



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 44, year 2020**

from 26 OCT 2020 to 02 NOV 2020

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 44<sup>th</sup> calendar week of 2020:

26 OCT 2020 to 02 NOV 2020 (DOYs 300 to 307).

The following routine activities were planned this week (see Gantt chart on next page and CRF 924).

- One Warm NIR Calibration on 28 OCT 2020 (DOY 302) with ETO 16:20:06z (orbit 57752; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.83°
R.M.S.	=	0.64
Sun elevation	=	9.96°
Moon elevation	=	-33.06°
R.A.	=	129.36°
DEC.	=	-15.4°

- One PMS Offset on 29 OCT 2020 (DOY 303), including three Short Calibrations at 05:18:00.0z, 05:18:34.8z, and 05:19:09.6z (orbit 57760).
- One special **HOT** NIR Calibration on 01 NOV 2020 (DOY 306) with ETO 01:46:09z (orbit 57801; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	4.35°
R.M.S.	=	1.29
Sun elevation	=	23.39°
Moon elevation	=	-21.82°
R.A.	=	167.79°
DEC.	=	-75.82°

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

## 2 Mission Planning Deviations

None.



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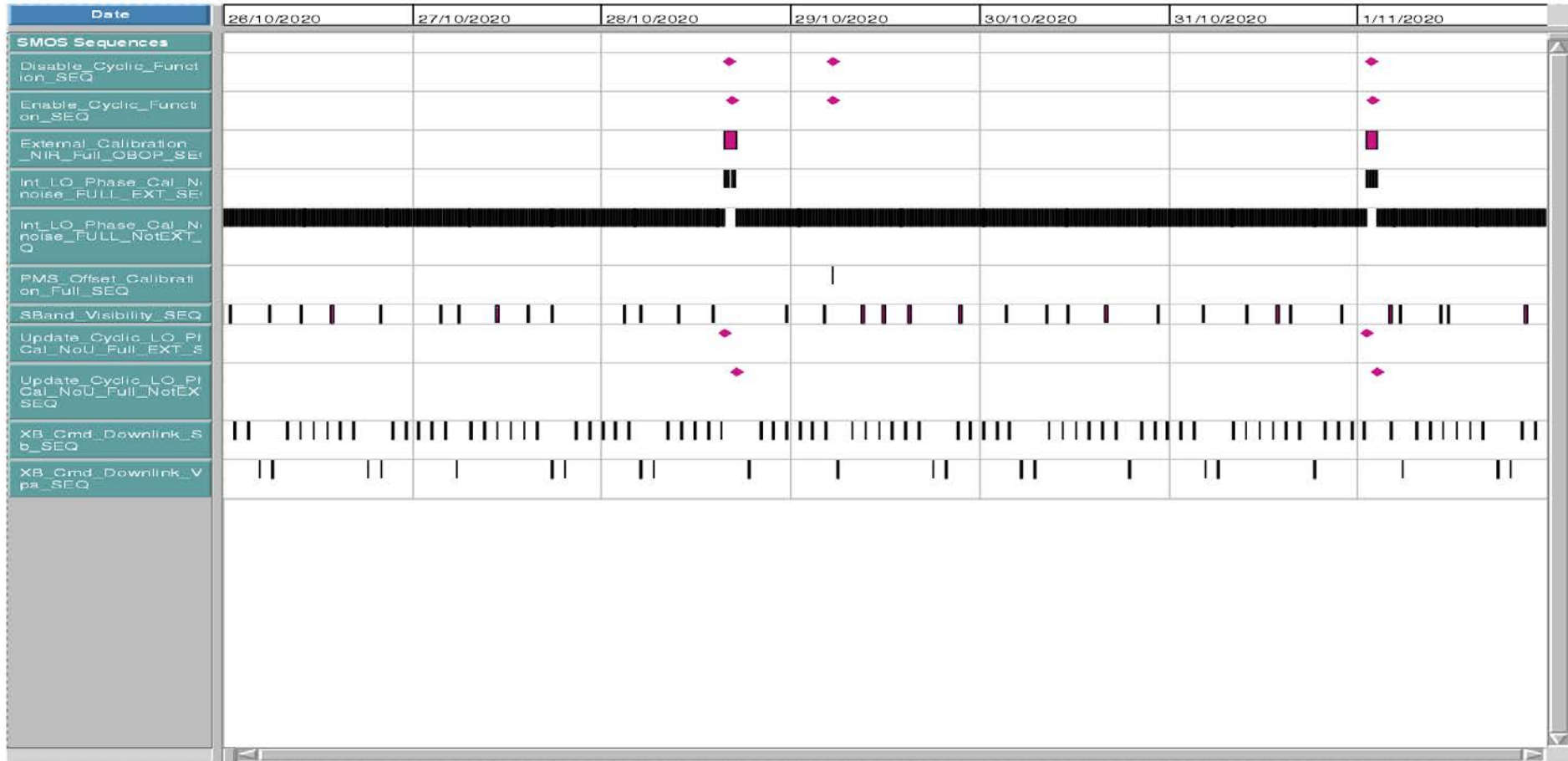
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Schedule Name: 2020\_w44\_cr ### Display start: 26-10-2020 00:00:00.000 ### Display end: 02-11-2020 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- Consequence of MIRAS A1 segment thermal degradation, and because of the seasonal Sun elevation over the antenna plane, CMN A1 duty cycle stopped working on 29 OCT 2020 at 00:20:00z. CMN2 temperatures remained within limits, though they increased slowly in the following few days, reaching a first relative maximum immediately before commencement of the annual eclipse season, 13 NOV 2020.

### 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	2020-10-31T19:07:03	215A590
RAM single Bit Error	730	WARN	2020-10-31T12:17:17	2348E40

### 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.

## APPENDIX A: OOLs

No relevant out of limits were received this week.