



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 10, year 2021

from 08 MAR 2021 to 15 MAR 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 10th calendar week of 2021:

08 MAR 2021 to 15 MAR 2021 (DOYs 067 to 074).

The following routine activities were planned this week (see Gantt chart on next page and CRF 953).

- One PMS Offset on 11 MAR 2021 (DOY 070), including three Short Calibrations at 07:21:00.0z, 07:21:34.8z, and 07:22:09.6z (orbit 59675).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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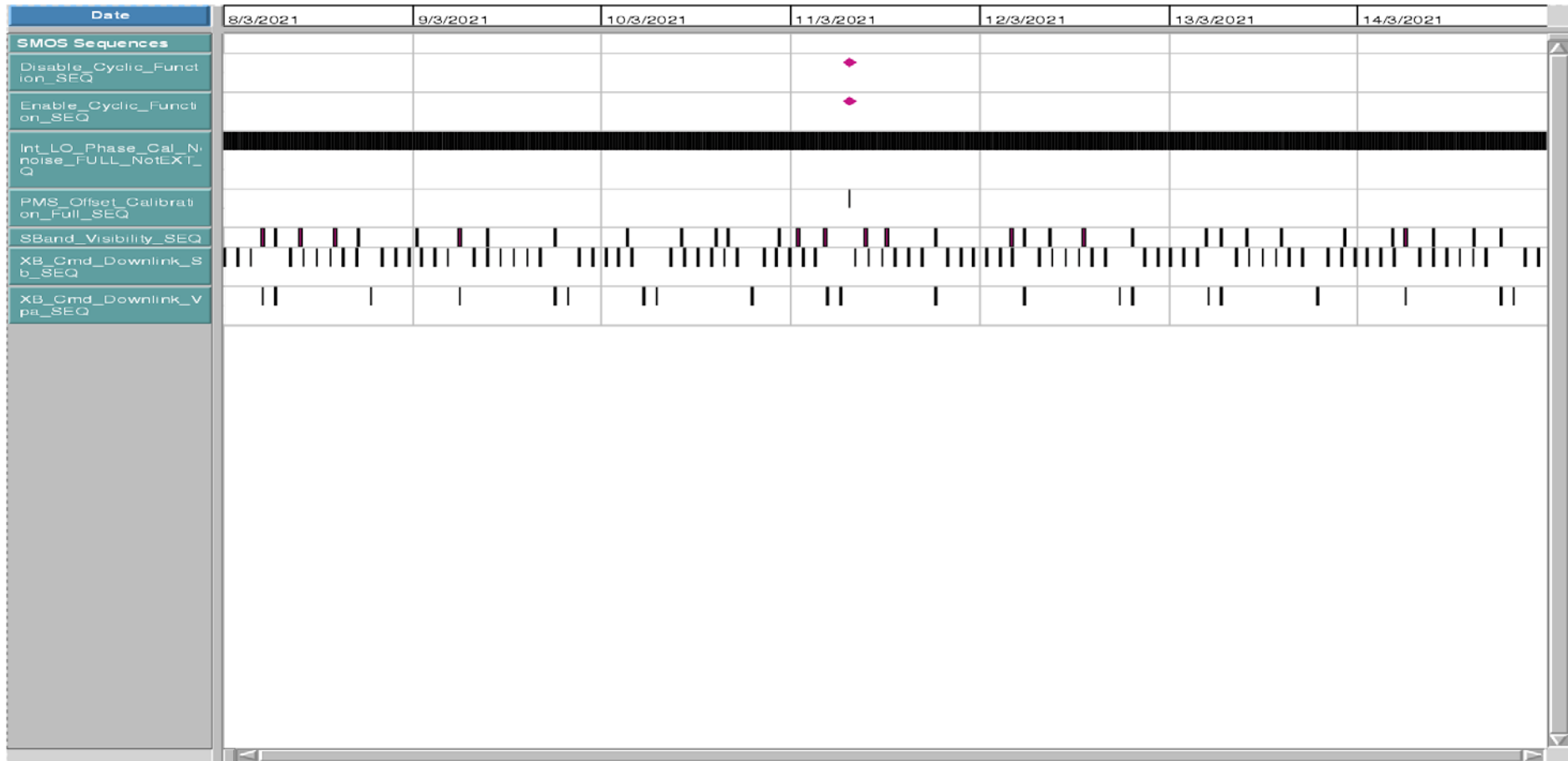
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Schedule Name: 2021_w10_cr ### Display start: 08-03-2021 00:00:00.000 ### Display end: 15-03-2021 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

MIRAS instrument MM, partition P5, latched up 2021-03-11T22:03:49.742z (DOY 070). The following parameters went out of limits in the PLPC system:

2021.070.22.03.49.742z DMASME07 LU Switch P5

2021.070.22.03.49.742z DMASME37 SDD LU Detected

This anomaly was geolocated over north-east side of Chile:

Latitude = -17.38°

Longitude = 296.82°

The anomaly may have created some data losses because read pointer was located in partition P6 while the anomaly happened on P5. Recovery took place on 12 MAR 2021, at 13:30:00z (CRF 955).

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

READ = 2851609 (partition P6)

WRITE = 2938188 (partition P6)

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	2021-03-12T11:13:18	21E4E28

6 FOS Systems Status

Installation of the new FOSVIRT04 server hosting virtual instances of PLPCBKP PXMFBKP was performed on the 10th of March. Physical server was racked/networked by FOS on 26th FEB 2021 and the VMs were brought online operationally by FOS on Wednesday 10 MAR 2021.

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 PXMFB

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

The following two TM parameters went out of limits on the FOS PLPC system at the time of the MM Latch-up anomaly on the 11th of March.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-03-12T04:29:33	2021-03-11T22:03:49	DMASME37	SDD LU Detected	FALSE	TRUE
2021-03-12T04:29:33	2021-03-11T22:03:49	DMASME07	LU Switch P5	OFF	ON