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## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 24, year 2019**

from 10 JUN 2019 to 17 JUN 2019

**1.0**

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### 1 General Comments

Activities scheduled for this week are those planned for the 24<sup>th</sup> calendar week of 2019:

10 JUN 2019 to 17 JUN 2019 (DOYs 161 to 168).

The following routine activities were planned this week (see Gantt chart on next page and CRF 814).

- One PMS Offset on 13 JUN 2019 (DOY 164), including three Short Calibrations at 07:17:00.0z, 07:17:34.8z, and 07:18:09.6z (orbit 50509).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



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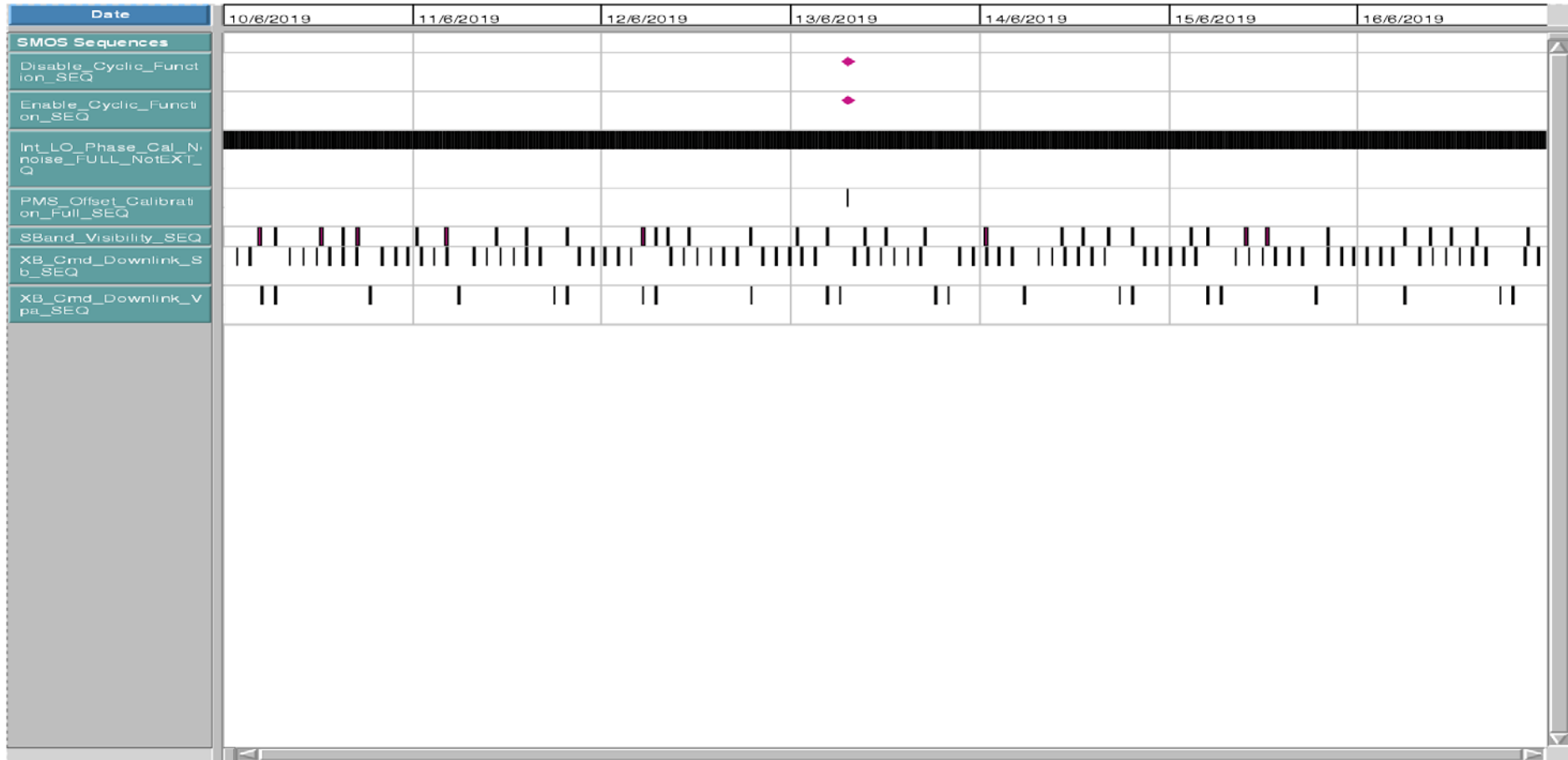
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Schedule Name: 2019\_w24\_cr ### Display start: 10-06-2019 00:00:00.000 ### Display end: 17-06-2019 00:00:00.000





### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit H1, unlocked on 2019-06-13T04:51:54,127z (DOY 164).

This anomaly was geolocated just northward of Prince Patrick Island (Canada):

*Latitude* = 76.08°  
*Longitude* = 233.93°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 7 epochs.

- A MM double bit error impacted partition P0 on 2019-06-10T08:29:03.436z. This particular anomaly was made up of a total of 7 double bit memory errors found in P0 partition. The following parameters went out of limits in the PLPC system:

*2019.161.08.29.03.436 DMASME39 DB Err In P0*

This anomaly was geolocated over the Artic Ocean :

*Latitude* = 75.74°  
*Longitude* = 178.61°

At the time of the anomaly, the position of the MM pointers were as follows:

*READ* = 228537 (*partition P0*)  
*WRITE* = 249137 (*partition P0*)

Since at the time of the error, both pointers were located in partition P0, some science data may potentially be corrupted. This data should be received during X band pass with AOS=10:03:00z.

### 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	2019-06-13T23:54:09	22B0DFC
RAM single Bit Error	730	WARN	2019-06-11T22:45:18	21739FC



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### **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

The CMN unlock on the 13<sup>th</sup> of June, generated the two temporary out of limits on PLPC system.

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2019-06-13T09:49:41	2019-06-13T04:51:54	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2019-06-13T09:49:41	2019-06-13T04:52:01	SPM11167	H1 LO_Locking	UNLOCK	LOCK

The MM Double bit memory error of partition P0, generated the following temporary OOL on the PLPC system.

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOL Value</b>	<b>Check Value</b>
2019-06-13T13:00:26	2019-06-10T08:29:03	DMASME39	DB Err In P0	False	True