Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:	**FOS Report for week 50, year 2018**
Date:	from 10 DEC 2018 to 17 DEC 2018
Issue:	**1.0**

1   General Comments

Activities scheduled for this week are those planned for the 50th calendar week of 2018:

```
10 DEC 2018 to 17 DEC 2018 (DOYs 344 to 351).
```

The following routine activities were planned this week (see Gantt chart on next page and CRF 781).

- One PMS Offset on 13 DEC 2018 (DoY 347), including three Short Calibrations at 07:01:30.0z, 07:02:04.8z, and 07:02:39.6z (orbit 47890).
- Local Oscillator Calibrations every 10 minutes.
- One Orbit Correction Manoeuvre on the 16th of December 2018 from 2018-12-16T22:38:31z to 2018-12-16T22:57:57z (Unavailability period). One regular X band GS pass over Svalbard (AOS = 2018-12-16T22:32:32z; LOS = 2018-12-16T22:42:48z) was not scheduled because it conflicted with the OCM.
- *X* band Passes over ESAC and Svalbard.

2   Mission Planning Deviations

None.

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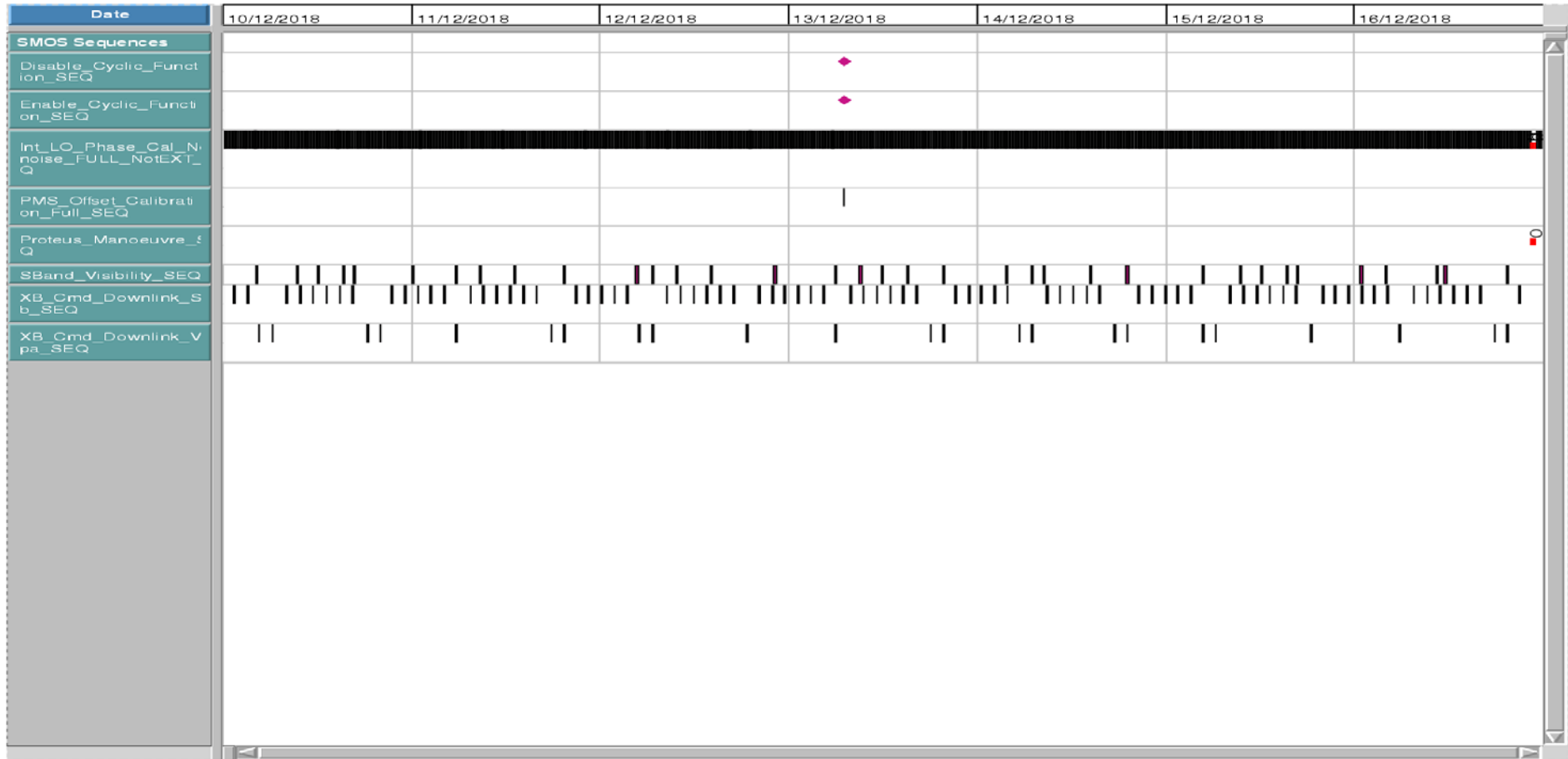
J. Fauste/J.M. Castro Cerón

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Schedule Name: 2018_w50_cr   ###   Display start: 10-12-2018 00:00:00.000   ###   Display end: 17-12-2018 00:00:00.000

Date	10/12/2018	11/12/2018	12/12/2018	13/12/2018	14/12/2018	15/12/2018	16/12/2018
SMOS Sequences							
Disable_Cyclic_Function_SEQ				◆			
Enable_Cyclic_Function_SEQ				◆			
Int_LO_Phase_Cal_Noise_FULL_NotEXT_Q							
PMS_Offset_Calibration_Full_SEQ				|			
Proteus_Manoeuvre_SEQ							
SBand_Visibility_SEQ							
XB_Cmd_Downlink_Sb_SEQ							
XB_Cmd_Downlink_Vpa_SEQ							

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SMOS

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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit B3, unlocked on 2018-12-16T12:25:22.633z (DOY 325). This anomaly was geolocated over north of Montana state (USA)

    Latitude   = 47.79°
    Longitude   = 254.61°

    Both parameters SPM19167, locking status, and SPM19162 output power, went out of limits in the FOS PLPC system. The anomaly recovered in 13 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	2018-12-12T23:45:36	222FC3C

6 FOS Systems Status

- On the 10th of December while FOS operator was doing Mission Planning tasks and ingesting the corresponding PROTEV file, the ingestion failed since *FlexPlan* did not recognized the file schema. This was due to the change of the ORBPRE and PROTEUS EVENT FILE formats that include the new sub-header for EO-CFI libraries version 4.X. GMV SW support was urgently contacted to modify the XML schema of the PROTEV file. The schema was first updated and tested on SPGF-1 and then in SPGF-4 and SPGF-3.

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.

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10 AOB

None.

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APPENDIX A: OOLs

At the time of the Orbit Correction Manoeuvre the following temporary OOL was received on FOS PLPC system indicating that the on-baord ITL was made disable:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-12-17T05:12:30	2018-12-16T22:38:22	NTLHK022	ITL Ena State	Disabled	Enable

The CMN unlock of B3 unit generated the two following temporary OOL on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-12-16T19:52:47	2018-12-16T12:25:22	SPM19162	B3 LO_Out_Power	NOT-OK	OK
2018-12-16T19:52:47	2018-12-16T12:25:27	SPM19167	B3 LO_Locking	UNLOCK	LOCK