



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 15, year 2021

from 12 APR 2021 to 19 APR 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 15th calendar week of 2021:

12 APR 2021 to 19 APR 2021 (DOYs 102 to 109).

The following routine activities were planned this week (see Gantt chart on next page and CRF 960).

- One Warm NIR Calibration on 14 APR 2021 (DOY 104) with ETO 04:46:52z (orbit 60163; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.75°
R.M.S.	=	0.53
Sun elevation	=	0.25°
Moon elevation	=	21.84°
R.A.	=	116.07°
DEC.	=	26.67°
- One PMS Offset on 15 APR 2021 (DoY 105), including three Short Calibrations at 06:18:30.0z, 06:19:04.8z, and 06:19:39.6z (orbit 60178).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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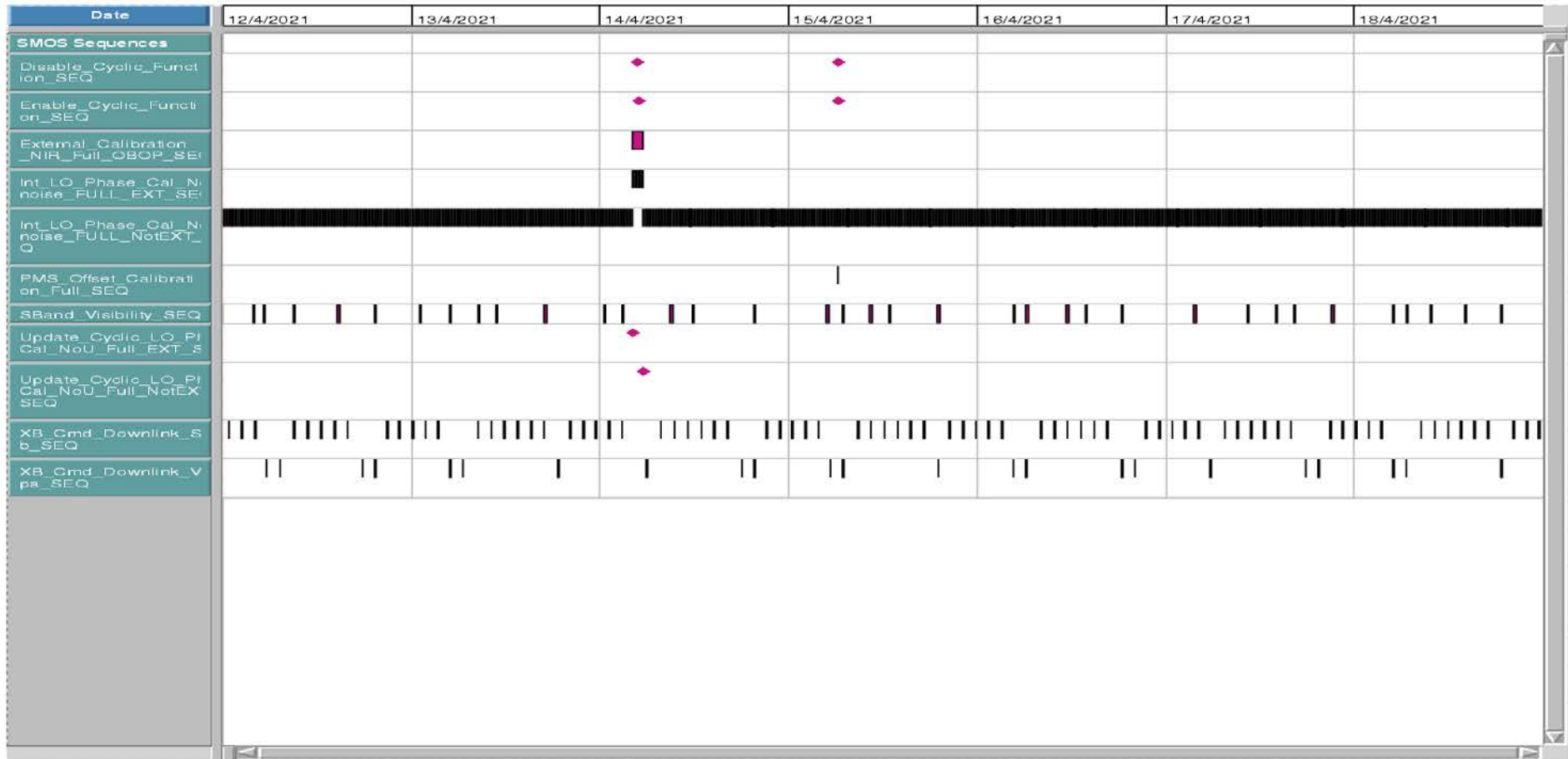
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Schedule Name: 2021_w15_cr ### Display start: 12-04-2021 00:00:00.000 ### Display end: 19-04-2021 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P1, latched up (DOY 108) 2021-04-18T22:28:23.695z. The following parameters went out of limits in the PLPC system:

2021.108.22.28.23,695z DMASME11 LU Switch P1

2021.108.22.28.23,695z DMASME37 SDD LU Detected

This anomaly was geolocated just off the coast of central Chile:

Latitude = -32.21°

Longitude = 287.89°

There were no science data losses associated with this anomaly because it affected partition P1, while the Read and Write pointers were both in partition P0. Recovery will take place 20 APR 2021, at 01:00:00z (CRF 963). At the time of the anomaly the position of the MM pointers were as follows:

READ = 35153 (partition P0)

WRITE = 130665 (partition P0)

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	2021.104.11.56.32.714	21C2820

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.



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10 AOB

None.



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APPENDIX A: OOLs

The two following OOLs were received on the PLPC system at the time of the MM memory latch-up on the 18th of April.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021.109.04.31.17.550	2021.108.22.28.23.695	DMASME37	SDD LU Detected	TRUE	FALSE
2021.109.04.31.17.550	2021.108.22.28.23.695	DMASME11	LU Switch P1	OFF	ON