



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 31, year 2020

from 27 JUL 2020 to 03 AUG 2020

1.0

1 General Comments

Activities scheduled for this week are those planned for the 31st calendar week of 2020:

27 JUL 2020 to 03 AUG 2020 (DoYs 209 to 216).

The following routine activities were planned this week (see Gantt chart on next page and CRF 903).

- One PMS Offset on 30 JUL 2020 (DoY 212), including three Short Calibrations at 06:00:30.0z, 06:01:04.8z, and 06:01:39.6z (orbit 56451).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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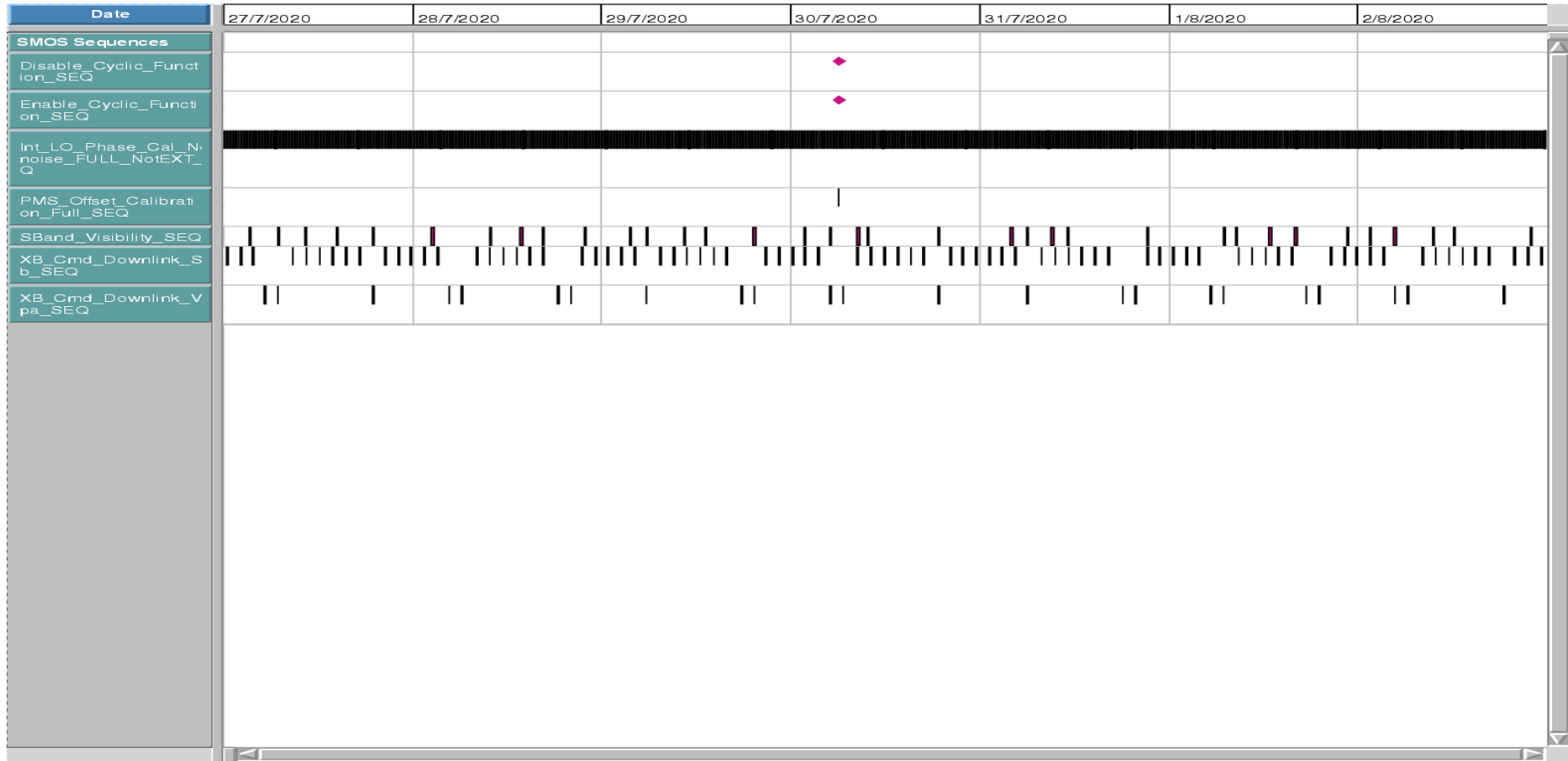
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Schedule Name: 2020_w31_cr ### Display start: 27-07-2020 00:00:00.000 ### Display end: 03-08-2020 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument MM, partition P9, latched up 2020-08-02T09:24:18,552z (DoY 215). The following parameters went out of limits in the PLPC system:

```
2020.215.09.24.18,552z      DMASME03      LU Switch P9
2020.215.09.24.18,552z      DMASME37      SDD LU Detected
```

This anomaly was geolocated over the Estado de São Paulo (Brazil):

```
LAT.      = -23.02°
LONG.     = 312.84°
```

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 P6.

Recovery took place 03 AUG 2020, at 11:15:00z (CRF 905).

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

```
READ      = 2677261      (partition P6)
WRITE     = 2863800      (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	WARNING	2020.215.00.43.59,494	2377428

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.

9 Exceptional Activities

None.



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10 AOB

None.



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APPENDIX A: OOL s

The following OOLs befell at the time the MIRAS instrument MM, partition P9, latched up 2020-08-02T09:24:18,552z (DoY 215):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2020.215.10.07.32,663	2020.215.09.24.18,552	DMASME03	LU Switch P9	OFF	ON
2020.215.10.07.32,663	2020.215.09.24.18,552	DMASME37	SDD LU Detected	FALSE	TRUE