



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 15, year 2016

from 11 APR 2016 to 18 APR 2016

1.0

1 General Comments

Activities scheduled for this week are those planned for the 15th calendar week of 2016:

11 APR 2016 to 18 APR 2016 (DoYs 102 to 109).

The following routine activities were planned this week (see Gantt chart on next page and CRF 562):

- One PMS Offset on 14 APR 2016 (DoY 105), including three Short Calibrations at 18:18:00.0z, 18:18:34.8z, and 18:19:09.6z (orbit 33896).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

An extra XBand pass over XBand CNES station in South Africa, HBK, was scheduled on the 12th of April from 15:54:00z to 16:03:00z. This pass was manually added in the PLPC Manual Stack. The purpose of said pass was to test the X band receiver at the HBK GS. No impact on MIRAS Science Telemetry processing.



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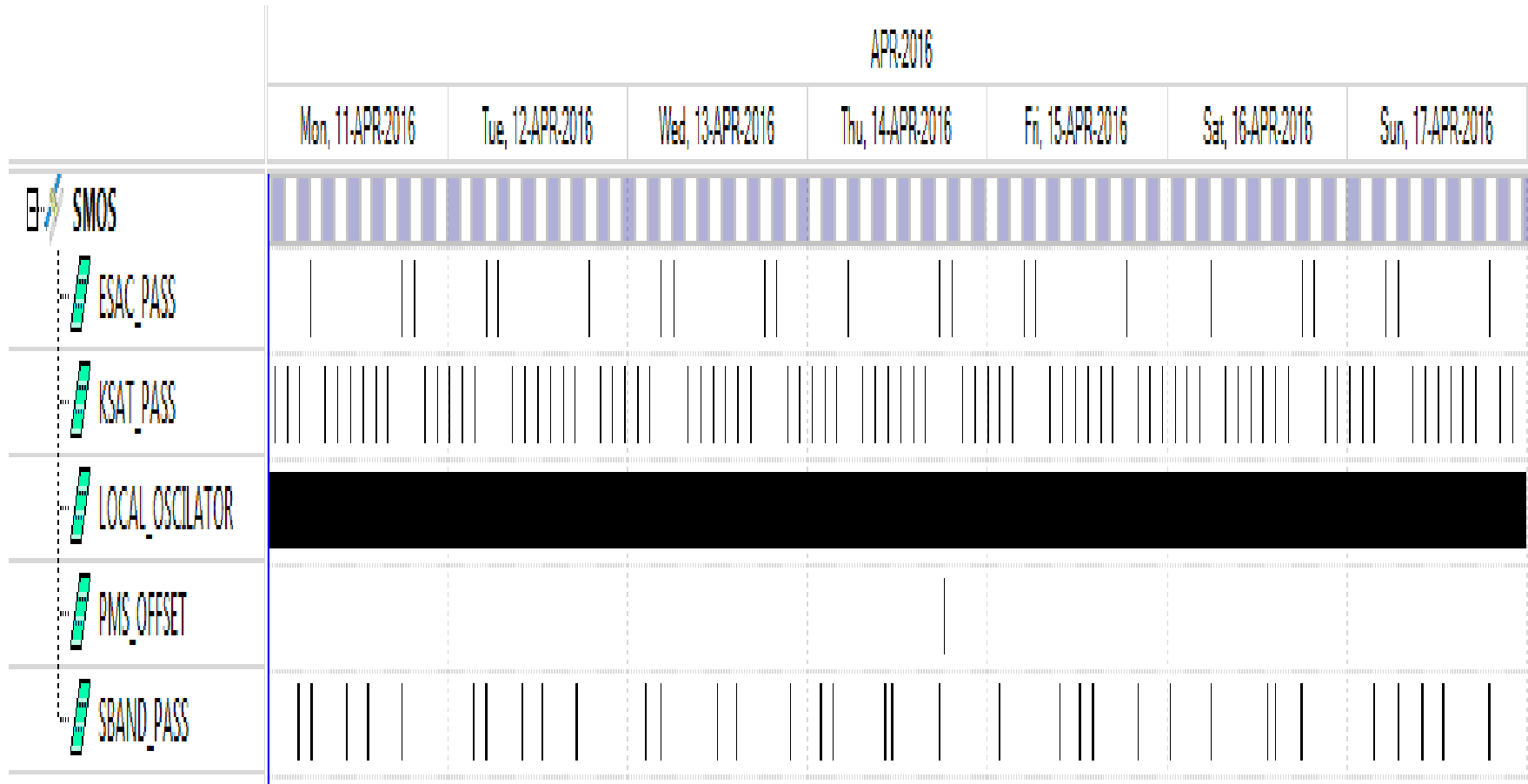
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3 TC Failures

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	2016.108.11.38.27.308	2188010
RAM single Bit Error	WARN	2016.106.10.12.28.012	23B3DDC

7 FOS Systems Status

All FOS systems behaved nominally during this week.

- A new version (6.1) of the MIB database was installed on PLPC and PXMf systems on 2016-04-15T07:30:00. This new version aligns the PROTEUS Out of Limit values with the ones used at CNES. It also fixes the SCOS parameter type for MIRAS time parameter SPC10106.
- A MIRAS PUS telemetry gap on the MUST-SMTA system was found from 2016-04-17T12:44:41z to 2016-04-17T13:43:48z. That gap did not exist on the PLPC system therefore the gap was successfully filled from PLPC system using ground procedure FCP-GRD-070. The reason for that gap is not understood yet but it could be related with the execution of the new *Python* script that automatically ingest the telemetry from PLPC to SMTA.

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 exception:

- Because an issue with the receiving station, S band GS pass AUS-15 (AoS = 2016-04-12T05:06:07z; LoS = 2016-04-12T05:20:46z) contained two PUS TM gaps. The gaps were:
 - from 2016-04-12T04:23:22z to 2016-04-12T04:24:21z*
 - from 2016-04-12T04:25:48z to 2016-04-12T04:26:09z*



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To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA System on 12 APR 2.016. The corresponding E_HKTM was lost.

9 X Band Data Reception in PXMF

PXMF system was used to fill the PUS Telemetry gap produced by the ground station problem reported in section 8 of this report.

10 Exceptional Activities

None.

11 AOB

None.

APPENDIX A: OOLs

None.