



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 45, year 2020

from 02 NOV 2020 to 09 NOV 2020

1.0

1 General Comments

Activities scheduled for this week are those planned for the 45th calendar week of 2020:

02 NOV 2020 to 09 NOV 2020 (DoYs 307 to 314).

The following routine activities were planned this week (see Gantt chart on next page and CRF 926).

- One PMS Offset on 05 NOV 2020 (DoY 310), including three Short Calibrations at 05:45:30.0z, 05:46:04.8z, and 05:46:39.6z (orbit 57861).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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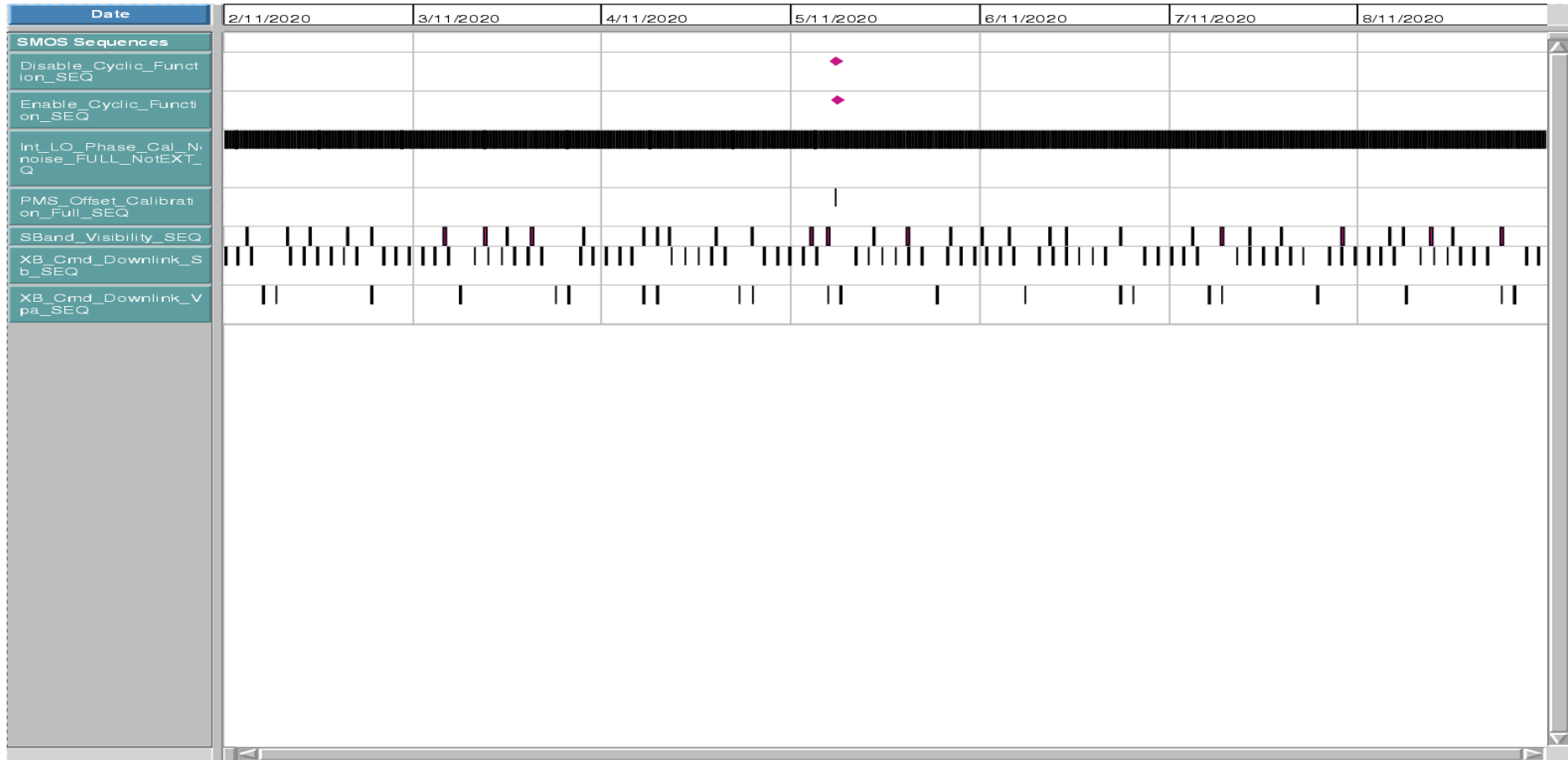
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Schedule Name: 2020_w45_cr ### Display start: 02-11-2020 00:00:00.000 ### Display end: 09-11-2020 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit B2, unlocked 2020-11-06T10:26:30,179z (DoY 311). This anomaly was geolocated over the Province of Santiago del Estero (Argentina):

LAT. = -25.84°

LONG. = 297.76°

Both parameters, output power SPM18162 and locking status SPM18167, went out of limits in the FOS PLPC system. The anomaly recovered by itself in 12 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	WARNING	2020.309.19.52.32,577	20AA7F4
RAM Single Bit Error	730	WARNING	2020.311.09.05.15,029	2151B14
RAM Single Bit Error	730	WARNING	2020.312.11.11.37,771	2318988
RAM Single Bit Error	730	WARNING	2020.312.21.58.20,247	214C6C0

6 FOS Systems Status

- A major network intervention to change switches in the SMOS DMZ was scheduled 04 NOV 2020. Planned from 08:30z to 14:00z, it took significantly longer because of unforeseen problems. S band passes reception was not affected by this intervention but several connectivity problems directly impacted the PLPCEXT server (i.e. MIRAS PUS TM could not be archived in WebMUST, and connectivity with DPGS Webserver [131.192.251.163] was lost). FOS investigations showed that a range of ports required by CORBA connections (i.e. SCOS 2000; GDDS requests from PLPCEXT to PLPCPRM) had been closed.

These ports were open for the service to be reinstated. Discussion with Network Team is pending to find an appropriate permanent solution.

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:

- STATION* *PASS* *AoS* *LoS*



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KUX 06 2020.309.08.27.46z 2020.309.08.40.30z
could not be acquired because of an issue with the receiving station.

Gaps went:

PUS HKTM

from 2020-11-04T07:02:08,719z to 2020-11-04T08:29:36,355z.

E HKTM

from 2020-11-04T07:02:03 z to 2020-11-04T08:30:04 z.

8 X Band Data Reception in PXMF

- To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system 04 NOV 2020. The corresponding E HKTM was lost.

9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

The following OOL befell at the time the MIRAS instrument CMN, unit B2, unlocked 2020-11-06T10:26:30,179z (DoY 311):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2020.311.11.18.54,754	2020.311.10.26.30,179	SPM18162	B2 LO_Out_Power	NOT-OK	OK
2020.311.11.18.55,080	2020.311.10.26.36,179	SPM18167	B2 LO_Locking	UNLOCK	LOCK