



---

## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 35, year 2016**

from 29 AUG 2016 to 05 SEP 2016

**1.0**

---

### 1 General Comments

Activities scheduled for this week are those planned for the 35<sup>th</sup> calendar week of 2016:

29 AUG 2016 to 05 SEP 2016 (DoYs 242 to 249).

The following routine activities were planned this week (see Gantt chart on next page and CRF 598):

- One PMS Offset on 01 SEP 2016 (DoY 245), including three Short Calibrations at 05:46:00,0z, 05:46:34,8z, and 05:47:09,6z (orbit 35903).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



# Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

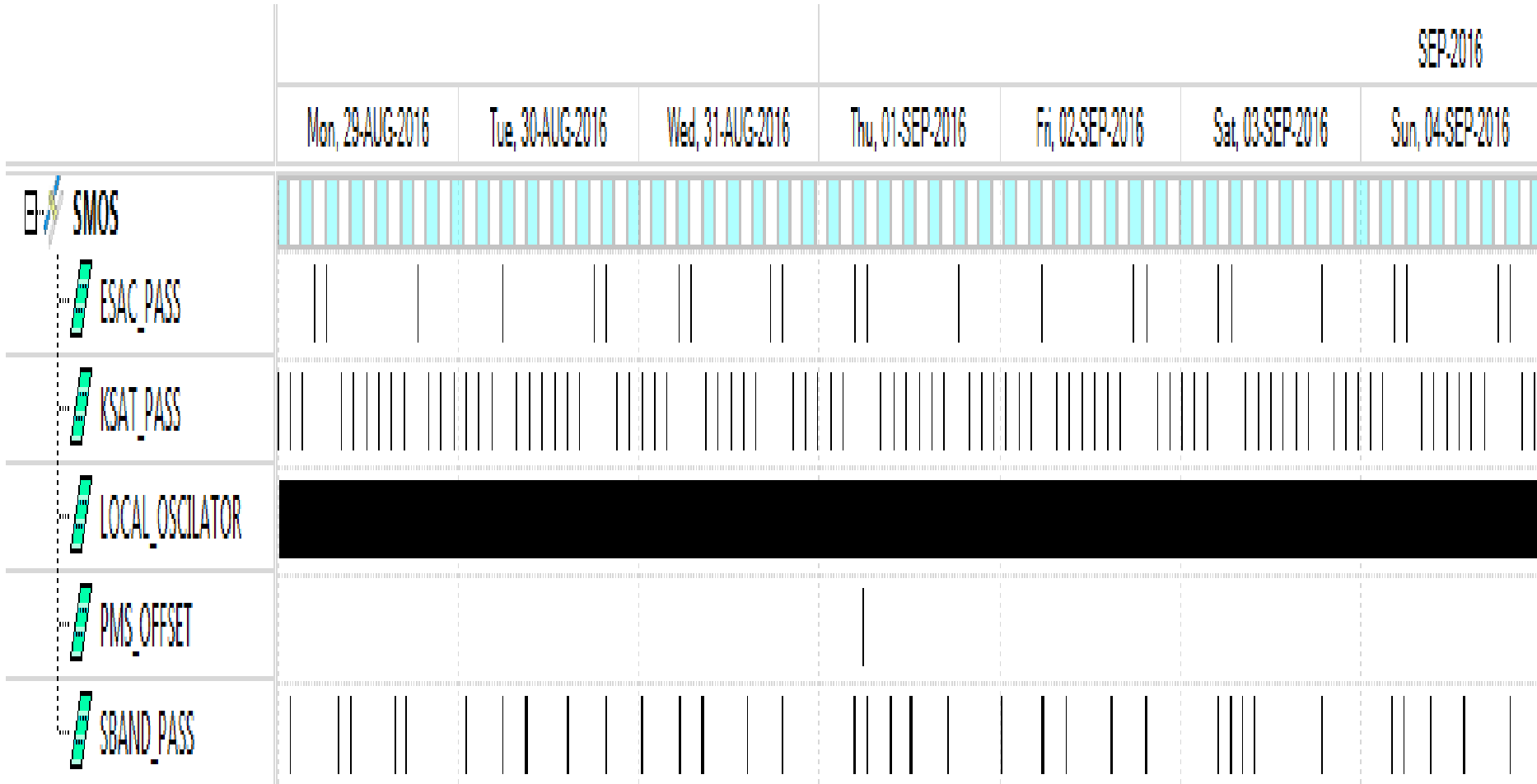
Date:

Issue:

**FOS Report for week 35, year 2016**

from 29 AUG 2016 to 05 SEP 2016

**1.0**





### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

Two parameters went OOL as MM partition P11 latched up on 01 SEP 2.016 (see Appendix A for further details).

### 5 On Board Anomalies

- MM partition P11 latched up on 2016-09-01T05:46:47,036z.

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

2016.245.05.46.47,036 DMASME01 LU Switch P11

2016.245.05.46.47,036 DMASME37 SDD LU Detected

This anomaly was geolocated over Antarctica:

LAT. = -81,080827°

LONG. = 113,083660°

There was no science data losses associated with this anomaly because it affected one of the spare partitions, while both the Read and the Write pointers were on P3 and P4 respectively. Recovery took place on 2016-09-01T12:30:00z via CRF No. 601.

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

READ = 1607763 (partition P3)

WRITE = 1766683 (partition P4)

### 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	2016.242.20.57.21,627	238BFEC
RAM Single Bit Error	WARN	2016.242.22.51.25,290	2376948
RAM Single Bit Error	WARN	2016.244.21.25.50,847	23669DC

### 7 FOS Systems Status

All FOS systems nominal, with the following exception:

- Some spurious data from DB version 504 were incorrectly added to version 620. In particular:

- Data for the two Long calibrations on 01 JAN 2015 and 26 FEB 2015, and for the following parameters: W112\*\*\*\*, W116\*\*\*\* and W117\*\*\*\*.
- NIR calibration data from 01 JAN 2015 to 01 MAY 2015, and for parameters W212\*\*\*\*.



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 35, year 2016**

from 29 AUG 2016 to 05 SEP 2016

**1.0**

These old data was manually removed by FOS and correct data reinserted, source files provided by the CEC Team.

### 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:

- Because an issue with the receiving station, S band GS pass STC-1 (AoS = 2016-09-03T06:41:43z; LoS = 2016-09-03T06:54:02z) contained a PUS TM gap. The gap went:

from 2016-09-03T05:15:49z to 2016-09-03T05:16:12z

### 9 X Band Data Reception in PXMF

- To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 05 SEP 2016. The corresponding E\_HKTM was lost:

from 2016-09-03T05:17:07z to 2016-09-03T05:18:11z

### 10 Exceptional Activities

None.

### 11 AOB

None.



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

**FOS Report for week 35, year 2016**

Date:

from 29 AUG 2016 to 05 SEP 2016

Issue:

**1.0**

## APPENDIX A: OOLs

The following OOLs befell at the time MM partition P11 latched up on 2016-09-01T05:46:47,036z:

<b>GS_TIME</b>	<b>OBTIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2016.245.06.51.56,394	2016.245.05.46.47,036	DMASME01	LU Switch P11	OFF	ON
2016.245.06.51.56,392	2016.245.05.46.47,036	DMASME37	SDD LU Detected	FALSE	TRUE