



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 01, year 2024

From 01 JAN 2024 to 08 JAN 2024

1.0

1 General Comments

Activities scheduled for this week are those planned for the 01st calendar week of 2024:

01 JAN 2024 to 08 JAN 2024 (DoYs 001 to 008).

Mission Planning for this week was calculated together with that of week 52, year 2023. The current report contains only the events that occurred during week 01, year 2024. The Gantt chart included in this report is the one containing the two weeks combined.

The following routine activities were planned this week (see Gantt chart next page and CRF N° 1170):

- One Warm NIR Calibration on 06 JAN 2024 (DoY 006) with ETO 04:49:30z (orbit 74509; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.65°
R.M.S.	=	0.06
Sun elevation	=	9.98°
Moon elevation	=	-50.69°
R.A.	=	11.92°
DEC.	=	-17.74°

- Two LONG Calibrations on 06 JAN 2024 (DoY 006), which encompassed two ascending semi-orbital periods starting at 14:54:00z (orbit 74515) and 16:35:30z (orbit 74516).
- One FTR Calibration on 07 JAN 2024 (DoY 007) with ETO 16:43:51z (orbit 74531; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.53°
R.M.S.	=	0.15
Sun elevation	=	-14.67°
Moon elevation	=	25.08°
R.A.	=	191.68°
DEC.	=	27.66°

- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

CNES notified the need to execute a collision avoidance manoeuvre [CAM, estimated collision probability = $8.5e-04$]. The time of closest approach was forecast for Wednesday 03 JAN 2024 at 20:33z. The manoeuvre was scheduled for Wednesday 03 JAN 2024 at 19:43:07z.



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The MIRAS on-board timeline was disabled and the instrument science data flagged with external APID from 2024-01-03T19:34:20z to 2024-01-03T19:53:27z.

This special manoeuvre was computed and uploaded. Two exceptional S band GS passes were booked to upload the manoeuvre (IVK-16:06Z, and KRX-17:56Z as backup pass). The following X band GS pass was cancelled since the MIRAS ITL had been disabled: AoS=2024-01-03T19:46:35z; LoS=2024-01-03T19:52:35z.



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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	WARN	2024.006.09.06.53.336	200F5F4

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.

10 AOB

None.