



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 28, year 2019

from 08 JUL 2019 to 15 JUL 2019

1.0

1 General Comments

Activities scheduled for this week are those planned for the 28th calendar week of 2019:

08 JUL 2019 to 15 JUL 2019 (DOYs 189 to 196).

The following routine activities were planned this week (see Gantt chart on next page and CRF 820).

- One PMS Offset on 11 JUL 2019 (DOY 192), including three Short Calibrations at 07:27:00.0z, 07:27:34.8z, and 07:28:09.6z (orbit 50912).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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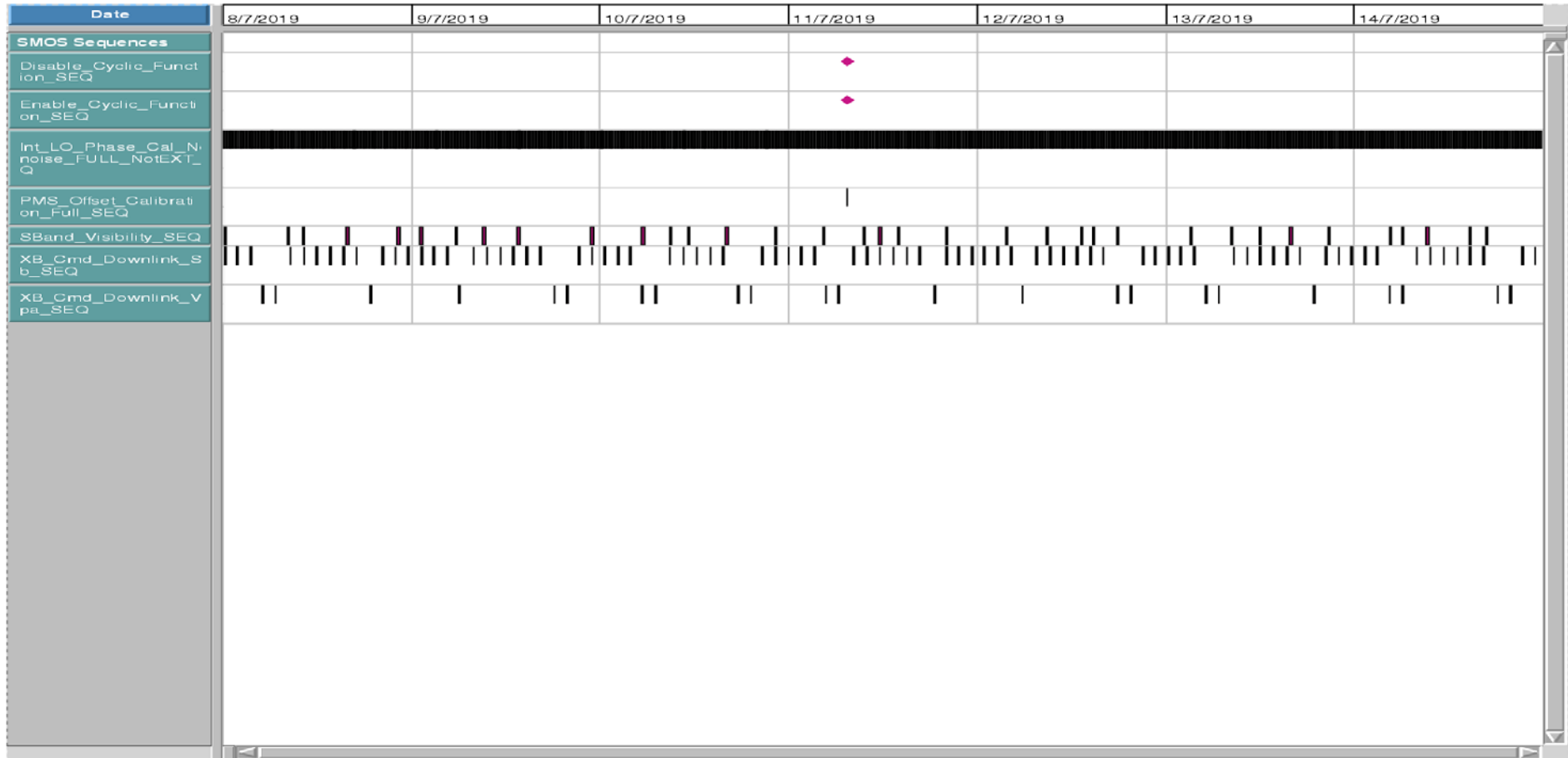
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Schedule Name: 2019_w28_cr ### Display start: 08-07-2019 00:00:00.000 ### Display end: 15-07-2019 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit H3, unlocked 2019-07-11T20:30:28.437z (DOY 192). This anomaly was geolocated off the coast of Espiritu Santo state (Brazil)

Latitude = -20.88°

Longitude = 319.50°

Both TM parameters, locking status SPM13167 parameter and Output power SPM13162 went temporarily out of limits in the FOS PLPC system.

- The MIRAS CMN, unit H3, unlocked 2019-07-09T13:45:28.695z (DOY 190). This anomaly was geolocated over Antarctica:

Latitude = -79.54°

Longitude = 10.84°

Only locking status SPM13167 parameter went temporarily out of limits in the FOS PLPC system. The anomaly recovered in 5 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	2019-07-14T10:03:33	22C0360
RAM single Bit Error	730	WARN	2019-07-13T23:25:45	20DA928
RAM single Bit Error	730	WARN	2019-07-13T21:46:40	2173C1C
RAM single Bit Error	730	WARN	2019-07-10T11:56:58	20E4AE8
RAM single Bit Error	730	WARN	2019-07-08T11:05:24	203F2EC
RAM single Bit Error	730	WARN	2019-07-08T10:37:35	234A988

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.



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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 following TM parameters went temporary out of limits on the FOS PLPC system at the time of the CMN Unlock on the 12th of July.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019-07-12T04:11:37	2019-07-11T20:30:28	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2019-07-12T04:11:37	2019-07-11T20:30:33	SPM13167	H3 LO_Locking	UNLOCK	LOCK

The first CMN Unlock of the week on the 9th of July, generated the following temporary out of limits on the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019-07-09T23:18:16	2019-07-09T13:45:28	SPM13167	H3 LO_Locking	UNLOCK	LOCK