



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 21, year 2021

from 24 MAY 2021 to 31 MAY 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 21st calendar week of 2021:

24 MAY 2021 to 31 MAY 2021 (DOYs 144 to 151).

The following routine activities were planned this week (see Gantt chart on next page and CRF 969).

- One Warm NIR Calibration on 26 MAY 2021 (DOY 146) with ETO 05:50:05z (orbit 60768; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.50°
R.M.S.	=	0.10
Sun elevation	=	6.20°
Moon elevation	=	-4.08°
R.A.	=	158.95°
DEC.	=	33.72°
- One PMS Offset on 27 MAY 2021 (DOY 147), including three Short Calibrations at 05:43:30.0z, 05:44:04.8z, and 05:44:39.6z (orbit 60782).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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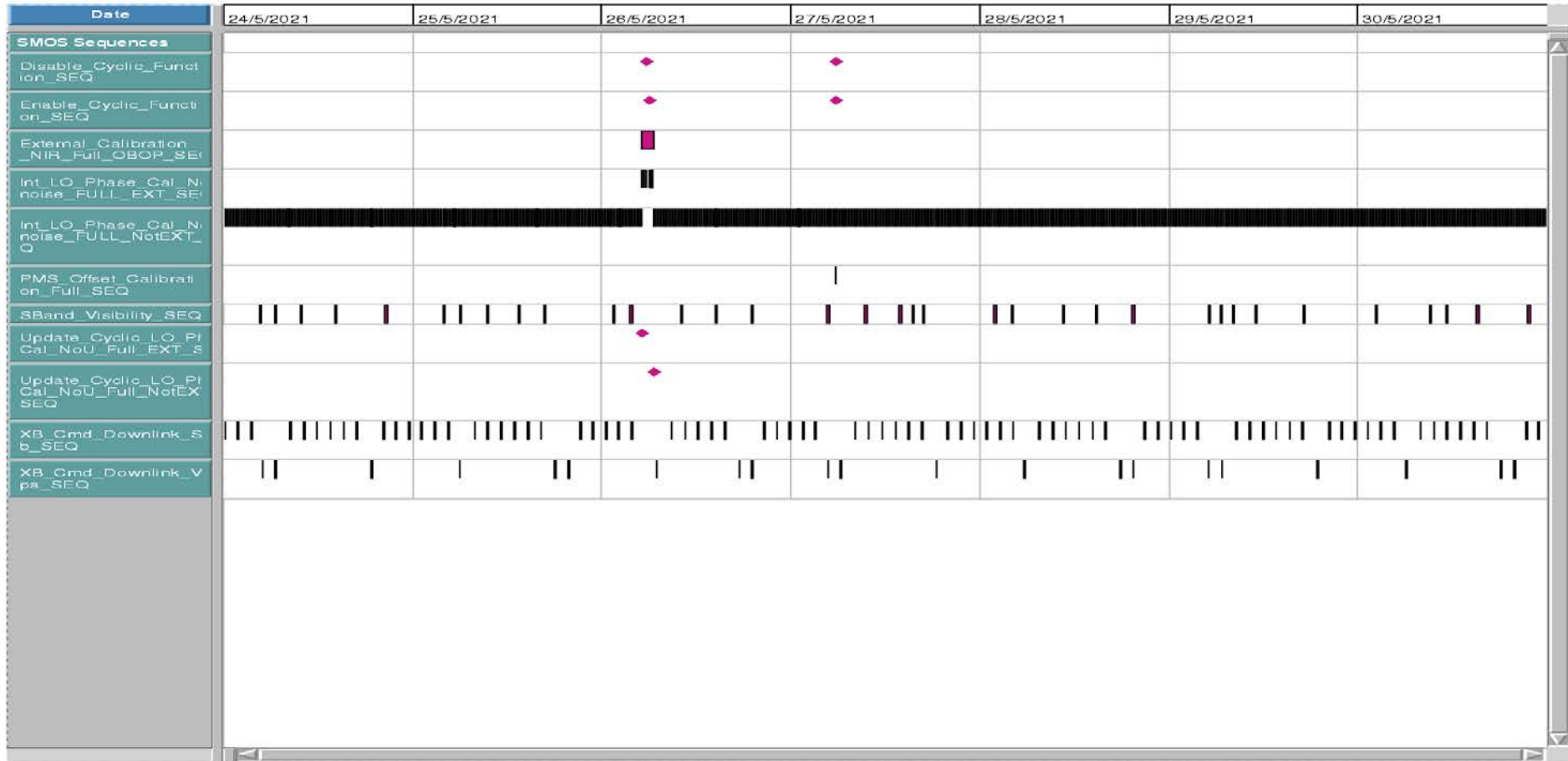
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Schedule Name: 2021_w21_cr ### Display start: 24-05-2021 00:00:00.000 ### Display end: 31-05-2021 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

The MIRAS CMN, unit C1, unlocked 2021-05-29T20:48:35.828z (DOY 149). This anomaly was geolocated over Minas Gerais state (Brazil)

Latitude = -17.03°

Longitude = 315.71°

Both parameters, output power SPM20162 and locking status SPM20167, went out of limits in the FOS PLPC system. The anomaly recovered by itself in few seconds

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	2021-05-26T08:33:26	232D6AC
RAM single Bit Error	730	WARN	2021-05-28T21:50:30	216B02C

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

The CMN unlock anomaly on the 29th of may , generated the two following temporary out of limits on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-05-30T02:47:25	2021-05-29T20:48:32	SPM20162	C1 LO_Out_Power	NOT-OK	OK
2021-05-30T02:47:25	2021-05-29T20:48:35	SPM20167	C1 LO_Locking	UNLOCK	LOCK