



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 02, year 2024

from 08 JAN 2024 to 15 JAN 2024

1.0

1 General Comments

Activities scheduled for this week are those planned for the 02nd calendar week of 2024:

08 JAN 2024 to 15 JAN 2024 (DoYs 008 to 015).

The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1171).

- One PMS Offset on 11 JAN 2024 (DoY 011), including three Short Calibrations at 06:53:00.0z, 06:53:34.8z, and 06:54:09.6z (orbit 74582).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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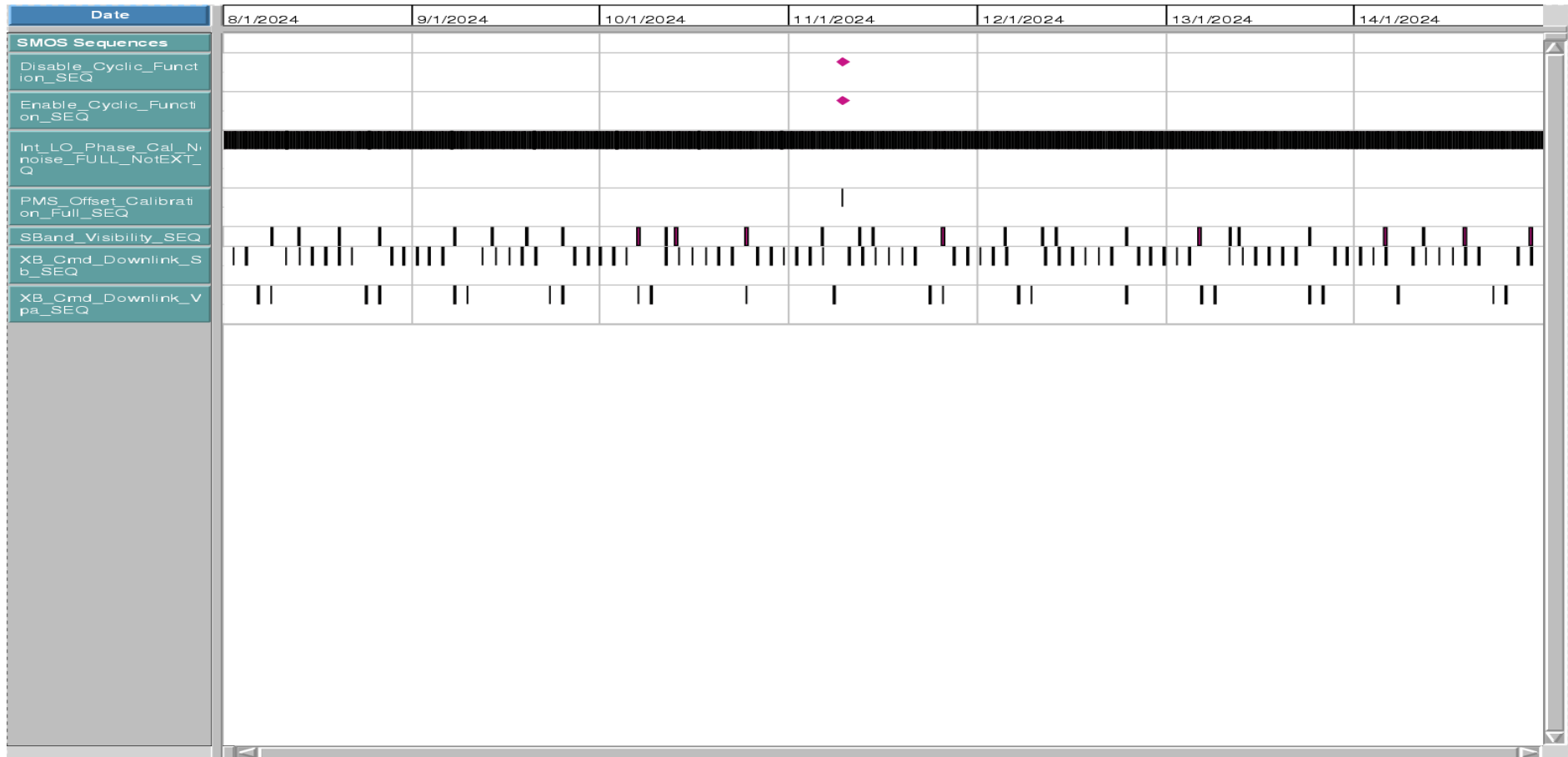
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Schedule Name: 2024_w02_cr ### Display start: 08-01-2024 00:00:00.000 ### Display end: 15-01-2024 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P0, latched up 2024-01-08T21:56:59,309z (DoY 008). The following parameters went out of limits in the PLPC system:

2024.008.21.56.59,309z	DMASME12	LU Switch P0
2024.008.21.56.59,309z	DMASME37	SDD LU Detected

This anomaly was geolocated over the Provincia de Córdoba (Argentina):

LAT. = -32.40°
LONG. = 295.72°

There were no science data losses associated with this anomaly because it affected partition P0, while the Read and Write pointers were both in partition P8. Recovery took place Tuesday 09 JAN 2024, at 15:45:50z (CRF n° 1172). Because it was partition P0 that latched up, 3.57 min of science data were lost during recovery. The gap went:

from 2024-01-09T15:42:28z to 2024-01-09T15:46:02z.

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

READ = 3810273 (partition P8)
WRITE = 3906820 (partition P8)

5 On Board Events Telemetry

None.

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.

9 Exceptional Activities

None.



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10 AOB

None.



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APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument MM, partition P0, latched up 2024-01-08T21:56:59z (DoY 008):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2024.009.05.49.11,160	2024.008.21.56.59,309	DMASME12	LU Switch P0	OFF	ON
2024.009.05.49.11,160	2024.008.21.56.59,309	DMASME37	SDD LU Detected	FALSE	TRUE