



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 36, year 2016

from 05 SEP 2016 to 12 SEP 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 36th calendar week of 2016:

05 SEP 2016 to 12 SEP 2016 (DoYs 249 to 256).

The following routine activities were planned this week (see Gantt chart on next page and CRF 600):

- One Warm NIR Calibration on 07 SEP 2016 (DoY 251) with ETO 17:12:43z (orbit 35996) and with the following expected calibration values:

B.T.	= 3,8147°
R.M.S.	= 0,4290
Sun Elevation	= 01,6495°
Moon elevation	= -44,1913°
R.A.	= 80,83°
DEC.	= -24,20°
- One PMS Offset on 08 SEP 2016 (DoY 252), including three Short Calibrations at 04:35:00,0z, 04:35:34,8z, and 04:36:09,6z (orbit 36003).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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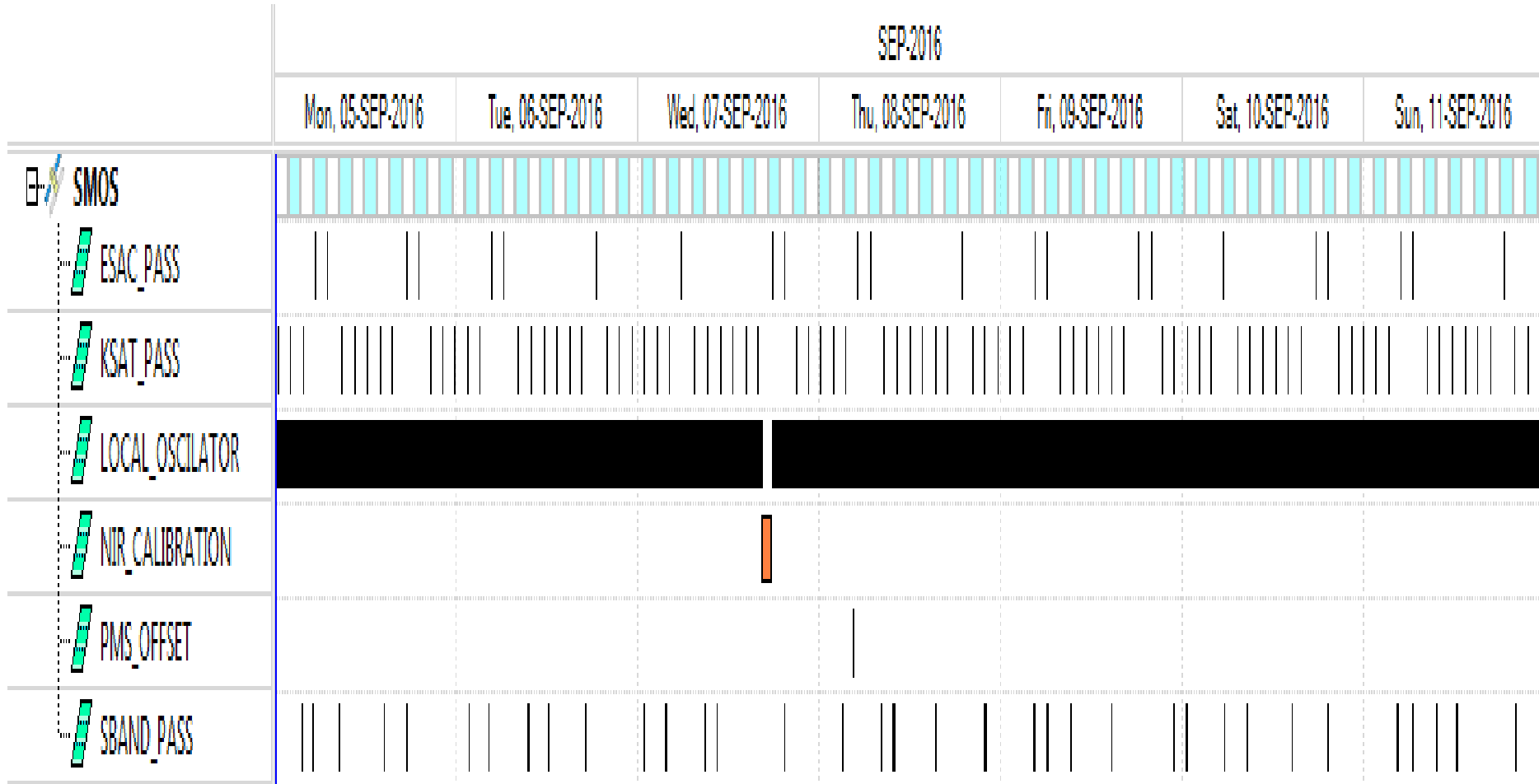
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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

None.

5 On Board Anomalies

- MM partition P11 latched up on 2016-09-08T08:15:03,529z (DoY 252).

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

```
2016.252.08.15.03,529      DMASME01  LU Switch P11
2016.252.08.15.03,529      DMASME37  SDD LU Detected
```

This anomaly was geolocated off the coast of Espírito Santo (Brazil):

```
LAT.   = -18,722678°
LONG.  = 329,107868°
```

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 P7 and P8 respectively. Recovery took place on 2016-09-09T15:00:00z (DoY 253) via CRF No. 603.

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

```
READ   = 3500012 (partition P7)
WRITE  = 3717076 (partition P8)
```

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	2016.249.10:19:56,896	23BABF4
RAM Single Bit Error	WARN	2016.253.09:17:43,287	21431B0
RAM Single Bit Error	WARN	2016.254.23:01:13,349	210E540
RAM Single Bit Error	WARN	2016.254.23:14:40,954	21847C4

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.



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9 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.

10 Exceptional Activities

None.

11 AOB

None.



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APPENDIX A: OOLs

The following OOLs befell at the time MM partition P11 latched up on 2016-09-08T08:15:03,529z (DoY 252):

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.252.09.04.56,735	2016.252.08.15.03,529	DMASME01	LU Switch P11	OFF	ON
2016.252.09.04.56,734	2016.252.08.15.03,529	DMASME37	SDD LU Detected	FALSE	TRUE