



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 48 year 2017

from 27 NOV 2017 to 04 DEC 2017

1.0

1 General Comments

Activities scheduled for this week are those planned for the 48th calendar week of 2017:

27 NOV 2017 to 04 DEC 2017 (DOYs 331 to 338).

The following routine activities were planned this week (see Gantt chart on next page and CRF 698):

- One PMS Offset on 30 NOV 2017 (DOY 334), including three Short Calibrations at 07:15:30.0z, 07:16:04.8z, and 07:61:39.6z (orbit 42451).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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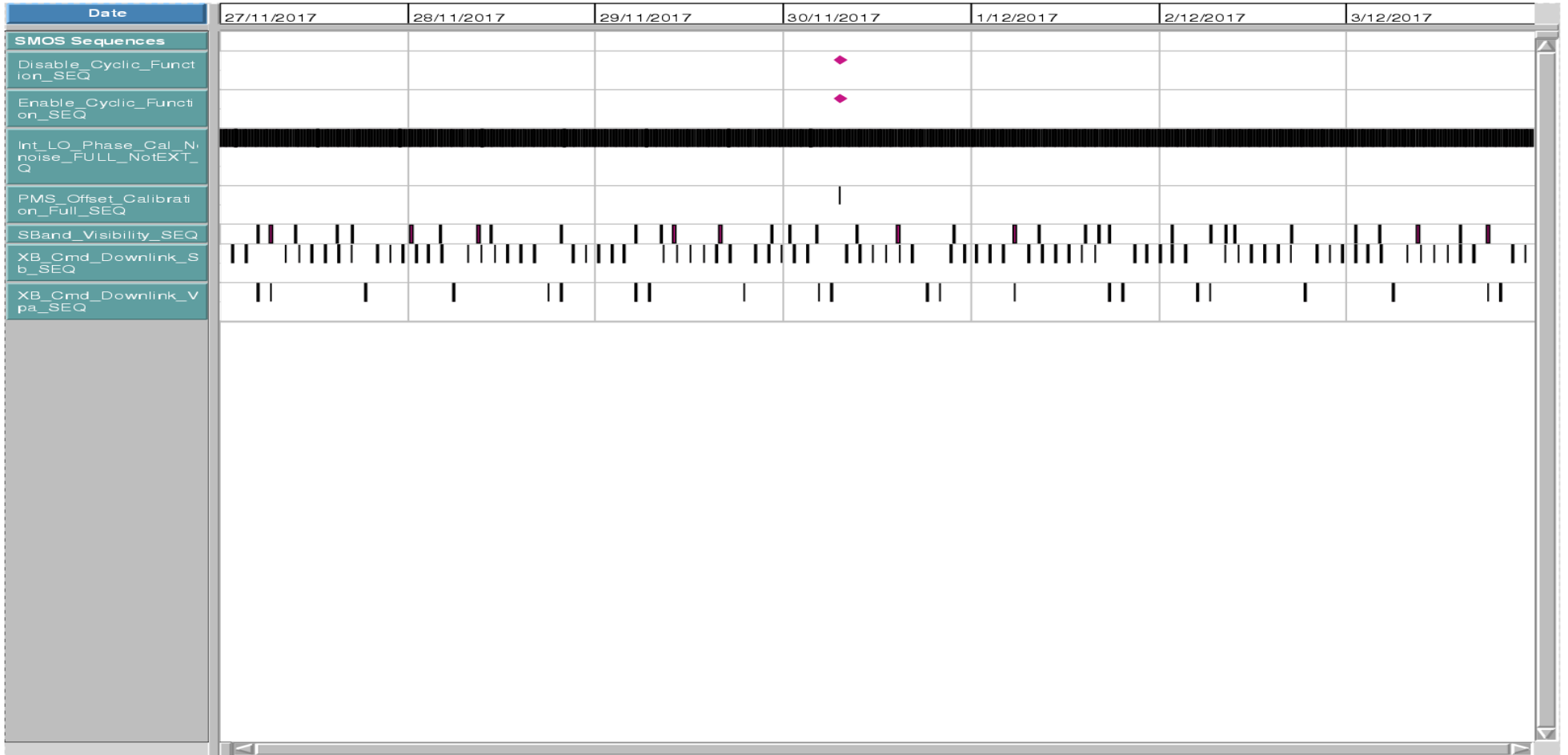
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Schedule Name: 2017_w48_cr ### Display start: 27-11-2017 00:00:00.000 ### Display end: 04-12-2017 00:00:00.000





3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

The only relevant Out of Limits received this week are the ones related with the Mass Memory Latch-up that happened on the 29th of November. Further details on this anomaly can be found in section 5 and Appendix-A of this document.

5 On Board Anomalies

- The MIRAS instrument MM, partition P7, latched up on 2017-11-29T14:41:41.087z (DOY 333). The following parameters went out of limits in the PLPC system:

2017-11-29T14.41.41.087z DMASME05 LU Switch P7
2017-11-29T14.41.41.087z DMASME37 SDD LU Detected

This anomaly was geolocated over the Pacific shore of Antarctica:

Latitude = -70.16°
Longitude = 254.02°

There were no science data losses associated with this anomaly because it affected partition P7, while the Read and Write pointers were both on partition P8. Recovery took place on 30 NOV 2017, at 22:30:00z (CRF 700).

At the time of the anomaly the position of the MM pointers were as follows:

READ = 3682691 (partition P8)
WRITE = 3824011 (partition P8)

6 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	2017-11-27T12:01:00	2350B18
RAM single Bit Error	730	WARN	2017-11-29T13:24:36	210FD5C
RAM single Bit Error	730	WARN	2017-12-03T21:19:06	231AB14

7 FOS Systems Status

All FOS systems nominal.



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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.

11 AOB

None.



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APPENDIX A: OOLs

The following Out of Limits were received in PLPC system at the time of the Mass Memory Latch-up on the 29th of November.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017-11-29T16:37:44	2017-11-29T14:41:41	DMASME05	LU Switch P7	OFF	ON
2017-11-29T16:37:44	2017-11-29T14:41:41	DMASME37	SDD LU Detected	FALSE	TRUE