



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 26, year 2023**

from 26 JUN 2023 to 03 JUL 2023

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 26<sup>th</sup> calendar week of 2023:

26 JUN 2023 to 03 JUL 2023 (DoYs 177 to 184).

The following routine activities were planned this week (see Gantt chart on next page and CRF n° 1130).

- One Warm NIR Calibration on 28 JUN 2023 (DoY 179) with ETO 05:48:20z (orbit 71747; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.51°
R.M.S.	=	0.13
Sun elevation	=	9.23°
Moon elevation	=	40.48°
R.A.	=	191.72°
DEC.	=	36.82°

- Two LONG Calibrations on 28 JUN 2023 (DoY 179), which encompassed two ascending semi-orbital periods starting at 14:28:00z (orbit 71752) and 16:10:00z (orbit 71753).
- One FTR Calibration on 30 JUN 2023 (DoY 181) with ETO 17:02:42z (orbit 71782; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.65°
R.M.S.	=	0.05
Sun elevation	=	-8.00°
Moon elevation	=	-22.61°
R.A.	=	12.78°
DEC.	=	-30.47°

- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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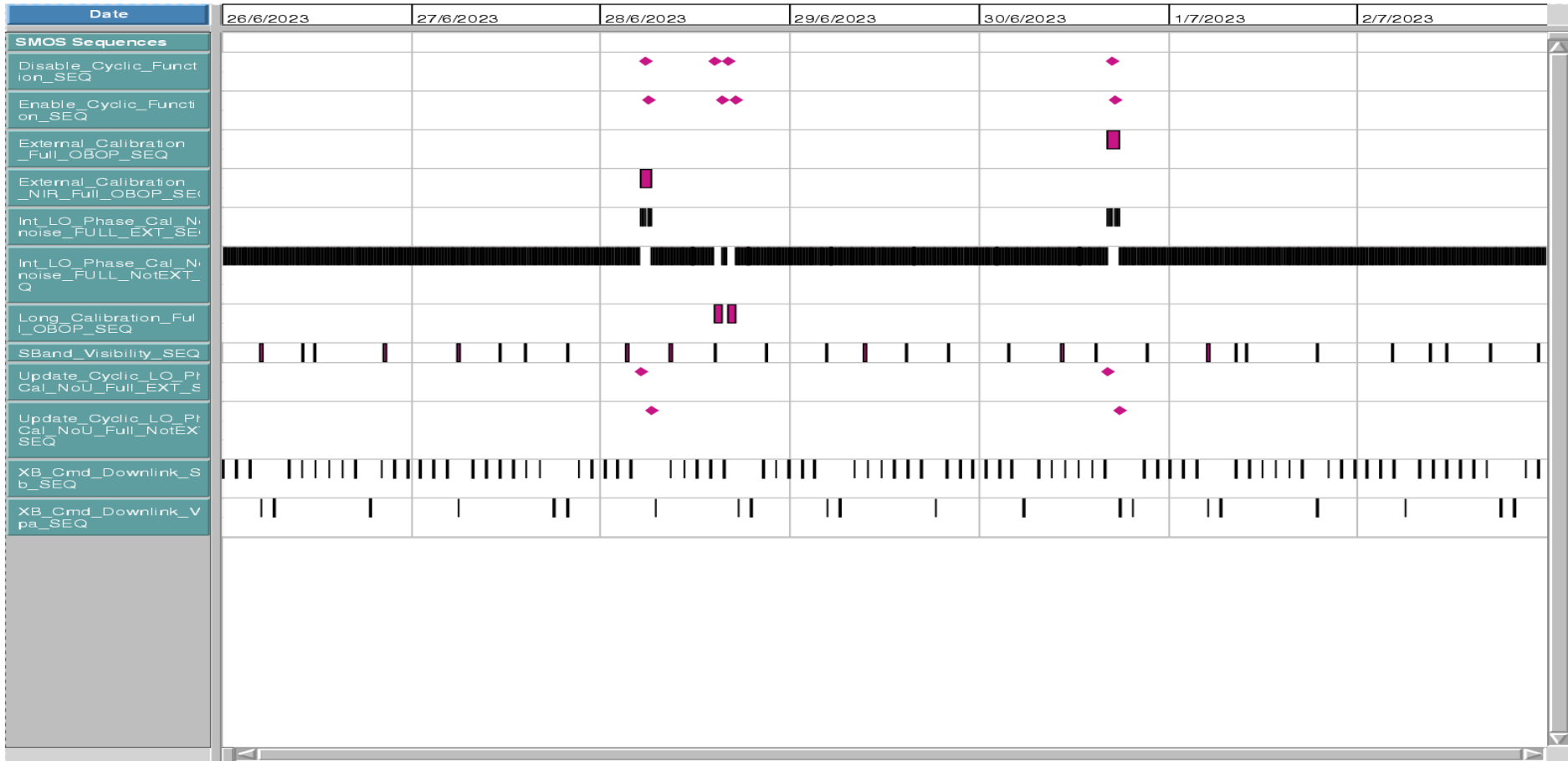
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Schedule Name: 2023\_w26\_cr ### Display start: 26-06-2023 00:00:00.000 ### Display end: 03-07-2023 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit H3, unlocked 2023-06-30T10:25:56z (DoY 181). This anomaly was geolocated over the Departamento de Santa Cruz (Bolivia):

*LAT.* =  $-18.01^\circ$

*LONG.* =  $296.53^\circ$

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 11 epochs.

### 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	2023.181.10.32.23	213832C

### 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

None.



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## APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument CMN, unit H3, unlocked 2023-06-30T10:25:56z (DoY 181):

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2023.181.10.58.26	2023.181.10.25.55	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2023.181.10.58.26	2023.181.10.26.01	SPM13167	H3 LO_Locking	UNLOCK	LOCK