



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 14, year 2023**

from 03 APR 2023 to 10 APR 2023

**1.0**

### 1 General Comments

Activities scheduled for this week are those planned for the 14<sup>th</sup> calendar week of 2023:

03 APR 2023 to 10 APR 2023 (DoYs 093 to 100).

The following routine activities were planned this week (see Gantt chart on next page and CRF n° 1111).

- One PMS Offset on 06 APR 2023 (DoY 096), including three Short Calibrations at 06:52:30.0z, 06:53:04.8z, and 06:53:39.6z (orbit 70553).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.
- A routine Orbit Correction Manoeuvre (OCM) was scheduled for 05 APR 2023 at 23:10:42z, with an SMA change aimed for 228 m. The affected time period went from 2023-04-05T23:00:06z to 2023-04-05T23:19:55z. Science data for that period was flagged with an external APID. No X band GS passes conflicted with this OCM.

### 2 Mission Planning Deviations

None.



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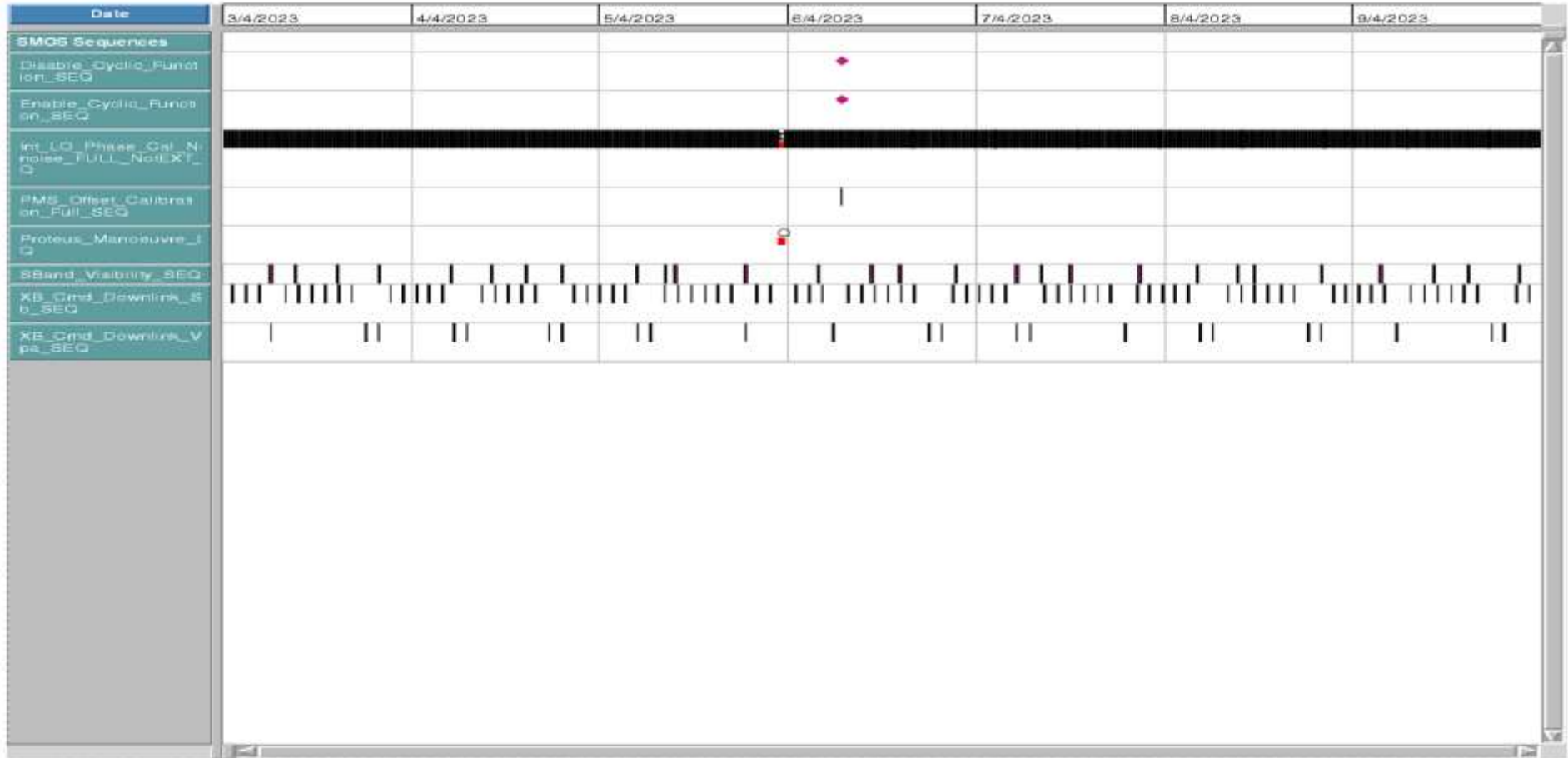
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Schedule Name: 2023\_w14\_es ### Display start: 03-04-2023 00:00:00.000 ### Display end: 10-04-2023 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit B3, unlocked 2023-04-03T20:16:05z (DoY 093). This anomaly was geolocated over the South Atlantic Ocean, off the coast of the Estado do Rio Grande do Sul (Brazil):

*LAT.* =  $-32.95^\circ$

*LONG.* =  $320.76^\circ$

Both parameters, output power SPM19162 and locking status SPM19167, went out of limits in the FOS PLPC system. The anomaly recovered in 13 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	2023.093.10.37.27	22F0EBC
RAM Single Bit Error	730	WARNING	2023.093.23.13.41	20E762C

### 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 B3, unlocked 2023-04-03T20:16:05z (DoY 093):

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2023.094.05.25.36	2023.093.20.16.05	SPM19162	B3 LO_Out_Power	NOT-OK	OK
2023.094.05.25.36	2023.093.20.16.10	SPM19167	B3 LO_Locking	UNLOCK	LOCK