

# **Operations Notes**

J. Fauste/J.M. Castro Cerón

FOS Team @ ESAC

Reported by: Issue:

FOS Report for week 42, year 2023

from 16 OCT 2023 to 23 OCT 2023

1.0

#### 1 General Comments

Activities scheduled for this week are those planned for the  $42^{nd}$  calendar week of 2023:

Topic:

Date:

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16 OCT 2023 to 23 OCT 2023 (DoYs 289 to 296).
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The following routine activities were planned this week (see Gantt chart on next page and CRF no 1155).

 One Warm NIR Calibration on 18 OCT 2023 (DoY 291) with ETO 15:43:38z (orbit 73364; ASCENDING: thermally STABLE) and with the following expected calibration values:

> B.T. = 3.88° R.M.S. = 0.64 Sun elevation = 9.89° Moon elevation = -23.11° R.A. = 119.33° DEC. = -19.54°

- Two LONG Calibrations on 19 OCT 2023 (DoY 292), which encompassed two ascending semi-orbital periods starting at 14:30:00z (orbit 73378) and 16:11:00z (orbit 73379).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

#### 2 Mission Planning Deviations

None.



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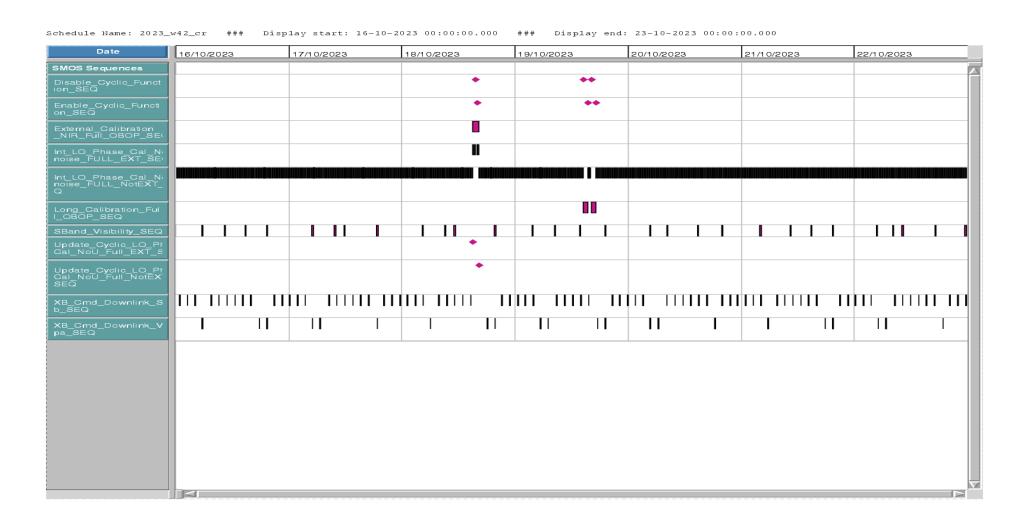
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# TC Failures

None.

#### 4 On Board Anomalies

• MIRAS instrument MM, partition P11, latched up 2023-10-16T08:41:11z (DoY 289). The following parameters went out of limits in the PLPC system:

Topic:

Date:

Issue:

This anomaly was geolocated mid-way between the coast of the Estado do Espírito Santo and the Ilha da Trindade (Brazil):

 $LAT. = -21.48^{\circ}$  $LONG. = 323.38^{\circ}$ 

There were no science data losses associated with this anomaly because it affected partition P11 (i.e. a spare partition), while the Read and Write pointers were both in partition P6. Recovery took place Monday 16 OCT 2023, at 10:54:00z (CRF n° 1156), together with latchups in P0 and P4 (see FWR from last week).

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

READ = 2814733 (partition P6) WRITE = 3006576 (partition P6)

## 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	2023.236.21.57.10	20E2C98

## 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 pass:

STATION	PASS	AoS	LoS
STC	24	2023.289.05.31.27	2023.289.05.46.07



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contained 6 TM gaps because of an issue with the receiving station.

Gaps spanned over the range:

#### PUS HKTM

STC-24

from 2023-10-16T00:30:26z to 2023-10-16T00:37:51

#### 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 16 OCT 2023. The corresponding E HKTM was lost.

## 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 P11, latched up 2023-10-16T08:41:11z (DoY 289):

Issue:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.289.10.48.06	2023.289.08.41.11	DMASME01	LU Switch P11	OFF	ON
2023.289.10.48.06	2023.289.08.41.11	DMASME37	SDD LU Detected	FALSE	TRUE