



1 General Comments

The activities scheduled for this week are those planned for calendar week 43 of year 2014, from 20/10/2014 to 27/10/2014 (DOYs 293 to 300).

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 23/10/2014 (orbit 26139) at 16:19:09.000z, 16:19:43.800 and 16:20:18.600.
- 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

Reported by: J. Fauste

Topic:

Date:

Issue:

FOS Report for week 43
from the 20/10/14 to the 27/10/14

1.0

	OCT-2014						
	Mon, 20-OCT-2014	Tue, 21-OCT-2014	Wed, 22-OCT-2014	Thu, 23-OCT-2014	Fri, 24-OCT-2014	Sat, 25-OCT-2014	Sun, 26-OCT-2014
Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ	[Solid black bar]						
XB_Cmd_Downlink_Svalb_SEQ	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]
SBand_Visibility_SEQ	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]	[Vertical bars]
Disable_Cyclic_Function_SEQ				[Vertical line with diamond]			
PMS_Offset_Calibration_Full_SEQ				[Vertical line with diamond]			
Enable_Cyclic_Function_SEQ				[Vertical line with 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

No payload anomalies happened during this reporting week.

The recovery of the Mass Memory latch up that took place on day 19/10/2014 at 09:15:51z, was performed on day 20/10/2014 at 16:00z (CRF-453)

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	2014.294.21.49.38	222C4C

7 FOS System Status

All FOS systems behaved nominal during this period.

8 Data Reception from CNES

During this reporting period the following problems have been detected:

- During KER-49 GS pass on day 23/10/2014 at 12:40z, the Sband telemetry files received at ESAC contained the following list of MIRAS OBT gaps (DOY 296):

OBT Telemetry gap from	OBT Telemetry gap to
2014-10-23T10:18:26z	2014-10-23T10:18:33z
2014-10-23T10:22:22z	2014-10-23T10:22:31z
2014-10-23T10:23:26z	2014-10-23T10:23:27z
2014-10-23T10:50:00z	2014-10-23T10:50:08z

The problem was due to a problem at CNES Ground Station level. The corresponding telemetry gaps on SMTA/MUST system were filled using the XBand TM files from DPGS.



- On 24/10/14 during GS pass AUS-25 at 06:09z the following list of MIRAS TM gaps was received at ESAC (DOY 297):

OBT Telemetry gap from	OBT Telemetry gap to
2014-10-24T00:39:10z	2014-10-24T00:39:23z
2014-10-24T00:42:40z	2014-10-24T00:42:57z
2014-10-24T00:49:05z	2014-10-24T00:50:25z
2014-10-24T00:45:01z	2014-10-24T00:53:40z
2014-10-24T01:07:33z	2014-10-24T03:35:03z
2014-10-24T05:44:57z	2014-10-24T05:45:15z
2014-10-24T05:46:39z	2014-10-24T05:50:55z
2014-10-24T05:52:01z	2014-10-24T05:52:25z
2014-10-24T06:05:53z	2014-10-24T06:05:54z
2014-10-24T06:05:57z	2014-10-24T06:06:05z
2014-10-24T06:05:33z	2014-10-24T06:05:35z
2014-10-24T06:05:47z	2014-10-24T06:06:03z
2014-10-24T06:06:15z	2014-10-24T06:07:01z

The problem was due to a failure on the station earth Terminal at Aussaguel station. The problem produced multiple telemetry gaps at SMTA/MUST system level that were filled using the XBand telemetry files from DPGS.

- Telemetry data for ground station pass KRU-23 on day 25/10/204 at 21:08z, was not received at ESAC due to a failure on the antenna Kourou *earth* terminal. The whole data for that pass was lost producing a big telemetry gap at PLPC and SMTA/MUST level and from 2014-10-25T13:05:00z to 2014-10-25T21:10:44z. At SMTA level this gap has been filled using the DPGS XBand telemetry files. An email from CNES oncall team was received on day 26/10/2014 at 12:11 (CET)

9 X-Band Data Reception in PXMF

Due to the three anomalies on the SBand Ground Station passes above reported, the PXMF system was used to fill the following telemetry gaps on SMTA/MUST machine:

SMAS/MUST Gap from	SMAS/MUST Gap to
2014-10-24T01:00:45z	2014-10-24T03:35:03z
2014-10-25T13:05:00z	2014-10-25T21:10:44z

It is important to bear in mind that EHKTM telemetry data is anyway lost since it is not coming as part of the XBand telemetry side therefore, gaps on this type of parameters will remain at SMTA/MUST server.



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10 Exceptional Activities

None.

11 AOB

None.

APPENDIX A: OOL's

No relevant Out of Limits has been received during this week.