



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 02, year 2021

from 11 JAN 2021 to 18 JAN 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 02nd calendar week of 2021:

11 JAN 2021 to 18 JAN 2021 (DOYs 011 to 018).

The following routine activities were planned this week (see Gantt chart on next page and CRF 939).

- One PMS Offset on 14 JAN 2021 (DOY 014), including three Short Calibrations at 05:20:30.0z, 05:21:04.8z, and 05:21:39.6z (orbit 58868).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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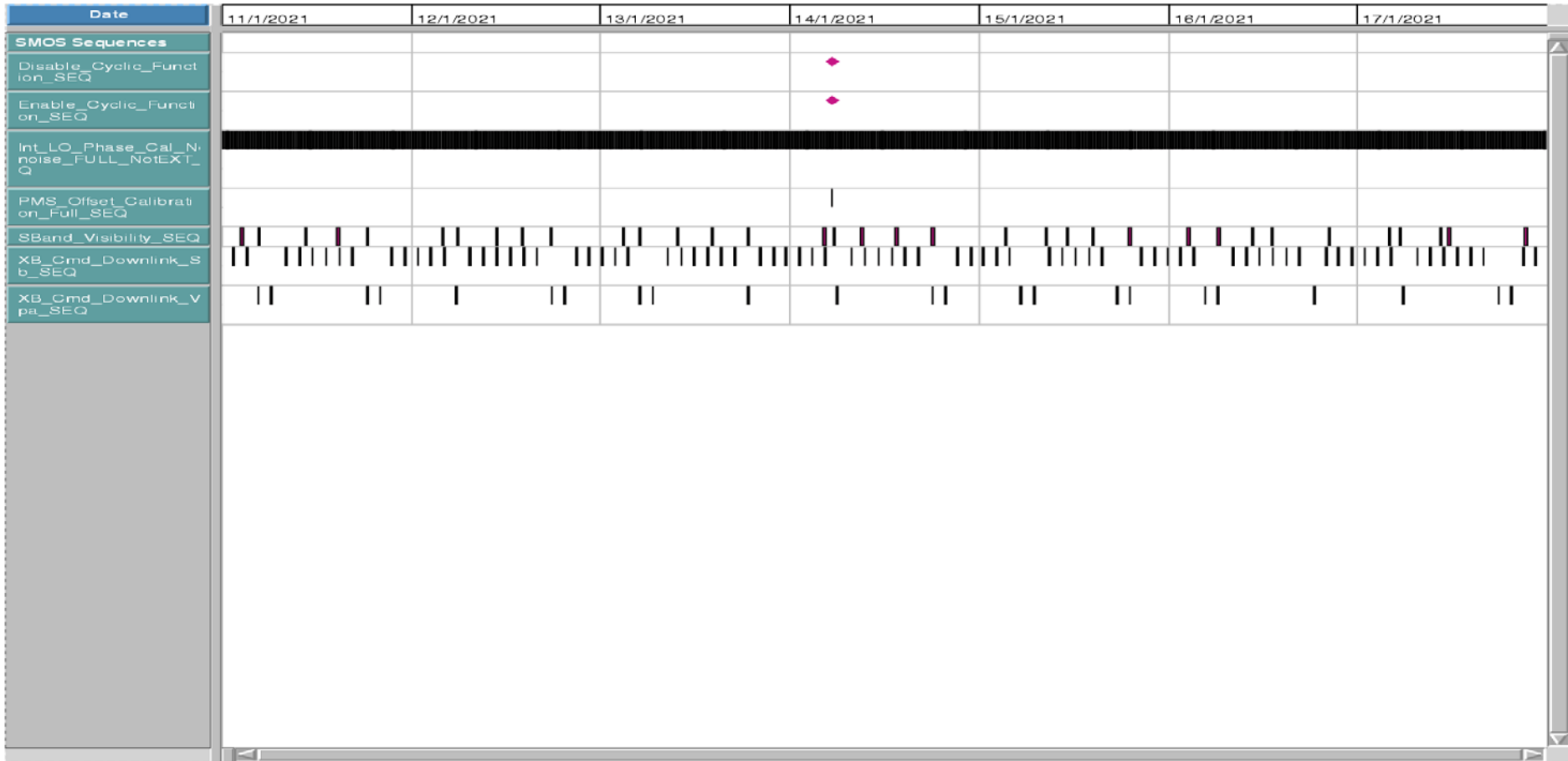
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Schedule Name: 2021_w02_cr ### Display start: 11-01-2021 00:00:00.000 ### Display end: 18-01-2021 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

MIRAS instrument MM, partition P8, latched up 2021-01-13T12:30:34.032z (DOY 013). The following parameters went out of limits in the PLPC system:

2021.013.12.30.34.032z DMASME04 LU Switch P7
2021.013.12:30:34.032z DMASME37 SDD LU Detected

This anomaly was geolocated over South of Indian Ocean due NE coast of Kerguelen island:

Latitude = -47.22°
Longitude = 73.59°

Because it affected partition P8, while the Read and Write pointers were both in partition P7 there was a TM gap on 2020-01-13 from 12:30:30 to 12:30:33 due to the latch-up. Recovery took place Thursday 14 JAN 2021, at 14:00:00z (CRF 942).

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

READ = 3216552 (partition P7)
WRITE = 3369000 (partition P7)

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	2021-01-15T21:50:30	2221EC0
RAM single Bit Error	730	WARN	2021-01-11T23:16:23	23544B0

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.

8 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.



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9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

At the time of the MM Latch-up on the 13th of January, the following two temporary out of limits were received on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-01-13T14:34:21	2021-01-13T12:30:34	DMASME37	SDD LU Detected	FALSE	TRUE
2021-01-13T14:34:21	2021-01-13T12:30:34	DMASME04	LU Switch P8	OFF	ON