



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 43, year 2023**

from 23 OCT 2023 to 30 OCT 2023

**1.0**

### 1 General Comments

Activities scheduled for this week are those planned for the 43<sup>rd</sup> calendar week of 2023:

23 OCT 2023 to 30 OCT 2023 (DoYs 296 to 303).

The following routine activities were planned this week (see Gantt chart on next page and CRF n° 1157).

- One PMS Offset on 26 OCT 2023 (DoY 299), including three Short Calibrations at 05:11:00.0z, 05:11:34.8z, and 05:12:09.6z (orbit 73473).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.
- One PROTEUS Gyro Calibration on 24 OCT 2023, starting 01:20:17z, ending 03:00:30z. MIRAS ITL was disabled between these two times and science data marked with an external APID. The following Svalbard GS X band pass had to be suppressed (AoS= 2023-10-24T02:12:21z, LoS= 2023-10-24T02:22:48z).

### 2 Mission Planning Deviations

None.



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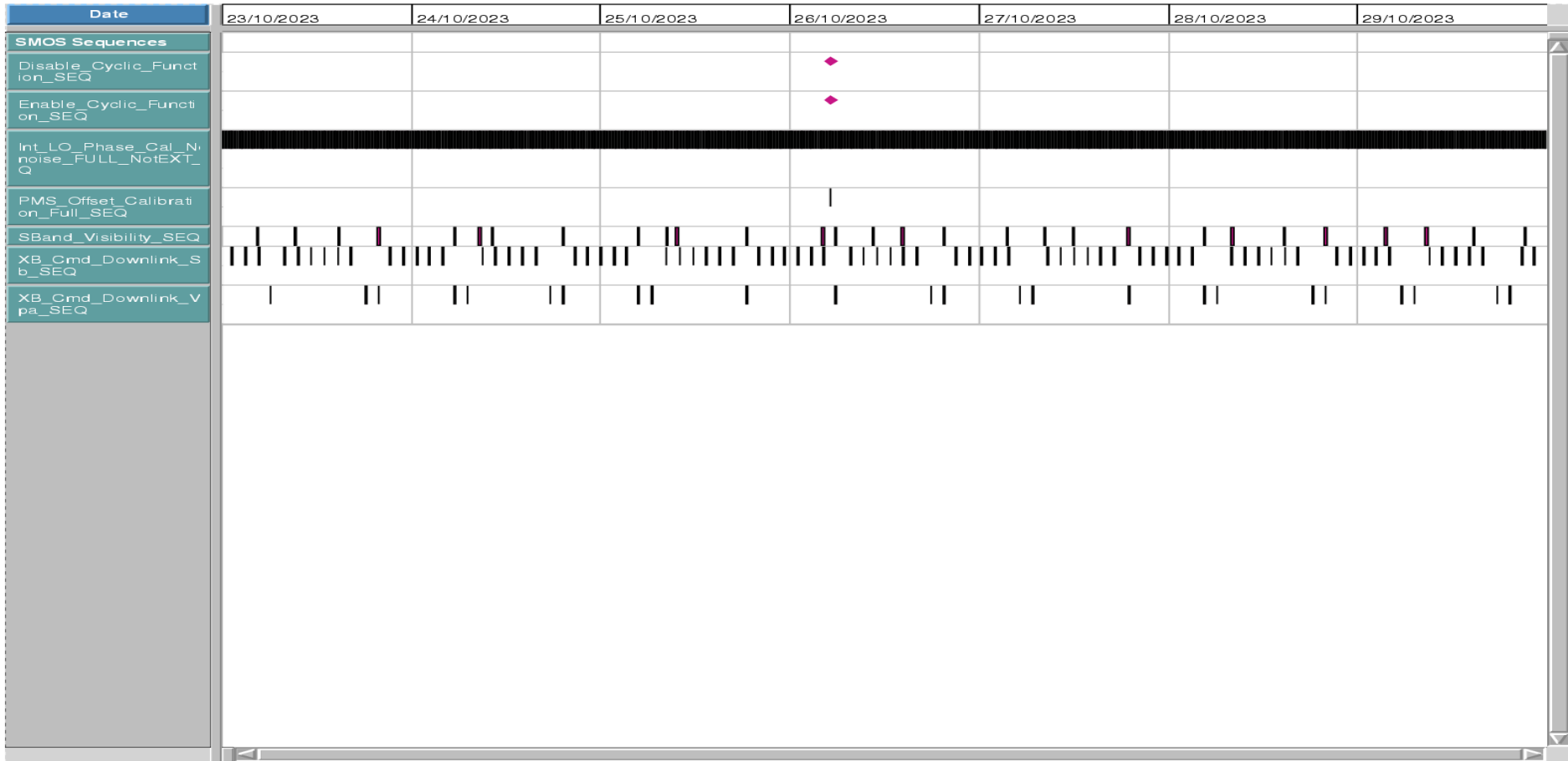
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Schedule Name: 2023\_w43\_cr ### Display start: 23-10-2023 00:00:00.000 ### Display end: 30-10-2023 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

None.

### 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	2023.296.23.08.16,965	211C308
RAM Single Bit Error	730	WARNING	2023.301.22.35.02,563	2328594

### 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.

### 10 AOB

- **Thermal control in segment A1:**

Consequence of MIRAS A1 segment thermal degradation, and because of the seasonal Sun elevation over the antenna plane, CMN A1 duty cycle ceased activation 24 OCT 2023 at 23:15:42z. For reference, in 2022 CMN A1 duty cycle activation ceased October 26<sup>th</sup>. Temperature behaviour and profile appear very close both yearly periods.

A first annual maximum in temperature is anticipated around 10 NOV 2023, with values close to 30°C, immediately before commencement of the annual eclipse season, 13 NOV 2023.



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Graph below showcases the evolution of LICEF A4 temperature for both years 2022 and 2023.

