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1992-343T00:31:40	1	0	MOON
E2LSLUNMOS03	B	AV	01650216:87	01650225:11	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1992-343T02:30:59	1	0	MOON
E2LULNRLMB01	A	MN	01650231:89	01650234:90	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1992-343T02:46:10	1	0	MOON
E2LULNRLMB01	B	MN	01650235:00	01650236:90	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1992-343T02:49:09	1	0	MOON
E2LULNRLMB01	C	MN	01650237:00	01650251:90	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1992-343T02:51:10	1	0	MOON
E2LULNRLMB01	D	MN	01650252:00	01650255:00	7	1	2	4	1	0	0	6	0	12	1	0	0	6	0	12	0	0	1992-343T03:06:20	1	0	MOON
E2LSLUNMOS04	A	AF	01650258:04	01650273:29	7	1	2	4	1	0	0	6	0	12	1	0	0	6	0	12	0	0	1992-343T03:12:32	1	1	MOON
E2LNHIRES_01	C	BL	01650275:00	01650331:00	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1992-343T03:29:40	1	0	MOON
E2LSLUNMOS05	A	AG	01650334:04	01650349:29	7	1	2	4	1	0	0	6	0	12	1	0	0	6	0	12	0	0	1992-343T04:29:22	1	1	MOON
E2LNPHASE_07	A	AK	01650351:00	01650380:88	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1992-343T04:46:26	1	0	MOON
E2LSLUNMOS06	A	AH	01650388:87	01650487:11	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1992-343T05:24:54	1	0	MOON
E2LPFOVMAP01	A	BF	01650490:77	01650491:90	5	1	2	4	1	1	0	2	4	6	1	1	0	2	4	6	0	0	1992-343T07:07:55	1	0	MOON
E2LPFOVMAP01	B	BF	01650492:00	01650519:76	7	1	2	4	1	1	0	6	0	12	1	1	0	6	0	12	0	0	1992-343T07:09:00	1	0	MOON
E2LSLUNMOS07	A	AI	01650544:04	01650634:52	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1992-343T08:01:42	1	0	MOON
E2LNPHASE_11	A	AL	01650638:77	01650666:87	1	1	2	4	1	1	0	0	2	12	1	1	0	0	2	12	0	0	1992-343T09:37:34	1	0	MOON
E2WNLOWCAL01	A	AT	01650674:00	01650729:46	12	4	1	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T10:13:02	1	0	EARTH
E2LPLUNFAZ06	A	AP	01650734:77	01650788:23	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T11:14:38	1	1	MOON
E2NNNOOBS_01	A	JB	01650793:89	01650798:00	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T12:14:25	1	0	NO_OBS
E2NNNOOBS_02	A	JC	01650959:55	01650965:87	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T15:01:53	0	1	NO_OBS
E2NNNOOBS_03	A	JD	01650966:47	01650972:28	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T15:08:52	0	1	NO_OBS
E2NNNOOBS_04	A	JE	01650974:02	01650978:04	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T15:16:28	0	1	NO_OBS
E2NNNOOBS_05	A	JF	01650983:23	01650984:88	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T15:25:48	0	1	NO_OBS
E2NNNOOBS_05	B	JF	01650985:05	01650993:25	12	1	2	4	1	1	0	11	2	6	1	1	0	11	2	6	0	0	1992-343T15:27:37	0	1	NO_OBS
E2WSANDES_01	A	AL	01651003:15	01651009:69	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T15:45:56	0	1	EARTH
E2WSANDES_01	B	AL	01651009:79	01651013:13	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T15:52:43	0	1	EARTH
E2WSANDESN01	A	NJ	01651013:77	01651016:47	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T15:56:44	0	1	EARTH
E2WSHAWAUR01	A	AW	01651026:04	01651037:52	7	1	2	4	1	1	0	0	0	12	1	1	0	0	0	12	0	0	1992-343T16:09:04	1	0	EARTH
E2LSLUNMOS08	A	AJ	01651081:82	01651099:23	7	1	2	4	1	1	0	0	0	12	1	1	0	0	0	12	0	0	1992-343T17:05:32	1	0	MOON
E2WNANTAR_01	A	AQ	01651105:77	01651149:00	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T17:29:45	1	0	EARTH
E2WSLTNING01	A	AP	01651286:87	01651302:11	7	1	2	4	1	1	0	0	0	12	1	1	0	0	0	12	0	0	1992-343T20:32:52	1	0	EARTH
E2WNAUSIE_01	B	AR	01651304:00	01651361:08	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T20:50:02	1	0	EARTH
E2LSLUNMOS09	A	AK	01651368:87	01651403:11	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T21:55:47	1	0	MOON
E2WNINDO__01	A	BI	01651406:77	01651426:48	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T22:34:06	1	0	EARTH
E2WNGMOS__01	A	AS	01651442:77	01651619:15	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-343T23:10:30	1	0	EARTH
E2WNGMOS__01	B	AS	01651619:15	01651735:90	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T02:08:46	1	0	EARTH
E2WPBUDLIT01	A	AU	01651742:77	01651794:68	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T04:13:50	1	0	EARTH
