



1 General Comments

The activities scheduled for this week are those planned for calendar week 29 of year 2015, from 2015-07-13 to 2015-07-20 (DOYs 194 to 201).

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

- One PMS offset including three Short Calibrations on day 2015-07-16 (DOY 197; orbit 29966) at 15:23:00z, 15:23:34.8z, and 15:24:09.6z.
- Local oscillator calibration every 10 minutes.
- X-band passes over ESAC and Svalbard.

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 29
from the 13/07/15 to the 20/07/15

1.0

	JUL-2015						
	Mon, 13-JUL-2015	Tue, 14-JUL-2015	Wed, 15-JUL-2015	Thu, 16-JUL-2015	Fri, 17-JUL-2015	Sat, 18-JUL-2015	Sun, 19-JUL-2015
Int_LO_Phase_Cal_NoNoise_FULL_NoEXT_SEQ	[Solid black bar]						
XB_Cmd_Downlink_Svalb_SEQ	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]
SBand_Visibility_SEQ	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]	[Vertical lines]
Disable_Cyclic_Function_SEQ				[Blue diamond]			
PMS_Offset_Calibration_Full_SEQ				[Vertical line]			
Enable_Cyclic_Function_SEQ				[Blue diamond]			



3 TC Failures

None.

4 Unforeseen Out Of Limits (OOLs)

Only two OOLs were received this week at the time of the CMN Unlock on day 2015-07-16 (See Appendix-A for further details)

5 On Board Anomalies

The following payload anomalies occurred during this reporting period:

- A new CMN unlock happened on day 2015-07-16T10:37:50z on the CMN B2 unit. Both parameters, lock status (SPM18167 – LO_Locking) and output power (SPM18162 – LO_Out_Power), triggered an Out of Limits alarm on the PLPC system. The geolocation of the event was over South America, nearing the South Atlantic Anomaly, with the following geographical coordinates:

Longitude = 297,968308

Latitude = -41,18379

The instrument recovered itself from the anomaly in 10 epochs.

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	2015.200.09.31.44.814	22C401C
RAM single Bit Error	WARN	2015.199.10.40.33.216	21D75A4

7 FOS System Status

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

- Two short telemetry data gaps were detected for GS pass KER-30 (start time of the pass 13:43:35z). Gap 1 = 2015.07-13T12:48:10.625z to 2015.07-13T12:48:20.225z. Gap 2 = 2015.07-13T12:49:15.426z to 2015.07-13T12:49:22.626z. As a consequence 15 telemetry packets were lost for gap 1 and 12 telemetry packets were lost for gap 2.



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9 X-Band Data Reception in PXMF

Not used during this week since all SBand passes were successfully processed by FOS PLPC system.

10 Exceptional Activities

None.

11 AOB

None.



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APPENDIX A: OOL's

The following Out of Limits were received at the time of the CMN Unlock on 2015-07-16.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION
2015.197.14.05.36.584	2015.197.10.37.50.237	SPM18162	B2 LO_Out_Power
2015.197.14.05.36.582	2015.197.10.37.50.237	SPM18167	B2 LO_Locking