



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 42, year 2018

from 15 OCT 2018 to 22 OCT 2018

1.0

1 General Comments

Activities scheduled for this week are those planned for the 42nd calendar week of 2018:

15 OCT 2018 to 22 OCT 2018 (DOYs 288 to 295).

The following routine activities were planned this week (see Gantt chart on next page and CRF 771).

- One Warm NIR Calibration on 17 OCT 2018 (DOY 290) with ETO 17:41:55z (orbit 47076; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.88°
R.M.S.	=	0.64
Sun elevation	=	9.99°
Moon elevation	=	-49.98°
R.A.	=	119.41°
DEC.	=	-20.29°
- Two LONG Calibrations on 18 OCT 2018 (DOY 291), which encompassed two ascending semi-orbital periods starting at 14:49:00z (orbit 47089) and 16:30:30z (orbit 47090).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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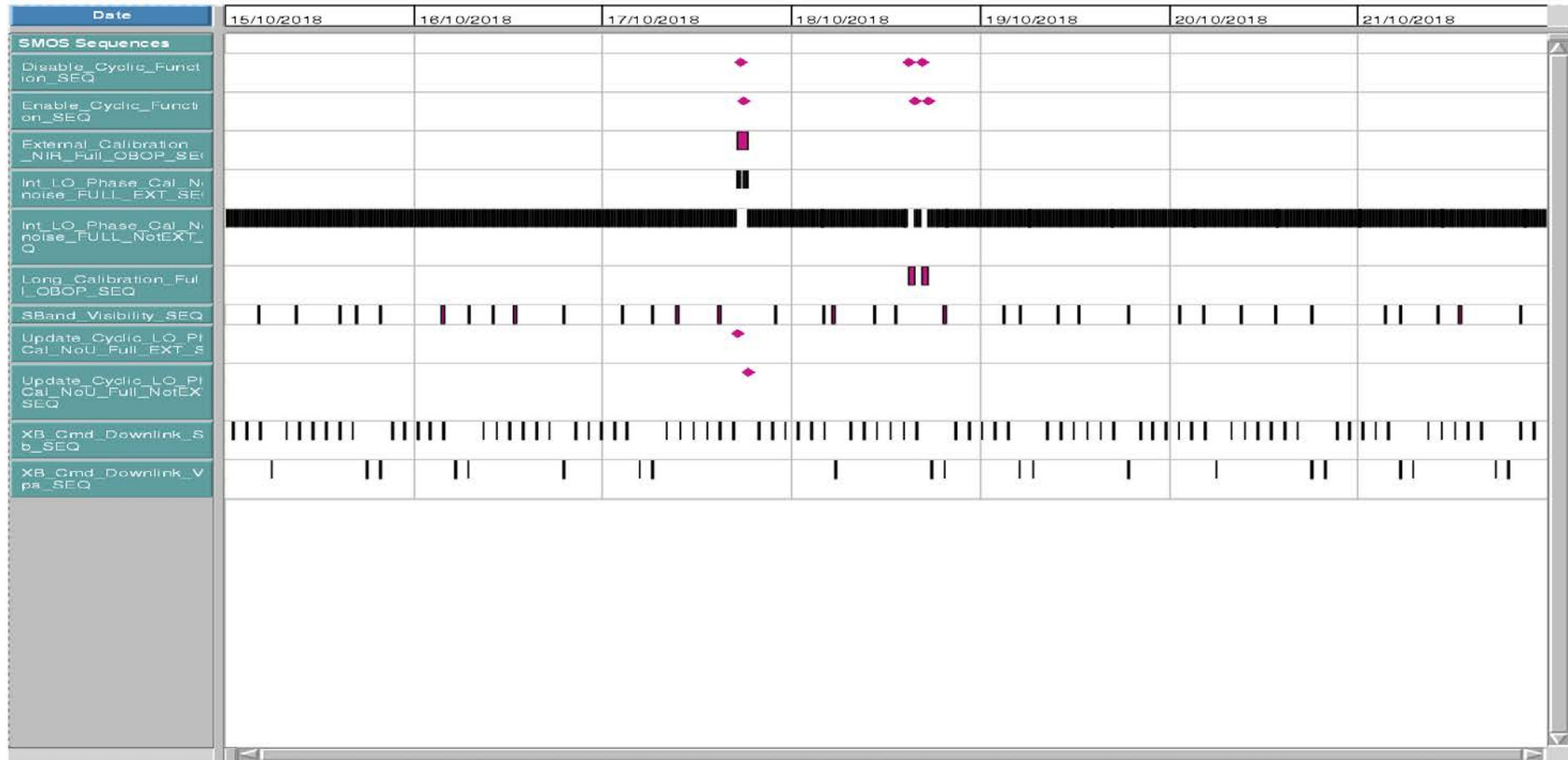
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Schedule Name: 2018_w42_cr ### Display start: 15-10-2018 00:00:00.000 ### Display end: 22-10-2018 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

None.

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	2018-10-15T10:49:11	20211A0
RAM single Bit Error	730	WARN	2018-10-16T22:35:01	21CCBE8
RAM single Bit Error	730	WARN	2018-10-17T00:19:22	2161E90
RAM single Bit Error	730	WARN	2018-10-19T10:02:43	2049258
RAM single Bit Error	730	WARN	2018-10-20T12:33:40	22E7E94

6 FOS Systems Status

- On the 19th of October, DPGS analyst installed a new operative system, Centos 7.5 version, on FOSEXT2 workstation substituting the old SUSE 11 previously running on that machine. The reason for this installation was because the Dropbox account that is linked to the FOS on call phone stop working un SUSE 11.

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 exceptions:

- On the 17th of October and due to a firewall license problem on CNES side, all the S-Band passes from approximately 09:00 utc onwards were no received at ESAC. The anomaly persist during the whole day and CNES remained isolated from network and email point of view. Nevertheless the connectivity between the CNES control center and the Ground Stations network was fully working and SBand data was nominally received and stored on the CNES side. Also, the FOS ISDN backup line got affected by this anomaly and it was not possible to receive TM or sent TCs from/to CNES. In order to debug this anomaly, CNES task G4, in charge to deliver data to ESAC, was also stopped during the whole night and no SBand passes were received until the following morning 18th of October around 06:30z. At that time, CNES started to deliver data to ESAC



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in the right time order in such a way that all the SBand passes received and accumulated on their system were correctly received and processed by the FOS PLPC system.

- S band GS pass STC-13 (AOS = 2018-10-15T19:35:53z; LOS = 2018-10-15T19:48:44z) could not be acquired because of a station anomaly on the CNES side. To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 16 OCT 2018. The gap filled went from 2018-10-15T16:38:00z to 2018-10-15T19:37:40z.

8 X Band Data Reception in PXMF

Due to the CNES network problems reported on previous section, FOS used during all those periods the PXMF Band system to monitor the correct performance of the instrument.

9 Exceptional Activities

None.

10 AOB

None.

APPENDIX A: OOLs

No relevant Out of Limits were received during this reporting week.