



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 51, year 2015

from 14 DEC 2015 to 21 DEC 2015

1.0

1 General Comments

Activities scheduled for this week are those planned for the 51st calendar week of 2015:

14 DEC 2015 to 21 DEC 2015 (DoYs 348 to 355).

The following routine activities were planned this week (see Gantt chart on next page and CRF 544):

- One PMS Offset on 17 DEC 2015 (DoY 351), including three Short Calibrations at 07:07:00.0z, 07:07:34.8z, and 07:08:09.6z (orbit 32177).
- Local Oscillator Calibrations every 10 minutes.
- Orbit Correction Manoeuvre on 17 DEC 2015.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

The Orbit Correction Manoeuvre initially foreseen on the 17th of December was cancelled due to a Collision risk on the 21st of December. Instead a Collision Avoidance Manoeuvre (CAM) was executed at 2015-12-20T22:43:55z.

The instrument unavailability period due to this manoeuvre when from 22:34:10z to 22:53:52z. This manoeuvre fell in the middle of a scheduled XBand pass over Svalbard from 22:38z to 22:49z that was cancelled.



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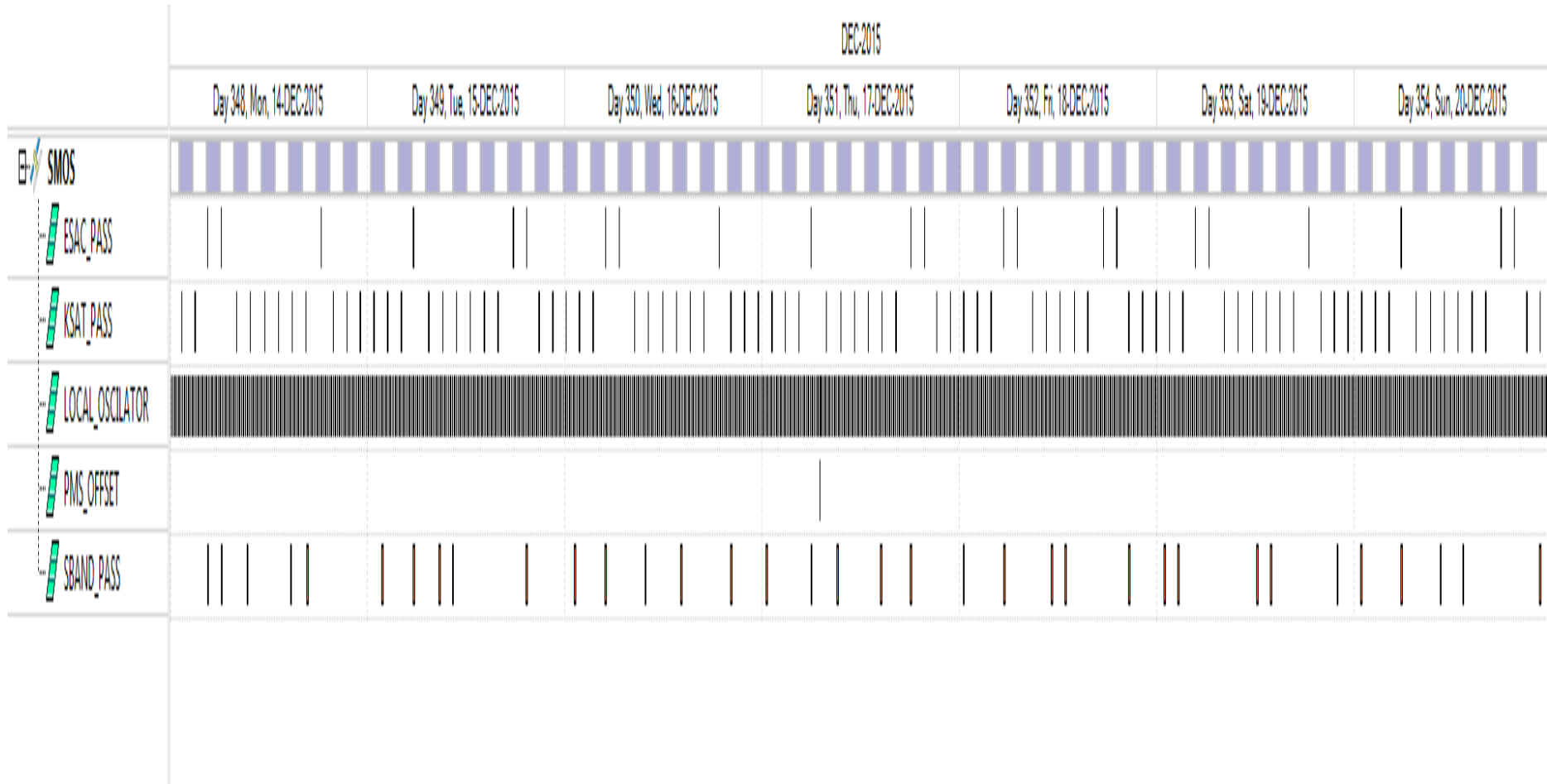
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3 TC Failures

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	2015.354.18.22.45.108	23E6310
RAM single Bit Error	WARN	2015.349.12.06.22.771	23C9854

7 FOS Systems Status

All FOS Systems behaved nominal during this reporting period with the following exception:

- An orange info alarm was displayed on PLPCPRM physical machine. No *Zabbix* alert or any other alarm was received on the FOS side. The machine was rebooted and after the reboot the alarm was still present. DPGS analyst check the problem and after the installation of a dedicated DELL diagnostic tool, the anomaly was found in an internal log file maintained by the machine in the ROM area and used for hardware diagnostics. That log file was clean up and the alarm disappeared after that,

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:

- SBand telemetry data for GS pass KER-20 on 2015-12-15T01:51z, was received with two telemetry gaps. These two gaps only affected MIRAS PUS Telemetry as follows:
from 2015-12-15T00:36:51.978z to 2015-12-15T00:37:00.288z
from 2015-12-15T00:38:03.888z to 2015-12-15T00:41:14.689z

Both gaps were filled at SMTA-MUST level using XBand Telemetry and PXMF system.



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9 X Band Data Reception in PXMF

- Due to the SBand telemetry gap that happened for KER-20, the following two gaps were filled on SMTA using the PXMF system:
2015-12-15T00:36:51.978 to 2015-12-15T00:37:00.288
2015-12-15T00:38:03.888 to 2015-12-15T00:41:14.689

10 Exceptional Activities

None.

11 AOB

None.



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APPENDIX A: OOLs

Telemetry parameter NTLHK022 "ITL Ena State" when out of limits during the time when the ITL was disabled due to the Collision Avoidance Manoeuvre.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2015.355.05.39.26.73	2015.354.22.34.01.547	NTLHK022	ITL Ena State	Disabled	Enabled