



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 28, year 2018**

from 09 JUL 2018 to 16 JUL 2018

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 28<sup>th</sup> calendar week of 2018:

09 JUL 2018 to 16 JUL 2018 (DOYs 190 to 197).

The following routine activities were planned this week (see Gantt chart on next page and CRF 752).

- One Warm NIR Calibration on 11 JUL 2018 (DOY 192) with ETO 05:20:22z (orbit 45659; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.57°
R.M.S.	=	0.15
Sun elevation	=	9.72°
Moon elevation	=	-12.13°
R.A.	=	206.53°
DEC.	=	40.95°
- One PMS Offset on 12 JUL 2018 (DOY 193), including three Short Calibrations at 06:56:00.0z, 06:56:34.8z, and 06:57:09.6z (orbit 45674).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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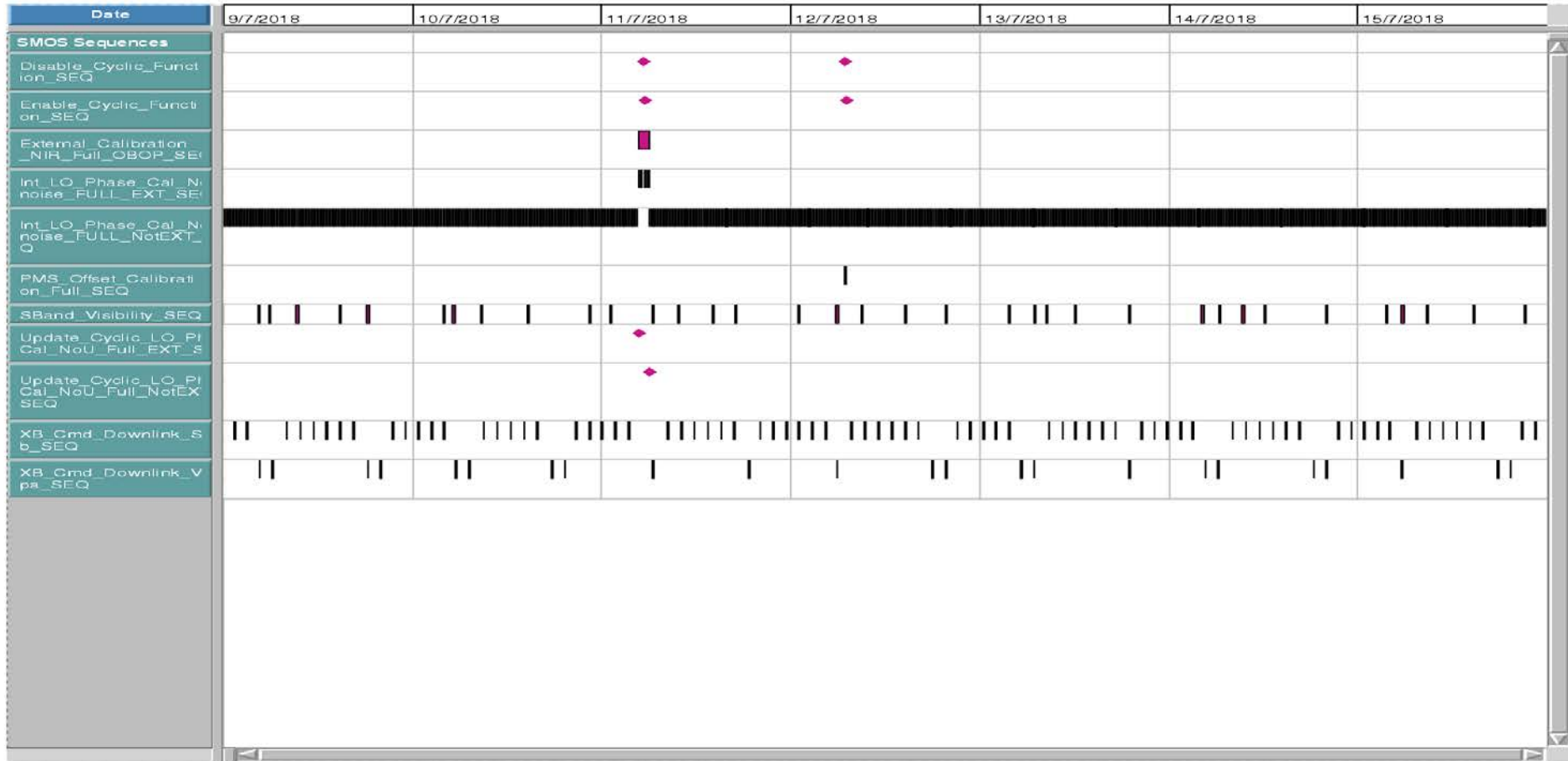
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Schedule Name: 2018\_w28\_cr ### Display start: 09-07-2018 00:00:00.000 ### Display end: 16-07-2018 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit B2, unlocked on 2018-07-14T22:00:08.027z (DOY 195). This anomaly was geolocated over the middle of the South Atlantic Ocean halfway between Salvador de Bahia and the island of Saint Helena (South Atlantic Anomaly):

*Latitude* = -15.53°

*Longitude* = 297.92°

Both parameters, output power SPM18162 and locking status SPM18167, went out of limits in the FOS PLPC system. The anomaly recovered by itself after a 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	2018-07-13T21:55:25	23E7D34

### 6 FOS Systems Status

The FOS ISDN line is still down and ESA will try to contact the City Hall office of Villaneuva de la Cañada, to check if the Telefonica register cover by cement, could be removed.

### 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 following two Telemetry parameters went temporary Out of Limits on PLPC system at the time of the CMN Unlock on the 14 of July.

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2018-07-15T04:10:58	2018-07-14T22:00:08	SPM18167	B2 LO_Locking	UNLOCK	LOCK
2018-07-15T04:10:58	2018-07-14T22:00:08	SPM18162	B2 LO_Out_Power	NOT-OK	OK