



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 28, year 2023**

from 10 JUL 2023 to 17 JUL 2023

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 28<sup>th</sup> calendar week of 2023:

10 JUL 2023 to 17 JUL 2023 (DoYs 191 to 198).

The following routine activities were planned this week (see Gantt chart on next page and CRF n° 1032).

- One Warm NIR Calibration on 12 JUL 2023 (DoY 193) with ETO 05:05:52z (orbit 71948; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.59°
R.M.S.	=	0.18
Sun elevation	=	7.19°
Moon elevation	=	-42.11°
R.A.	=	203.64°
DEC.	=	27.80°
- One PMS Offset on 13 JUL 2023 (DoY 194), including three Short Calibrations at 06:37:30.0z, 06:38:04.8z, and 06:38:39.6z (orbit 71963).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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Schedule Name: 2023\_w28\_cr ### Display start: 10-07-2023 00:00:00.000 ### Display end: 17-07-2023 00:00:00.000

Date	10/7/2023	11/7/2023	12/7/2023	13/7/2023	14/7/2023	15/7/2023	16/7/2023
<b>SMOS Sequences</b>							
Disable_Cyclic_Funct ion_SEQ			◆	◆			
Enable_Cyclic_Funct on_SEQ			◆	◆			
External_Calibration _NIR_Full_OBOP_SEQ			█				
Int_LO_Phase_Cal_N oise_FULL_EXT_SEQ			█				
Int_LO_Phase_Cal_N oise_FULL_NotEXT_ Q							
PMS_Offset_Calibrati on_Full_SEQ							
SBand_Visibility_SEQ							
Update_Cyclic_LO_Pt Cal_NoU_Full_EXT_S			◆				
Update_Cyclic_LO_Pt Cal_NoU_Full_NotEX SEQ			◆				
XB_Cmd_Downlink_S b_SEQ							
XB_Cmd_Downlink_V pa_SEQ							



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## 3 TC Failures

None.

## 4 On Board Anomalies

- The MIRAS instrument CMN, unit H1, unlocked 2023-07-10T10:35:29z (DoY 191). This anomaly was geolocated over the Provincia de Salta (Argentina):

*LAT.* = -22.24°

*LONG.* = 294.85°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 4 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	2023.193.23.53.47	21FCBF0
RAM Single Bit Error	730	WARNING	2023.197.04.06.26	212DA78

## 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:

<i>STATION</i>	<i>PASS</i>	<i>AoS</i>	<i>LoS</i>
-----	-----	-----	-----
<i>STC</i>	<i>12</i>	<i>2023.197.05.12.49</i>	<i>2023.197.05.27.30</i>

contained 33 TM gaps because of an issue with the receiving station.

Gaps spanned the range:

**PUS HKTM**

*STC-12*

*from 2023-07-15T19:39:15z to 2023-07-16T05:06:18z*



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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 17 JUL 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 CMN, unit H1, unlocked 2023-07-10T10:35:29z (DoY 191):

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2023.191.12.59.05	2023.191.10.35.29	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2023.191.12.59.05	2023.191.10.35.30	SPM11167	H1 LO_Locking	UNLOCK	LOCK