



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 37, year 2022

from 12 SEP 2022 to 19 SEP 2022

1.0

1 General Comments

Activities scheduled for this week are those planned for the 37th calendar week of 2022:

12 SEP 2022 to 19 SEP 2022 (DOYs 255 to 262).

The following routine activities were planned this week (see Gantt chart on next page and CRF 1074).

- One Warm NIR Calibration on 14 SEP 2022 (DOY 257) with ETO 16:11:56z (orbit 67623; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.85°
R.M.S.	=	0.57
Sun elevation	=	4.00°
Moon elevation	=	22.98°
R.A.	=	88.53°
DEC.	=	-31.97°
- One PMS Offset on 15 SEP 2022 (DOY 258), including three Short Calibrations at 06:54:30.0z, 06:55:04.8z, and 06:55:39.6z (orbit 67632).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.
- A routine Orbit Correction Manoeuvre (OCM) was scheduled for 18 SEP 2022 at 22:34:32z. The affected time period went from 2022-09-18T22:26:03z to 2022-09-18T22:45:37z. Science data for that period was flagged with an external APID.

2 Mission Planning Deviations

None.



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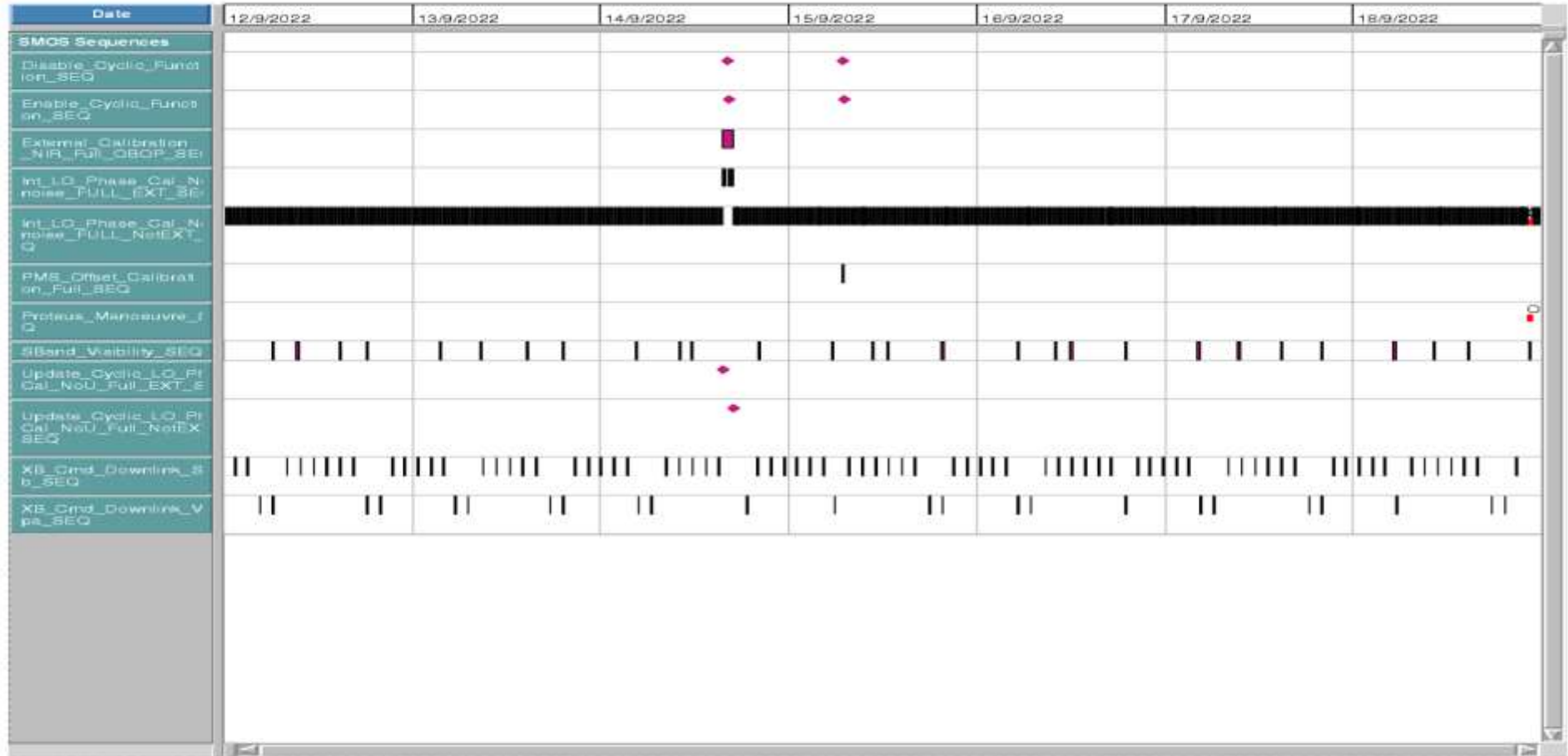
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Schedule Name: 2022_w37_or ### Display start: 12-09-2022 00:00:00.000 ### Display end: 19-09-2022 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit B3, unlocked 2022-09-13T02:15:50.848z (DOY 161). This anomaly was geolocated over the Oblast of Kostroma (Russia):

Latitude = 58.78°

Longitude = 42.22°

Both parameters, output power SPM19162 and locking status SPM19167, went out of limits in the FOS PLPC system. The anomaly recovered in 3 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	2022-09-13T21:16:31	2394B24
RAM single Bit Error	730	WARN	2022-09-16T08:26:20	2173B74

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 PXM

None, all S band passes successfully received and processed.

9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

The following TM parameter went temporary out of limits on the PLPC system at the time of the OCM manoeuvre on the 18th of September:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022-09-19T05:01:08	2022-09-18T22:25:55	NTLHK022	ITL Ena State	Disabled	Enable

The CMN unlock of B3 unit generated the two following temporary out of limits on the PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022-09-13T04:12:31	2022-09-13T02:15:50	SPM19162	B3 LO_Out_Power	NOT-OK	OK
2022-09-13T04:12:31	2022-09-13T02:15:52	SPM19167	B3 LO_Locking	UNLOCK	LOCK