



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 27, year 2016**

from 04 JUL 2016 to 11 JUL 2016

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 27<sup>th</sup> calendar week of 2016:

4 JUL 2016 to 11 JUL 2016 (DoYs 186 to 193).

The following routine activities were planned this week (see Gantt chart on next page and CRF 585):

- One Flat Target Response Calibration on 04 JUL 2016 (DoY 186) with ETO 14:21:23z (orbit 35059) and with the following expected calibration values:

B.T.	= 3,6417°
R.M.S.	= 0.0537
Sun Elevation	= -8,0061°
Moon elevation	= -8,1023°
R.A.	= 17,56°
DEC.	= -29,26°
- One PMS Offset on 07 JUL 2016 (DoY 189), including three Short Calibrations at 07:05:00.0z, 07:05:34.8z, and 07:06:09.6z (orbit 35098).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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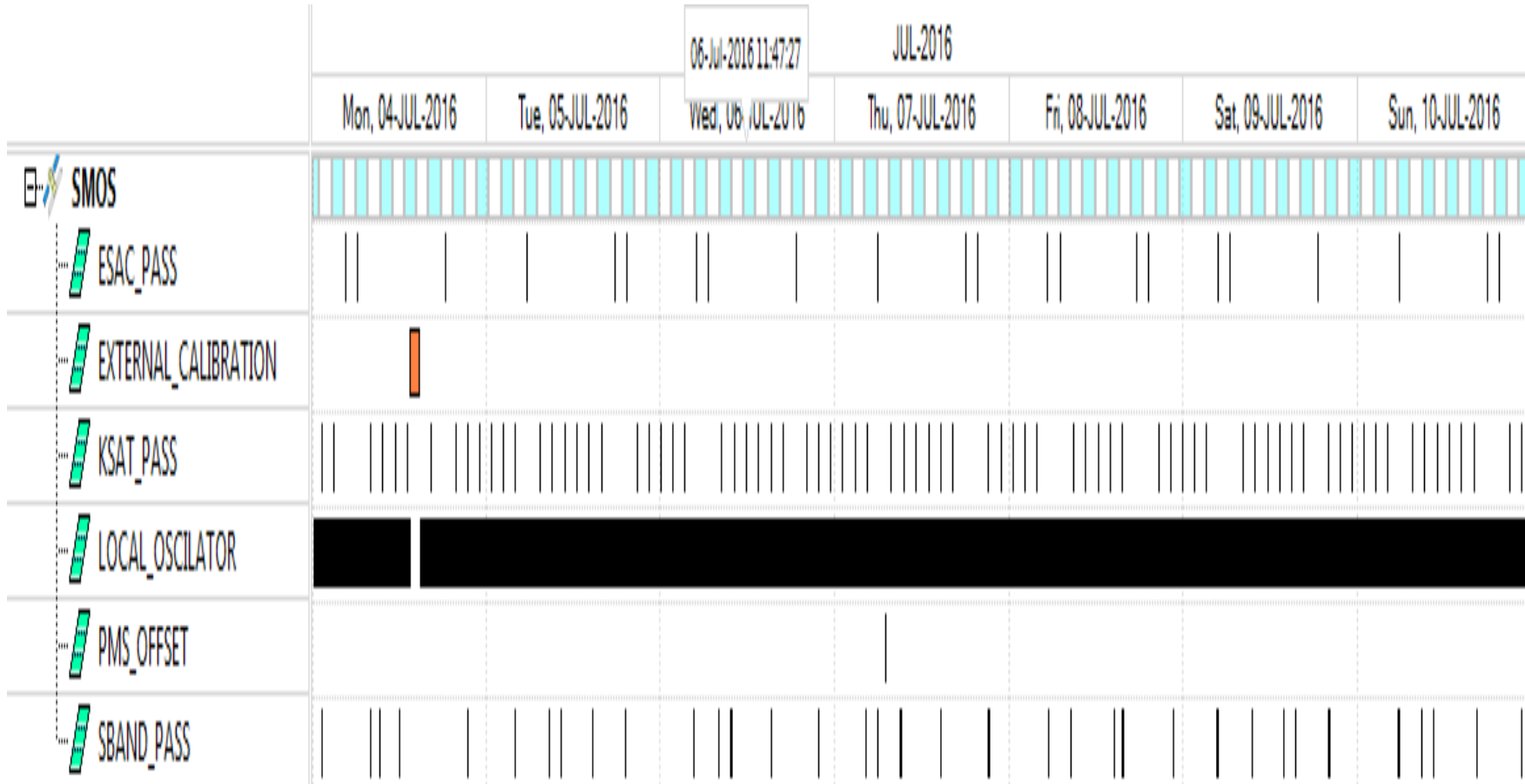
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### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

None.

### 5 On Board Anomalies

None.

### 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	2016.191.03.09.29.654	2003738

### 7 FOS Systems Status

All FOS systems behaved nominally with exception of:

- TCO\_FLAG parameter went out of limits on PLPC system at 2016-07-07T08:51:07z (ERT) due to a System Corba exception error at the same time. The OOL recovered itself and no packets were lost or archived under DS 4.
- On 2016-07-5 around 10:00z, PXMFDIS machine was reboot since Zabbix agent was issuing swap memory errors. After the reboot the system behaved nominally.
- A swap test of PLPCEXT machines from prime to backup and backup to prime was exercised on the 5<sup>th</sup> of July in order to test the correctness of procedure FCP-GRD-120. SBand GS pass KUX-7 (AOS=08:46) and KUX-8 (AOS=10:26) were taken with PLPCEXT-BKP machine and the following one HBX-1 (AOS=14:43) with PLPCEXT-PRM machine.

### 8 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:

- On the 8<sup>th</sup> of July, SBand ground station pass HBX-3 (AOS=14:28:09z, LOS=14:39:25z) was lost due to an Earth terminal anomaly on CNES side. MIRAS PUS Telemetry was recovered using PXMF and XBand system. E\_HKTM telemetry was lost.



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

PXMF system was used to fill the MIRAS PUS Telemetry gap from 2016-07-08T08:32:00z to 2016-07-08T14:31:00z generated by the SBand GS failure on the 8<sup>th</sup> of July (see section 8)

### **10 Exceptional Activities**

None.

### **11 AOB**

None.



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## APPENDIX A: OOLs

None.

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