



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 26, year 2024

from 24 JUN 2024 to 01 JUL 2024

1.0

1 General Comments

Activities scheduled for this week are those planned for the 26th calendar week of 2024:

24 JUN 2024 to 01 JUL 2024 (DoYs 176 to 183).

The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1202).

- One Warm NIR Calibration on 27 JUN 2024 (DoY 179) with ETO 05:39:15z (orbit 76999; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.51°
R.M.S.	=	0.12
Sun elevation	=	9.83°
Moon elevation	=	-51.64°
R.A.	=	192.12°
DEC.	=	39.73°

- Two LONG Calibrations on 27 JUN 2024 (DoY 179), which encompassed two ascending semi-orbital periods starting at 13:55:00z (orbit 77004) and 15:36:00z (orbit 77005).
- One FTR Calibration on 29 JUN 2024 (DoY 181) with ETO 16:54:29z (orbit 77034; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.64°
R.M.S.	=	0.05
Sun elevation	=	-8.00°
Moon elevation	=	50.89°
R.A.	=	12.44°
DEC.	=	-30.31°

- 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

- A MM double bit error impacted partition P5 2024-06-26T20:54:17,769z (DoY 178). The following parameters went out of limits in the PLPC system:

2024.178.20.54.17,769z DMASME44 DB Err In P5

This anomaly was geolocated over the Province of Heilongjiang (China):

LAT. = 51.07°

LONG. = 126.11°

At the time of the anomaly, the position of the MM pointers were as follows:

READ = 3087983 (partition P6)

WRITE = 3290207 (partition P7)

There were no science data losses associated with this anomaly because it affected partition P5, while the Read and Write pointers were in partitions P6 and P7, respectively.

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	2024.178.22.53.51	2052000
RAM Single Bit Error	730	WARN	2024.180.10.50.50	2002B7C

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.



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10 AOB

None.



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APPENDIX A: OOLs

The following OOLs befell at the time a double bit error impacted the MIRAS instrument MM, partition P5, 2024-06-26T20:54:18z (DoY 178):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2024.179.03.50.17	2024.178.20.54.18	DMASME44	DB Err In P5	FALSE	TRUE