



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 25, year 2021

from 21 JUN 2021 to 28 JUN 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 25th calendar week of 2021:

21 JUN 2021 to 28 JUN 2021 (DOYs 172 to 179).

The following routine activities were planned this week (see Gantt chart on next page and CRF 974).

- One Warm NIR Calibration on 23 JUN 2021 (DOY 174) with ETO 04:20:37z (orbit 61170; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.50°
R.M.S.	=	0.12
Sun elevation	=	8.00°
Moon elevation	=	9.97°
R.A.	=	186.2°
DEC.	=	31.8°
- Two LONG Calibrations on 24 JUN 2021 (DOY 175), which encompassed two ascending semi-orbital periods starting at 14:00:00z (orbit 61190) and 15:41:00z (orbit 61191).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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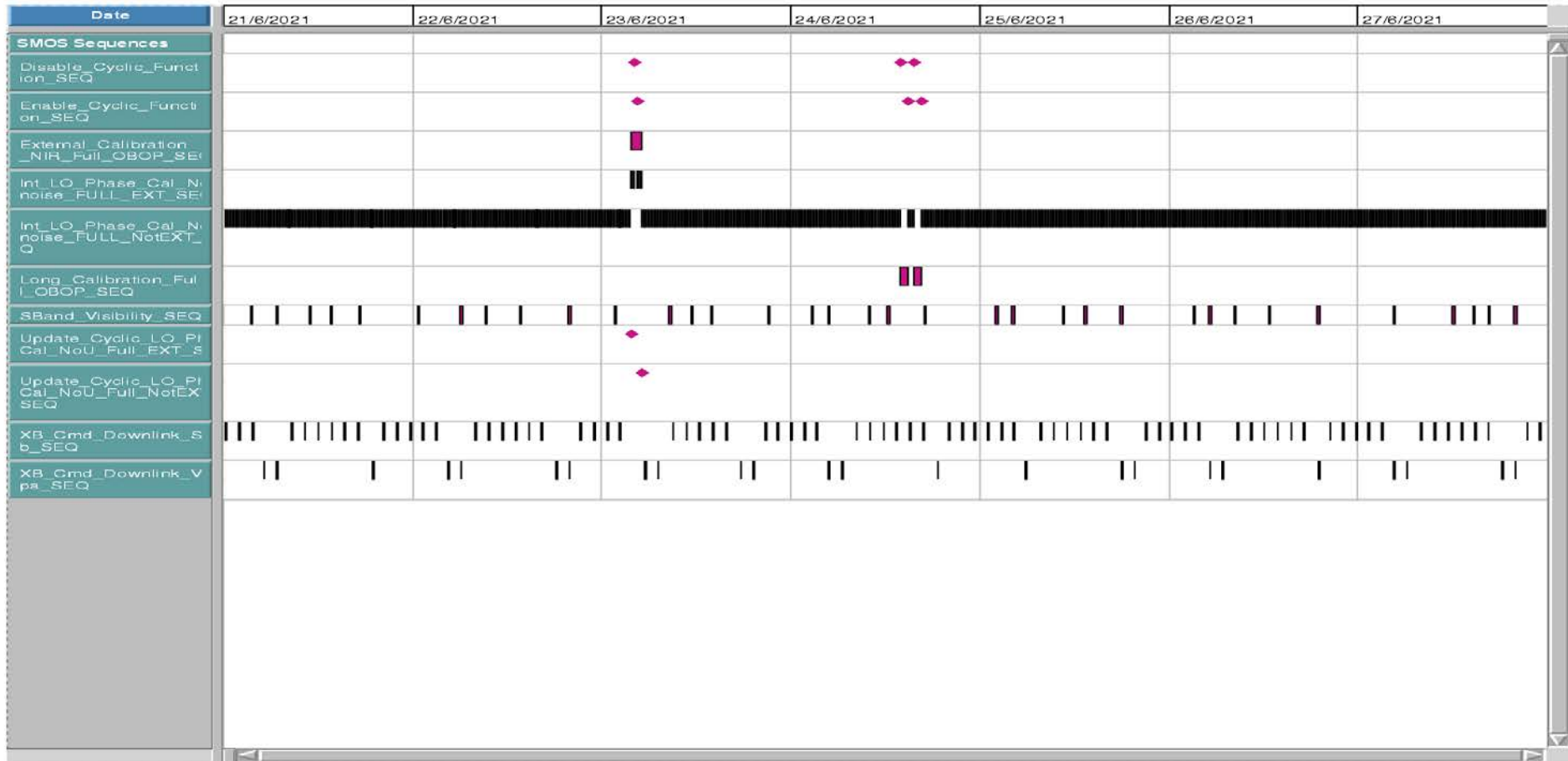
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Schedule Name: 2021_w25_cr ### Display start: 21-06-2021 00:00:00.000 ### Display end: 28-06-2021 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit C3, unlocked 2021-06-27T21:56:59.656z (DOY 178). This anomaly was geolocated over the Amazonas/Mato Grosso state border (Brazil):

Latitude = -8.85°

Longitude = 299.76°

Only locking status parameter SPM22167, went out of limits in the FOS PLPC system. The anomaly recovered in 12 epochs.

- MIRAS instrument MM, partition P2, latched up 2021-06-25T19:19:35.797z (DOY 176). The following parameters went out of limits in the PLPC system:

2021.176.19.19.35.797z DMASME10 LU Switch P2

2021.176.19.19.35.797z DMASME37 SDD LU Detected

This anomaly was geolocated over the coast of Ojotsk sea (North-East of Russia):

Latitude = 59.59°

Longitude = 145.96°

There were no science data losses associated with this anomaly because it affected partition P2, while the Read and Write pointers were both in partition P8. Recovery took place Tuesday 29 JUN 2021, at 06:00:00z (CRF 978). At the time of the anomaly the position of the MM pointers were as follows:

READ = 3779575 (*partition P8*)

WRITE = 3987438 (*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	2021-06-24T05:11:05	21EDBB8

6 FOS Systems Status

All FOS systems nominal.



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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

The unlock of C3 unit generated the following temporal out of limits on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-06-27T02:12:46	2021-06-27T21:56:59	SPM22167	C3 LO_Locking	Unlock	Lock

Mass Memory latch-up anomaly on the 25th of June generated the two following out of limits on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-06-26T03:35:31	2021-06-25T19:19:35	DMASME37	SDD LU Detected	FALSE	TRUE
2021-06-26T03:35:31	2021-06-25T19:19:35	DMASME10	LU Switch P2	OFF	ON