



1 General Comments

The activities scheduled for this week are those planned for calendar week 15 of year 2014, from 07/04/2014 to 14/04/2014 (DOYs 097 to 104).

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

- X-band passes over ESAC and Svalbard.
- NIR External calibration on 09/04/2014 (orbit 23307) with ETO at 19:34:36z with the following calibration values:
 - Brightness Temperature= 4.802956
 - RMS=1.886205
 - Sun Elevation above MIRAS -0.461555
 - RA= 286.686615
 - DEC= 7.415019
- One PMS offset including three Short Calibrations on day 10/04/2014 (orbit 23119) at 16:48:00.000z, 16:48:34.800z and 16:49:09.600z
- Local oscillator calibration every 10 minutes.

2 Mission Planning Deviation

Due to the onboard SW CCU reset that happened the Sunday before the start of week-15, 06/04/2014, the following Xband passes over Svalbard station on day 07/04/2014 at 01:07:35z, 02:46:39z, 04:25:52z, 07:48:59z, 09:31:28z, 11:13:33z, 12:54z were lost. Due to the same onboard SW problem, the whole planning was again uplinked to the spacecraft on day 07/04/2014 during SBand pass KER 15 at 11:48z and according to instructions of FOS CRF-413



Operations Notes

FOS Team @ ESAC

Topic:
Date:
Issue:

FOS Report for week 15
from the 07/04/14 to the 14/04/14
1.0

	APR-2014						
	Mon, 07-APR-2014	Tue, 08-APR-2014	Wed, 09-APR-2014	Thu, 10-APR-2014	Fri, 11-APR-2014	Sat, 12-APR-2014	Sun, 13-APR-2014
Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ	████████████████████			████████████████████			
XB_Cmd_Downlink_Svalb_SEQ							
SBand_Visibility_SEQ							
XB_Cmd_Downlink_Vilspa_SEQ							
Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ			◇				
External_Calibration_NIR_Full_OBOP_SEQ			█				
Int_LO_Phase_Cal_NoUnoise_FULL_EXT_SEQ			█				
Disable_Cyclic_Function_SEQ			◇	◇			
Enable_Cyclic_Function_SEQ			◇	◇			
Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ			◇				
PMS_Offset_Calibration_Full_SEQ							



3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

Mass Memory latch on partition P5 on day 11/04/2014 (see Appendix-A for further details)

5 On Board Anomalies

A new MM Latchup happened on Partition 5 at 11:01:09UTC, the write pointer was on P5 and the read was placed on P4, so it is expected loss of data.

The geolocation of the event was on South Atlantic Anomaly (Argentina).

long = 291.701 deg

lat = -39.476 deg

6 Telemetry On Board Events in the period.

The following RAM Single bit errors were detected during the present reporting period.

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	101.09.00.04.240	22370D4

7 FOS System Status

- All FOS systems behaved nominally with the exception of MUSTPC2 system since the data on the faulty disk is being reconstructed. The affected disk was replaced by a new spare disk and data backups recovered from the MUSTPC1 system instead of the external USB disk used as nominal backup system.

8 Data Reception from CNES

All SBand passes have been nominally acquired and processed by FOS with the exception of MUSTPC2 database.



9 X-Band Data Reception in PXMF

Not used during the present reporting period.

10 Exceptional Activities

- An exceptional CRF number 413, was issued by the FOS on day 07/04/2014 in order to recover the CCU reset anomaly happened on 06/04/2014.
- An exceptional CRF number 415, was issued by the FOS on day 10/04/2014 in order to recover the MM Latchup anomaly happened on 09/04/2014.

11 AOB

None.



APPENDIX A: OOL's

The following set of parameters went out of limits as consequence of the CCU reset recovery and the Mass Memory latch up error above reported.

OBT	Severity	TM parameter	Alarm value	Check value	Message
2014.097.11.50.13.881	ERROR	NTHLK022	Disabled	Enabled	STATUS limit is out of nominal range
2014.099.11.01.09.421	ERROR	DMASME37	False	True	STATUS limit is out of nominal range
2014.099.11.01.09.421	ERROR	DMASME07	OFF	ON	STATUS limit is out of nominal range