



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 21, year 2019

from 20 MAY 2019 to 27 MAY 2019

1.0

1 General Comments

Activities scheduled for this week are those planned for the 21st calendar week of 2019:

20 MAY 2019 to 27 MAY 2019 (DoYs 140 to 147).

The following routine activities were planned this week (see Gantt chart on next page and CRF 811).

- One Warm NIR Calibration on 22 MAY 2019 (DoY 142) with ETO 06:02:30z (orbit 50192; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.52°
R.M.S.	=	0.11
Sun elevation	=	4.52°
Moon elevation	=	-43.89°
R.A.	=	153.34°
DEC.	=	27.69°
- One PMS Offset on 23 MAY 2019 (DoY 143), including three Short Calibrations at 07:34:30.0z, 07:35:04.8z, and 07:35:39.6z (orbit 50207).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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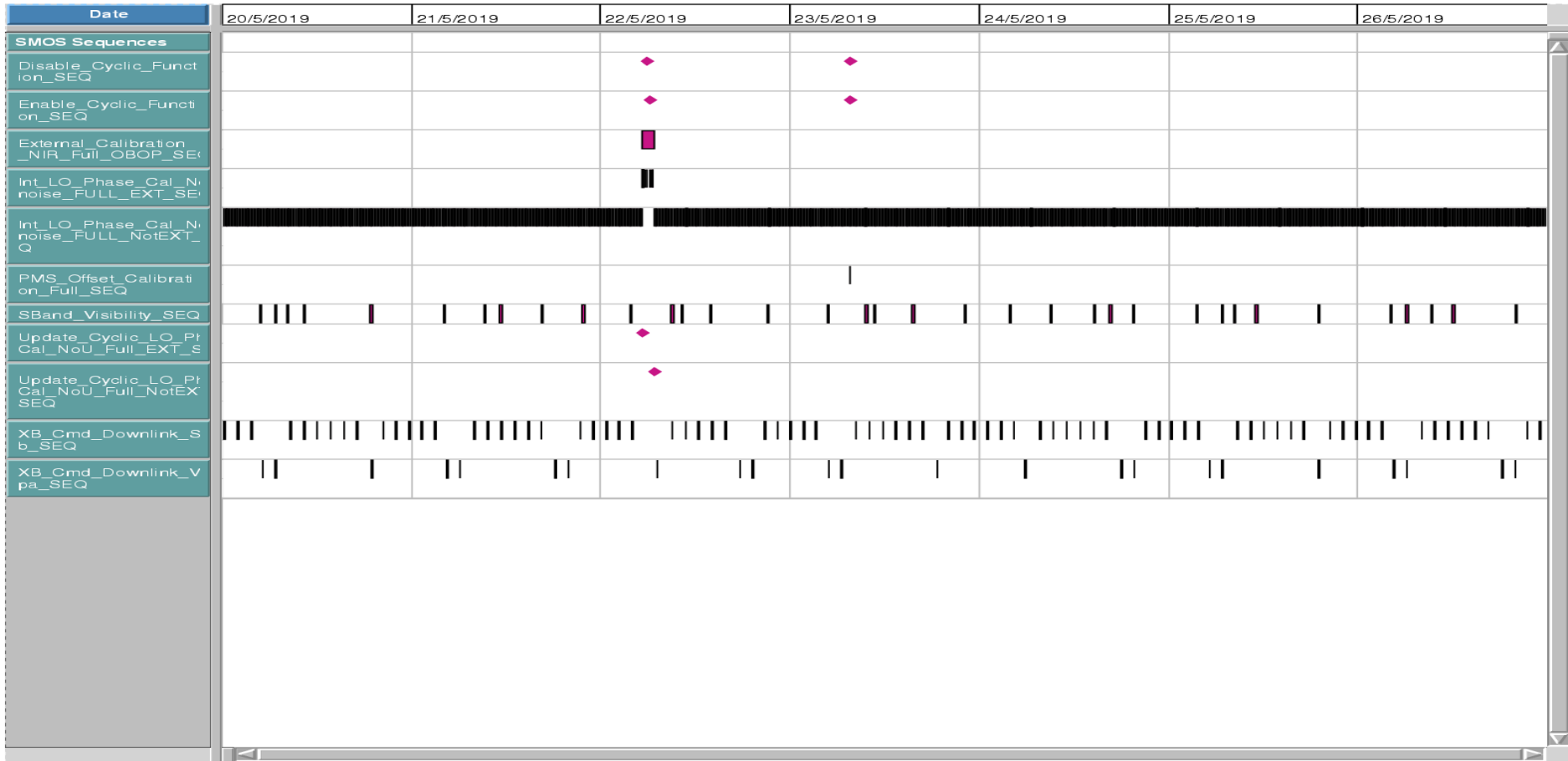
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Schedule Name: 2019_w21_cr ### Display start: 20-05-2019 00:00:00.000 ### Display end: 27-05-2019 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit H3, unlocked 2019-05-21T21:58:15,017z (DoY 141). This anomaly was geolocated over Córdoba (Argentina):

$$LAT. = -30.12^\circ$$

$$LONG. = 295.84^\circ$$

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 6 epochs.

- The MIRAS instrument CMN, unit C3, unlocked 2019-05-26T05:36:21,510z (DoY 146). This anomaly was geolocated over Antarctica:

$$LAT. = -76.03^\circ$$

$$LONG. = 149.81^\circ$$

Only parameter SPM22167, locking status, went out of limits in the FOS PLPC system. The anomaly recovered in 3 epochs.

5 On Board Events Telemetry

None.

6 FOS Systems Status

- Following the successful live test of the new FOS-CNES back-up line for S band TM delivery (now based on ESA Corporate Network) last 10 MAY 2019, Telefónica (via ESAC IT) was asked 20 MAY 2019 to decommission the old ISDN set-up.

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 following OOL befell at the time the MIRAS instrument CMN, unit H3, unlocked 2019-05-21T21:58:15,017z (DoY 141):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019.142.04.15.42,391	2019.141.21.58.15,017	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2019.142.04.15.44,120	2019.141.21.58.19,817	SPM13167	H3 LO_Locking	UNLOCK	LOCK

The following OOL befell at the time the MIRAS instrument CMN, unit C3, unlocked 2019-05-26T05:36:21,510z (DoY 146):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019.146.06.42.38,305	2019.146.05.36.21,510	SPM22167	C3 LO_Locking	UNLOCK	LOCK