E2WSZOOMMV01	A	AX	01651865:81	01652157:01	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T06:18:14	1	0	EARTH
E2WSGOPEX_01	A	AW	01652157:77	01652337:66	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T11:13:26	1	0	EARTH
E2WSZOOMMV02	A	AQ	01652341:82	01652569:90	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T14:19:32	1	0	EARTH
E2LSLUNCAL01	A	CO	01652572:76	01652573:26	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T18:13:02	1	0	MOON
E2LSLUNCAL02	A	AA	01652574:87	01652694:11	3	1	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-344T18:15:11	1	0	MOON

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OAPEL      EXT PSID SCLK1       SCLK2       M  G  C  O  |    PTAB A     |  |    PTAB B     |  E O       UTC1            R T  TARGET
------------------------------------------------------------------------------------------------------------------------------------
E2WSZOOMMV03 A AR 01652712:88 01653574:12  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-344T20:34:44  1 0  EARTH
E2WSGOPEX_02 A AX 01653574:82 01653694:71  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-345T11:06:14  1 0  EARTH
E2WSZOOMMV00 A AS 01653701:88 01653807:12  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-345T13:14:43  1 0  EARTH
E2WSZOOMMV04 A A  01653952:88 01654366:12  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-345T17:28:30  1 0  EARTH
E2WSZOOMMV05 A ET 01654425:50 01654429:00  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T01:26:20  0 1  EARTH
E2WSZOOMMV05 B ET 01654481:50 01654485:00  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T02:22:57  0 1  EARTH
E2WSZOOMMV05 C ET 01654537:50 01654540:89  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T03:19:35  0 1  EARTH
E2WSZOOMMV05 D EU 01654593:50 01654597:00  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T04:16:12  0 1  EARTH
E2WSZOOMMV05 E EU 01654649:50 01654653:00  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T05:12:49  0 1  EARTH
E2WSZOOMMV05 F EU 01654705:50 01654708:89  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T06:09:27  0 1  EARTH
E2NNPCTMIN01 A JK 01654843:00 01654843:13  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T08:28:25  1 0  PCT
E2NNPCTMIN01 A JF 01654847:00 01654847:90  3  1  2  4  1  1  0  0  1 24  1  1  0  0  1 24  0 0 1992-346T08:32:28  1 0  PCT
E2NNPCTMIN01 B JF 01654848:00 01654848:90  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T08:33:24  1 0  PCT
E2NNPCTMIN01 C JF 01654849:00 01654855:90  4  2  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T08:34:25  1 0  PCT
E2NNPCTMIN01 D JF 01654856:00 01654858:90  4  4  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T08:41:29  1 0  PCT
E2NNPCTMIN01 E JF 01654859:00 01654861:90  4  3  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T08:44:31  1 0  PCT
E2NNPCTMIN01 F JF 01654862:00 01654938:00  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T08:47:33  1 0  PCT
E2WSGOPEX_03 A AY 01655003:05 01655003:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:10:15  0 1  EARTH
E2WSGOPEX_03 B AY 01655006:05 01655006:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:13:17  0 1  EARTH
E2WSGOPEX_03 C AY 01655009:05 01655009:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:16:19  0 1  EARTH
E2WSGOPEX_03 D AY 01655012:05 01655012:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:19:21  0 1  EARTH
E2WSGOPEX_03 E AY 01655015:05 01655015:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:22:23  0 1  EARTH
E2WSGOPEX_03 F AY 01655018:05 01655018:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:25:25  0 1  EARTH
E2WSGOPEX_03 G AY 01655021:05 01655021:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:28:27  0 1  EARTH
E2WSGOPEX_03 H AY 01655024:05 01655024:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:31:29  0 1  EARTH
E2WSGOPEX_03 I AY 01655027:05 01655027:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:34:31  0 1  EARTH
E2WSGOPEX_03 J AY 01655030:05 01655030:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:37:33  0 1  EARTH
