



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 25, year 2020

from 15 JUN 2020 to 22 JUN 2020

1.0

1 General Comments

Activities scheduled for this week are those planned for the 25th calendar week of 2020:

15 JUN 2020 to 22 JUN 2020 (DOYs 167 to 174).

The following routine activities were planned this week (see Gantt chart on next page and CRF 891).

- One PMS Offset on 18 JUN 2020 (DOY 170), including three Short Calibrations at 06:35:30.0z, 06:36:04.8z, and 06:36:39.6z (orbit 55847).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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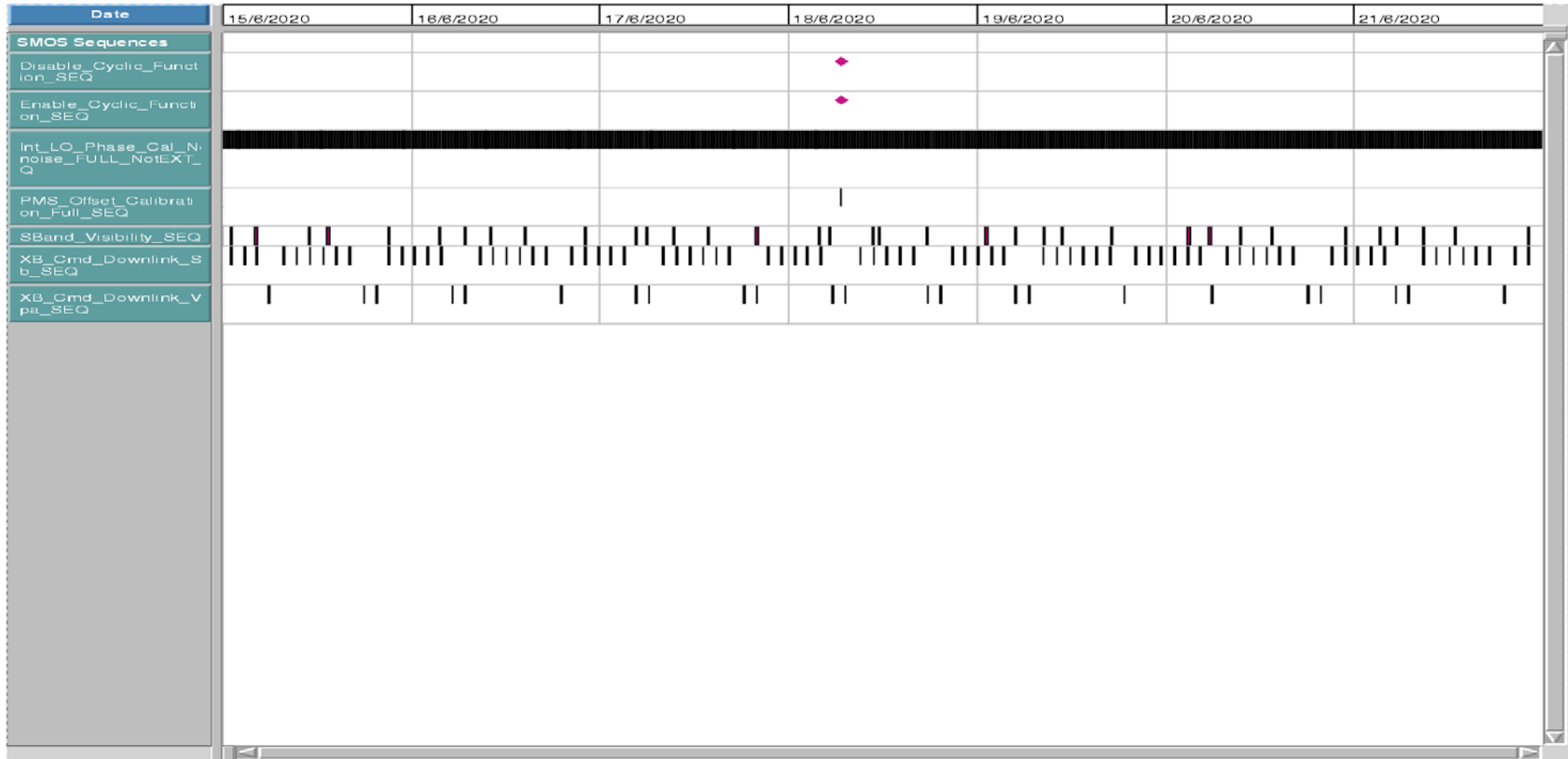
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Schedule Name: 2020_w25_cr ### Display start: 15-06-2020 00:00:00.000 ### Display end: 22-06-2020 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

The MIRAS CMN, unit B2, unlocked 2020-06-17T09:21:12,758z (DOY 169). This anomaly was geolocated over the estuary of the Amazon River (Brazil):

Latitude = -0.62°
Longitude = 310.12°

Both parameters, output power SPM18162 and locking status SPM18167, went out of limits in the FOS PLPC system. The anomaly recovered in 2 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	2020-06-15T00:04:08	2022F88
RAM single Bit Error	730	WARN	2020-06-15T09:37:08	23CF288
RAM single Bit Error	730	WARN	2020-06-16T19:59:33	229D6DC
RAM single Bit Error	730	WARN	2020-06-19T04:11:43	226376C
RAM single Bit Error	730	WARN	2020-06-19T23:51:27	22E4158

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:

- Because of an issue with the receiving station (tracking issue), S band GS pass KUX-12 (AOS = 2020-06-16T09:54:56z; LOS = 2020-06-16T10:08:57z) could not be acquired. The gap went:

from 2020-06-16T06:49:08.063z to 2020-06-16T09:56:35.819z.



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To achieve completion MIRAS PUS HKTM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 16 JUNE 2020. The corresponding E HKTM was lost:

from 2020-06-16T06:48:46z to 2020-06-16T09:57:02z.

8 X Band Data Reception in PXMF

Because of the S-Band pass problem reported in section 7 of this report, the FOS PXMF system was used to fill the MIRAS PUS-TM gap created by the anomaly.

9 Exceptional Activities

Ongoing preparations for the future upload of new OBSW version, 2.8.5.1, on the 23rd of June. All CRFs for the OBSW patch/load and the manual execution of the CCU reset were delivered to CNES. Also the CRFs for the two possible contingency scenarios were generated and sent to CNES. Final CNES PLN telecommand files as response of these CRFs, were also sent by CNES and successfully crosschecked by FOS.

10 AOB

None.



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APPENDIX A: OOLs

The following two temporary out of limits were generated on the FOS PLPC system at the time the CMN unlock of B2 unit on the 17th of June 2020.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2020-06-17T14:07:45	2020-06-17T09:21:12	SPM18162	B2 LO_Out_Power	NOT-OK	OK
2020-06-17T14:07:45	2020-06-17T09:21:13	SPM18167	B2 LO_Locking	UNLOCK	LOCK