



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 23, year 2019**

from 03 JUN 2019 to 10 JUN 2019

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 23<sup>rd</sup> calendar week of 2019:

03 JUN 2019 to 10 JUN 2019 (DOYs 154 to 161).

The following routine activities were planned this week (see Gantt chart on next page and CRF 813).

- One Warm NIR Calibration on 05 JUN 2019 (DOY 156) with ETO 05:18:00z (orbit 50393; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.49°
R.M.S.	=	0.09
Sun elevation	=	5.49°
Moon elevation	=	26.11°
R.A.	=	166.83°
DEC.	=	25.96°
- One PMS Offset on 06 JUN 2019 (DOY 157), including three Short Calibrations at 06:49:30.0z, 06:50:04.8z, and 06:50:39.6z (orbit 50408).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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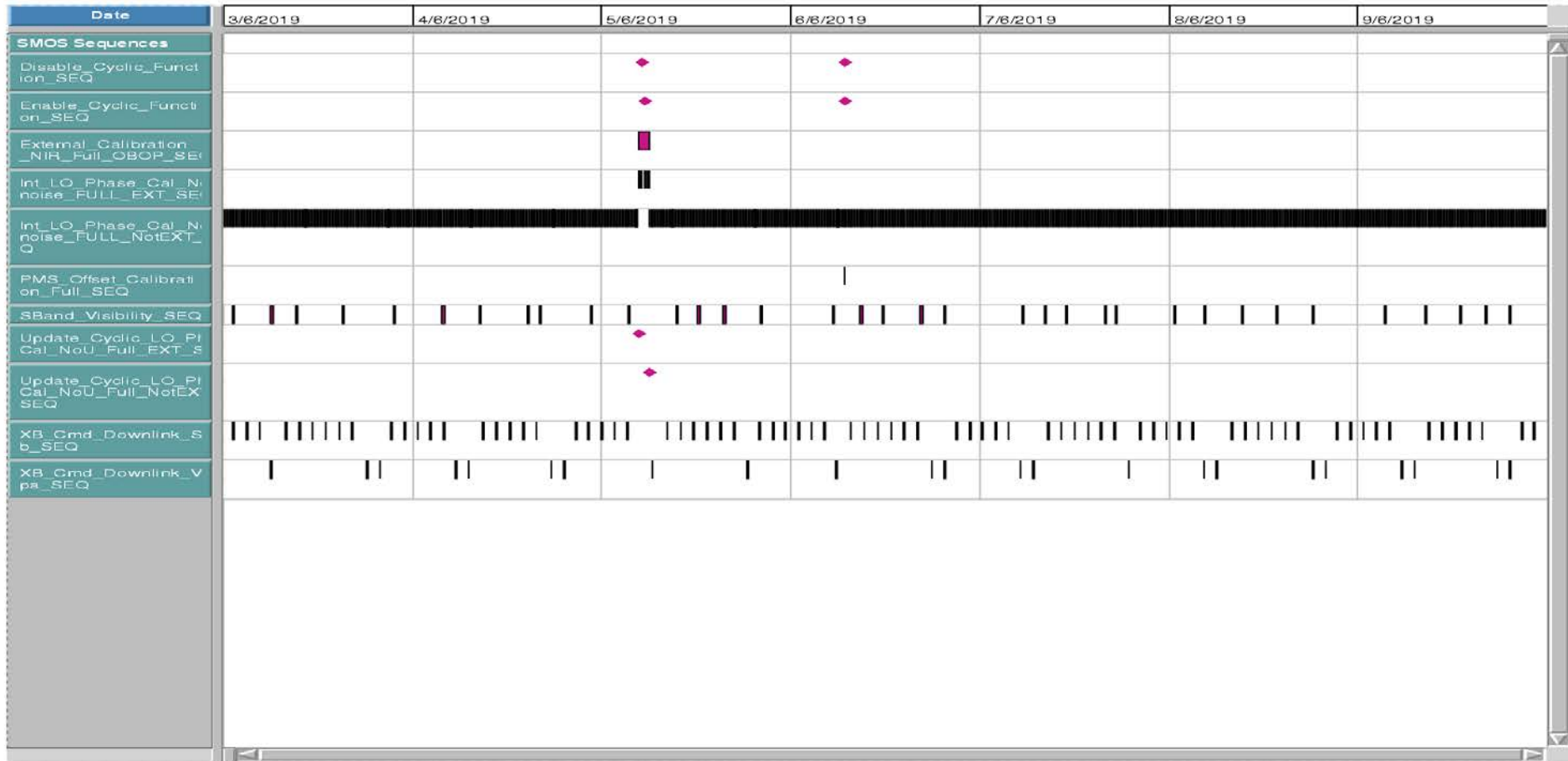
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Schedule Name: 2019\_w23\_cr ### Display start: 03-06-2019 00:00:00.000 ### Display end: 10-06-2019 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

None.

### 5 On Board Events Telemetry

No warning or error on board event packets were received this week.

### 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, with the following exception:

- Because an issue with the receiving station (time/frequency anomaly), S band GS pass HBX-5 (AOS = 2019-06-05T15:25:59z; LOS = 2019-06-05T15:40:30z) contained 16 PUS TM gaps. The gaps went:

<b>From</b>	<b>To</b>	<b>Packets Lost</b>
2019-06-05T12:13:55z	2019-06-05T14:23:42z	14204
2019-06-05T14:23:55z	2019-06-05T14:24:00z	7
2019-06-05T15:25:22z	2019-06-05T15:25:31z	13
2019-06-05T15:25:32z	2019-06-05T15:25:36z	5
2019-06-05T15:25:40z	2019-06-05T15:25:44z	5
2019-06-05T15:25:48z	2019-06-05T15:25:51z	5
2019-06-05T15:25:52z	2019-06-05T15:25:58z	10
2019-06-05T15:26:01z	2019-06-05T15:26:04z	5
2019-06-05T15:26:14z	2019-06-05T15:26:18z	5
2019-06-05T15:56:22z	2019-06-05T15:26:26z	5
2019-06-05T15:26:32z	2019-06-05T15:26:36z	5
2019-06-05T15:26:36z	2019-06-05T15:26:39z	5
2019-06-05T15:26:40z	2019-06-05T15:26:44z	5
2019-06-05T15:27:01z	2019-06-05T15:27:07z	9
2019-06-05T15:27:08z	2019-06-05T15:27:13z	7
2019-06-05T15:27:13z	2019-06-05T15:27:34z	36

To achieve completion MIRAS PUS TM was recovered from the X band PXMf system and ingested into the MUST-SMTA system on 6 JUN 2019. The corresponding E\_HKTM was lost:



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*from 2019-06-05T12:13:46z to 2019-06-05T14:38:50z.*

### **8 X Band Data Reception in PXMF**

The FOS PXMF system was used to fill the PUS TM gaps lost on S-Band pass HBX-5 (see section 7 of the report)

### **9 Exceptional Activities**

None.

### **10 AOB**

None.

## **APPENDIX A: OOLs**

No relevant Out of Limits were received during this reporting period.