	Operations Notes	Topic:	**FOS Report for week 45**
		Date:	from the 04/11/13 to the 11/11/13
	FOS Team @ ESAC	Issue:	**1.0**

1   General Comments

The activities scheduled for this week are those planned for calendar week 45 of year 2013, from 04/11/2013 to 11/11/2013 (DOYs 308 to 315).

The following routine activities were planned during this week (see Gantt chart on next page):

- X-band passes over ESAC and Svalbard.
- One NIR calibration on 06/11/2013 at 16:14:00z (orbit 21088).
  Pointing selected for this calibration is as follows:

  RA= 131.884842
  DEC= 24.960232

  and the expected Brightness temperature and RMS are:

  BT= 3.725490
  RMS= 0.386513
- One PMS offset including three Short Calibrations on day 07/11/2013 (orbit 21103) at 16:42:00z, 16:42:34.800z and 16:43:09.600
- Local oscillator calibration every 10 minutes.

2   Mission Planning Deviation

No deviations from the nominal planning happened during this week.

Operations Notes

FOS Team @ ESAC

Topic:
Date:
Issue:

FOS Report for week 45
from the 04/11/13 to the 11/11/13

1.0

SMOS

Operations Notes

FOS Team @ ESAC

Topic:
Date:
Issue:

FOS Report for week 45
from the 04/11/13 to the 11/11/13

1.0

3 TC Failures

None.

4 Unforeseen Out Of Limits (OOLs)

The following unforeseen out of limits happened during this week:
- Due to the Mass memory latch up in partition P0 two different Out of Limits were received in the two following parameters on day 05/11/2013 (DOY 309) at 21:04:53z
  DMASME37 "SDD LU Detected"
  DMASME12 "LU Switch P0" Out of limits in parameter
- Due to the CMN Unlock on H3 unit the following two parameters went out of limits on day 08/11/2013 at 22:28:33.576.
  SPM13167 "H3 LO_Locking"
  SPM13162 "H3 LO_Out_Power"

5 On Board Anomalies

The two following minor onboard anomalies happened during this reporting week:
- A new Mass Memory latch-up on partition P0 happened on day 05/11/2013 (DOY 309) at 21:04:53z. At the time of the anomaly both pointers, Write and Read, were located in partition P6. The recovered of the Latch up took place on 06/11/2013 (DOY 310) at 15:00z. Since the partition affected by thsianaomlay was P0, it is unavoidable to lose some science data at the time of the recovery, in this case 8 minutes and 21 seconds got lost.
  The geolocation of this event was:
  LON= 308.65   LAT=-31.18

- A CMN unlock on unit H3 happened on day 08/11/2013 at 22:28:33z producing 10 minutes of degraded data around that time. The geolocation of this event was:
  LON=101.77   LAT=52.49.

6 Telemetry On Board Events in the period.

The following RAM single bit errors were detected during this period:

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	2013.308.23.27.41	201BE38

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Operations Notes	Date:	from the 04/11/13 to the 11/11/13
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7 FOS System Status

- On 11/11/2013 the SPGF database failed during the generation of schedule for week-47. The SPGF internal database reported an ORACLE shared Memory Error not being possible to connect to the database and to generate mission planning files. GMV team was contacted for this problem and the following procedure executed to recover from the failure:

  > *Stop Database*
  > *Add the following lines to configfp.ora file*
  > > *sg_max_size= 1G*
  > > *sga_target = 1G*
  > *Start Database*

  After the execution of this procedure the database was able to start and the mission planning activities again resumed. The problem seem realted with a known bug of ORACLE version 10.4.2. Nevertheless some problems after this fix has been observed in the way the SPGF application display some of activities in the log file, GMV has been again contacted in this new problem.

8 Data Reception from CNES

No problems.

9 X-Band Data Reception in PXMF

No events on board in the period were causing loss of sensed data.

10 Exceptional Activities

A special CRF number 384 was issue on the 06/11/2013 to recover the Mass Memory Latch up problem included in section five of this report. This CRF included an upload of recovery procedure PRO-CRP-800 at 12:04z on day 06/11/2013 over the Sband pass on KER-14 at 13:44 and with a time tagged execution on day 06/11/2013 at 15:00z just at the end of the SVALBARD X-band pass with AOS 14:51:03z.

11 AOB

None.

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APPENDIX A: OOL's

ERT	Severity	OBT	TM Param	Value	Type	Message
2013.310.00.23.45.649	ERROR	2013.309.21.04.53.768	DMASME37	FALSE	True STATUS	STATUS limit is out of nominal range
2013.310.00.23.45.680	ERROR	2013.309.21.04.53.768	DMASME12	OFF	ON STATUS	limit is out of nominal range
2013.313.00.01.37.097	ERROR	2013.312.22.28.28.776	SPM13162	NOT-OK	OK STATUS	STATUS limit is out of nominal range
2013.313.00.01.37.231	ERROR	2013.312.22.28.33.576	SPM13167	UNLOCK	UNLOCK STATUS	STATUS limit is out of nominal range