



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 49, year 2016

from 05 DEC 2016 to 12 DEC 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 49th calendar week of 2016:

05 DEC 2016 to 12 DEC 2016 (DOYs 340 to 347).

The following routine activities were planned this week (see Gantt chart on next page and CRF 625):

- Two LONG Calibrations on 08 DEC 2016 (DOY 343), which encompassed two orbital periods starting at 15:34:00.0z (orbit 37319) and 17:14:00.0z (orbit 37320).
- Local Oscillator Calibrations every 10 minutes.
- Orbit Correction Manoeuvre (OCM) on 08 DEC 2016 at 00:03:59z. The affected time period for the manoeuvre went from 2016-12-07T23:46:50z to 2016-12-08T00:03:59z. Science data on that period was flagged with an external APID.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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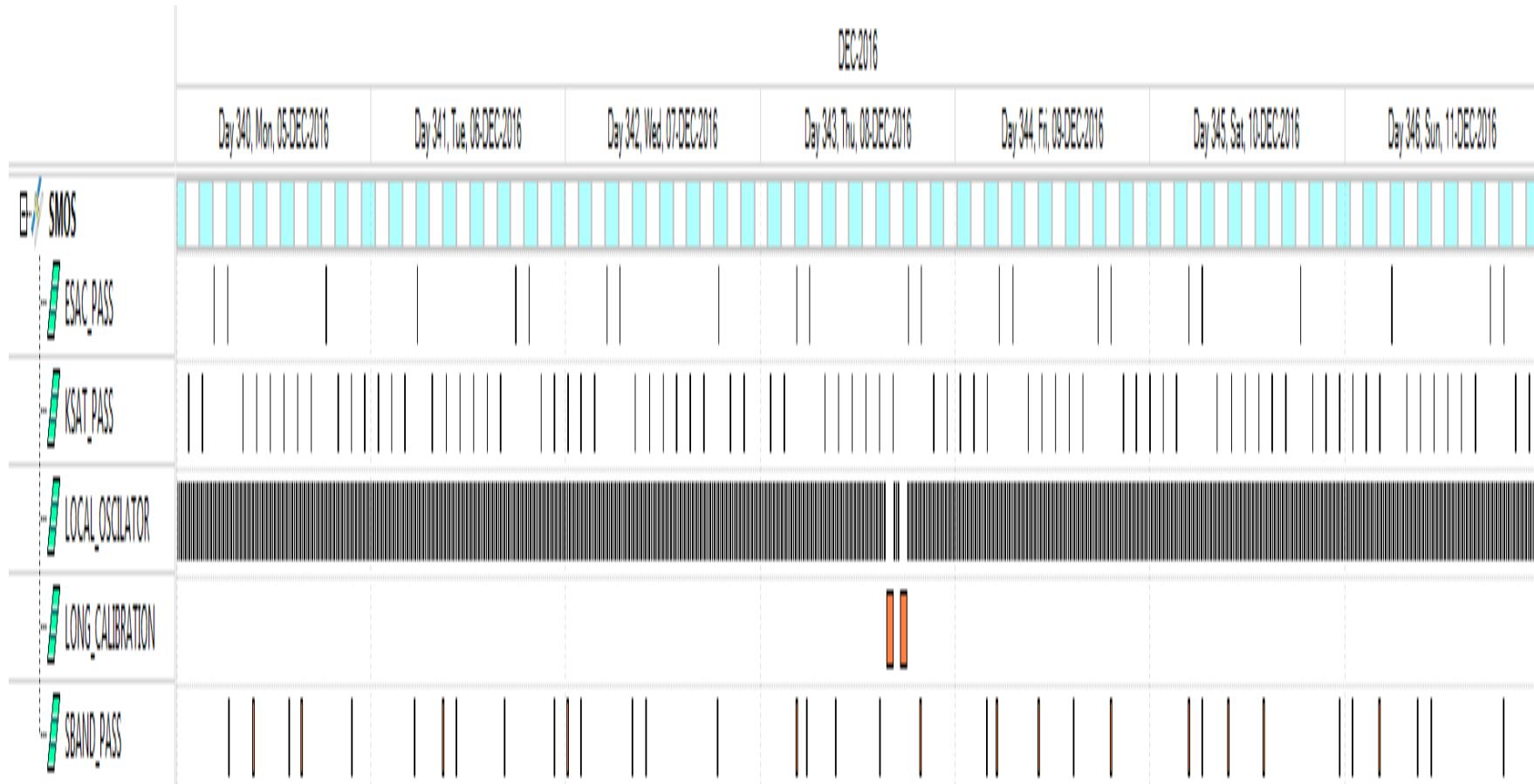
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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

The only unforeseen and relevant out of limit was the one related with the CMN Unlock of unit C3 on the 7 DEC 2016 at 09:19:37z (further details can be found in Appendix-A of this report)

5 On Board Anomalies

- The MIRAS instrument CMN, unit C3, unlocked on 2016-12-07T09:19:37.434z (DOY 342). The anomaly was geolocated due south-west of Australia:

Latitude = $-45^{\circ}.276$

Longitude = $121^{\circ}.522$

Locking status parameter SPM22167 went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds. The anomaly recovered in 7 epochs and produced 10 minute of degraded data.

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	2016.343.09.24.45.961	2029A58
RAM single Bit Error	WARN	2016.341.11.22.41.956	2155E88

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.

9 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.

10 Exceptional Activities

None.



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11 AOB

None.



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APPENDIX A: OOLs

The following OOL was issued by the FOS PLPC system at the time of the OCM and when the MIRAS ITL was made disabled as part of this manoeuvre setting.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.343.05.10.21.217	2016.342.23.53.53.535	NTLHK022	ITL Ena State	Disabled	Enabled

At the time of the C3 CMN unlock the following OOL was issued by the FOS PLPC system

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.342.10.25.17.438	2016.342.09.19.37.434	SPM22167	C3 LO_Locking	UNLOCK	LOCK