



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 49, year 2019

from 02 DEC 2019 to 09 DEC 2019

1.0

1 General Comments

Activities scheduled for this week are those planned for the 49th calendar week of 2019:

02 DEC 2019 to 09 DEC 2019 (DOYs 336 to 343).

The following routine activities were planned this week (see Gantt chart on next page and CRF 854).

- One Warm NIR Calibration on 04 DEC 2019 (DOY 338) with ETO 16:27:34z (orbit 53018; ASCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.75°
R.M.S.	=	0.23
Sun elevation	=	9.30°
Moon elevation	=	-67.07°
R.A.	=	164.66°
DEC.	=	-12.83°
- Two LONG Calibrations on 05 DEC 2019 (DOY 339), which encompassed two ascending semi-orbital periods starting at 13:31:00z (orbit 53031) and 15:11:05z (orbit 53032).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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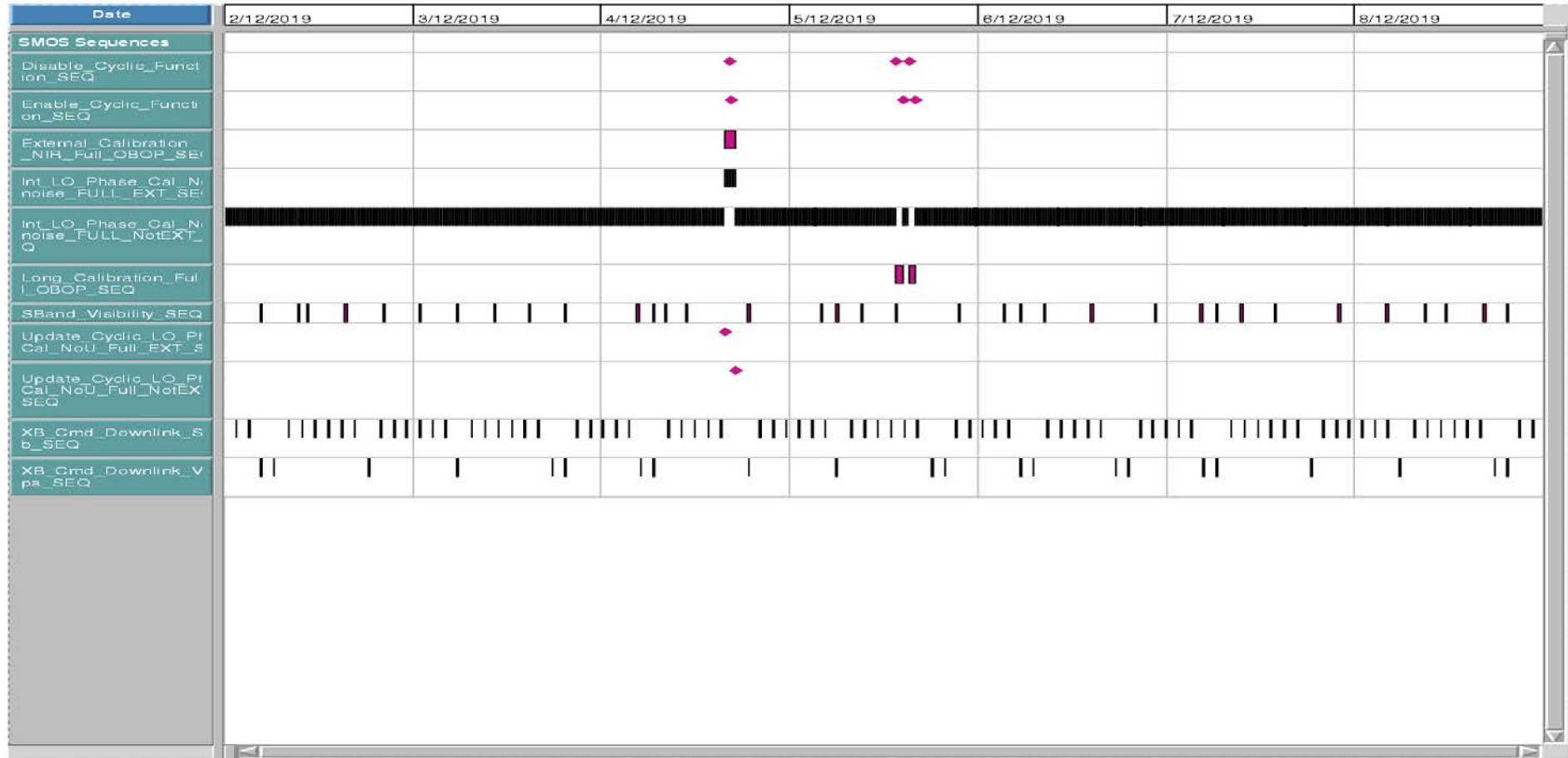
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Schedule Name: 2019_w49_cr ### Display start: 02-12-2019 00:00:00.000 ### Display end: 09-12-2019 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit C3, unlocked on 2019-12-05T10:47:55.271z (DOY 334). This anomaly was geolocated over Titicaca lake (Perú)

Latitude = -15.32°

Longitude = 290.71°

Only locking status TM SPM22167 went out of limits in the FOS PLPC system. The anomaly recovered in 7 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	2019-12-04T21:48:30	23A8E7C
RAM single Bit Error	730	WARN	2019-12-03T10:23:07	22B0EB8
RAM single Bit Error	730	WARN	2019-12-02T17:58:24	20E24A0

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 on the 5th of December generated the following temporary out of limits on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019-12-05T14:06:16	2019-12-05T10:47:55	SPM22167	C3 LO_Locking	UNLOCK	LOCK