



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 21, year 2023

from 22 MAY 2023 to 29 MAY 2023

1.0

1 General Comments

Activities scheduled for this week are those planned for the 21st calendar week of 2023:

22 MAY 2023 to 29 MAY 2023 (DoYs 142 to 149).

The following routine activities were planned this week (see Gantt chart on next page and CRF n° 1121).

- One Warm NIR Calibration on 24 MAY 2023 (DoY 144) with ETO 05:09:58z (orbit 71243; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.51°
R.M.S.	=	0.11
Sun elevation	=	7.01°
Moon elevation	=	53.29°
R.A.	=	157.66°
DEC.	=	39.51°
- One PMS Offset on 25 MAY 2023 (DoY 145), including three Short Calibrations at 06:45:00.0z, 06:45:34.8z, and 06:46:09.6z (orbit 71258).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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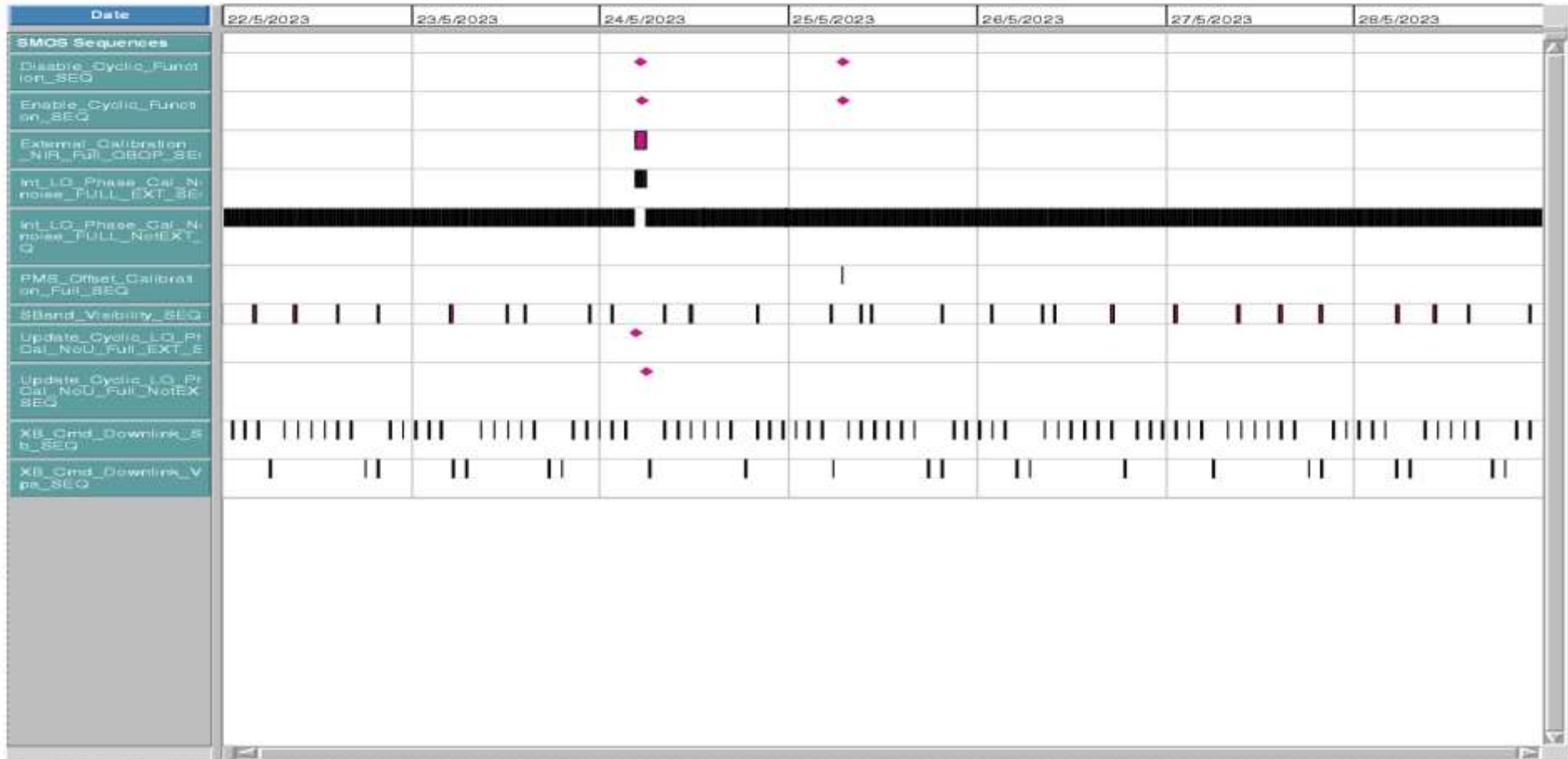
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Schedule Name: 2023_w21_01 ### Display start: 22-05-2023 00:00:00.000 ### Display end: 29-05-2023 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P6, latched up 2023-05-23T07:52:35z (DoY 143). The following parameters went out of limits in the PLPC system:

```
2023.143.07:52:35z    DMASME06    LU Switch P6
2023.143.07:52:35z    DMASME37    SDD LU Detected
```

This anomaly was geolocated over Tasmania (Australia):

```
LAT.   = -44.85°
LONG.  = 143.68°
```

There were no science data losses associated with this anomaly because it affected partition P6 while the Read and Write pointers were both in partition P5. Recovery took place Tuesday 23 MAY 2023 at 23:00:00z (CRF No. 1123).

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

```
READ   = 2273442 (partition P5)
WRITE  = 2409990 (partition P5)
```

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 PXM

None, all S band passes successfully received and processed.

9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument MM, partition P6, latched up 2023-05-23T07:52:35z (DoY 143):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.143.12.32.11	2023.143.07.52.35	DMASME06	LU Switch P6	OFF	ON
2023.143.12.32.11	2023.143.07.52.35	DMASME37	SDD LU Detected	FALSE	TRUE