



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 12, year 2019

from 18 MAR 2019 to 25 MAR 2019

1.0

1 General Comments

Activities scheduled for this week are those planned for the 12th calendar week of 2019:

18 MAR 2019 to 25 MAR 2019 (DOYs 077 to 084).

The following routine activities were planned this week (see Gantt chart on next page and CRF 799).

- One PMS Offset on 21 MAR 2019 (DOY 080), including three Short Calibrations at 06:46:30.0z, 06:47:04.8z, and 06:47:39.6z (orbit 49300).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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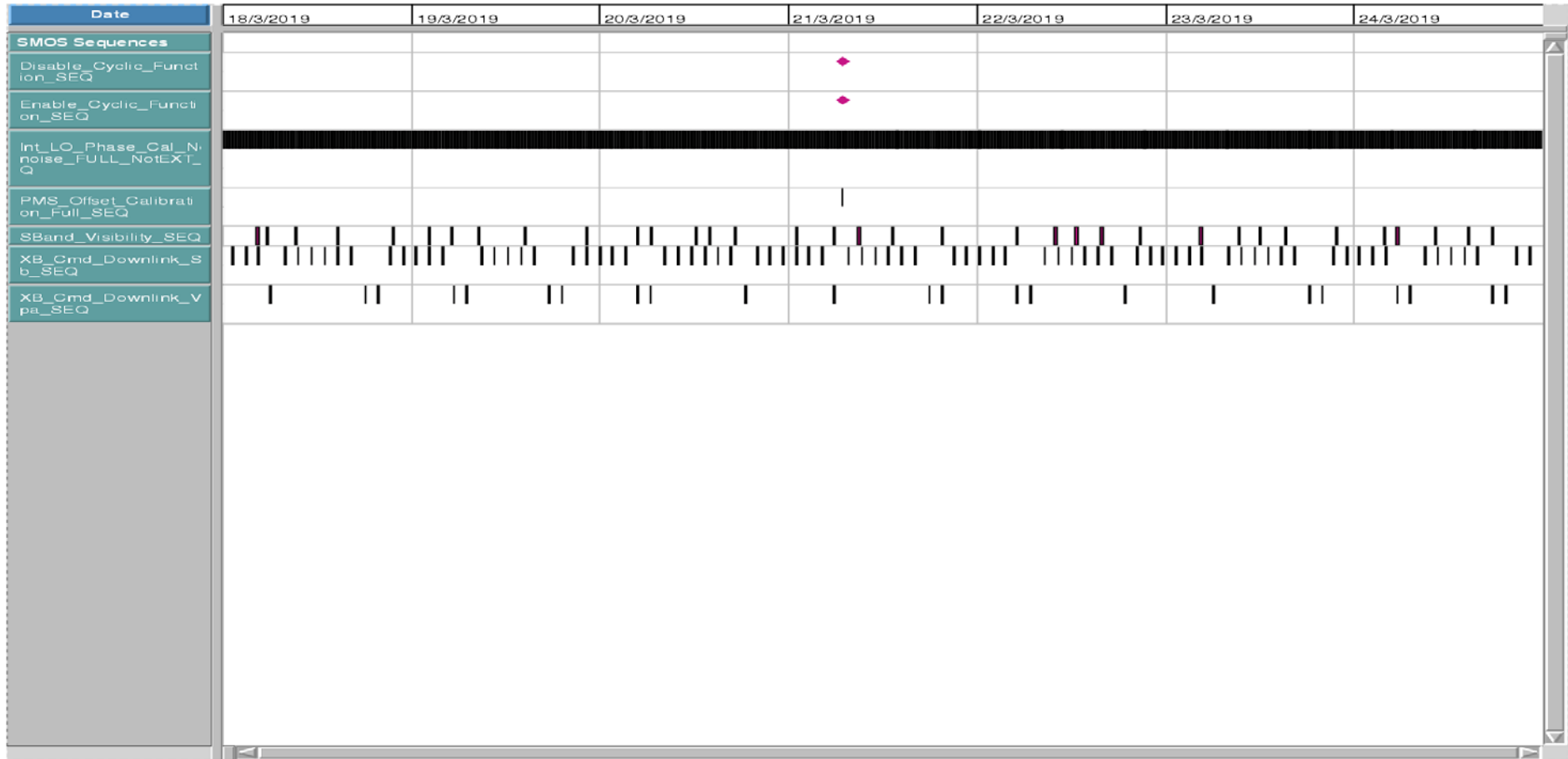
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Schedule Name: 2019_w12_cr ### Display start: 18-03-2019 00:00:00.000 ### Display end: 25-03-2019 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P3, latched up 2019-03-21T10:55:00.108z (DOY 080). The following parameters went out of limits in the PLPC system:

2019.080.10.55.00.108z DMASME09 LU Switch P3

2019.080.10.55.00.108z DMASME37 SDD LU Detected

This anomaly was geolocated over northern Nunavut (Canada):

Latitude = 73.92°

Longitude = 255.75°

There were no science data losses associated with this anomaly because it affected partition P3, while the Read and Write pointers were both on partition P1. Recovery took place the following day, 22 MAR 2019, at 13:00:00z (CRF 801).

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

READ = 482490 (partition P1)

WRITE = 736340 (partition P1)

- The MIRAS instrument CMN, unit B3, unlocked on 2019-03-20T08:41:17.062z (DOY 079). This anomaly was geolocated over Pacific Ocean east coast of Pacific Ocean>

Latitude = 5.09°

Longitude = 140.77°

Only output power SPM19167 parameter, went out of limits in the FOS PLPC system. The anomaly recovered in 4 Epochs.

5 On Board Events Telemetry

No relevant Event packets were received during this reporting 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.



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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 Mass Memory Latch up of partition P3 generated the following two temporary Out of Limits on the FOS PLPC system,

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2019-03-21T13:52:27	2019-03-21T10:55:00	DMASME37	SDD LU Detected	FALSE	TRUE
2019-03-21T13:52:27	2019-03-21T10:55:00	DMASME09	LU Switch P3	OFF	ON

At the time of the CMN Unlock on the 20th of March, the following MIRAS TM parameter went temporary out of limits on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2019-03-20T12:53:05	2019-03-20T08:41:17	SPM19167	B3 LO_Locking	UNLOCK	LOCK