



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 24, year 2021

from 14 JUN 2021 to 21 JUN 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 24th calendar week of 2021:

14 JUN 2021 to 21 JUN 2021 (DOYs 165 to 172).

The following routine activities were planned this week (see Gantt chart on next page and CRF 973).

- One PMS Offset on 17 JUN 2021 (DOY 168), including three Short Calibrations at 07:06:00.0z, 07:06:34.8z, and 07:07:09.6z (orbit 61085).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

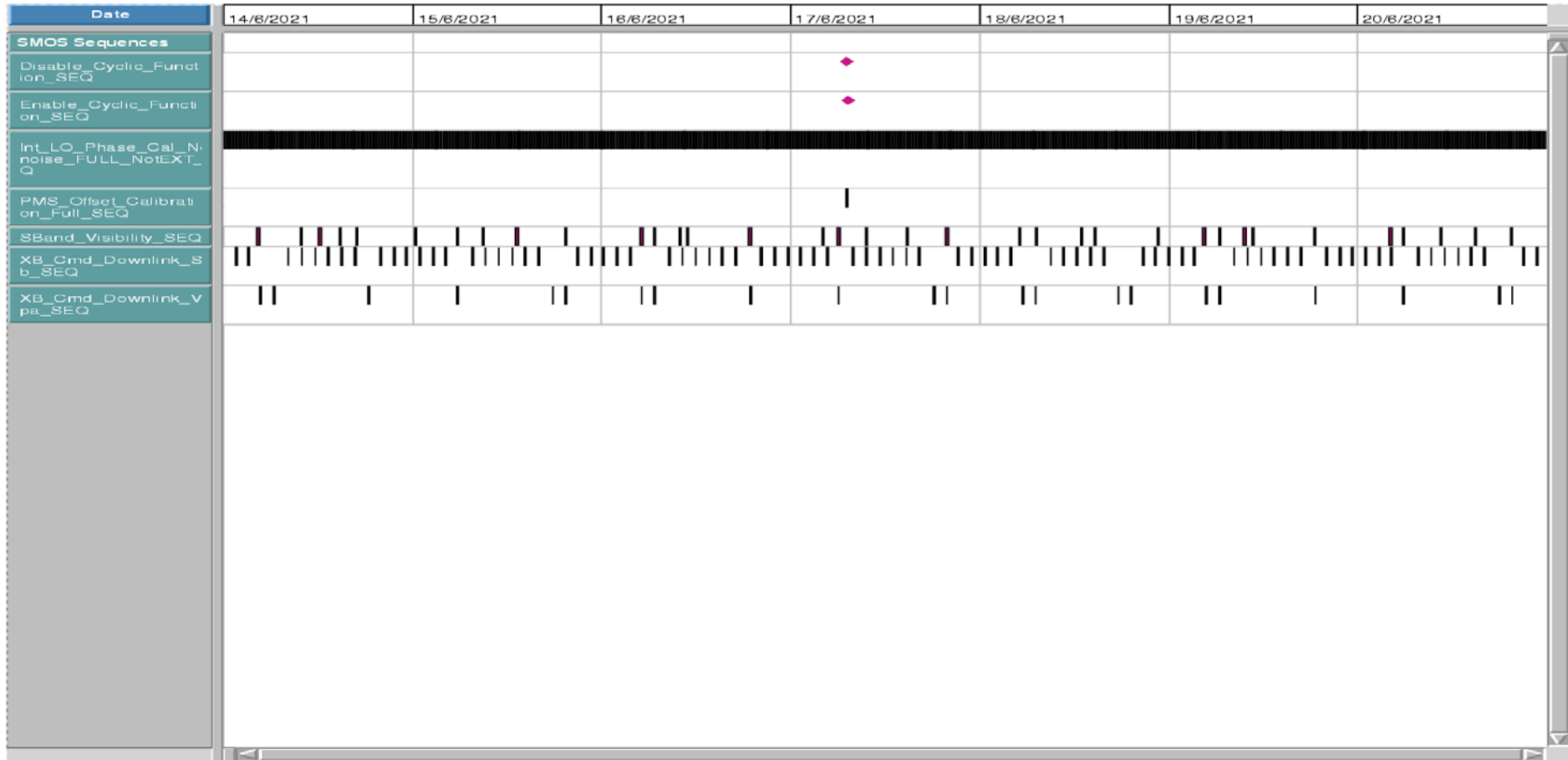
Issue:

FOS Report for week 24, year 2021

from 14 JUN 2021 to 21 JUN 2021

1.0

Schedule Name: 2021_w24_cr ### Display start: 14-06-2021 00:00:00.000 ### Display end: 21-06-2021 00:00:00.000





Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 24, year 2021

from 14 JUN 2021 to 21 JUN 2021

1.0

3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P5, latched up 2021-06-18T03:50:33,626z (DOY 169). The following parameters went out of limits in the PLPC system:

2021.169.03.50.33,626z DMASME07 LU Switch P5

2021.169.03.50.33,626z DMASME37 SDD LU Detected

This anomaly was geolocated over the Baltic Sea:

Latitude = 58.37°

Longitude = 18.81°

There were no science data losses associated with this anomaly because it affected partition P5, while the Read and Write pointers were in partitions P8 and P0 respectively. Recovery took place Monday 21 JUN 2021, at 14:00:00z (CRF 976). At the time of the anomaly the position of the MM pointers were as follows:

READ = 3949960 (partition P8)

WRITE = 197508 (partition P0)

- MIRAS instrument MM, partition P5, latched up 2021-06-14T22:02:38.569z (DOY 165). The following parameters went out of limits in the PLPC system:

2021.165.22.02.38.569z DMASME07 LU Switch P5

2021.165.22.02.38.569z DMASME37 SDD LU Detected

This anomaly was geolocated over the Estado do Amazonas (Brazil):

Latitude = -7.44°

Longitude = 298.56°

There were no science data losses associated with this anomaly because it affected partition P5, while the Read and Write pointers were both in partition P0. Recovery took place Wednesday 16 JUN 2021, at 04:00:00z (CRF 974). At the time of the anomaly the position of the MM pointers were as follows:

READ = 269270 (partition P0)

WRITE = 347400 (partition P0)

5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 24, year 2021

from 14 JUN 2021 to 21 JUN 2021

1.0

Event Description	Packet ID	Severity	Event Time	Parameters
RAM single Bit Error	730	WARN	2021/06/14T22:58:12	202FA08
RAM single Bit Error	730	WARN	2021/06/15T12:07:44	234AC74
RAM single Bit Error	730	WARN	2021/06/19T21:37:45	209D0A0

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.

10 AOB

None.



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

FOS Report for week 24, year 2021

Date:

from 14 JUN 2021 to 21 JUN 2021

Issue:

1.0

APPENDIX A: OOLs

The Mass Memory Latch-up that happened on the 15th of June generated the two following out of limit alarms.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-06-15T00:50:01	2021-06-14T22:02:38	DMASME37	SDD LU Detected	FALSE	TRUE
2021-06-15T00:50:01	2021-06-14T22:02:38	DMASME07	LU Switch P5	OFF	ON

Similar to the previous latch-up, the two following parameters went out of limits on the 18th of June.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-06-18T05:46:00	2021-06-18T03:50:33	DMASME37	SDD LU Detected	FALSE	TRUE
2021-06-18T05:46:00	2021-06-18T03:50:33	DMASME07	LU Switch P5	OFF	ON