



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 36, year 2020**

from 31 AUG 2020 to 07 SEP 2020

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 36<sup>th</sup> calendar week of 2020:

31 AUG 2020 to 07 SEP 2020 (DOYs 244 to 251).

The following routine activities were planned this week (see Gantt chart on next page and CRF 910).

- One Warm NIR Calibration on 02 SEP 2020 (DOY 246) with ETO 15:55:12z (orbit 56946; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.79°
R.M.S.	=	0.33
Sun elevation	=	0.84°
Moon elevation	=	5.00°
R.A.	=	77.35°
DEC.	=	-32.58°
- One PMS Offset on 03 SEP 2020 (DOY 247), including three Short Calibrations at 06:37:00.0z, 06:37:34.8z, and 06:38:09.6z (orbit 56955).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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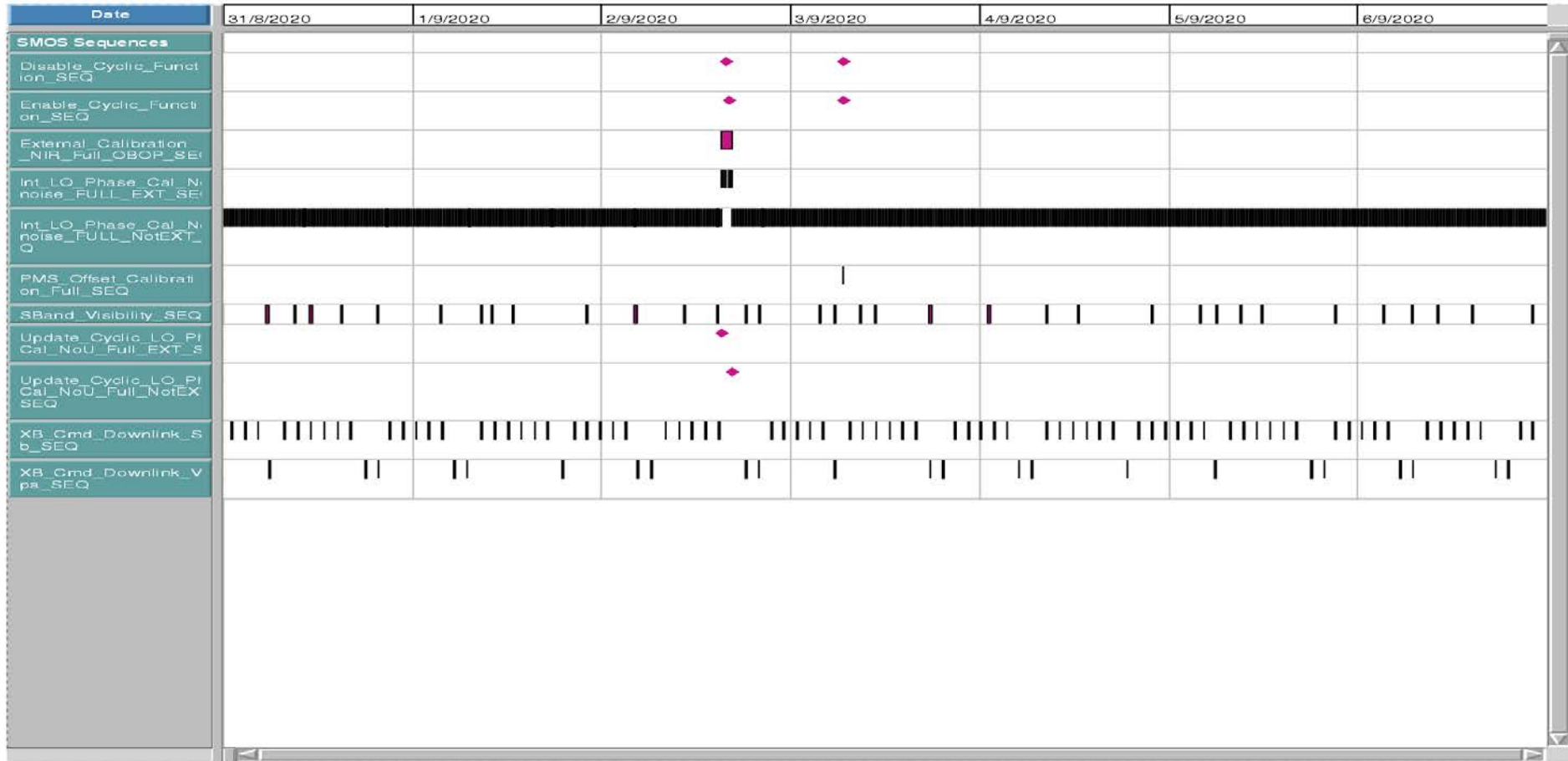
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Schedule Name: 2020\_w36\_cr ### Display start: 31-08-2020 00:00:00.000 ### Display end: 07-09-2020 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS CMN, unit H3, unlocked 2020-09-03T10:15:56.385z (DOY 247). This anomaly was geolocated over the Provincia de Entre Ríos (Argentina), nearing the border with Uruguay:

*Latitude* = -32.88°

*Longitude* = 301.82°

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 3 Epochs.

- The MIRAS CMN, unit H1, unlocked 2020-09-02T09:15:33.744z (DOY 246). This anomaly was geolocated just off the coast of Brazil, due east of the Estado do Rio Grande do Sul:

*Latitude* = -30.25°

*Longitude* = 316.37°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 11 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	2020-09-06T22:23:00	2263EA4
RAM single Bit Error	730	WARN	2020-09-03T00:24:03	20CB5B8

### 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

At the time of the H1 CMN unlock on the 2<sup>sd</sup> of September the following two temporary out of limits were received 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>
2020-09-02T11:02:30	2020-09-02T09:15:33	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2020-09-02T11:02:30	2020-09-02T09:15:40	SPM11167	H1 LO_Locking	UNLOCK	LOCK

The H3 CMN unlock anomaly generated the two following PLPC out of limits:

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2020-09-03T11:11:11	2020-09-03T10:15:56	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2020-09-03T11:11:11	2020-09-03T10:15:57	SPM13167	H3 LO_Locking	UNLOCK	LOCK