



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 08, year 2018**

from 19 FEB 2018 to 26 FEB 2018

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 8<sup>th</sup> calendar week of 2018:

19 FEB 2018 to 26 FEB 2018 (DOYs 050 to 057).

The following routine activities were planned this week (see Gantt chart on next page and CRF 719).

- One Warm NIR Calibration on 21 FEB 2018 (DOY 052) with ETO 04:47:37z (orbit 43644; DESCENDING : thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.72°
R.M.S.	=	0.12
Sun elevation	=	9.99°
Moon elevation	=	51.33°
R.A.	=	57.67°
DEC.	=	-22.09°
- One PMS Offset on 22 FEB 2018 (DOY 053), including three Short Calibrations at 07:45:30.0z, 07:46:04.8z, and 07:46:39.6z (orbit 43660).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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Schedule Name: 2018\_w08\_cr ### Display start: 19-02-2018 00:00:00.000 ### Display end: 26-02-2018 00:00:00.000

Date	19/2/2018	20/2/2018	21/2/2018	22/2/2018	23/2/2018	24/2/2018	25/2/2018
<b>SMOS Sequences</b>							
Disable_Cyclic_Function_SEQ			◆	◆			
Enable_Cyclic_Function_SEQ			◆	◆			
External_Calibration_NIR_Full_OBOP_SEQ			█				
Int_LO_Phase_Cal_Noise_Full_EXT_SEQ			█				
Int_LO_Phase_Cal_Noise_Full_NotEXT_Q							
PMS_Offset_Calibration_Full_SEQ							
SBand_Visibility_SEQ							
Update_Cyclic_LO_Pt_Cal_NoU_Full_EXT_S			◆				
Update_Cyclic_LO_Pt_Cal_NoU_Full_NotEX_SEQ			◆				
XB_Cmd_Downlink_Sb_SEQ							
XB_Cmd_Downlink_Vpa_SEQ							



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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit H3, unlocked on 2018-02-23T20:38:35.989z (DOY 054). This anomaly was geolocated off the coast of Antarctica, due south of Australia:

*Latitude* = -55.80°

*Longitude* = 153.19°

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

- The MIRAS instrument MM, partition P4, latched up on 2018-02-19T23:18:45.677z (DOY 050).

The following parameters went out of limits in the PLPC system:

*2018.050.23.18.45.677z DMASME08 LU Switch P4*

*2018.050.23.18.45.677z DMASME37 SDD LU Detected*

This anomaly was geolocated over south east of Indian Ocean:

*Latitude* = 107.88°

*Longitude* = -40.65°

There were no science data losses associated with this anomaly because it affected partition P4, while the Read and Write pointers were in partitions P7 and P8 respectively. Recovery was planned to take place on 21 FEB 2018, at 08:00:00z (CRF No. 720).

At the time of the anomaly the position of the MM pointers were as follows:

*READ* = 3481312 (*partition P7*)

*WRITE* = 3653074 (*partition P8*)

### 5 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	2018-02-21T15:51:33	217444C

### 6 FOS Systems Status

All FOS systems nominal.



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### **7 Data Reception from CNES**

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

### **8 X Band Data Reception in PXMF**

None, all S band passes successfully received and processed.

### **9 Exceptional Activities**

None.

### **10 AOB**

None.



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### APPENDIX A: OOLs

The CMN Unlock on H3 unit on the 24<sup>th</sup> of February, generated the following Out of Limits on the PLPC system:

GS_TIME	OBT_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-02-24T01:10:23	2018-02-23T20:38:35	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2018-02-24T01:10:23	2018-02-23T20:38:40	SPM13167	H3 LO_Locking	UNLOCK	LOCK

The Mass Memory Latch up of partition P4 on the 20<sup>th</sup> of February generated the following Out of Limits on the PLPC system:

GS_TIME	OBT_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-02-20T05:01:09	2018-02-19T23:18:45	DMASME37	SDD LU Detected	FALSE	TRUE
2018-02-20T05:01:09	2018-02-19T23:18:45	DMASME08	LU Switch P4	OFF	ON