



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 12, year 2018**

from 19 MAR 2018 to 26 MAR 2018

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 12<sup>th</sup> calendar week of 2018:

19 MAR 2018 to 26 MAR 2018 (DoYs 078 to 085).

The following routine activities were planned this week (see Gantt chart on next page and CRF 727).

- One Warm NIR Calibration on 21 MAR 2018 (DoY 080) with ETO 03:26:32z (orbit 44046; DESCENDING : thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.85°
R.M.S.	=	0.46
Sun elevation	=	7.61°
Moon elevation	=	18.18°
R.A.	=	77.10°
DEC.	=	-53.55°
- One PMS Offset on 22 MAR 2018 (DoY 081), including three Short Calibrations at 07:55:30.0z, 07:56:04.8z, and 07:56:39.6z (orbit 44063).
- 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\_w12\_cr ### Display start: 19-03-2018 00:00:00.000 ### Display end: 26-03-2018 00:00:00.000

Date	19/3/2018	20/3/2018	21/3/2018	22/3/2018	23/3/2018	24/3/2018	25/3/2018
<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_PtCal_NoU_Full_EXT_SEQ			◆				
Update_Cyclic_LO_PtCal_NoU_Full_NotEXT_SEQ			◆				
XB_Cmd_Downlink_Sb_SEQ							
XB_Cmd_Downlink_Vpa_SEQ							



### 3 TC Failures

None.

### 4 On Board Anomalies

None.

### 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	WARNING	2018.079.03.04.25,192	222A260
RAM Single Bit Error	730	WARNING	2018.084.11.20.03,468	225F0E8
RAM Single Bit Error	730	WARNING	2018.084.12.53.09,512	2191530

### 6 FOS Systems Status

All FOS systems nominal.

### 7 Data Reception from CNES

All S band passes were correctly received from CNES and successfully processed by the FOS PLPC system, with the following exceptions:

- Because of an Earth terminal anomaly at the receiving station, S band GS pass KUX-24 (AoS = 2018-03-22T08:19:25z; LoS = 2018-03-22T08:31:27z) could not be acquired. The PUS TM gap went:  
*from 2018-03-22T04:50:13,324z to 2018-03-22T08:21:24,302z.*  
To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 22 MAR 2018.

### 8 X Band Data Reception in PXMF

- The PXMF server was used to fill the following MIRAS PUS TM gap:  
*from 2018-03-22T04:50:13,324z to 2018-03-22T08:21:24,302z.*  
The corresponding E\_HKTM was lost:  
*from 2018-03-22T04:49:56z to 2018-03-22T08:21:40z.*

### 9 Exceptional Activities

None.

### 10 AOB

None.