

FOS Team @ ESAC Reported by: Topic: Date: Issue:

FOS Report for week 03, year 2024 from 15 JAN 2024 to 22 JAN 2024

1.0

J. Fauste/J.M. Castro Cerón

#### 1 General Comments

Activities scheduled for this week are those planned for the  $03^{\rm rd}$  calendar week of 2024:

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15 JAN 2024 to 22 JAN 2024 (DoYs 015 to 022).
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The following routine activities were planned this week (see Gantt chart on next page and CRF N° 1172).

• One Warm NIR Calibration on 17 JAN 2024 (DoY 017) with ETO 04:20:50z (orbit 74667; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.64°
R.M.S.	=	0.06
Sun elevation	=	9.75°
Moon elevation	=	66.06°
R.A.	=	23.02°
DEC.	=	-16.09°

- One PMS Offset on 18 JAN 2024 (DoY 018), including three Short Calibrations at 07:20:40.0z, 07:21:14.8z, and 07:21:49.6z (orbit 74683).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

#### 2 Mission Planning Deviations

None.



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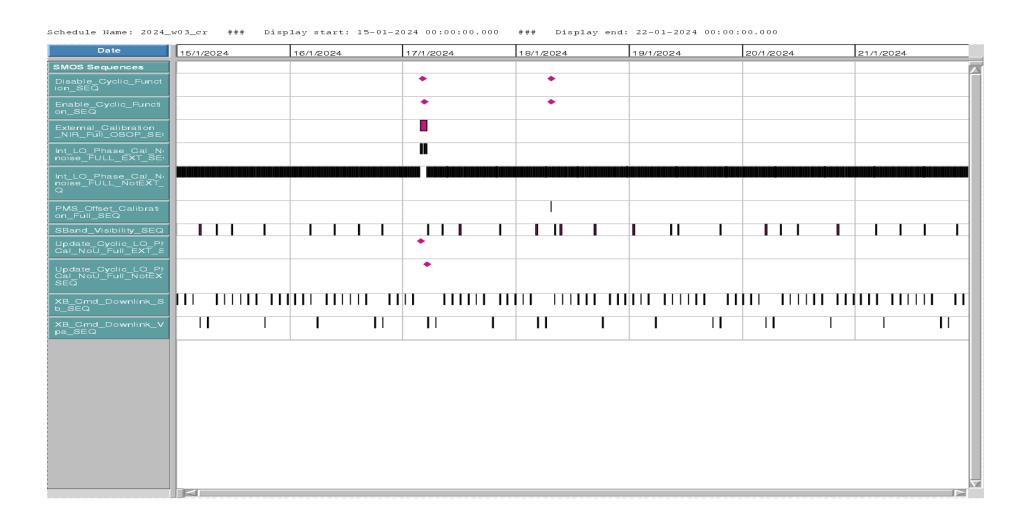
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#### 3 TC Failures

None.

#### 4 On Board Anomalies

• MIRAS instrument MM, partition P10, latched up 2024-01-20T21:51:02,210z (DoY 020). The following parameters went out of limits in the PLPC system:

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2024.020.21.51.02,210z DMASME02 LU Switch P10 2024.020.21.51.02,210z DMASME37 SDD LU Detected

This anomaly was geolocated over the northern part of the Krasnoyarsk Krai (Russia):

 $LAT. = 72.19^{\circ}$  $LONG. = 95.12^{\circ}$ 

There were no science data losses associated with this anomaly because it affected partition P10 (i.e. a spare partition), while the Read and Write pointers were in partitions P7 and P8, respectively. Recovery took place Monday 22 JAN 2024, at 20:00:00z (CRF n° 1175).

At the time of the anomaly the position of the MM pointers was as follows:

READ = 3492895 (partition P7) WRITE = 3743059 (partition P8)

#### 5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

<b>Event Description</b>	Packet ID	Severity	Event Time	Parameters
RAM Single Bit Error	730	WARNING	2024.015.10.21.23,806	238EC90
RAM Single Bit Error	730	WARNING	2024.021.21.47.49,440	212D008
RAM Single Bit Error	730	WARNING	2024.021.23.15.35,112	22C3C74

## 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.



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# 9 Exceptional Activities

None.

## **10 AOB**

None.



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## **APPENDIX A: OOLs**

The following OOLs befell at the time the MIRAS instrument MM, partition P10, latched up 2024-01-20T21:51:02,210z (DoY 020):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2024.021.04.41.41,866	2024.020.21.51.02,210	DMASME02	LU Switch P10	OFF	ON
2024.021.04.41.41,865	2024.020.21.51.02,210	DMASME37	SDD LU Detected	FALSE	TRUE