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## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 27, year 2024**

from 01 JUL 2024 to 08 JUL 2024

**1.0**

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### 1 General Comments

Activities scheduled for this week are those planned for the 27<sup>th</sup> calendar week of 2024:

01 JUL 2024 to 08 JUL 2024 (DoYs 183 to 190).

The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1203).

- One PMS Offset on 04 JUL 2024 (DoY 186), including three Short Calibrations at 06:41:00.0z, 06:41:34.8z, and 06:42:09.6z (orbit 77100).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



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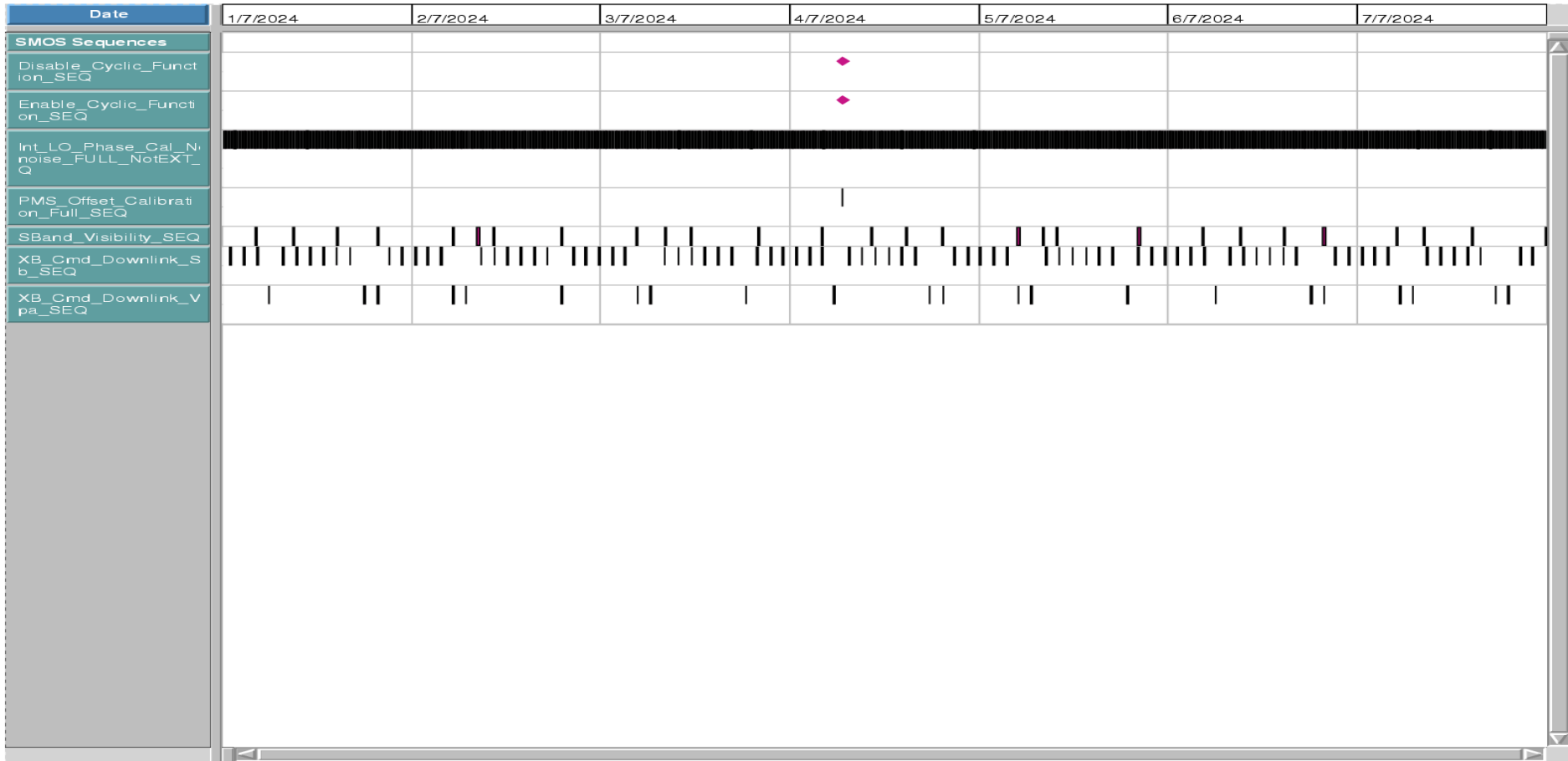
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Schedule Name: 2024\_w27\_cr ### Display start: 01-07-2024 00:00:00.000 ### Display end: 01-07-2024 16:48:18.000





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## 3 TC Failures

None.

## 4 On Board Anomalies

- The MIRAS CMN, unit H3, unlocked 2024-07-04T10:20:30,293z (DoY 186). This anomaly was geolocated over the Provincia del Chaco (Argentina):

LAT. = -27.04°

LONG. = 299.41°

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 15 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	WARN	2024.186.18.45.46,602	234E410

## 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, with the following exceptions:

- S band GS passes:

STATION	PASS	AoS	LoS
STC	03	2024-07-02T05:10:47z	2024-07-02T05:25:28z

contained 9 HKTM gaps because of an issue with the receiving station.

Gaps spanned over the range:

### PUS HKTM

from 2024-07-01T21:29:20z to 2024-07-01T21:57:02z; 2725 packets lost over several gaps

### E HKTM

from 2024-07-01T21:43:17z to 2024-07-01T22:12:05z



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### 8 X Band Data Reception in PXMF

- To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system 02 JUL 2024. The corresponding E HKTM was lost.

### 9 Exceptional Activities

None.

### 10 AOB

None.



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## APPENDIX A: OOL s

The following OOLs befell at the time the MIRAS instrument, CMN unit H3, unlocked 2024-07-04T10:20:30,293z (DoY 186):

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2024.186.10.54.32,878	2024.186.10.20.30,293	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2024.186.10.54.33,020	2024.186.10.20.35,093	SPM13167	H3 LO_Locking	UNLOCK	LOCK