



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 04, year 2016

from 25 JAN 2016 to 01 FEB 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 04th calendar week of 2016:

25 JAN 2016 to 01 FEB 2016 (DoYs 025 to 032).

The following routine activities were planned this week (see Gantt chart on next page and CRF 549):

- One PMS Offset on 28 JAN 2016 (DoY 028), including three Short Calibrations at 08:12:00.0z, 08:12:34.8z, and 08:13:09.6z (orbit 32782).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

The SMOS Eclipse season that started on the 13th of November 2015, ended this week on the 29th of January.

2 Mission Planning Deviations

None.



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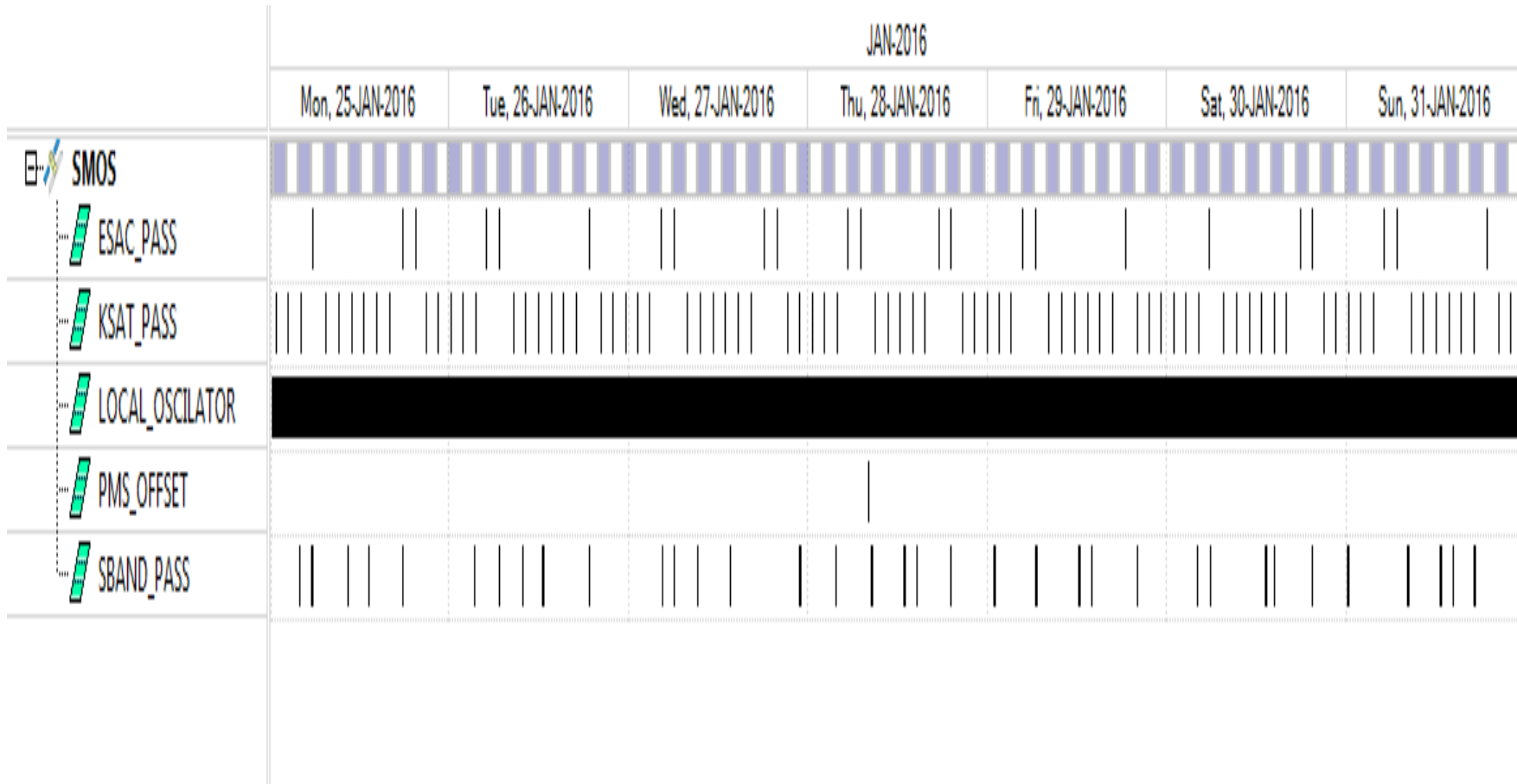
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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

None.

