



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 46, year 2022

from 14 NOV 2022 to 21 NOV 2022

1.0

1 General Comments

Activities scheduled for this week are those planned for the 46th calendar week of 2022:

14 NOV 2022 to 21 NOV 2022 (DOYs 318 to 325).

The following routine activities were planned this week (see Gantt chart on next page and CRF 1085).

- One PMS Offset on 17 NOV 2022 (DoY 321), including three Short Calibrations at 06:02:00.0z, 06:02:34.8z, and 06:03:09.6z (orbit 68538).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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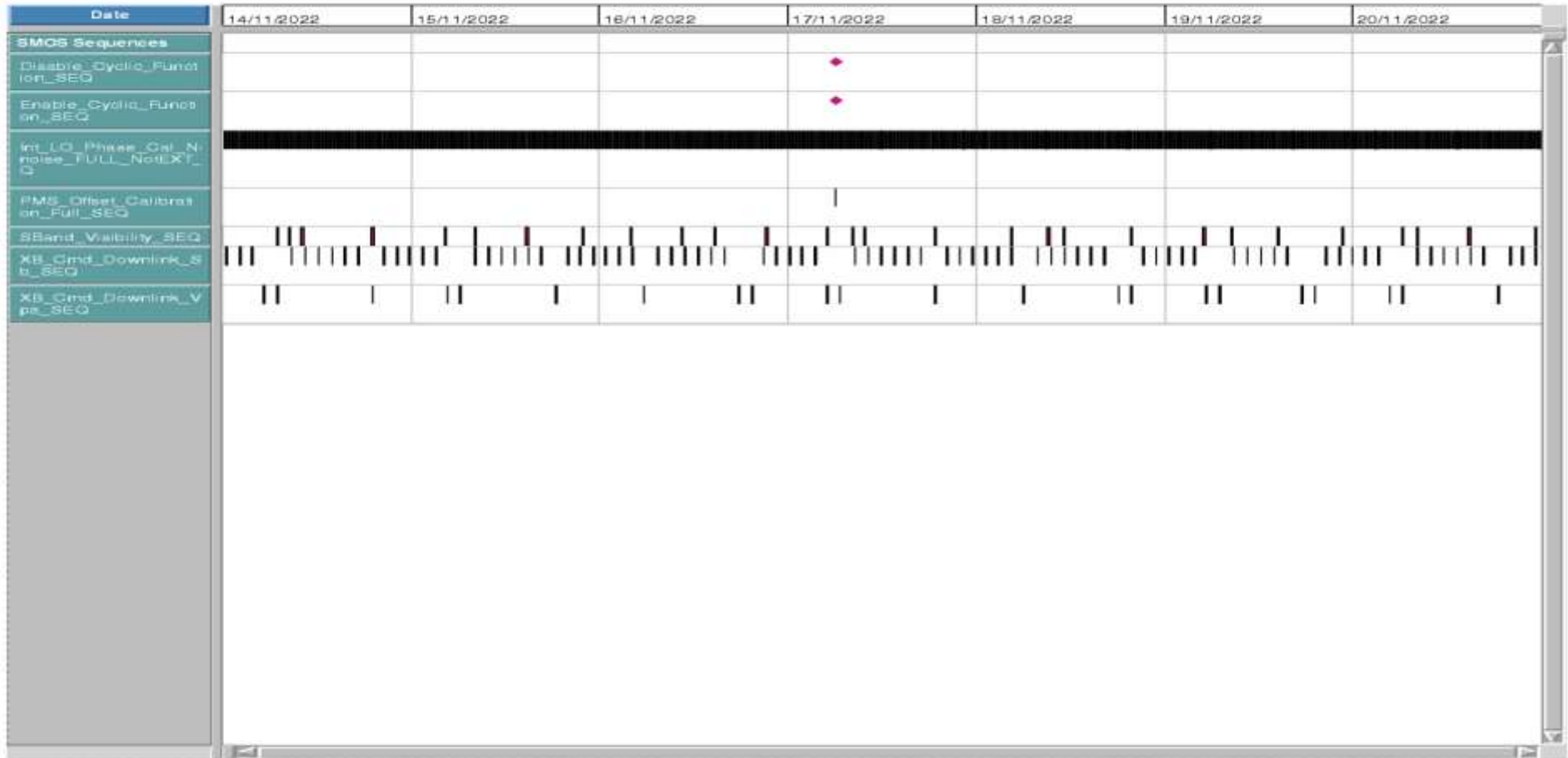
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Schedule Name: 2022_w46_or ### Display start: 14-11-2022 00:00:00.000 ### Display end: 21-11-2022 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P0, latched up 2022-11-20T07:46:42,328z (DOY 324). The following parameters went out of limits in the PLPC system:

2022.324.07:46:42,328z DMASME12 LU Switch P0

2022.324.07:46:42,328z DMASME37 SDD LU Detected

This anomaly was geolocated over South Atlantic Ocean:

Latitude = -21.77°

Longitude = 337.05°

There were no science data losses associated with this anomaly because it affected partition P0, while the Read and Write pointers were both in partition P4. Recovery took place Monday 21 NOV 2022, at 12:42:19z (CRF No. 1087). Data losses occurred during recovery as it was partition P0 that latched up. At the time of the anomaly the position of the MM pointers were as follows:

READ = 1927829 (partition P4)

WRITE = 2147730 (partition P4)

- MIRAS instrument MM, partition P8, latched up 2022-11-18T15:17:51,295z (DOY 322). The following parameters went out of limits in the PLPC system:

2022.322.15.17.51,295z DMASME04 LU Switch P8

2022.322.15.17.51,295z DMASME37 SDD LU Detected

This anomaly was geolocated over the Antarctic Ocean, due south of Africa:

Latitude = -60.77°

Longitude = 25.52°

There were 2959 s of science data lost because of this anomaly since it affected partition P8, while the Read and Write pointers were both in partition P8. Recovery took place Monday 21 NOV 2022, at 12:42:19z (CRF No. 1087). At the time of the anomaly the position of the MM pointers were as follows:

READ = 3862199 (partition P8)

WRITE = 3970191 (partition P8)



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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	2022-11-15T22:50:03	215FC48
RAM single Bit Error	730	WARN	2022-11-19T20:50:19	2303DEC

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.



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APPENDIX A: OOLs

Mass Memory latch-up of partition P0 generated the two following out of limits on FOS PLPC system

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2022-11-20T08:37:42	2022-11-20T07:46:42	DMASME37	SDD LU Detected	FALSE	TRUE
2022-11-20T08:37:42	2022-11-20T07:46:42	DMASME12	LU Switch P0	OFF	ON

Latch-up of partition P8 generated the two following out of limit son FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2022-11-18T20:15:04	2022-11-18T15:17:51	DMASME37	SDD LU Detected	FALSE	TRUE
2022-11-18T20:15:04	2022-11-18T15:17:51	DMASME04	LU Switch P8	OFF	ON