



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 17, year 2022**

from 25 APR 2022 to 02 MAY 2022

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 17<sup>th</sup> calendar week of 2022:

25 APR 2022 to 02 MAY 2022 (DOYs 115 to 122).

The following routine activities were planned this week (see Gantt chart on next page and CRF 1042).

- One Warm NIR Calibration on 27 APR 2022 (DOY 117) with ETO 17:17:00z (orbit 65610; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	4.52°
R.M.S.	=	1.51
Sun elevation	=	2.91°
Moon elevation	=	25.32°
R.A.	=	301.63°
DEC.	=	22.33°
- Two LONG Calibrations on 28 APR 2022 (DOY 118), which encompassed two ascending semi-orbital periods starting at 14:10:30z (orbit 65622) and 15:53:30z (orbit 65623).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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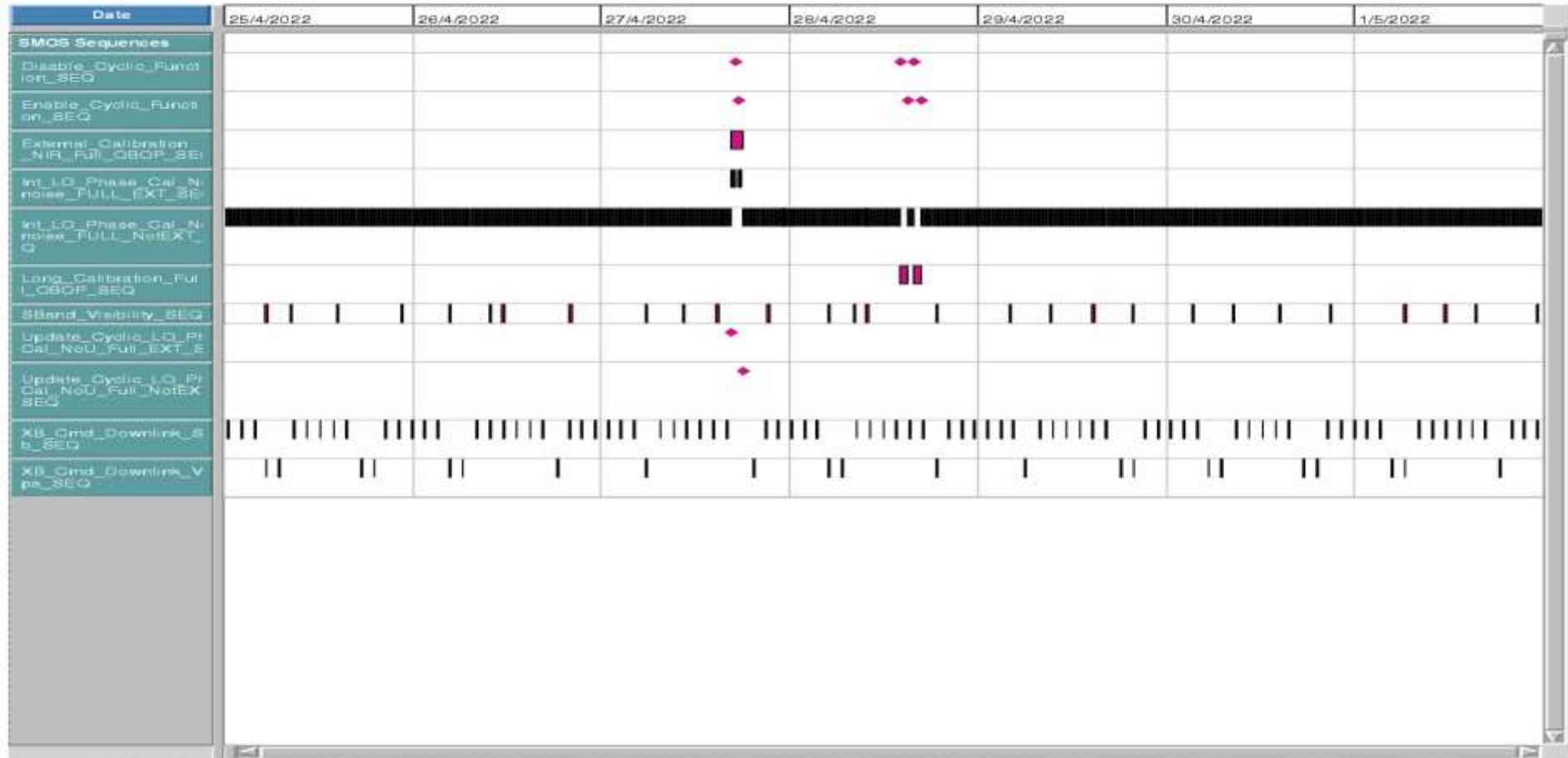
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Schedule Name: 2022\_w17\_es ### Display start: 25-04-2022 00:00:00.000 ### Display end: 02-05-2022 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS CMN, unit H1, unlocked 2022-04-29T09:07:04,909z (DOY 119). This anomaly was geolocated over the Estado de Minas Gerais (Brazil):

*Latitude* = -19.53°

*Longitude* = 316.55°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in few seconds.

### 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	2022-04-27T10:58	215F49C
RAM single Bit Error	730	WARN	2022-04-28T21:33	2095B20

### 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.



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## APPENDIX A: OOLs

The two following temporary out of limits were received on FOS PLPC system at the time of the CMN unlock on the 29<sup>th</sup> of April.

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2022-04-29T09:45:16	2022-04-29T09:07:04	SPM11167	H1 LO_Locking	UNLOCK	LOCK
2022-04-29T09:45:16	2022-04-29T09:07:04	SPM11162	H1 LO_Out_Power	NOT-OK	OK