



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 37, year 2018

from 10 SEP 2018 to 17 SEP 2018

1.0

1 General Comments

Activities scheduled for this week are those planned for the 37th calendar week of 2018:

10 SEP 2018 to 17 SEP 2018 (DOYs 253 to 260).

The following routine activities were planned this week (see Gantt chart on next page and CRF 764).

- One PMS Offset on 13 SEP 2018 (DOY 256), including three Short Calibrations at 07:43:30.0z, 07:44:04.8z, and 07:44:39.6z (orbit 46581).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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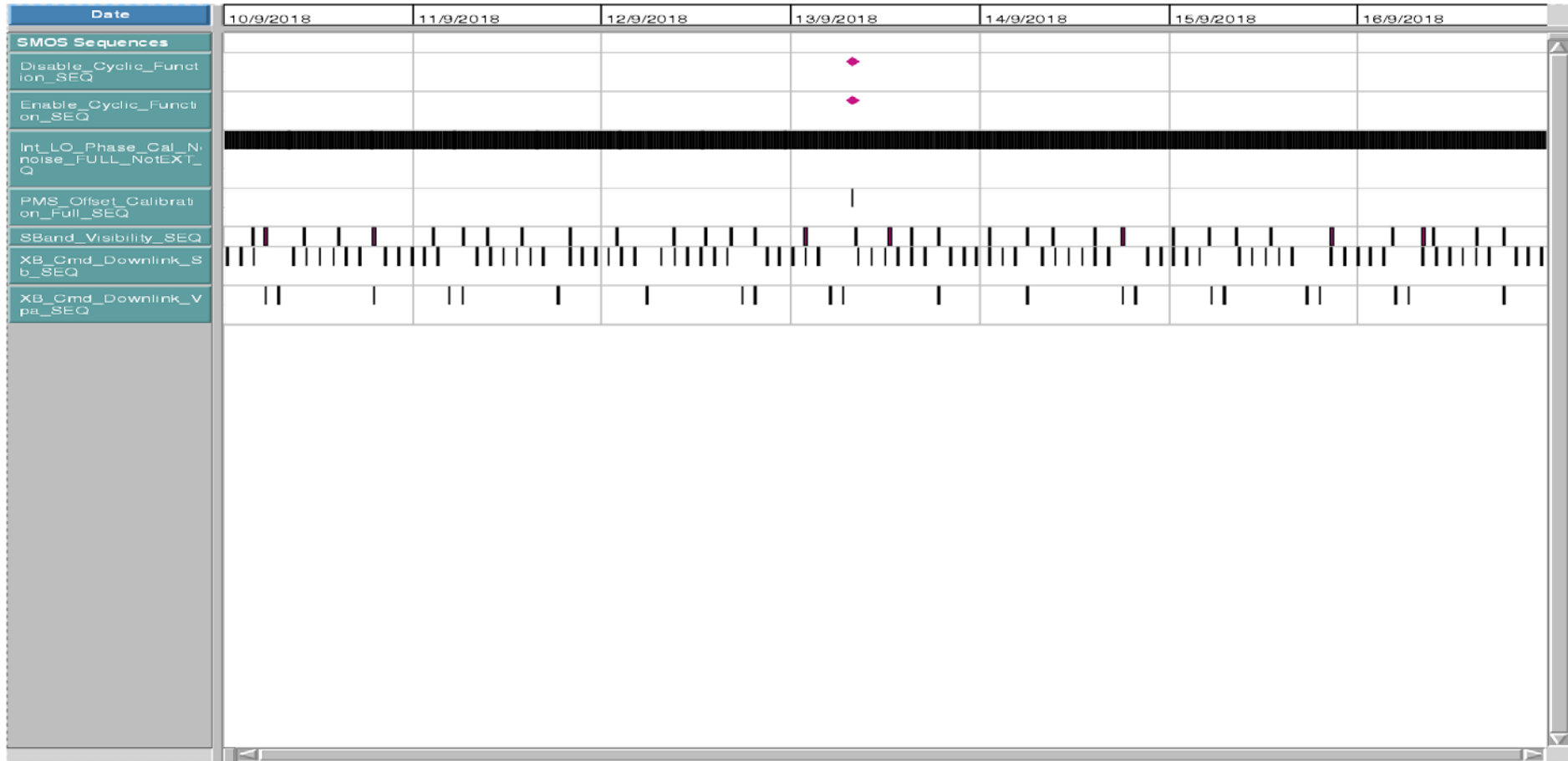
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Schedule Name: 2018_w37_cr ### Display start: 10-09-2018 00:00:00.000 ### Display end: 17-09-2018 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit B3, unlocked on 2018-09-15T23:15:16.174z (DOY 258).

This anomaly was geolocated over the Antarctic sea:

Latitude = 119.72°

Longitude = -64.72°

Both parameters, output power SPM19162 and locking status SPM19167, went out of limits in the FOS PLPC system. The anomaly recovered itself after few seconds.

- The MIRAS instrument MM, partition P9, latched up on 2018-09-15T00:46:56.132z (DOY 258).

The following parameters went out of limits in the PLPC system:

2018.258.00.46.46.132z DMASME03 LU Switch P9

2018.258.00.46.46.132z DMASME37 SDD LU Detected

This anomaly was geolocated over south west side of the Hudson Bay (Canada)

Latitude = 55.44°

Longitude = 270.96°

There were no science data losses associated with this anomaly because it affected partition P9 (spare partition). Recovery took place on 17 SEP 2018, at 14:00:00z (CRF 766).

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

READ = 550259 (partition P1)

WRITE = 588890 (partition P1)

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	2018-09-13T01:00:36	21FAB2C



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6 FOS Systems Status

- On the 12th of September around 11:56z and while manually retrieving old missing TM data from PLPC to the MUST Server, the HFA task on PLCPRM crashed with the following messages:

"Lost connection to HFA TM (domain 0/srvFam 0)"

and then also multiple messages

"Could not log on HFA-TM".

appeared in the PLPC system.

The task was manually restarted and the errors disappeared but DDS retrieving tasks seemed not to work properly. In order to avoid possible problems during the next S Band pass reception (KER-11 with AOS at 13:06:25z) the control system was manually restarted around 13:10z.

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

The CMN Unlock of unit B3 generated the following two temporary Out of Limits in the FOS PLPC system

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2018-09-16T04:59:29	2018-09-15T23:15:16	SPM19162	B3 LO_Out_Power	NOT-OK	OK
2018-09-16T04:59:29	2018-09-15T23:15:17	SPM19167	B3 LO_Locking	UNLOCK	LOCK

At the time of the Mass Memory Latch up in partition P9 the following two Out of Limits were received on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2018-09-15T05:31:39	2018-09-15T00:46:56	DMASME37	SDD LU Detected	FALSE	TRUE
2018-09-15T05:31:39	2018-09-15T00:46:56	DMASME03	LU Switch P9	OFF	ON