



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 22, year 2023

from 29 MAY 2023 to 05 JUN 2023

1.0

1 General Comments

Activities scheduled for this week are those planned for the 22nd calendar week of 2023:

29 MAY 2023 to 05 JUN 2023 (DoYs 149 to 156).

The following routine activities were planned this week (see Gantt chart on next page and CRF n° 1124).

- One PMS Offset on 01 JUN 2023 (DoY 152), including three Short Calibrations at 07:14:30.0z, 07:15:04.8z, and 07:15:39.6z (orbit 71359).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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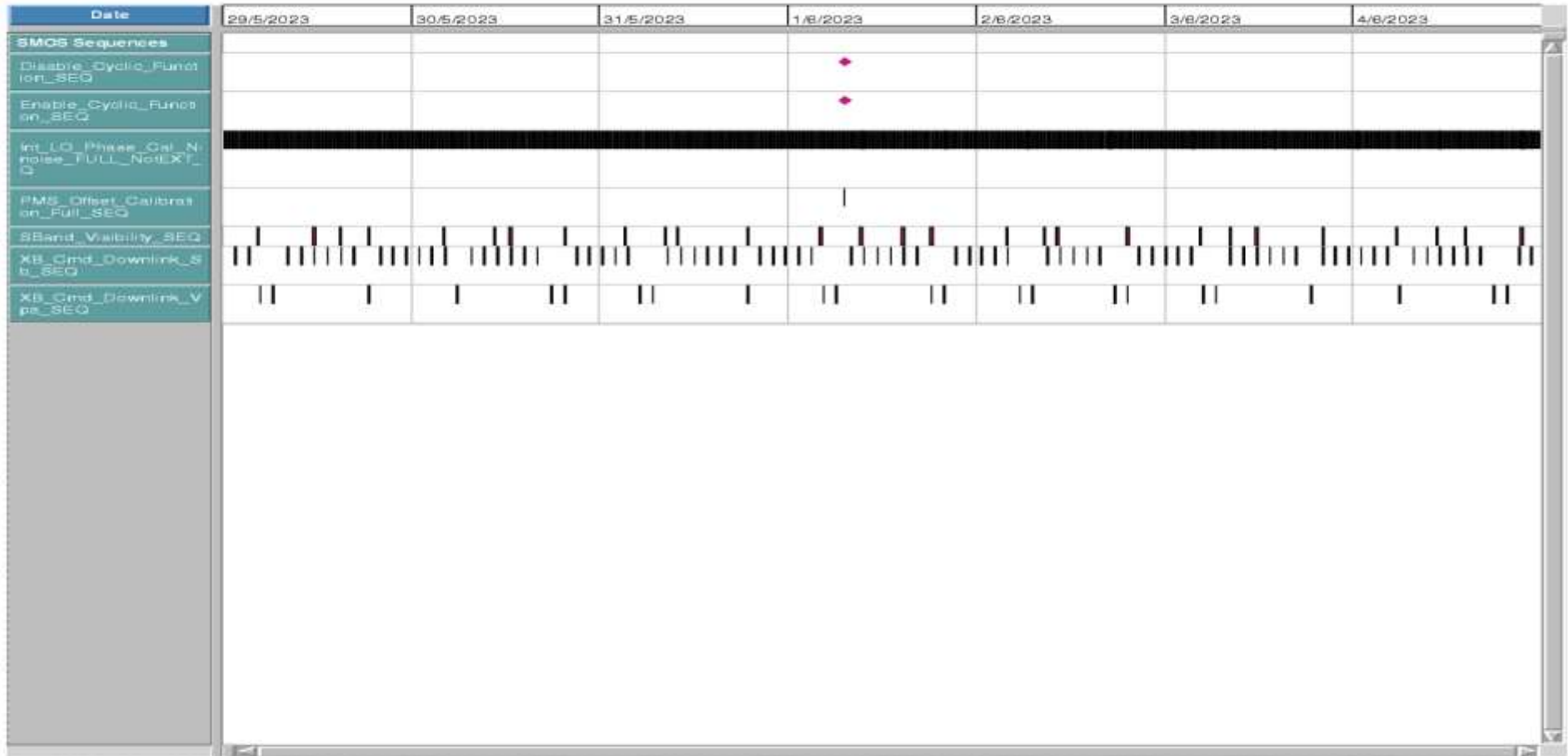
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Schedule Name: 2023_w22_es ### Display start: 29-05-2023 00:00:00.000 ### Display end: 05-06-2023 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P7, latched up 2023-05-29T00:00:39z (DoY 149). The following parameters went out of limits in the PLPC system:

```
2023.149.00:00:39z    DMASME05    LU Switch P7
2023.149.00:00:39z    DMASME37    SDD LU Detected
```

This anomaly was geolocated over the Archipelago of Svalbard (Norway):

LAT. = 81.44°

LONG. = 11.22°

There were science data losses associated with this anomaly because it affected partition P7, while the Read and Write pointers were in partitions P6 and P7, respectively. The gap went:

from 2023-04-27T05:54:17z to 2023-04-27T06:51:35z.

Recovery took place Tuesday 30 MAY 2023, at 13:00:00z (CRF N° 1125).

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

READ = 2863368 (partition P6)

WRITE = 3126881 (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	WARNING	2023.155.07.49.57	2242A1C

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.



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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 P7, latched up 2023-05-29T00:00:39z (DoY 149):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.149.04.47.39	2023.149.00.00.39	DMASME05	LU Switch P7	OFF	ON
2023.149.04.47.39	2023.149.00.00.39	DMASME37	SDD LU Detected	FALSE	TRUE