



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 06, year 2019**

from 04 FEB 2019 to 11 FEB 2019

**1.0**

### 1 General Comments

Activities scheduled for this week are those planned for the 06<sup>th</sup> calendar week of 2019:

04 FEB 2019 to 11 FEB 2019 (DOYs 035 to 042).

The following routine activities were planned this week (see Gantt chart on next page and CRF 790).

- One PMS Offset on 07 FEB 2019 (DOY 038), including three Short Calibrations at 07:21:30.0z, 07:22:04.8z, and 07:22:39.6z (orbit 48705).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



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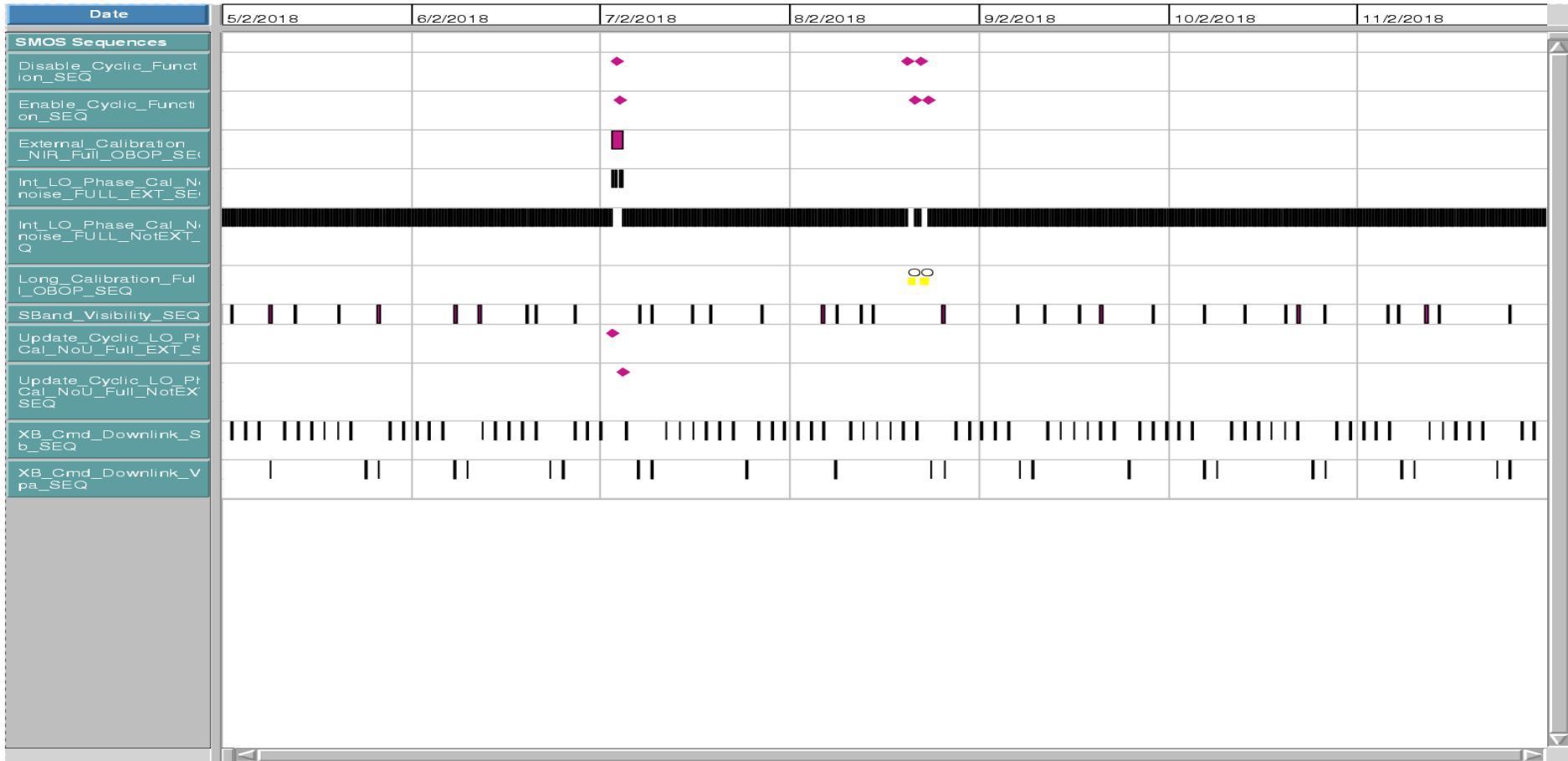
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Schedule Name: 2018\_w06\_cr ### Display start: 05-02-2018 00:00:00.000 ### Display end: 12-02-2018 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit H1, unlocked on 2019-02-05T18:48:26.443z (DOY 036). This anomaly was geolocated over the Antarctic Ocean, due south of New Zealand:

*Latitude = -65.34*

*Longitude= 186.97*

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 6 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	2019-02-10T12:30:49	221A040
RAM single Bit Error	730	WARN	2019-02-10T10:03:31	221A040
RAM single Bit Error	730	WARN	2019-02-10T09:33:26	221A040
RAM single Bit Error	730	WARN	2019-02-04T12:46:52	201D658

### 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.

- S band GS pass ASX-5 with AOS on 2019-02-05T18:36:20z was not disseminated as planned because of a network issue between CNES and the Aussaguel S band station. Consequently, the delivery of the HKTm for that pass to FOS was delayed, with no impact on the PLPC system. The gap generated in the SMTA-MUST DBs were filled manually. The TCO function did require a cold restart as the late delivery occurred after the next scheduled pass.
- S band GS pass STC-2 with AOS 2019-02-05T18:52:59z, contained the following 7 PUS TM gaps:  
*from 2019-02-01T12:56:23z to 2019-02-01T12:56:28z; 6 packets lost.*



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*from 2019-02-01T12:58:05z to 2019-02-01T12:58:09z; 5 packets lost.  
from 2019-02-01T12:58:16z to 2019-02-01T12:58:18z; 5 packets lost.  
from 2019-02-01T12:58:46z to 2019-02-01T12:58:48z; 4 packets lost.  
from 2019-02-01T13:03:59z to 2019-02-01T13:04:03z; 5 packets lost.  
from 2019-02-01T13:04:04z to 2019-02-01T13:04:08z; 7 packets lost.  
from 2019-02-01T13:06:29z to 2019-02-01T13:06:32z; 18 packets lost.*

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

In order to fill the TM gaps reported in previous section, MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 5 FEB 2019. E\_HKTM TM data on those intervals got permanently lost.

### **9 Exceptional Activities**

None.

### **10 AOB**

None.



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## APPENDIX A: OOLs

At the time the H! CMN unlock happened on the 5<sup>th</sup> of February, the following temporary OOLs were received in 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>
2019-02-05T20:20:32	2019-02-05T18:48:26	SPM11167	H1 LO_Locking	UNLOCK	LOCK
2019-02-05T20:20:32	2019-02-05T18:48:26	SPM11162	H1 LO_Out_Power	NOT-OK	OK