



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 23, year 2020

from 01 JUN 2020 to 08 JUN 2020

1.0

1 General Comments

Activities scheduled for this week are those planned for the 23rd calendar week of 2020:

01 JUN 2020 to 08 JUN 2020 (DOYs 153 to 160).

The following routine activities were planned this week (see Gantt chart on next page and CRF 887).

- One PMS Offset on 04 JUN 2020 (DOY 156), including three Short Calibrations at 05:40:00.0z, 05:40:34.8z, and 05:41:09.6z (orbit 55645).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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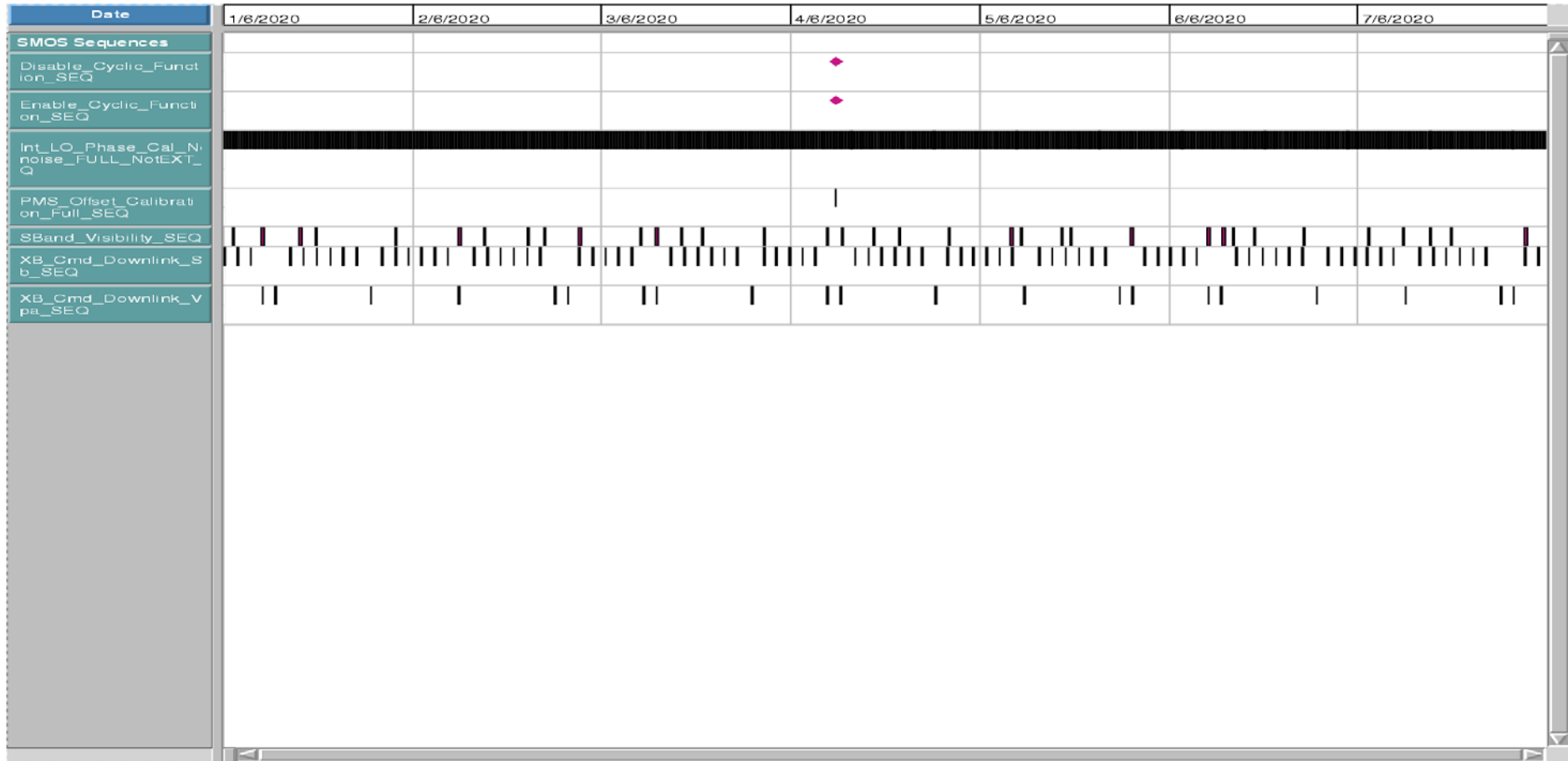
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Schedule Name: 2020_w23_cr ### Display start: 01-06-2020 00:00:00.000 ### Display end: 08-06-2020 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P9, latched up 2020-06-07T21:51:05.731z (DOY 159). The following parameters went out of limits in the PLPC system:

2020.159.21.51.05,731z DMASME03 LU Switch P9

2020.159.21.51.05,731z DMASME37 SDD LU Detected

This anomaly was geolocated over northern La Pampa (Argentina):

Latitude = -35.57°

Longitude = 296.50°

There were no science data losses associated with this anomaly because it affected partition P9 (i.e. a spare partition), while the Read and Write pointers were both on partition P8. Recovery took place Monday 08 JUN 2020, at 15:00:00z (CRF 890). At the time of the anomaly the position of the MM pointers were as follows:

READ = 3635921 (partition P8)

WRITE = 3731802 (partition P8)

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	2020-06-03T21:36:29	2340354
RAM single Bit Error	730	WARN	2020-06-03T21:23:27	22CD944

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.

8 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.



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9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

At the time of the mass memory latch-up anomaly, the following two out of limits were issued on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2020.159.21.51.05.731	2020.160.05.44.14.742	DMASME03	LU Switch P9	OFF	ON
2020.159.21.51.05.731	2020.160.05.44.14.741	DMASME37	SDD LU Detected	True	False