



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 25, year 2016

from 20 JUN 2016 to 27 JUN 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 25th calendar week of 2016:

20 JUN 2016 to 27 JUN 2016 (DoYs 172 to 179).

The following routine activities were planned this week (see Gantt chart on next page and CRF 581):

- One PMS Offset on 23 JUN 2016 (DoY 175), including three Short Calibrations at 07:50:00.0z, 07:50:34.8z, and 07:51:09.6z (orbit 34897).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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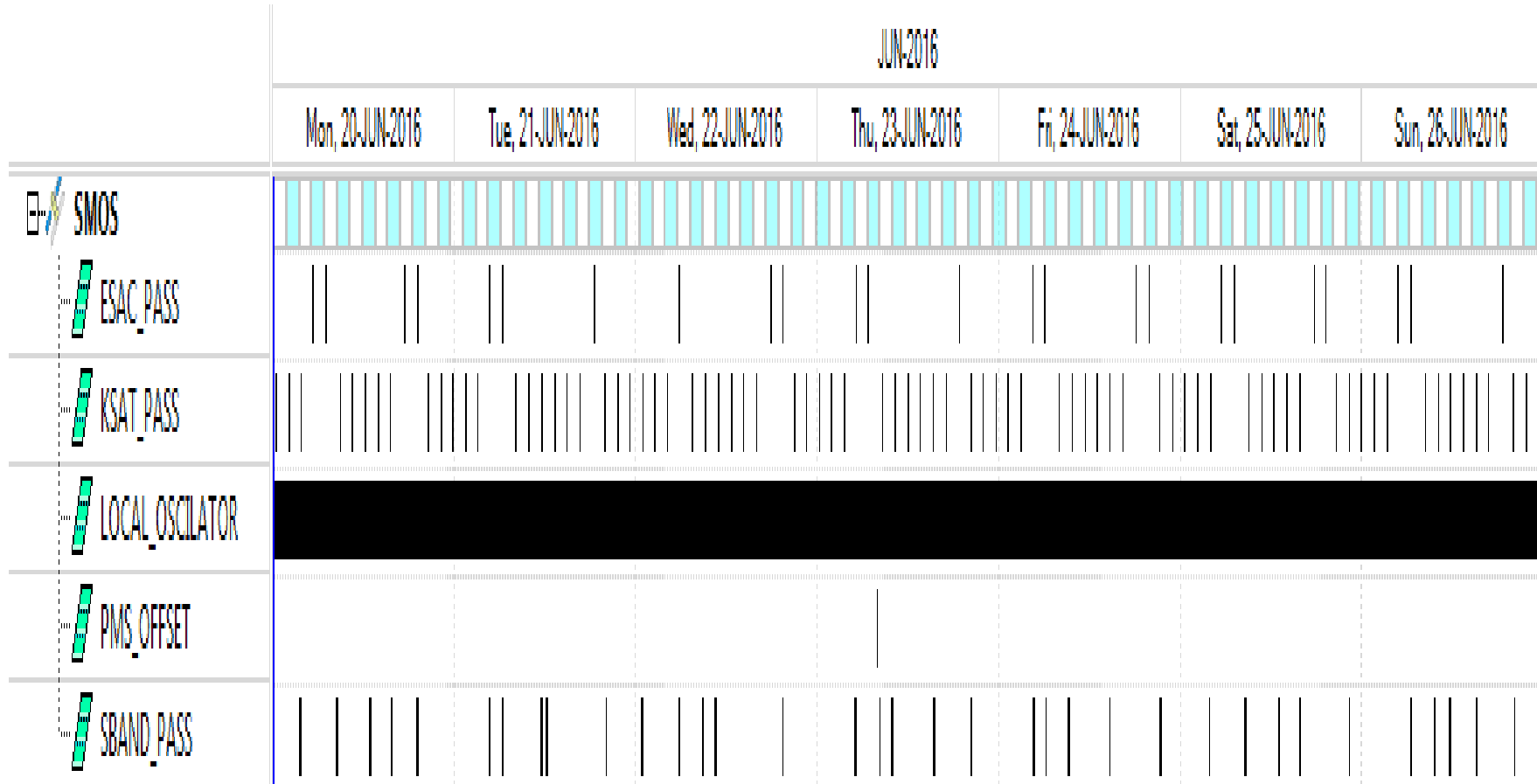
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3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

Several Out of limits were received at the time of the three MIRAS anomalies that happened this week. (see Appendix-A for further details)

5 On Board Anomalies

- A new Mass Memory latch-up impacted partition P4 on 2016-06-22T06:52:03.066z. The following parameters went out of limits in the PLPC system:

2016.174.06.52.03.066 *DMASME08 LU Switch P4*
2016.174.06.52.03.066 *DMASME37 SDD LU Detected*

This anomaly was geolocated over Antarctica at the following geographical coordinates:

LAT. = -81.316418
LONG. = 62.222417

There were no science data losses associated with this anomaly because the Read pointer was on P8 and the Write pointer on P0. Recovery took place on 2016-06-23T11:00:00 via CRF No. 584.

- MIRAS suffered a new CMN unlock on 2016-06-21T09:29:59,897z (OBT) affecting unit H1. The anomaly was geolocated over southern Brazil:
LAT. = -19,737430
LONG. = 310,541323

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 13 epochs.

- MIRAS suffered another CMN unlock on 2016-06-20T04:40:24,108z (OBT) affecting unit B2. The anomaly was geolocated off the Antarctic coast:
LAT. = -57,603052
LONG. = 186,444933

Both parameters, output power SPM18162 and locking status SPM18167, went out of limits in the FOS PLPC system. The anomaly recovered in 11 epochs.



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6 On Board Events Telemetry

No relevant, warning and error, packets were received during this reporting period.

7 FOS Systems Status

All FOS systems behaved nominally during this week.

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

At the time of the Mass Memory Latch-up in unit P4 the following parameters went out of limit on PLPC system

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.174.09.28.24.558	2016.174.06.52.03.066	DMASME08	LU Switch P4	ON	OFF
2016.174.09.28.24.557	2016.174.06.52.03.066	DMASME37	SDD LU Detected	TRUE	FALSE

The following parameters went out of limits at the time of the H1 CMN unlock anomaly

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.173.12.14.26.635	2016.173.09.30.05.897	SPM11167	H1 LO_Locking	UNLOCK	LOCK
2016.173.12.14.26.471	2016.173.09.29.59.897	SPM11162	H1 LO_Out_Power	NOT-OK	OK

And the following ones for the B2 unlock anomaly

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2016.172.09.03.52.128	2016.172.04.40.30.108	SPM18167	B2 LO_Locking	UNLOCK	LOCK
2016.172.09.03.51.687	2016.172.04.40.24.108	SPM18162	B2 LO_Out_Power	NOT-OK	OK

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