



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 38, year 2016

from 19 SEP 2016 to 26 SEP 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 38th calendar week of 2016:

19 SEP 2016 to 26 SEP 2016 (DoYs 263 to 270).

The following routine activities were planned this week (see Gantt chart on next page and CRF 604):

- One Warm NIR Calibration on 21 SEP 2016 (DoY 265) with ETO 16:17:15z (orbit 36197) and with the following expected calibration values:

B.T.	= 4.0348°
R.M.S.	= 0.8494
Sun Elevation	= 8.0021°
Moon elevation	= 4.7472°
R.A.	= 106.42°
DEC.	= -60.96°
- One PMS Offset on 22 SEP 2016 (DoY 266), including three Short Calibrations at 05:28:00.0z, 05:28:34.8z, and 05:29:09.6z (orbit 36205).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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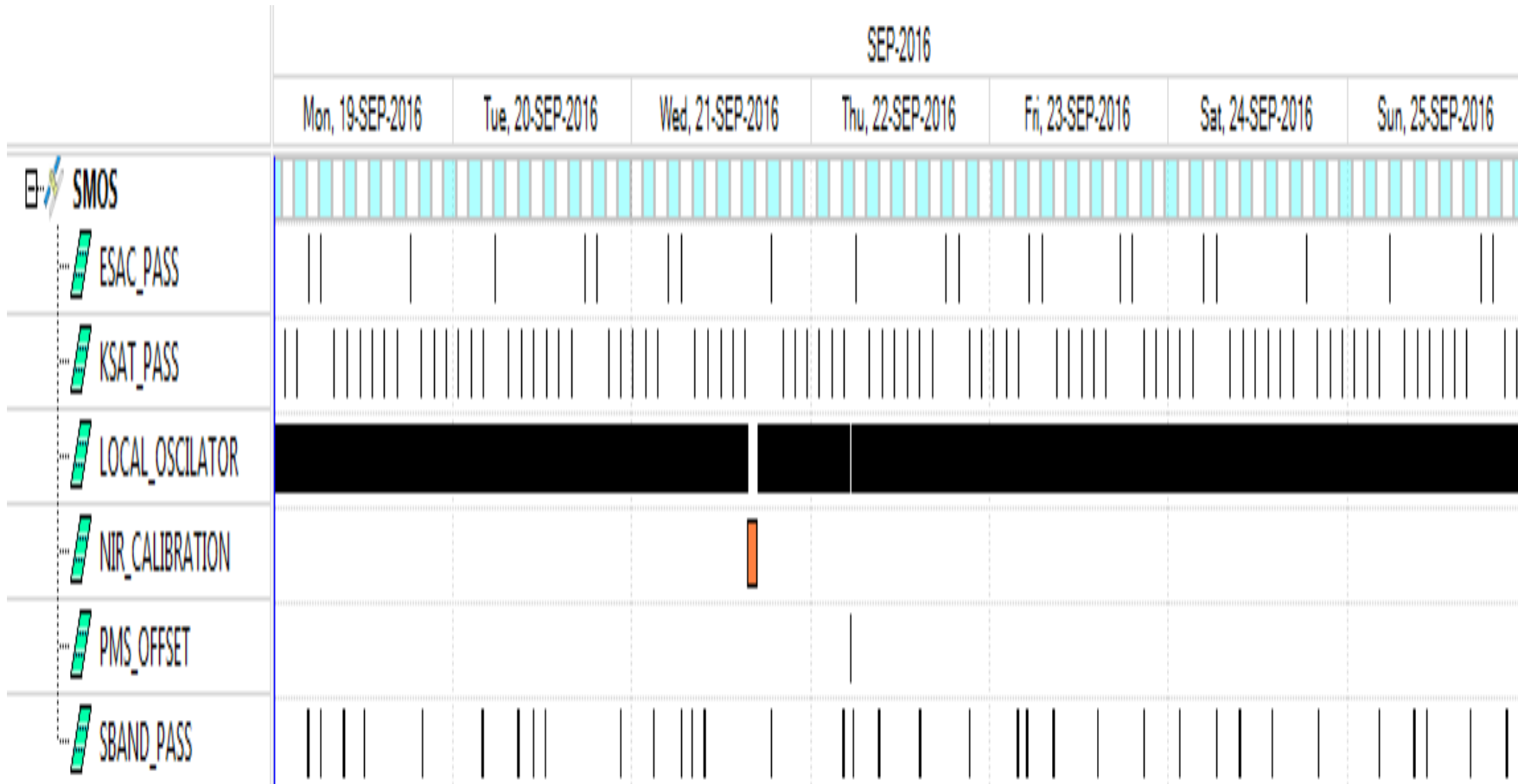
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3 TC Failures

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	2016.266.23.57.55.069	2073A6C

7 FOS Systems Status

All FOS systems nominal behaved nominal with exception of:

- One of the RAID-5 disks of SMTA FOS machine failed for the first time on 19th of September around 16:30z. On that day the affected disk was manually removed from the array system and inserted again for its further reconstruction. After three hours the data array was reconstructed and the failed disk marked again as nominal. Nevertheless the same problem appeared on Saturday 24th of September around 07:50z and this time the disk was permanently marked as failed. DELL Technical service has been contacted on the 26th of September and a new disk requested for its further installation in the affected 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:

- S band GS pass HBX-21 (AOS = 2016-09-21T03:03:01z; LOS = 2016-09-21T03:14:28z) contained four PUS TM gaps. The gaps went:

from 2016-09-20T22:50:50z to 2016-09-20T22:50:58z

from 2016-09-20T22:57:25z to 2016-09-20T22:58:24z

from 2016-09-21T01:30:56z to 2016-09-21T01:31:24z

from 2016-09-21T01:37:39z to 2016-09-21T01:38:46z

The corresponding E_HKTM in the following periods was lost:



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from 2016-09-20T22:52:34z to 2016-09-20T22:53:06z

from 2016-09-20T22:59:22z to 2016-09-20T23:01:30z

from 2016-09-21T01:30:50z to 2016-09-21T01:31:54z

from 2016-09-21T01:37:46z to 2016-09-21T01:40:26z

9 X Band Data Reception in PXMF

Due to the S band problems reported in section nine for GS pass HBX-21, MIRAS PUS telemetry data was retrieved from the X Band PXMF system and stored on SMT-MUST machine.

10 Exceptional Activities

None.

11 AOB

None.

APPENDIX A: OOLs

None.