



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 06, year 2017**

from 06 FEB 2017 to 13 FEB 2017

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 06<sup>th</sup> calendar week of 2017:

06 FEB 2017 to 13 FEB 2017 (DOYs 037 to 044).

The following routine activities were planned this week (see Gantt chart on next page and CRF 639):

- One Cold NIR Calibration on 11 FEB 2017 (DOY 042) with ETO 12:06:57z (orbit 38252) [this special NIR was required to complete the *L* band sky map created by CESBIO; 1 of 2 – see FOS report of week 07]. The expected calibration values were:

B.T.	=	4.3628°
R.M.S.	=	0.5770
Sun Elevation	=	-2.0361°
Moon elevation	=	6.7133°
R.A.	=	231.99°
DEC.	=	-3.25°
- One PMS Offset on 09 FEB 2017 (DOY 040), including three Short Calibrations at 07:58:00.0z, 07:58:34.8z, and 07:59:09.6z (orbit 38221).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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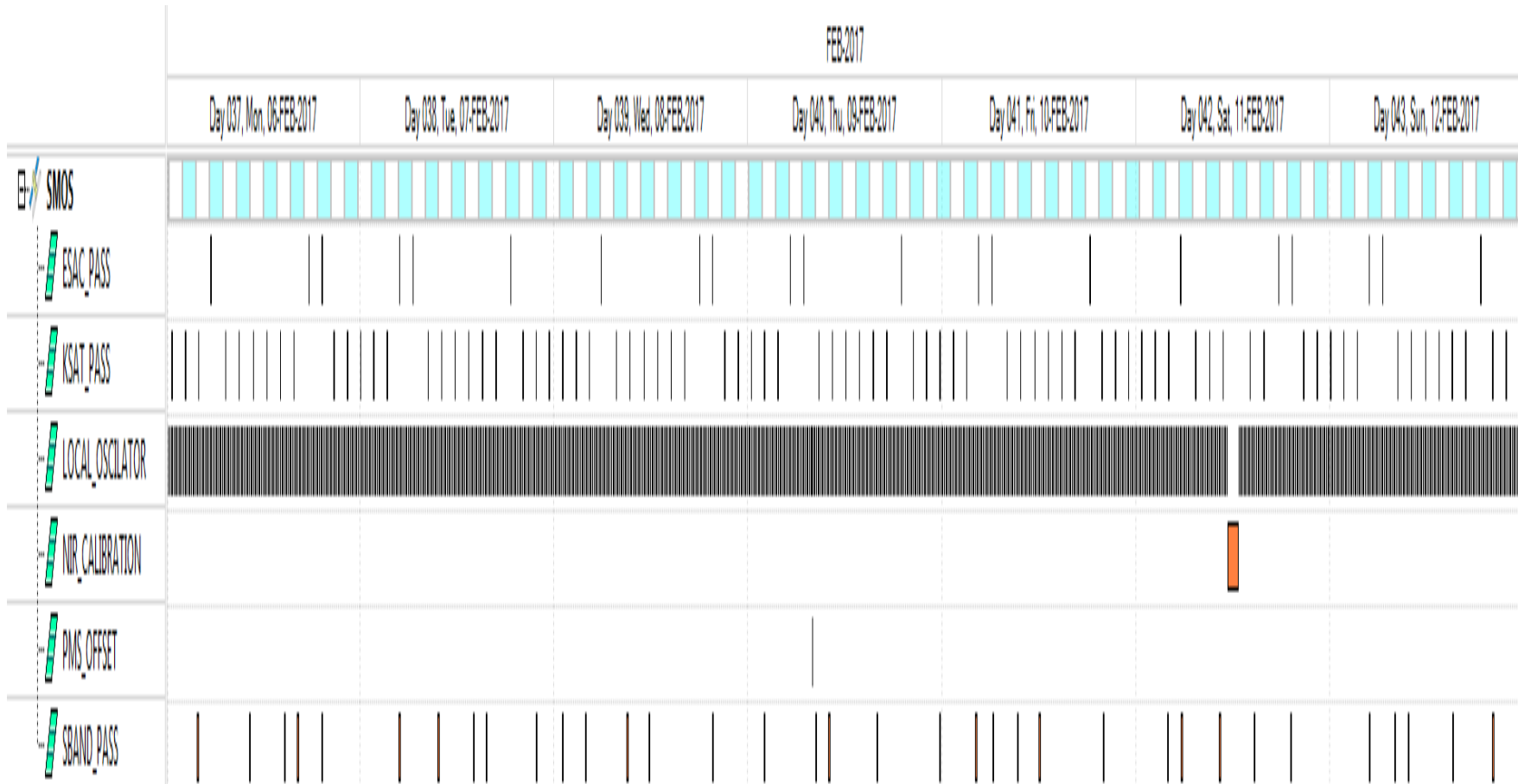
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### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

The only relevant Out of Limits issued by the FOS PLPC system were the ones related to the H1 CMN unlock on the 10<sup>th</sup> of February (see section 5 and Appendix-A for further details)

### 5 On Board Anomalies

- The MIRAS instrument CMN, unit H1, unlocked on 2017-02-10T15:30:03.300z (DOY 041). The anomaly was geolocated at the following coordinates over the south coast of South Africa:

Latitude = -46.52°

Longitude = 28.53°

H1 Locking status parameter SPM11167 went out of limits on FOS PLPC system. The anomaly recovered by itself in 10 Epochs.

### 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	2017.040.22.38.22.345	2190C78
RAM single Bit Error	WARN	2017.038.20.54.45.688	2321E98

### 7 FOS Systems Status

All FOS systems nominal.

### 8 Data Reception from CNES

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

### 9 X Band Data Reception in PXMf

None, all S band passes were successfully received and processed.

### 10 Exceptional Activities

None.



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### 11 AOB

None.



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### APPENDIX A: OOLs

The following parameters went Out of Hard Limits on PLPC system at the time of the H1 CMN Unlock on the 10<sup>th</sup> of February.

<b>GS_TIME</b>	<b>OBTIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2017.041.20.35.28.773	2017.041.15.30.03.300	SPM11167	H1 LO_Locking	UNLOCK	LOCK
2017.041.20.35.28.425	2017.041.15.29.56.100	SPM11162	H1 LO_Out_Power	NOT-OK	OK