



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 22, year 2017

from 29 MAY 2017 to 05 JUN 2017

1.0

1 General Comments

Activities scheduled for this week are those planned for the 22nd calendar week of 2017:

29 MAY 2017 to 05 JUN 2017 (DOYs 149 to 156).

The following routine activities were planned this week (see Gantt chart on next page and CRF 661):

- One PMS Offset on 01 JUN 2017 (DOY 152), including three Short Calibrations at 08:40:00.0z, 08:40:34.8z, and 08:41:09.6z (orbit 39833).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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Schedule Name: 2017_w22_cr ### Display start: 29-05-2017 00:00:00.000 ### Display end: 05-06-2017 00:00:00.000

Date	29/5/2017	30/5/2017	31/5/2017	1/6/2017	2/6/2017	3/6/2017	4/6/2017
SMOS Sequences							
Disable_Cyclic_Function_SEQ				◆			
Enable_Cyclic_Function_SEQ				◆			
Int_LO_Phase_Cal_Noise_FULL_NotEXT_Q							
PMS_Offset_Calibration_Full_SEQ							
SBand_Visibility_SEQ	[Timeline visualization]						
XB_Cmd_Downlink_Sb_SEQ	[Timeline visualization]						
XB_Cmd_Downlink_Vpa_SEQ	[Timeline visualization]						



3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

The only relevant out of limits for this week are the ones related with the B2 CMN unlock that took place on the 3rd of June 2017. Further details on this anomaly and its OOLs are included in sections 5 and Appendix-A of this report.

5 On Board Anomalies

- The Mass Memory Latch-up of partition P5 that took place on the 27th of May, was recovered the Monday of this week, 29th of May at 17:00:00z.
- The MIRAS instrument CMN, unit B2, unlocked on 2017-06-03T09:26:03.404z (DOY 154). The anomaly was geolocated over central Brazil:

$$\begin{aligned} \text{Latitude} &= -10.62^\circ \\ \text{Longitude} &= 310.30^\circ \end{aligned}$$

Both parameters, locking status parameter, SPM18167, and output power SPM18162, went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

6 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Packet ID	Severity	Event Time	Parameters
RAM single Bit Error	730	WARN	2017-06-01T21:12:23	215EF8C
RAM single Bit Error	730	WARN	2017-06-03T23:09:34	215EF8C
RAM single Bit Error	730	WARN	2017-06-04T22:11:37	215EF8C

7 FOS Systems Status

All FOS systems nominal.

- New SPGFDIS workstation was operationally deployed on the 30th of May. It runs SLES 11 SP4, and drives one monitor being its main purpose to be used as a display to access the various SPGF systems available for Mission Planning.

8 Data Reception from CNES

All S band passes were correctly received from CNES and successfully processed by the FOS PLPC system.



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9 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.

10 Exceptional Activities

None.

11 AOB

None.



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APPENDIX A: OOLs

The following OOLs reflected the Mass Memory Latch-up that happened on the 27th of May and it was fixed on the 29th of May.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017-05-29T15:38:49	2017-05-29T14:52:40	DMASME07	LU Switch P5	OFF	ON

The CMN Unlock that took place on the 3rd of June generated the following two Out of Limits here below.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017-06-03T15:17:43	2017-06-03T09:26:03	SPM18162	B2 LO_Out_Power	NOT-OK	OK
2017-06-03T15:17:43	2017-06-03T09:26:10	SPM18167	B2 LO_Locking	UNLOCK	LOCK