



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 07, year 2020

from 10 FEB 2020 to 17 FEB 2020

1.0

1 General Comments

Activities scheduled for this week are those planned for the 07th calendar week of 2020:

10 FEB 2020 to 17 FEB 2020 (DOYs 041 to 048).

The following routine activities were planned this week (see Gantt chart on next page and CRF 866).

- One PMS Offset on 13 FEB 2020 (DOY 044), including three Short Calibrations at 06:40:00.0z, 06:40:34.8z, and 06:41:09.6z (orbit 54034).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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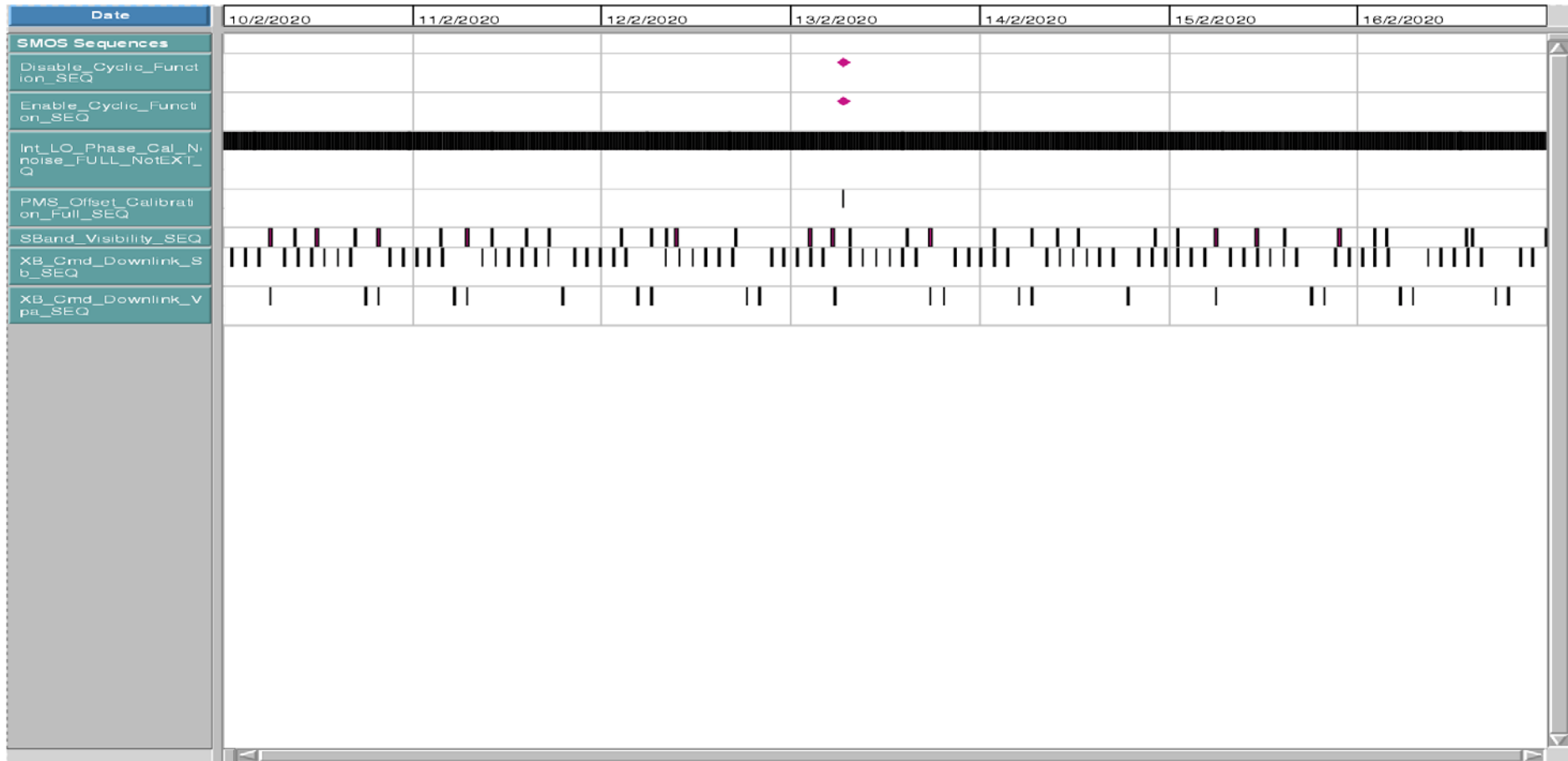
Date:

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Schedule Name: 2020_w07_cr ### Display start: 10-02-2020 00:00:00.000 ### Display end: 10-02-2020 16:48:06.000





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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P9, latched up 2020-02-10T21:41:42,094z (DOY 041). The following parameters went out of limits in the PLPC system:

2020.041.21.41.42,094z DMASME03 LU Switch P9

2020.041.21.41.42,094z DMASME37 SDD LU Detected

This anomaly was geolocated over the Argentina-Paraguay border:

Latitude = -26.13°

Longitude= 300.75°

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 the following day, Tuesday 11 FEB 2020, at 15:00:00z (CRF 867).

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

READ = 3754531 (partition P8)

WRITE= 3845525 (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	2020-02-16T21:48:36	23947E8
RAM single Bit Error	730	WARN	2020-02-11T21:12:25	2325F44
RAM single Bit Error	730	WARN	2020-02-11T10:35:10	21453E8

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.



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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 following Out of Limits were received on PLPC system at the time of the Mass Memory Latch-up on the 11th of February 2020.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2020-02-11T04:06:59	2020-02-10T21:41:42	DMASME37	SDD LU Detected	FALSE	TRUE
2020-02-11T04:06:59	2020-02-10T21:41:42	DMASME03	LU Switch P9	OFF	ON