



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 21, year 2022

from 23 MAY 2022 to 30 MAY 2022

1.0

1 General Comments

Activities scheduled for this week are those planned for the 21st calendar week of 2022:

23 MAY 2022 to 30 MAY 2022 (DOYs 143 to 150).

The following routine activities were planned this week (see Gantt chart on next page and CRF 1050).

- One Warm NIR Calibration on 25 MAY 2022 (DOY 145) with ETO 06:20:59z (orbit 66006; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.50°
R.M.S.	=	0.10
Sun elevation	=	6.01°
Moon elevation	=	-50.31°
R.A.	=	157.64°
DEC.	=	33.37°
- One PMS Offset on 26 MAY 2022 (DOY 146), including three Short Calibrations at 06:14:30.0z, 06:15:04.8z, and 06:15:39.6z (orbit 66020).
- Local Oscillator Calibrations every 10 minutes.
- PROTEUS Gyro Calibration on 24 MAY 2022, starting 01:28:51.447z, ending 03:09:19.542z. MIRAS ITL was disabled between these two times and MIRAS APID marked as external.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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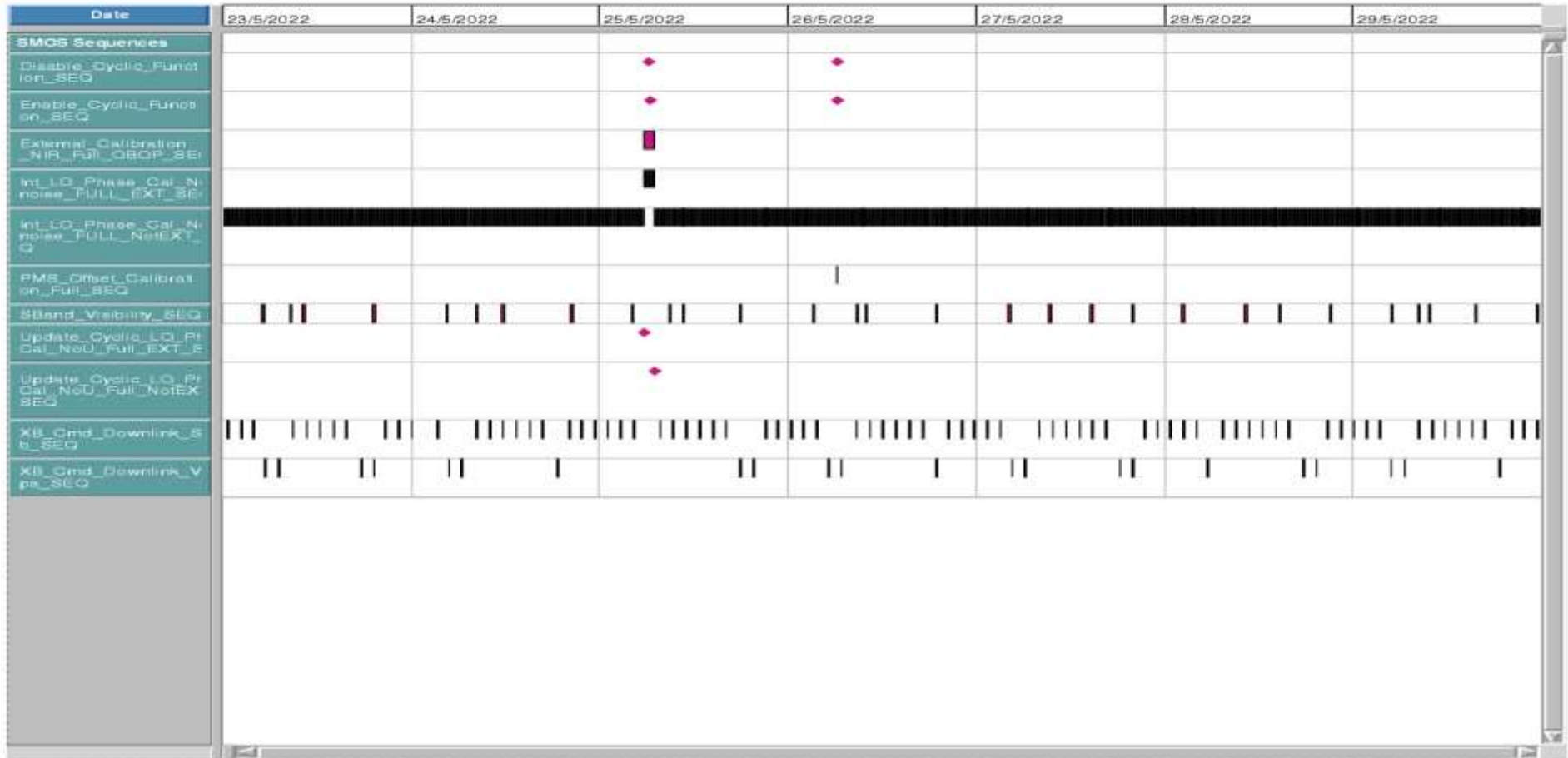
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Schedule Name: 2022_w21_02 ### Display start: 23-05-2022 00:00:00.000 ### Display end: 30-05-2022 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit H3, unlocked 2022-05-26T22:36:14.928z (DOY 146). This anomaly was geolocated over Titicaca lake area (Perú)

Latitude = -14.95°

Longitude = 288.99°

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 11 epochs.

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	2022-05-23T12:45:28	233A764
RAM single Bit Error	730	WARN	2022-05-25T17:04:41	2300D60
RAM single Bit Error	730	WARN	2022-05-27T23:03:51	2235A04

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

During the Gyro calibration manoeuvre the following TM parameter went out of limits on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022-05-24T05:08:29	2022-05-24T01:28:32	NLHK022	ITL Ena State	Disabled	Enabled

The two following TM parameters went out of limits on the FOS PLPC system at the time of the CMN unlock on the 26th of May.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022-05-27T04:42:59	2022-05-26T22:36:14	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2022-05-27T04:42:59	2022-05-26T22:36:19	SPM13167	H3 LO_Locking	UNLOCK	LOCK