



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 05, year 2018

from 29 JAN 2018 to 05 FEB 2018

1.0

1 General Comments

Activities scheduled for this week are those planned for the 5th calendar week of 2018:

29 JAN 2018 to 05 FEB 2018 (DOYs 029 to 036).

The following routine activities were planned this week (see Gantt chart on next page and CRF 714).

- One PMS Offset on 01 FEB 2018 (DOY 032), including three Short Calibrations at 08:03:00.0z, 08:03:34.8z, and 08:04:09.6z (orbit 43358).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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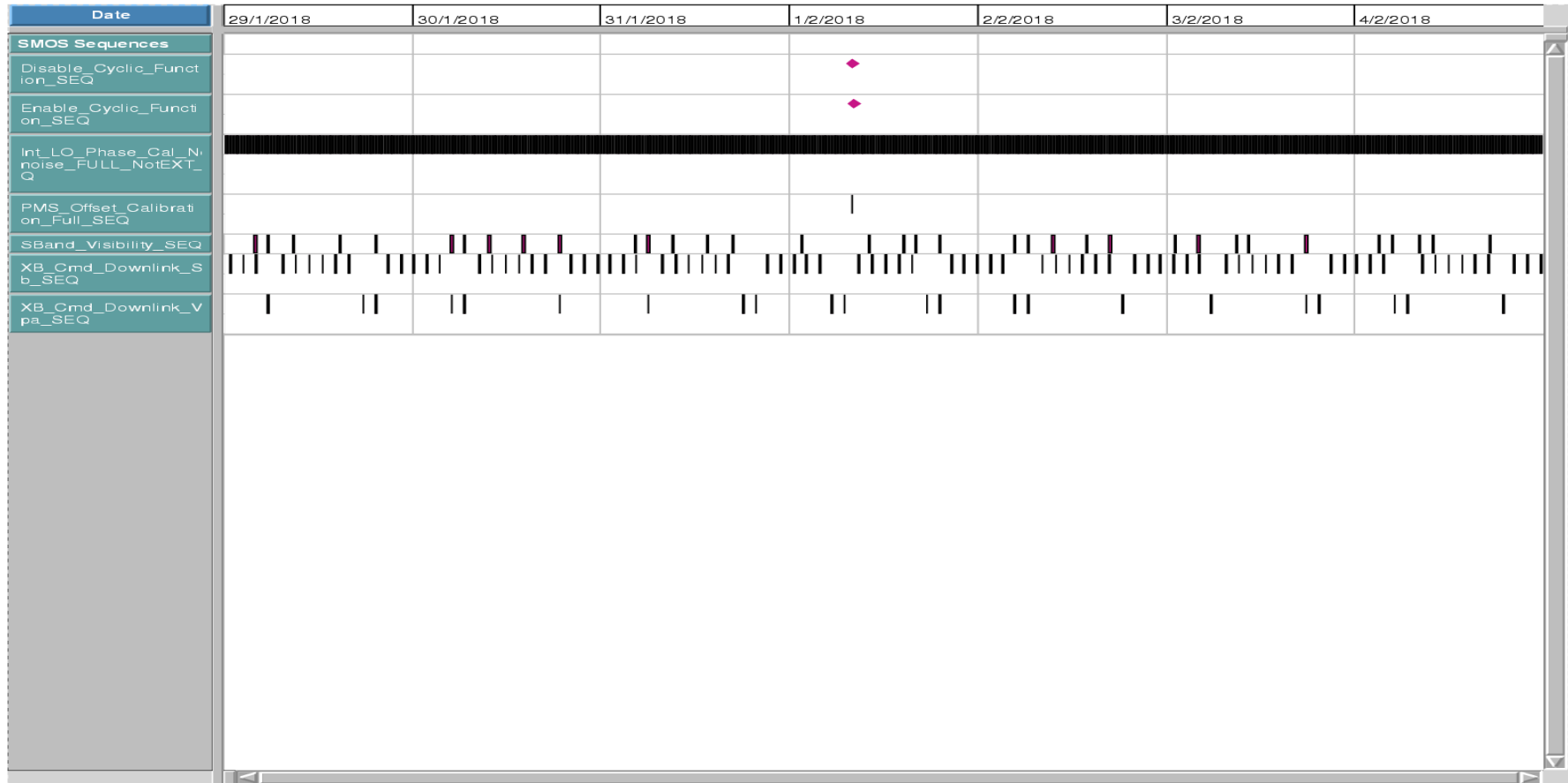
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Schedule Name: 2018_w05_cr ### Display start: 29-01-2018 00:00:00.000 ### Display end: 05-02-2018 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit H1, unlocked on 2018-02-04T11:26:27.964z (DOY 035). This anomaly was geolocated over the north east coast of Chile:

Latitude = -25.23°

Longitude = 282.66°

Both parameters locking status SPM11167 and output power SPM11162 went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

- The MIRAS instrument MM, partition P9, latched up on 2018-02-02T11:08:36.928z (DOY 033). The following parameters went out of limits in the PLPC system:

2018.033.11.08.38.928z DMASME03 LU Switch P9

2018.033.11.08.38.928z DMASME37 SDD LU Detected

This anomaly was geolocated over south west of Peru:

Latitude = -9.82°

Longitude = 284.57°

There were no science data losses associated with this anomaly because it affected partition P9, while the Read and Write pointers were both in partition P8. Recovery was planned to take place on 05 FEB 2018, at 16:00:00z (CRF No. 717). At the time of the anomaly the position of the MM pointers were as follows:

READ = 3572238 (*partition P8*)

WRITE = 3762131 (*partition P8*)

5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Packet ID	Severity	Event Time	Parameters
RAM single Bit Error	730	WARN	2018-02-03T22:01:42	204746C

6 FOS Systems Status

All FOS systems nominal.



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7 Data Reception from CNES

All S band passes were correctly received from CNES and successfully processed by the FOS PLPC system.

8 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.

9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

At the time of the H1 CMN Unlock on the 4 of February, the following OOL were issued by the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-02-04T17:42:14	2018-02-04T11:26:27	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2018-02-04T17:42:14	2018-02-04T11:26:33	SPM11167	H1 LO_Locking	UNLOCK	LOCK

The Mass Memory Latch up of partition P9 on the 2 of February generated the following two OOL on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-02-02T14:31:51	2018-02-02T11:08:36	DMASME37	SDD LU Detected	FALSE	TRUE
2018-02-02T14:31:51	2018-02-02T11:08:36	DMASME03	LU Switch P9	OFF	ON