



Operations Notes

FOS Team @ ESAC

Reported by: J.Fauste

Topic:

Date:

Issue:

FOS Report for week 24
from the 08/06/15 to the 15/06/15

1.0

1 General Comments

The activities scheduled for this week are those planned for calendar week 24 of year 2015, from 08/06/2015 to 15/06/2015 (DOYs 159 to 166.)

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 11/06/2015 at 18:07:10z, 18:07:44.8z and 18:08:19.6 (orbit number 29464)
- Local oscillator calibration every 10 minutes.

2 Mission Planning Deviation

No deviations from the nominal planning happened during this week.



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	JUN-2015						
	Mon, 08-JUN-2015	Tue, 09-JUN-2015	Wed, 10-JUN-2015	Thu, 11-JUN-2015	Fri, 12-JUN-2015	Sat, 13-JUN-2015	Sun, 14-JUN-2015
Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ	[Redacted]						
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				◆			
PMS_Offset_Calibration_Full_SEQ				◆			
Enable_Cyclic_Function_SEQ				◆			



3 TC Failures

None.

4 Unforeseen Out Of Limits (OOLs)

No relevant Out of Limits happened during this week.

5 On Board Anomalies

No payload anomalies happened during this reporting period

6 Telemetry On Board Events in the period.

The following RAM Single bit errors were received during this week:

Event Description	Severity	Event Time	Parameters
RAM single Bit Error	WARN	2015.161.06.28.55.614	228B15C

7 FOS System Status

All FOS systems behaved nominal during this reporting period with the following exception:

- It was discovered that the E_HKTM data was missing in MUST since the morning of DoY 157 2015-06-06. Because of a network outage at ESAC that morning, data transmission fell back to the backup ISDN line. Several attempts had to be made from CNES to transmit and some files got duplicated at PLPC level. The SMTA-PLPC communication *cron* had not been engineered to account for duplicated files, so it stopped functioning. As of DoY 163 the missing E_HKTM data had been added to MUST and GMV had patched the *cron* to be more robust.

8 Data Reception from CNES

All S-Band passes for week 24 were correctly received from CNES and successfully processed by the FOS PLPC system with the following exceptions:

- On DoY 160 2015-06-09T04:55:19 telemetry data for ground station pass AUS-9 was not acquired at station level because of a failure on the motor that controls the antenna elevation. However that same SMOS telemetry data was received in parallel in a new station located in Aussaguel (the new STC station, already in use at other missions but not yet fully validated for SMOS). As the “lost” telemetry data was available at the Aussaguel STC station, the CNES Team retrieved PLTM and HKTMR and provide them as per the normal procedures. These telemetry files were successfully delivered and processed



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before the arrival of the following pass, KER-18 (DoY 160 2015-06-09T12:26:57).

- Due to an electrical outage after a storm in Toulouse on the 2015-06-14, telemetry delivery was delayed for the following SBand Ground Station passes: KRU-10 at 09:45z and KER-28 at 12:47z. TM files were finally delivered to ESAC around 2015-06-14T14:34z

9 X-Band Data Reception in PXMF

Not used during the present reporting period.

10 Exceptional Activities

None.

11 AOB

None.



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APPENDIX A: OOL's

No relevant Out of limits were received during this week.