



## 1 General Comments

The activities scheduled for this week are those planned for calendar week 32 of year 2014, from 04/08/2014 to 11/08/2014 (DOYs 216 to 223).

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

- X-band passes over ESAC and Svalbard.
- One NIR External Calibration on 06/08/2014 with ETO at 17:12:40z with the following calibration values.  
Brightness Temperature= 3.686519  
RMS= 0.062425  
Sun Elevation above MIRAS= -4.948933 degrees  
RA= 49.304295 degrees  
DEC= -26.792852 degrees
- One PMS offset including three Short Calibrations on day 07/08/2014 (orbit 25032) at 17:54:00.000z, 17:54:34.800 and 17:55:09.600.
- 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 32**  
from the 04/08/14 to the 11/08/14  
**1.0**

	AUG-2014						
	Mon, 04-AUG-2014	Tue, 05-AUG-2014	Wed, 06-AUG-2014	Thu, 07-AUG-2014	Fri, 08-AUG-2014	Sat, 09-AUG-2014	Sun, 10-AUG-2014
Int_LO_Phase_Cal_NoNoise_FULL_NotEXT_SEQ	[Solid black bar]						
XB_Cmd_Downlink_Svalb_SEQ	[Vertical tick marks]						
SBand_Visibility_SEQ	[Vertical tick marks]						
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical tick marks]						
Proteus_Manoeuvre_SEQ	[Vertical bar on Tue]						
Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ	[Green diamond on Wed]						
External_Calibration_NIR_Full_OBOP_SEQ	[Blue bar on Wed]						
Int_LO_Phase_Cal_NoNoise_FULL_EXT_SEQ	[Vertical bars on Wed]						
Disable_Cyclic_Function_SEQ	[Green diamonds on Wed and Thu]						
Enable_Cyclic_Function_SEQ	[Green diamonds on Wed and Thu]						
Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ	[Green diamond on Wed]						
PMS_Offset_Calibration_Full_SEQ	[Vertical bar on Thu]						



### 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 CMN unlock for H3 receiver took place on day 08/08/2014 at 15:06:47.476z. The geolocation of the event anomaly took place in the Arabian peninsula with the following geographical coordinates:  
Longitude=19.615865  
Latitude=46.322868

### 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	216.10.28.55.798	22A3548

### 7 FOS System Status

All FOS systems behave nominal during this period with the following exceptions.

On 05/08/2014 plpcdis hang due to a faulty power supply. The server was replaced by pxmfdi acting now as console server of plpcprm.

### 8 Data Reception from CNES

On 05/08/2014 the system detected a gap in the TM received from KRU 4 pass @09:33:07z. The onboard time ranges from 04:46:43z to 08:18:12.901z. CNES informed that the antenna did not move at the beginning of the pass due to a problem with the ephemeris file of the tracking system.

### 9 X-Band Data Reception in PXMF

05/08/2014 Data gap from 04:46:43z to 08:18:12.901z, it has been filled using the Xband Telemetry.

### 10 Exceptional Activities

Replacement of plpcdis server using pxmfdi as new console server.



## **11 AOB**

On 04/08/14 CNES planned a SMOS Orbit Correction Manoeuvre at 23:06z. The affected period for the manoeuvre go from 22:48:57z to 23:26:14z and the data for this period was flagged as an External APID.



**APPENDIX A: OOL's**

The list of Out of limits here below reported are linked with the CMN unlock described in section 5 of this report as the OCM reported on section 11 of this report .

OBT	Severity	TM Parameter	Alarm Value	Check Value	Message
2014.216.22.55.10.103	STATUS OOL	NTLH K022	Disable State	Enable	Status Limit is Out of nominal Range
2014.221.15.06.47.476	STATUS OOL	SPM1 3162	UNL OCK	LOC K	SPM13162 Status Hard Limits check
2014.221.15.06.52.276	STATUS OOL	SPM1 3167	NOT-OK	O.K	SPM13167 Status Hard Limits check