5 On Board Anomalies

- Temperature of LICEF A10, had a sudden increase of around 1.5 degrees on the 9th of January 2016 (see FOS report for week 01 year 2016). From that point onwards the values of this parameter remain inside a new upper band between 24.7 and 27 degrees (see Figure-1). As it is possible to see in the Figure below, this new upper band is slight increasing with time, which is compatible with the past evolution of this parameter at this time of the year. In fact this temperature reached its maximum seasonal value on the 31st of January and should now to slowly decrease.

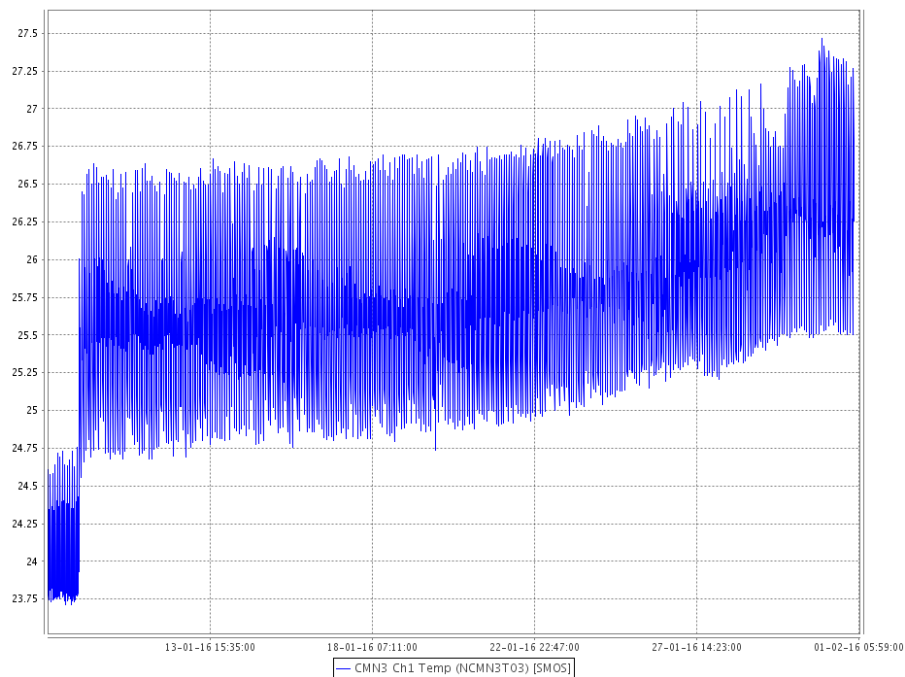


Figure 1



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	2016.027.12.36.00.507	22F36DC
RAM single Bit Error	WARN	2016.028.11.52.40.934	22E6B70
RAM single Bit Error	WARN	2016.028.19.21.30.389	224F8D0
RAM single Bit Error	WARN	2016.028.23.11.06.532	2231728
RAM single Bit Error	WARN	2016.030.22.08.57.417	22EF748

7 FOS Systems Status

- The PLPC Time Correlation Task (TCO) crashed on 2016-01-27T14:15:55,243z (DoY 027; ERT) due to a CORBA System exception. The problem commenced during the processing of GS pass KER-52 (27 JAN 2.016, DoY 027; AoS=13:36:28z, LoS=13:50:26z; ERT). The PLPC system started processing TM on 2016-01-27T14:11:44,451z (DoY 027; ERT). The first PUS TM packet had an OBT stamp of 2016-01-27T09:15:19,087z (DoY 027) and, as result of the above anomaly, all PUS TM packets with OBT stamps from 10.34.29,936z to 10:42:16,731z (27 JAN 2.016, DoY 027) were incorrectly archived under Data Stream 4.

The TCO task was manually restarted, followed by the execution of procedure FCP-GRD-040. PUS TM packets with OBT stamps from 09:15:19,087z to 13:37:49,235z (27 JAN 2.016, DoY 027) were deleted from the PLPC system, and the following TM files again reingested

SMOS_PLTM1_P_2016_01_27_13_37_51

SMOS_PLTM1_P_2016_01_27_13_40_03

The SMTA-MUST system was not impacted by the crash.

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 successfully received and processed.



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10 Exceptional Activities

None.

11 AOB

None.

APPENDIX A: OOLs

No relevant Out of Limits were received this week.