



## 1 General Comments

The activities scheduled for this week are those planned for calendar week 01 of year 2015, from 29/12/2014 to 05/01/2015 (DOYs 363/2014 to 005/2015).

Due to the Christmas holiday period, MIRAS commands for this week were generated and sent to the spacecraft at the same time that week 52 of year 2014.

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

- X-band passes over ESAC and Svalbard.
- Orbit Correction Manoeuvre scheduled on 29/12/2014. The affected time period for the manoeuvre will be from 23:26:45z to 00:04:14z, data for that period will be flagged as usual with an external APID.
- One NIR External Calibration on 31/12/2014 with ETO at 16:52:25z with the following calibration values.  
Brightness Temperature= 4.014800  
RMS= 0.384365  
Sun Elevation above MIRAS= 9.712842  
RA= 192.932968  
DEC= -19.863873
- 2 LONG Calibrations on 01/01/2015. Start time at 15:54:02z and 17:34:07z
- One FTTR External Calibration on 02/01/2015 with ETO at 17:28:19z with the following calibration values.  
Brightness Temperature= 3.506721  
RMS= 0.133934  
Sun Elevation above MIRAS= -15.533058  
RA= 187.159546  
DEC =28.928900
- 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 01**  
from the 29/12/14 to the 05/01/15

**1.0**

	DEC-2014			JAN-2015			
	Mon, 29-DEC-2014	Tue, 30-DEC-2014	Wed, 31-DEC-2014	Thu, 01-JAN-2015	Fri, 02-JAN-2015	Sat, 03-JAN-2015	Sun, 04-JAN-2015
Int_LO_Phase_Cal_NoUnoise_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]						
External_Calibration_NIR_Full_OBOP_SEQ			[Blue bar]				
Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ			[Green diamond]		[Green diamond]		
Int_LO_Phase_Cal_NoUnoise_FULL_EXT_SEQ			[Black bar]		[Black bar]		
Disable_Cyclic_Function_SEQ			[Green diamond]	[Green diamonds]	[Green diamond]		
Enable_Cyclic_Function_SEQ			[Green diamond]	[Green diamonds]	[Green diamond]		
Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ			[Green diamond]		[Green diamond]		
PMS_Offset_Calibration_Full_SEQ							
Proteus_Manoevvre_SEQ		[Vertical tick mark]					
Long_Calibration_Full_OBOP_SEQ				[Black bars]			
External_Calibration_Full_OBOP_SEQ					[Blue bar]		



### **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**

The following payload anomalies happened during this reporting period:

- A new Mass Memory Latch up in partition P2 on day 01/01/2015 at 22:17:00z. The email for the recovery CRF, 470, arrived late at CNES due to an ESA mail server problem on that day. As consequence of that, the first SBand morning pass included as reference for the uplink window on the CRF, was already passed. Also the second uplink window included in the CRF was outside working hours. After phone conversation with CNES, a new CRF-470\_bis was written and sent to CNES with the upload of the commands on 06/01/2015. The anomaly recovery was finally performed on day 07/01/2015 at 14:00z via the new CRF-470\_bis

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

No RAM single bit errors were received during this reporting week.

### **7 FOS System Status**

All FOS systems behaved nominal during this period.

### **8 Data Reception from CNES**

All SBand passes of the week were correctly received from CNES and successfully processed by the FOS PLPC system.

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

Not used during the present period.

### **10 Exceptional Activities**

The following exceptional event happened during this week:

### **11 AOB**

None.



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### APPENDIX A: OOL's

The list of Out of limits here below reported are linked with the OCM, section 1, and the MM Latchup described on section 5 of this report.

OBT	Severity	TM Parameter	Alarm Value	Check Value	TM Description
2015.001.22.17.00.844	Hard-High	DMASME37	False	True	SDD LU Detected
2015.001.22.17.00.844	Hard-High	DMASME10	OFF	ON	LU Switch P02
2014.364.00.03.10.353	Hard-High	NTLHK022	Disabled	Enabled	ITL Ena State