



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón/A. Vázquez

Topic: **FOS Report for week 34, year 2024**

Date: from 19 AUG 2024 to 26 AUG 2024

Issue: **1.0**

1 General Comments

Activities scheduled for this week are those planned for the 34th calendar week of 2024:

19 AUG 2024 to 26 AUG 2024 (DoYs 232 to 239).

The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1214).

- One Warm NIR Calibration on 21 AUG 2024 (DoY 234) with ETO 05:01:35z (orbit 77790; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	4.08°
R.M.S.	=	0.43
Sun elevation	=	2.12°
Moon elevation	=	-17.72°
R.A.	=	243.87°
DEC.	=	27.71°
- Two LONG Calibrations on 22 AUG 2024 (DoY 235), which encompassed two descending semi-orbital periods starting at 14:41:00z (orbit 77810) and 16:21:00z (orbit 77811).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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3 TC Failures

None.

4 On Board Anomalies

None.

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	2024.236.20.51.35.496	21CA3F0
RAM Single Bit Error	730	WARNING	2024.238.22.26.06.784	23E9114

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	20	2024-08-25T05:08:41z	2024-08-25T05:23:23z

contained 24 HKTM gaps because of an issue with the receiving station.

Gaps spanned over the range:

PUS HKTM

from 2024-08-24T21:26:11.033z to 2024-08-24T21:46:25.450z;

2210 packets lost

from 2024-08-24T21:46:26.650z to 2024-08-24T22:04:45.866z;

166 packets lost

over 23 gaps

E HKTM

from 2024-08-24T21:26:07z to 2024-08-24T21:49:35z

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 26 AUG 2024. The corresponding E HKTM was lost.



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9 Exceptional Activities

None.

10 AOB

None.

APPENDIX A: OOLs

No relevant OOLs.