



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 14, year 2018**

from 02 APR 2018 to 09 APR 2018

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 14<sup>th</sup> calendar week of 2018:

02 APR 2018 to 09 APR 2018 (DOYs 092 to 099).

The following routine activities were planned this week (see Gantt chart on next page and CRF 730).

- One Warm NIR Calibration on 04 APR 2018 (DOY 094) with ETO 04:20:31z (orbit 44248; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.91°
R.M.S.	=	0.64
Sun elevation	=	2.46°
Moon elevation	=	-19.20°
R.A.	=	92.51°
DEC.	=	-49.68°
- Two LONG Calibrations on 05 APR 2018 (DOY 095), which encompassed two ascending semi-orbital periods starting at 15:17:30z (orbit 44269) and 16:57:30z (orbit 44270).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.





### 3 TC Failures

None.

### 4 On Board Anomalies

- A Mass Memory Double Bit memory Error took place for partition P10 on 2018-04-07T17:52:33.592. No impact on science data since the affected partition was one of the spare ones

### 5 On Board Events Telemetry

No relevant on board events were received this week.

### 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 exception:

- For S band GS pass HBX-7 (AOS = 2018-04-07T04:25:11z; LOS = 2018-04-07T04:39:54z) the following PUS TM gap was detected in the PLPC system:

*from 2018-04-06T22:35:04.105z to 2018-04-06T22:36:13.696z; 116 packets lost.*

To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 09 APR 2018. The corresponding E\_HKTM was lost:

*from 2018-04-06T22:44:29z to 2018-04-06T22:47:05z.*

### 8 X Band Data Reception in PXMF

PUS Telemetry data lost on the event reported in previous section was retrieved from the PXMF system on the 9 of April 2018 and transferred to the SMTA machine.

### 9 Exceptional Activities

None.

### 10 AOB

None.



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### APPENDIX A: OOLs

The Mass Memory Double bit memory error on the 7<sup>th</sup> of April generated the following temporary out of limit on PLPC system:

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2018-04-07T21:04:26	2018-04-07T17:52:33	DMASME49	DB Err In P10	FALSE	TRUE