



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 42, year 2015**

from 12 OCT 2015 to 19 OCT 2015

**1.0**

### 1 General Comments

Activities scheduled for this week are those planned for the 42<sup>nd</sup> calendar week of 2015:

12 OCT 2015 to 19 OCT 2015 (DoYs 285 to 292).

The following routine activities were planned this week (see Gantt chart on next page and CRF 529):

- One Warm NIR Calibration on 14 OCT 2015 (DoY 287) with ETO 17:19:32z (orbit 31262) and with the following expected calibration values:

B.T.	= 3.9049
R.M.S.	= 0.6357
Sun Elevation	= 9.9932 degrees
R.A.	= 116.5015 degrees
DEC.	= -23.787 degrees
- One LONG Calibration on 2015-10-15 (DoY 288), which encompassed two orbital periods starting at 01:23:00.0z (orbit 31267) and 03:03:05.0z (orbit 31268).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



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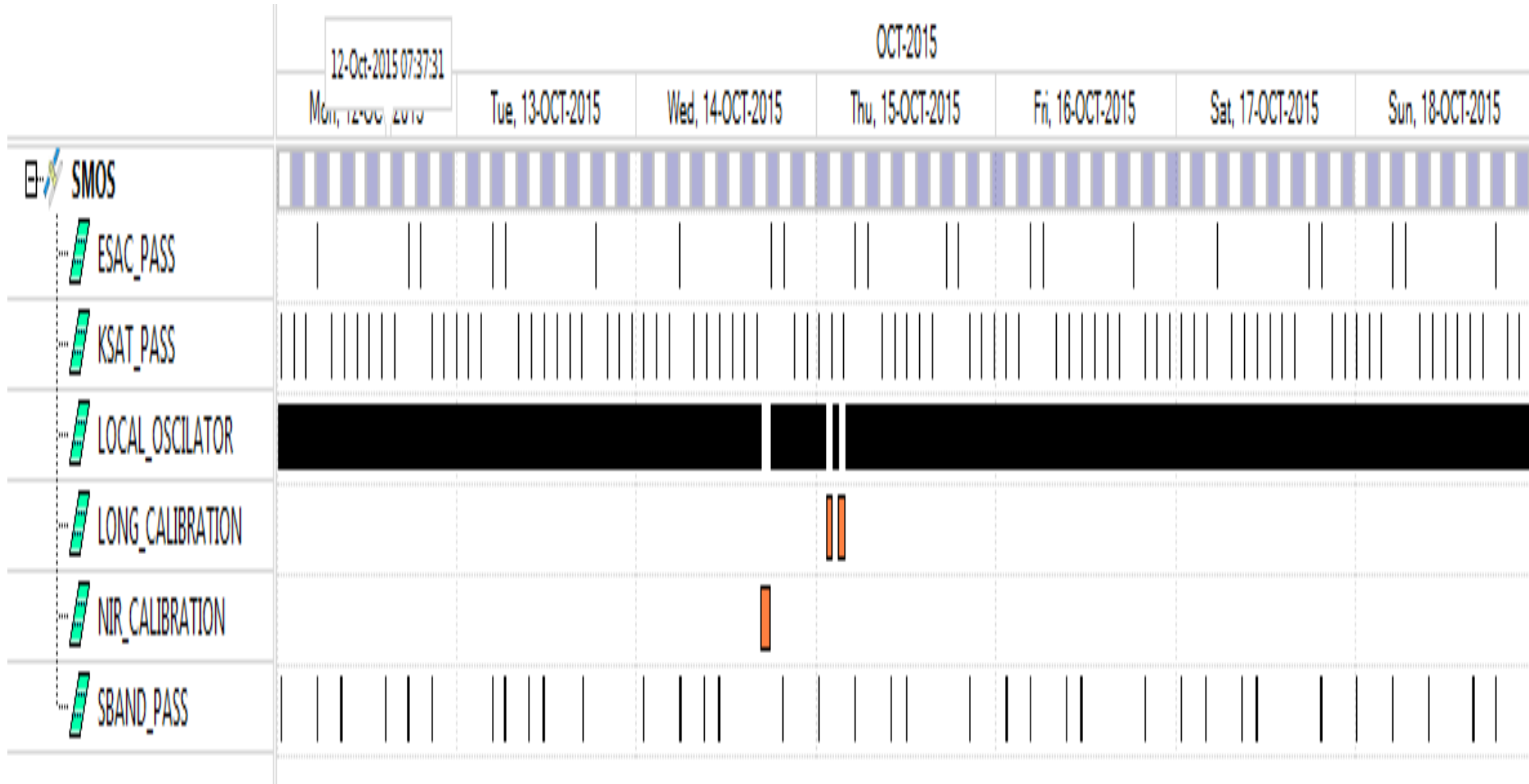
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## 3 TC Failures

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	2015.290.08.13.53.697	22890E0
RAM Single Bit Error	WARN	2015.289.22.14.26.950	21F475C
RAM Single Bit Error	WARN	2015.289.21.15.49.709	23F13CC
RAM Single Bit Error	WARN	2015.285.10.26.05.086	23E2214

## 7 FOS Systems Status

All FOS Systems nominal with exception of:

- The Time Correlation task crashed at 2015-10-14T10:38:49 (DOY 287) due to a PLPC System CORBA exception. The problem appeared during the reingestion of telemetry files after the TCO failure the day before (see event 2294). The TCO task was restarted live and very little data were lost to Data Stream 4. FOS applied the following strategy: 1) We allowed the PLPC system to finish processing data. 2) Data Stream 4 was deleted clean via SCOS 2.000 at PLPCPRM. 3) All Data Stream 1 was manually ingested into the MUST-SMTA system. 4) WebMUST was used to determine the data gap created by this second TCO task crash. 5) It resulted to be: 2015-10-13T12:52:54z -- 2015-10-13T12:58:19z. 6) This small gap was filled by manually ingesting X Band data, first in the PXMF system, then to the MUST-SMTA system.
- PLPC Time Correlation Task crashed on 2015-10-13T17:35:11.075z (DOY 286) (Earth Reception Time), towards the end of TM reception for GS pass AUS-33 (GS pass from 16:58:09z to 17:10:39z). At the time of the anomaly the following error messages were issued by SCOS-PLPC system: "SYSTEM CORBA::SystemException caught" The problem was



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detected by the FOS Team around 2015-10-13T17:55z and procedure FCP-GRD-040 then executed. As part of this execution the TCO task was restarted at 17:57:52.475z. The problem did not have any impact at MUST-SMTA level since no incorrectly tagged TM data was transferred to the system. Nevertheless MUST data transfer cronjobs were disabled until the end of the PLPC cleanup procedure. Telemetry was archived in Data Stream 4, from 2015-10-13T15:02:35.623 to 2015-10-13T15:17:00.831. HFA files were deleted for Data Stream 1 from 2015.286.11.42.09.094 to 2015.286.17.01.21.280 and for Data Stream 4 from 2015.286.17.35.14.091 to 2015.286.17.57.53.323.

The following 2 Telemetry files for the affected passes were again reingested:

SMOS\_PLTM1\_P\_2015\_10\_13\_17\_01\_22

SMOS\_PLTM1\_P\_2015\_10\_13\_17\_03\_22

## 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:

## 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

None.