



Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón
C. Mosquera*

Topic:

Date:

Issue:

FOS Report for week 12, year 2017

from 20 MAR 2017 to 27 MAR 2017

1.0

1 General Comments

Activities scheduled for this week are those planned for the 12th calendar week of 2017:

20 MAR 2017 to 27 MAR 2017 (DOYs 079 to 086).

The following routine activities were planned this week (see Gantt chart on next page and CRF 648):

- One PMS Offset on 23 MAR 2017 (DOY 082), including three Short Calibrations at 07:23:30.0z, 07:24:04.8z, and 07:24:39.6z (orbit 38825).
- 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_w12_cr ### Display start: 20-03-2017 00:00:00.000 ### Display end: 27-03-2017 00:00:00.000

Date	20/3/2017	21/3/2017	22/3/2017	23/3/2017	24/3/2017	25/3/2017	26/3/2017
SMOS Sequences							
Disable_Cyclic_Funct ion_SEQ				◆			
Enable_Cyclic_Funct on_SEQ				◆			
Int_LO_Phase_Cal_Ni noise_FULL_NotEXT_ Q							
PMS_Offset_Calibrat ion_Full_SEQ							
SBand_Visibility_SEQ							
XB_Cmd_Downlink_S b_SEQ							
XB_Cmd_Downlink_V pa_SEQ							



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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

Two different sets of unexpected Out of Limits were issued by the PLPC system at the time of the two different CMN Unlocks happening on the 24th and 21st of March (see section 5 and Appendix-A of this document for further details)

5 On Board Anomalies

- The MIRAS instrument CMN, unit C3, unlocked on 2017-03-24T04:14:44.684z (DOY 083). The anomaly was geolocated over the Northeast coast of Greenland at the following geographical coordinates:

Latitude = 79.263°

Longitude = 335.163°

Only Locking status parameter, SPM22167, went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

- The MIRAS instrument CMN, unit H1, unlocked on 2017-03-21T07:31:43.417z (DOY 080). The anomaly was geolocated over the Mid-Atlantic, due south of Cabo Verde:

Latitude = 11.273°

Longitude = 335.385°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 2 epochs.

6 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	2017-03-22T11:04:55	20B72FC
RAM Single Bit Error	WARN	2017-03-20T20:37:48	2181ECC

7 FOS Systems Status

All FOS systems nominal.



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8 Data Reception from CNES

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

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

At the time of the C3 CMN Unlock anomaly on the 24th of March, the following OOL was issued by the FOS PLPC system.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017-03-24T06:12:57	2017-03-24T04:14:44	SPM22167	C3 LO_Locking	UNLOCK	LOCK

On the 21st of March at the time of the H1 CMN Unlock, the following two OOL were issued by the FOS PLPC system.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017-03-21T09:42:09	2017-03-21T07:31:43	SPM11167	H1 LO_Locking	UNLOCK	LOCK
2017-03-21T09:42:09	2017-03-21T07:31:43	SPM11162	H1 LO_Out_Power	NOT-OK	OK