



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 46, year 2023

from 13 NOV 2023 to 20 NOV 2023

1.0

1 General Comments

Activities scheduled for this week are those planned for the 46th calendar week of 2023:

13 NOV 2023 to 20 NOV 2023 (DoYs 317 to 324).

The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1160).

- One Warm NIR Calibration on 15 NOV 2023 (DoY 319) with ETO 14:15:52z (orbit 73766; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.76°
R.M.S.	=	0.58
Sun elevation	=	9.36°
Moon elevation	=	-14.55°
R.A.	=	145.51°
DEC.	=	-11.43°
- One PMS Offset on 16 NOV 2023 (DoY 320), including three Short Calibrations at 06:33:00.0z, 06:33:34.8z, and 06:34:09.6z (orbit 73776).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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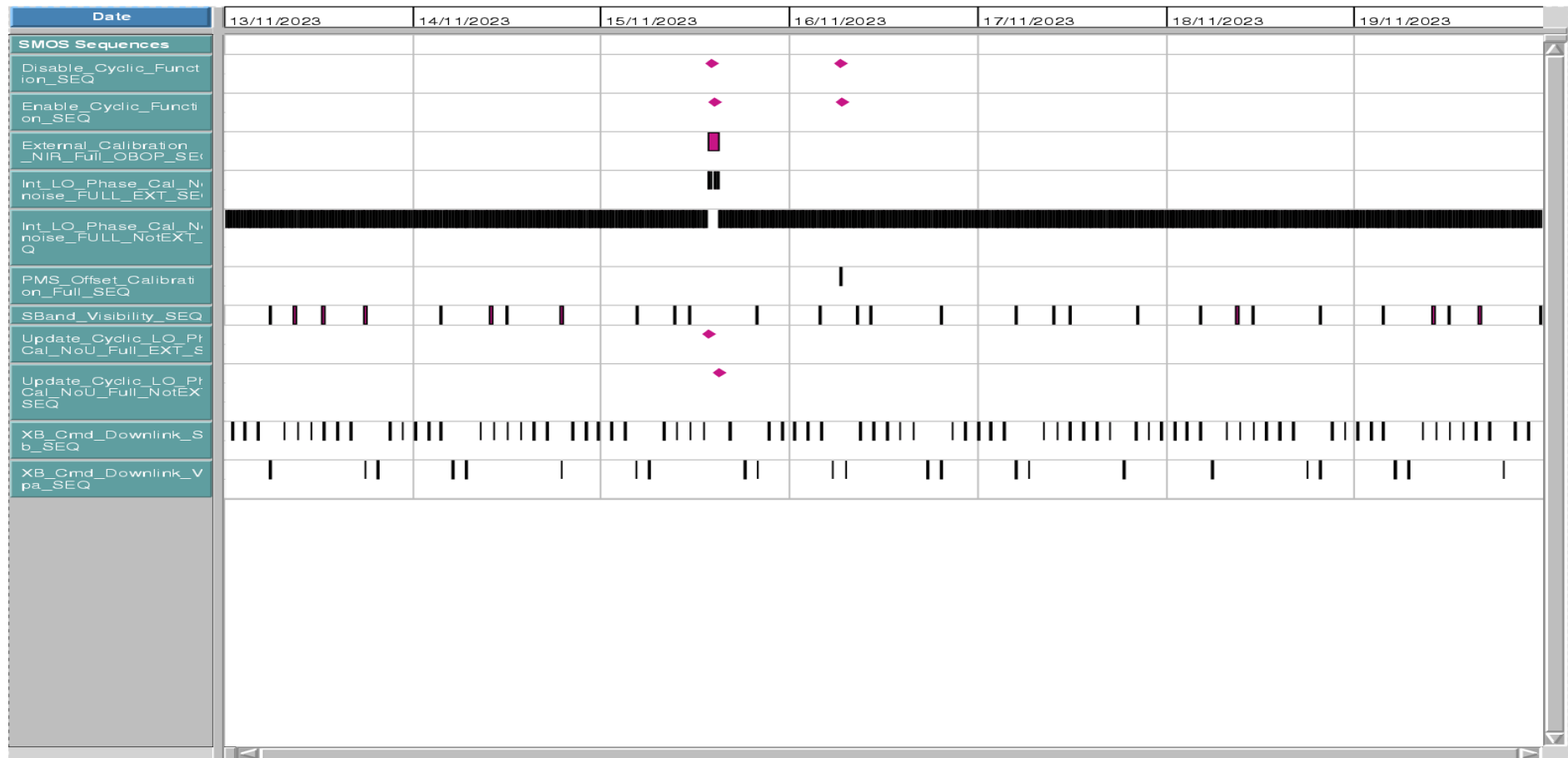
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Schedule Name: 2023_w46_cr ### Display start: 13-11-2023 00:00:00.000 ### Display end: 20-11-2023 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P9, latched up 2023-11-17T06:13:49,225z (DoY 321). The following parameters went out of limits in the PLPC system:

2023.321.06:13:49,225z	DMASME03	LU Switch P9
2023.321.06:13:49,225z	DMASME37	SDD LU Detected

This anomaly was geolocated over the South Atlantic Ocean, westward of the Namibian coast:

LAT. = -25.90°
LONG. = 0.91°

There were no science data losses associated with this anomaly because it affected partition P9 (i.e. a spare partition), while the Read and Write pointers were in partitions P7 and P8, respectively. Recovery was executed together with that of P8 (latched up 2023-11-20T00:48:05,609z; DoY 324), 20 NOV 2023, at 18:30:00z (CRF N° 1163).

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

READ = 3358445 (partition P7)
WRITE = 3569870 (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 P9, latched up 2023-11-17T06:13:49,225z (DoY 321):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.321.10.00.25,493	2023.321.06.13.49,225	DMASME03	LU Switch P9	OFF	ON
2023.321.10.00.25,492	2023.321.06.13.49,225	DMASME37	SDD LU Detected	FALSE	TRUE