



## Operations Notes

FOS Team @ ESAC

Reported by: J. Fauste

Topic:

Date:

Issue:

**FOS Report for week 45**  
from the 03/11/14 to the 10/11/14

**1.0**

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### 1 General Comments

The activities scheduled for this week are those planned for calendar week 45 of year 2014, from 03/11/2014 to 10/11/2014 (DOYs 307 to 314).

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

- X-band passes over ESAC and Svalbard.
- One PMS offset including three Short Calibrations on day 06/11/2014 (orbit 26341) at 17:13:58.000z, 17:14:32.800 and 17:15:07.600.
- Local oscillator calibration every 10 minutes.

### 2 Mission Planning Deviation

No deviations from the nominal planning happened during this week.



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	NOV-2014						
	Mon, 03-NOV-2014	Tue, 04-NOV-2014	Wed, 05-NOV-2014	Thu, 06-NOV-2014	Fri, 07-NOV-2014	Sat, 08-NOV-2014	Sun, 09-NOV-2014
Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ	[Solid black bar]						
SBand_Visibility_SEQ	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]
XB_Cmd_Downlink_Svalb_SEQ	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]
Disable_Cyclic_Function_SEQ				[Diamond]			
PMS_Offset_Calibration_Full_SEQ				[Diamond]			
Enable_Cyclic_Function_SEQ				[Diamond]			



### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

The list of out limits received during this week can be seen in Appendix-A.

### 5 On Board Anomalies

- A new Mass Memory latch up happened on day 05/11/2014 at 07:51:19z for partition P0. The geolocation of the event was:

Longitude=89.741444

Latitude=-80.541326

The anomaly recovery took place on day 06/11/2014 at 19:59:20z via CRF-457. Since partition affected was this time P0, some data losses happened at the time of the latch up recovery. In particular data from 06/11/2014 at 19:54:52z to 19:59:31z got lost i.e. 4 minutes and 39 seconds.

- Another Mass Memory Latch up in partition P10 happened on day 09/11/2014 at 10:40:02z. The geolocation of the event was over South America with the following geographical coordinates:

Longitude= 291.033549

Latitude= -7.021689

The anomaly recovery took place on day 12/11/2014 at 18:00z via CRF-459.

### 6 Telemetry On Board Events in the period.

The following RAM single bit errors happened during this week:

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	2014.312.23.41.04.256	23E1AD4

### 7 FOS System Status

All FOS systems behaved nominal during this period.

### 8 Data Reception from CNES

All the SBand passes of the week have been successfully transferred from CNES and processed by FOS PLPC system.

### 9 X-Band Data Reception in PXMF

Not used during this week.



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### **10 Exceptional Activities**

None.

### **11 AOB**

None.



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### APPENDIX A: OOL's

The following list of Out of Limits were received during this reporting week all related with the two Mass Memory Latch ups happened on the 5<sup>th</sup> and 9<sup>th</sup> of November.

OBT	Severity	TM Parameter	Alarm Value	Check Value	TM Description
2014.309.07.51.19.766	Hard-High	DMASME37	False	True	SDD LU Detected
2014.309.07.51.19.766	Hard-High	DMASME12	OFF	ON	LU Switch P10
2014.313.10.40.02.948	Hard-High	DMASME37	False	True	SDD LU Detected
2014.313.10.40.02.948	Hard-High	DMASME02	OFF	ON	LU Switch P10