



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 11, year 2019**

from 11 MAR 2019 to 18 MAR 2019

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 11<sup>th</sup> calendar week of 2019:

11 MAR 2019 to 18 MAR 2019 (DOYs 070 to 077).

The following routine activities were planned this week (see Gantt chart on next page and CRF 798).

- One Warm NIR Calibration on 13 MAR 2019 (DOY 072) with ETO 17:10:19z (orbit 49191; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	4.88°
R.M.S.	=	2.35
Sun elevation	=	8.00°
Moon elevation	=	-52.53°
R.A.	=	271.73°
DEC.	=	-53.98°
- One PMS Offset on 14 MAR 2019 (DOY 073), including three Short Calibrations at 06:19:00.0z, 06:19:34.8z, and 06:20:09.6z (orbit 49199).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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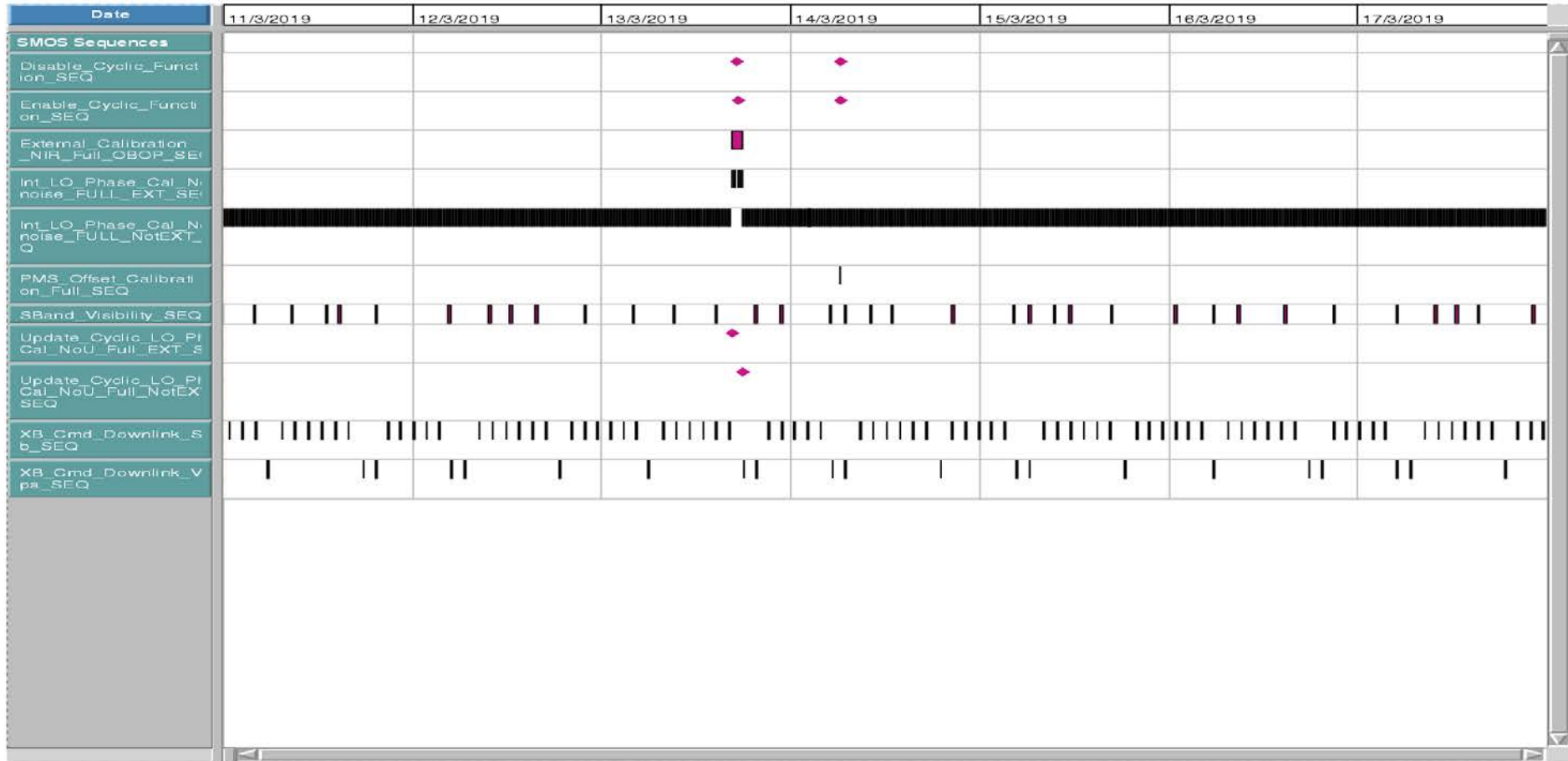
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Schedule Name: 2019\_w11\_cr ### Display start: 11-03-2019 00:00:00.000 ### Display end: 18-03-2019 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- A MM double bit error impacted partition P7 on 2019-03-15T21:15:15.248z. The following parameters went out of limits in the PLPC system:

*2019.074.21.15.15.248 DMASME46 DB Err In P7*

This anomaly was geolocated over the south-west side of Okinawa island:

*Latitude = 0.69°  
Longitude = 338.11°*

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

*READ = 157628 (partition P0)  
WRITE = 373071 (partition P0)*

There were no science data losses associated with this anomaly because it affected P7 while both Read and Write pointers were on P0 (i.e. the data in the affected partition had already been downloaded to ground during an earlier X band GS pass and not yet rewritten).

### 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	2019-03-11T23:17:10	215C750
RAM single Bit Error	730	WARN	2019-03-17T11:25:53	21917F4
RAM single Bit Error	730	WARN	2019-03-17T11:28:20	21A7368
RAM single Bit Error	730	WARN	2019-03-17T20:46:09	205DC0C

### 6 FOS Systems Status

- New FlexPlan, version 4.4.1, was installed by GMV in the SPGF-4 server. FOS successfully tested this new version with a full operational Mission Planning as follows:

-- Manual planning: week 13, on 18/20 MAR 2019.



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-- Auto-planning (new AGEN application): week 14, on 25/27 MAR 2019.

### **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

On the 15<sup>th</sup> of March, at the time of the MM Double bit memory error on Partition P7, the following temporary Out of Limits was received on 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>
2019-03-16T01:25:16	2019-03-15T21:15:15	DMASME46	DB Err In P7	FALSE	TRUE