



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 52, year 2023

from 25 DEC 2023 to 01 JAN 2024

1.0

1 General Comments

Activities scheduled for this week are those planned for the 52nd calendar week of 2023:

25 DEC 2023 to 01 JAN 2024 (DoYs 359/2023 to 001/2024).

Mission Planning for this week was calculated together with that of week 01, year 2024. The current report contains only the events that occurred during week 52, year 2023. 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 PMS Offset on 28 DEC 2023 (DoY 362), including three Short Calibrations at 05:58:00.0z, 05:58:34.8z, and 05:59:09.6z (orbit 74380).
- 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 = $8.6e-04$]. The time of closest approach was forecast for Friday 29 DEC 2023 at 21:11z. The manoeuvre was scheduled for Friday 29 DEC 2023 at 20:21:08z (burn 1) and Friday 29 DEC 2023 at 22:01:13z (burn 2).

The MIRAS on-board timeline was disabled and the instrument science data flagged with external APID from 2023-12-29T20:04:47z to 2023-12-29T22:11:00z. The commands for this special manoeuvre were uploaded during S band GS pass IVK with AoS=2023-12-29T14:18z. The following X band GS pass was cancelled since the MIRAS ITL had been disabled: AoS=2023-12-29T21:08:03z; LoS=2023-12-29T21:18:25z.



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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	2023.360.22.38.13.974	20193C8

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.