



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 08, year 2020**

from 17 FEB 2020 to 24 FEB 2020

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 08<sup>th</sup> calendar week of 2020:

17 FEB 2020 to 24 FEB 2020 (DOYs 048 to 055).

The following routine activities were planned this week (see Gantt chart on next page and CRF 867).

- One Warm NIR Calibration on 19 FEB 2020 (DOY 050) with ETO 04:09:06z (orbit 54119; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.71°
R.M.S.	=	0.11
Sun elevation	=	9.80°
Moon elevation	=	-29.38°
R.A.	=	54.98°
DEC.	=	-20.64°
- One PMS Offset on 20 FEB 2020 (DOY 051), including three Short Calibrations at 07:07:30.0z, 07:08:04.8z, and 07:08:39.6z (orbit 54135).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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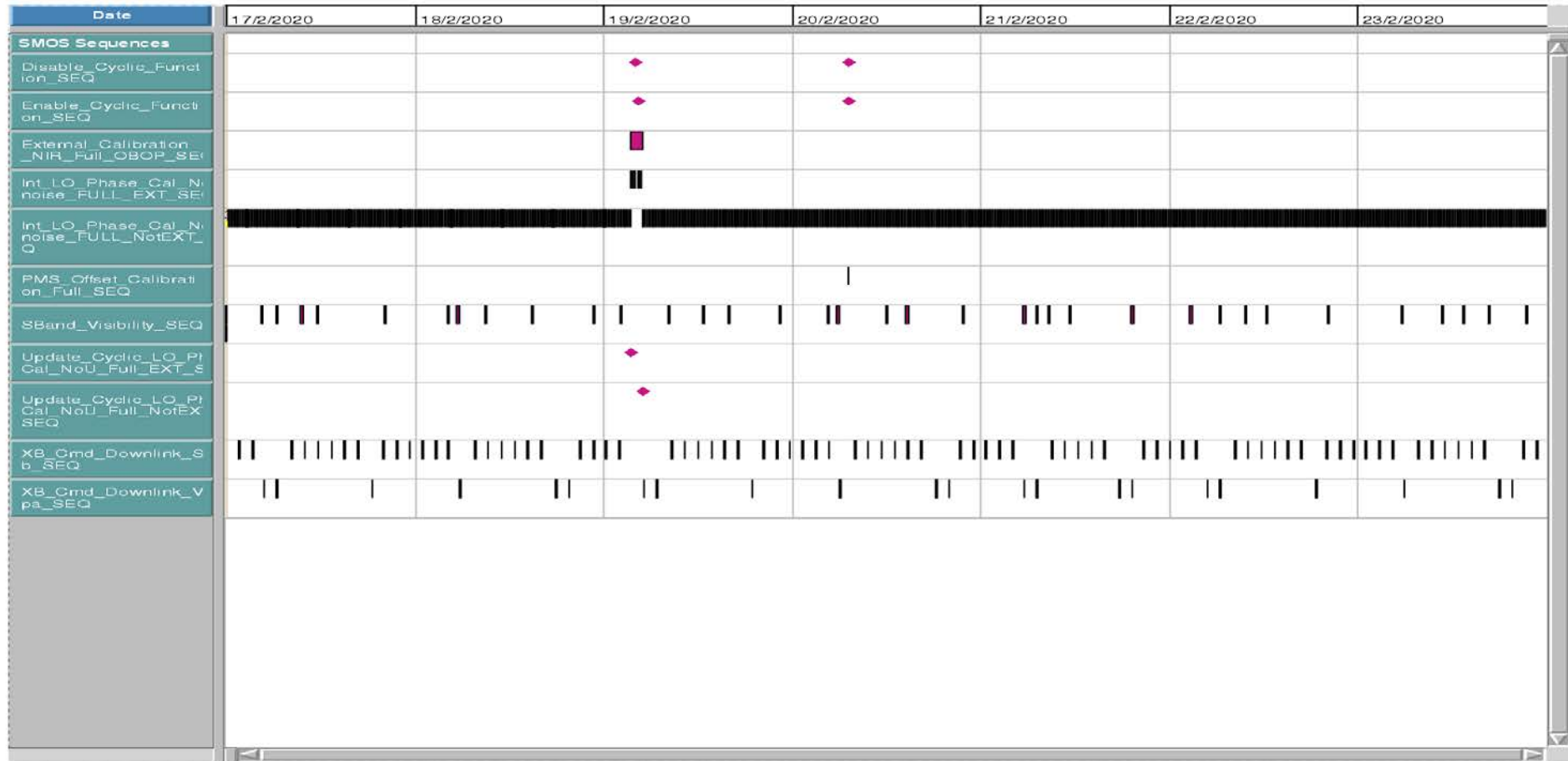
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Schedule Name: 2020\_w08\_cr ### Display start: 16-02-2020 23:46:54.946 ### Display end: 17-02-2020 16:36:18.946





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS CMN, unit H1, unlocked 2019-02-18T10:24:01.735z (DOY 049). This anomaly was geolocated over the province of Santa Fe de la Vera Cruz (Argentina):

*Latitude* =  $-30.46^{\circ}$

*Longitude* =  $299.30^{\circ}$

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 14 epochs.

### 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	2020-02-21T22:03:32	234831C
RAM single Bit Error	730	WARN	2020-02-21T18:22:21	23B0508

### 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

At the time of the CMN unlock anomaly on the 18<sup>th</sup> of February, the following two parameters went temporary out of limits on the FOS PLPC system.

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2020-02-18T15:21:06	2020-02-18T10:24:01	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2020-02-18T15:21:07	2020-02-18T10:24:07	SPM11167	H1 LO_Locking	UNLOCK	LOCK