



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 20, year 2019

from 13 MAY 2019 to 20 MAY 2019

1.0

1 General Comments

Activities scheduled for this week are those planned for the 20th calendar week of 2019:

13 MAY 2019 to 20 MAY 2019 (DOYs 133 to 140).

The following routine activities were planned this week (see Gantt chart on next page and CRF 810).

- One PMS Offset on 16 MAY 2019 (DOY 136), including three Short Calibrations at 07:07:00.0z, 07:07:34.8z, and 07:08:09.6z (orbit 50106).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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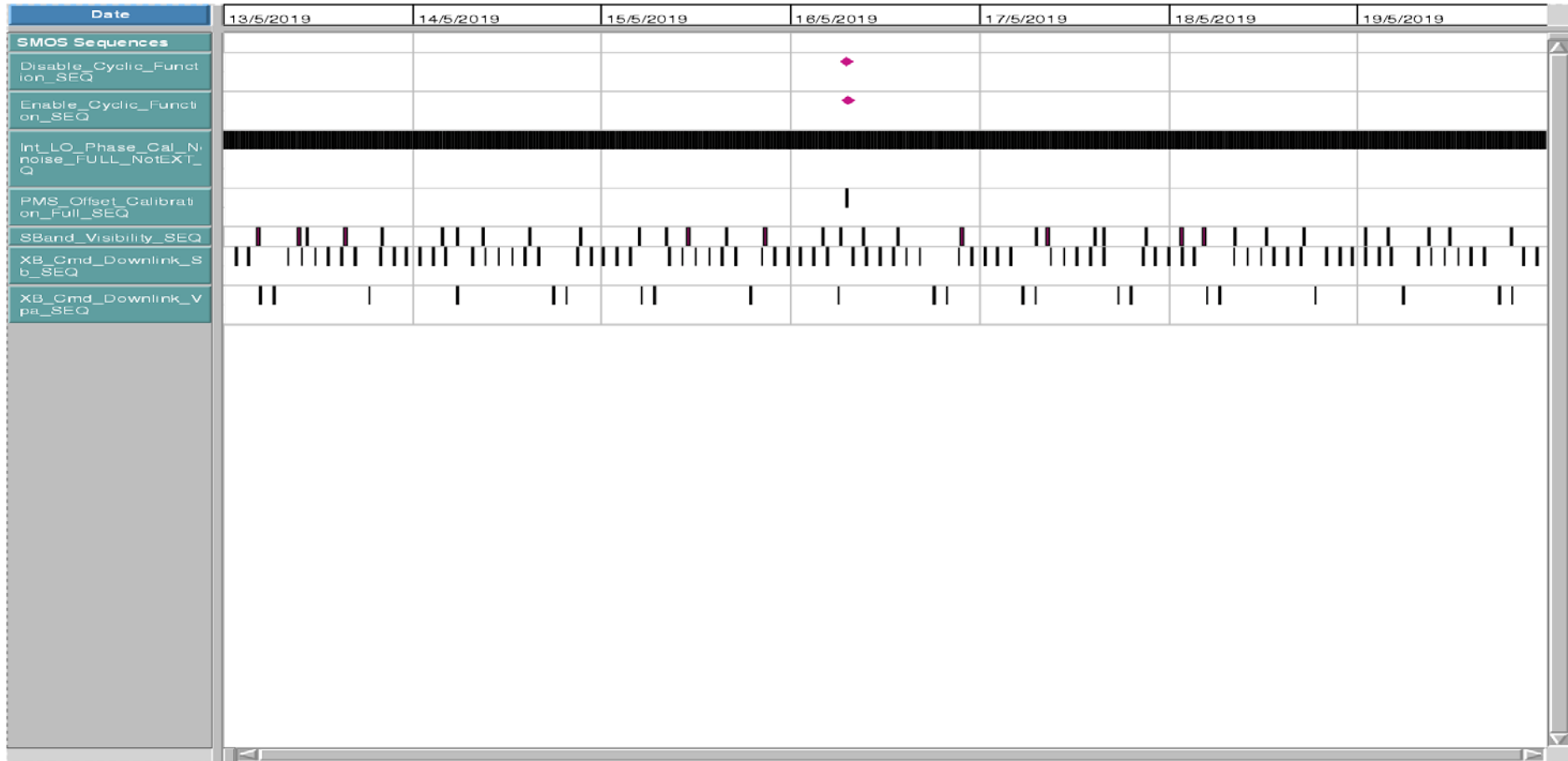
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Schedule Name: 2019_w20_cr ### Display start: 13-05-2019 00:00:00.000 ### Display end: 20-05-2019 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit H3, unlocked 2019-05-14T11:43:42,797z (DOY 134). This anomaly was geolocated over Antarctica:

Latitude = -75.95°

Longitude = 58.23°

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 4 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	2019-05-19T23:45:01	226DD50

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:

- The systematic longer delay observed on the reception of the S-Band TM files at FOS it was finally fixed on the 16th of May. The problem was related with a wrong configuration of the DSN files at CNES side.
- On the 17th of May 2019 PUS TM files delivered as part of SBand pass KRX-8 (AOS=15:39:52), contained a wrong file, with name *SMO_PLTM1_P_2019_05_09_03_34_08*. The file referred to a different date, 9th of May instead of 17th of May, but it contained TM data for the 17th of May from 09:13:26z to 12:29:18z. The problem was related with a delivery issue at CNES station level. As result of this problem, the file was processed by PLPC in a sort of endless loop that was finally stopped by the FOS operator. This multiple data ingestion created some data duplication problems in the time interval included inside that file and also transferred



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to the MUST TM archive system. That interval affected TM data from the previous pass, HBX-17 (AOS=14:28:14z) which contained TM data from 08:32:23.899z to 14:30:21.722z.

To delete all the TM spurious data, FOS removed PUS TM data from previous interval in both sides PLPC and MUST system and the correct PUS TM file for HBX-17 again processed on the FOS PLPC system and transferred to the MUST system.

Those files were *SMO_PLTM1_P_2019_05_17_14_32_34* and *SMO_PLTM1_P_2019_05_17_14_30_23*.

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

At the time of the CMN Unlock anomaly on H3 unit, the following two OOL were temporary issued by the FOS PLPC system

OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019.134.11.43.43.997	SPM13167	H3 LO_Locking	UNLOCK	LOCK
2019.134.11.43.42.797	SPM13162	H3 LO_Out_Power	NOT-OK	OK