E2WSGOPEX_03 K AY 01655033:05 01655033:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:40:35  0 1  EARTH
E2WSGOPEX_03 L AY 01655036:05 01655036:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:43:37  0 1  EARTH
E2WSGOPEX_03 M AY 01655039:05 01655039:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:46:39  0 1  EARTH
E2WSGOPEX_03 N AY 01655042:05 01655042:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:49:41  0 1  EARTH
E2WSGOPEX_03 O AY 01655045:05 01655045:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:52:43  0 1  EARTH
E2WSGOPEX_03 P AY 01655048:05 01655048:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:55:45  0 1  EARTH
E2WSGOPEX_03 Q AY 01655051:05 01655051:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T11:58:47  0 1  EARTH
E2WSGOPEX_03 R AY 01655054:05 01655054:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T12:01:49  0 1  EARTH
E2WSGOPEX_03 S AY 01655057:05 01655057:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T12:04:51  0 1  EARTH
E2WSGOPEX_03 T AY 01655060:05 01655060:46  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T12:07:53  0 1  EARTH
E2NNRCTMIN01 A JG 01655390:00 01655391:90  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T17:41:30  1 0  DARK
E2NNRCTMIN01 B JG 01655392:00 01655392:90  4  4  2  4  1  0  0  0  1 24  1  0  0  0  1 24  1 0 1992-346T17:43:27  1 0  DARK
E2NNRCTMIN01 C JG 01655393:00 01655393:90  4  2  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T17:44:27  1 0  DARK
E2NNRCTMIN01 D JG 01655394:00 01655394:90  4  1  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 1 1992-346T17:45:28  1 0  DARK
E2NNRCTMIN01 E JG 01655395:00 01655395:90  4  4  2  4  1  0  0  0  1 24  1  0  0  0  1 24  0 0 1992-346T17:46:29  1 0  DARK
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OAPEL	EXT	PSID	SCLK1	SCLK2	M	G	C	O	PTAB A						PTAB B						E	O	UTC1	R	T	TARGET
E2NNRCTMIN01	F	JG	01655396:00	01655396:90	4	1	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:47:29	1	0	DARK
E2NNRCTMIN01	G	JG	01655397:00	01655397:90	4	3	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:48:30	1	0	DARK
E2NNRCTMIN01	H	JG	01655398:00	01655400:90	4	2	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:49:31	1	0	DARK
E2NNRCTMIN01	I	JG	01655401:00	01655401:90	4	4	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:52:33	1	0	DARK
E2NNRCTMIN01	J	JG	01655402:00	01655402:90	4	1	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:53:33	1	0	DARK
E2NNRCTMIN01	K	JG	01655403:00	01655404:00	4	3	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:54:34	1	0	DARK
E2NNRCTMIN01	L	JG	01655404:00	01655407:90	4	3	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:55:39	1	0	RCT
E2NNRCTMIN01	M	JG	01655408:00	01655408:90	4	1	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T17:59:37	1	0	RCT
E2NNRCTMIN01	N	JG	01655409:00	01655409:90	4	4	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:00:38	1	0	RCT
E2NNRCTMIN01	O	JG	01655410:00	01655410:90	4	2	1	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:01:39	1	0	RCT
E2NNRCTMIN01	P	JG	01655411:00	01655413:90	4	3	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:02:39	1	0	RCT
E2NNRCTMIN01	Q	JG	01655414:00	01655414:90	4	1	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:05:41	1	0	RCT
E2NNRCTMIN01	R	JG	01655415:00	01655415:90	4	4	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:06:42	1	0	RCT
E2NNRCTMIN01	S	JG	01655416:00	01655417:00	4	2	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:07:43	1	0	RCT
E2NNRCTMIN01	T	JG	01655417:00	01655421:00	4	2	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:08:48	1	0	DARK
E2HNMIRCAL01	A	LU	01655424:00	01655430:90	4	2	2	4	1	0	0	0	1	24	1	0	0	0	1	24	0	0	1992-346T18:15:56	1	0	SKY
E2HNMIRCAL01	B	LU	01655431:00	01655437:90	7	2	2	4	1	1	0	0	0	12	1	1	0	0	0	12	0	0	1992-346T18:22:53	1	0	SKY
E2HNMIRCAL01	C	LU	01655438:00	01655444:90	3	2	2	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-346T18:29:57	1	0	SKY
E2HNMIRCAL01	D	LU	01655445:00	01655452:00	3	2	1	4	1	1	0	0	1	24	1	1	0	0	1	24	0	0	1992-346T18:37:02	1	0	SKY