

Operations Notes

FOS Team @ ESAC Reported by:

SAC Date: Issue: FOS Report for week 14, year 2018 from 02 APR 2018 to 09 APR 2018

1.0

J. Fauste/J.M. Castro Cerón

1 General Comments

Activities scheduled for this week are those planned for the 14th calendar week of 2018:

Topic:

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02 APR 2018 to 09 APR 2018 (DOYs 092 to 099).
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The following routine activities were planned this week (see Gantt chart on next page and CRF 730).

 One Warm NIR Calibration on 04 APR 2018 (DOY 094) with ETO 04:20:31z (orbit 44248; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

> B.T. = 3.91° R.M.S. = 0.64Sun elevation = 2.46° Moon elevation = -19.20° R.A. = 92.51° DEC. = -49.68°

- Two LONG Calibrations on 05 APR 2018 (DOY 095), which encompassed two ascending semi-orbital periods starting at 15:17:30z (orbit 44269) and 16:57:30z (orbit 44270).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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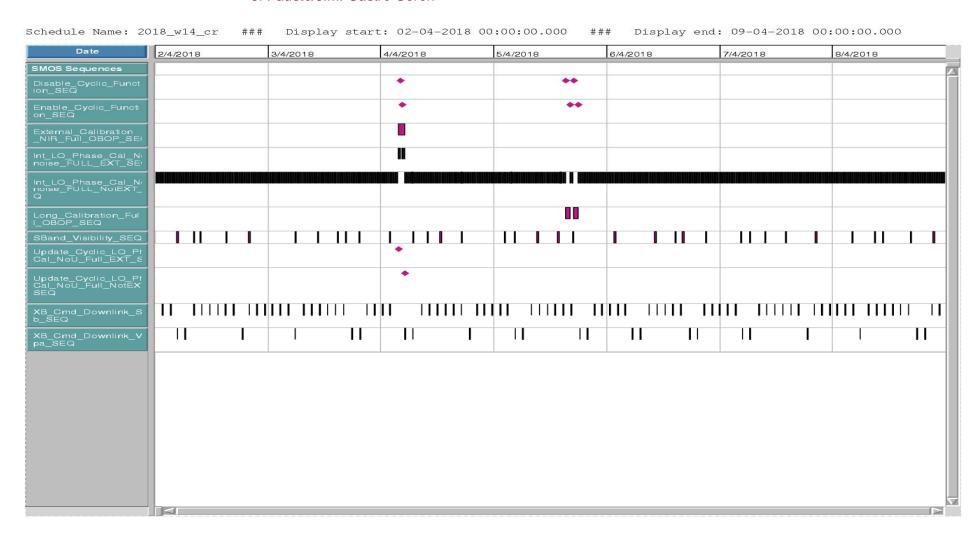
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3 TC Failures

None.

4 On Board Anomalies

• A Mass Memory Double Bit memory Error took place for partition P10 on 2018-04-07T17:52:33.592. No impact on science data since the affected partition was one of the spare ones

Topic:

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5 On Board Events Telemetry

No relevant on board events were received this week.

6 FOS Systems Status

All FOS systems nominal.

7 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:

• For S band GS pass HBX-7 (AOS = 2018-04-07T04:25:11z; LOS = 2018-04-07T04:39:54z) the following PUS TM gap was detected in the PLPC system:

from 2018-04-06T22:35:04.105z to 2018-04-06T22:36:13.696z; 116 packets lost.

To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 09 APR 2018. The corresponding E_HKTM was lost:

from 2018-04-06T22:44:29z to 2018-04-06T22:47:05z.

8 X Band Data Reception in PXMF

PUS Telemetry data lost on the event reported in previous section was retrieved from the PXMF system on the 9 of April 2018 and transferred to the SMTA machine.

9 Exceptional Activities

None.

10 AOB

None.



SMOS

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APPENDIX A: OOLs

The Mass Memory Double bit memory error on the 7th of April generated the following temporary out of limit on PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-04-07T21:04:26	2018-04-07T17:52:33	DMASME49	DB Err In P10	FALSE	TRUE