



## 1 General Comments

The activities scheduled for this week are those planned for calendar week 50 of year 2014, from 08/12/2014 to 15/10/2014 (DOYs 342 to 349).

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 10/12/2014 with ETO at 15:31:01 with the following calibration values.
  - Brightness Temperature=3.805768
  - RMS= 0.256147
  - Sun Elevation above MIRAS=9.76
  - RA=171.483047
  - DEC=15.556131
- 2 LONG Calibrations on 11/12/2014. Start time at 17:51:35 and 19:31:39
- 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

Reported by: J. Fauste

Topic:

Date:

Issue:

**FOS Report for week 50**  
from the 08/12/14 to the 15/12/14

**1.0**

	DEC-2014						
	Mon, 08-DEC-2014	Tue, 09-DEC-2014	Wed, 10-DEC-2014	Thu, 11-DEC-2014	Fri, 12-DEC-2014	Sat, 13-DEC-2014	Sun, 14-DEC-2014
Int_LO_Phase_Cal_NoNoise_FULL_NotEXT_SEQ	[Solid black bars]						
XB_Cmd_Downlink_Svalb_SEQ	[Vertical tick marks]						
SBand_Visibility_SEQ	[Vertical tick marks]						
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical tick marks]						
External_Calibration_NIR_Full_OBOP_SEQ			[Vertical bar]				
Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ			[Green diamond]				
Int_LO_Phase_Cal_NoNoise_FULL_EXT_SEQ			[Vertical bar]				
Disable_Cyclic_Function_SEQ			[Green diamond]		[Green diamonds]		
Enable_Cyclic_Function_SEQ			[Green diamond]		[Green diamonds]		
Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ			[Green diamond]				
Long_Calibration_Full_OBOP_SEQ					[Vertical bars]		



### 3 TC Failures

- On 11/12/2014 the upload of the payload commanding sequence for week 51 partially failed due to a TC uplink problem during KER 19 pass at 12:33z. During next GS pass, KER-20 at 14:14z, the MIRAS MTL was cleaned by CNES using the deletion TC group of week 51 and the plan of that week successfully uploaded again during the same pass.

### 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

The following payload anomalies happened during this reporting period:

- A new Mass Memory Latch up in partition P11 on day 11/12/2014 at 19:17:02z. The geolocation of the event was over South America with the following geographical coordinates:

Longitude= 333.947652

Latitude= -38.310191

The anomaly recovery took place on day 12/12/2014 at 16:00z via CRF-465.

### 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	2014.348.21.06.03.227	2253B84

### 7 FOS System Status

- On 11/12/2014 around 12:15z an alarm in physical disk number 4 of *plpcprm* array disk system was detected. Physical disk (number 4) was re-plugged in order to reconstruct its data and fix the problem. The whole reconstruction of the RAID 5 system took approximately 12 hours, after that reconstruction the array disk is working nominal and no more failures have been detected.

### 8 Data Reception from CNES

- On day 11/12/2014 at 06:42z SBand Ground Station pass, Aussaguel-13 failed and as consequence of that MIRAS and



EHKTM telemetry not delivered to ESAC. CNES Confirmed that data for that pass was totally lost; FOS team recovered the MIRAS telemetry gaps using telemetry data from the XBand system and filling the telemetry gaps on the MUST SMTA system. Since no PROTEUS telemetry is received on the XBand system, an unrecoverable gap will exist for this type of telemetry on SMTA machine from 2014-12-11T01:52:16z to 2014-12-11T06:48:16z

### **9 X-Band Data Reception in PXMF**

- Since SBand acquisition of AUS 13 pass on day 11/12/2014 at 06:42:46z failed (see section 8), XBand data from ESAC pass at 06:43z was ingested on PXMF system and MIRAS TM gaps filled on SMTA from 2014-12-11T01:52:16z to 2014-12-11T06:48:16z

### **10 Exceptional Activities**

None

### **11 AOB**

None.



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### APPENDIX A: OOL's

The following Out of Limits related with the anomalies that took place during the present reporting week were received on PLPC system:

OBT	Severity	TM Parameter	Alarm Value	Check Value	TM Description
2014.345.19.17.25.394	Hard-High	DMASME37	False	True	SDD LU Detected
2014.345.19.17.25.394	Hard-High	DMASME01	OFF	ON	LU Switch P11