



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 18, year 2018

from 30 APR 2018 to 07 MAY 2018

1.0

1 General Comments

Activities scheduled for this week are those planned for the 18th calendar week of 2018:

30 APR 2018 to 07 MAY 2018 (DOYs 120 to 127).

The following routine activities were planned this week (see Gantt chart on next page and CRF 736).

- One Warm NIR Calibration on 02 MAY 2018 (DOY 122) with ETO 16:56:15z (orbit 44659; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	4.44°
R.M.S.	=	1.31
Sun elevation	=	4.64°
Moon elevation	=	17.46°
R.A.	=	305.22°
DEC.	=	32.36°
- One PMS Offset on 03 MAY 2018 (DOY 123), including three Short Calibrations at 07:21:00.0z, 07:21:34.8z, and 07:22:09.6z (orbit 44667).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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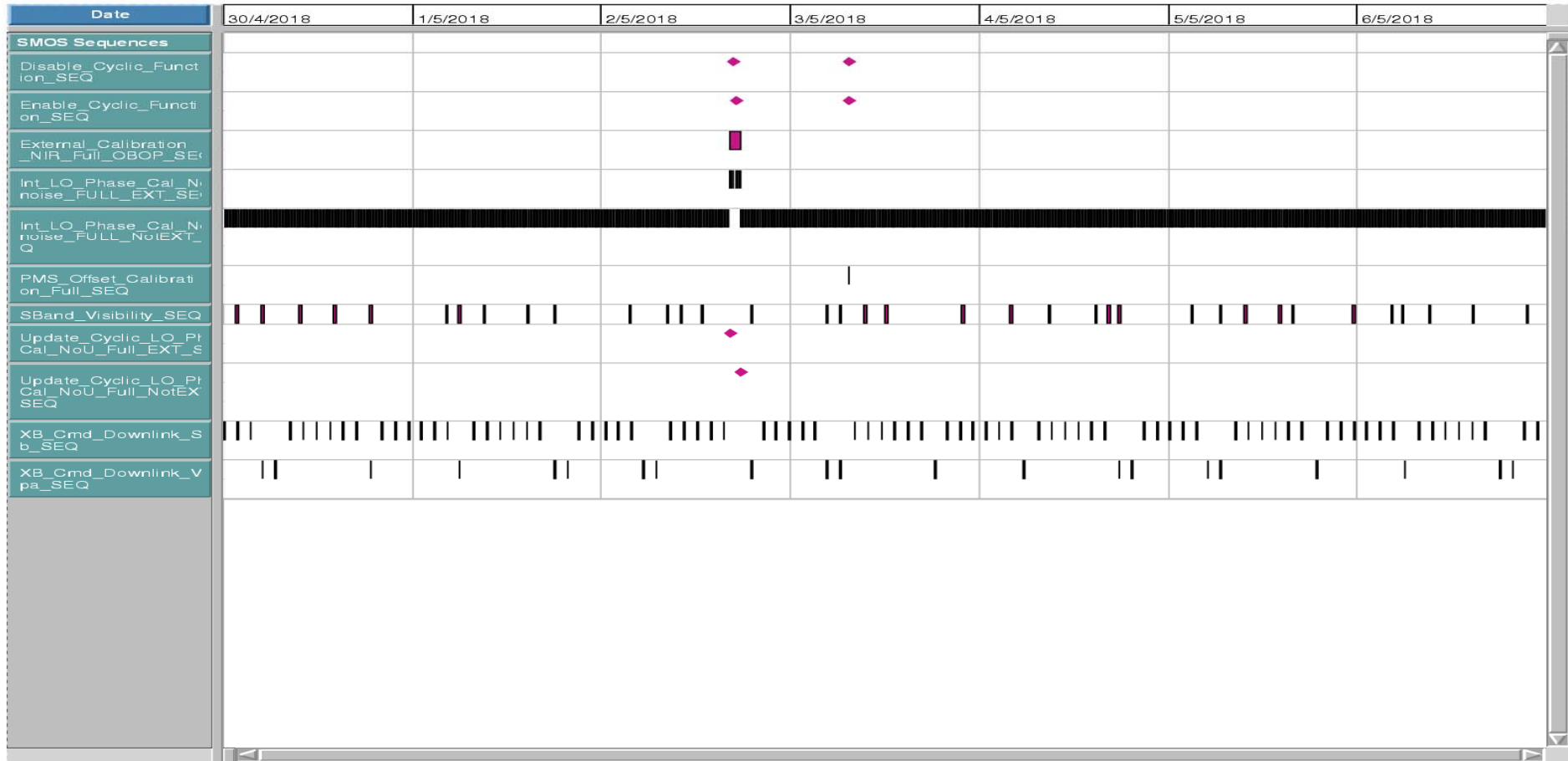
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Schedule Name: 2018_w18_cr ### Display start: 30-04-2018 00:00:00.000 ### Display end: 07-05-2018 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument CMN, unit H3, unlocked on 2018-05-06T21:48:16.005z (DOY 126).

The anomaly was geolocated over North of Argentina:

Latitude = -23.64°
Longitude = 299.52°

Both parameters Locking status and output power, SPM13167 and SPM13162, went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

- The MIRAS instrument CMN, unit H3, unlocked on 2018-05-06T22:32:24.346z (DOY 126).

This anomaly was geolocated over Antarctica:

Latitude = -67.84°
Longitude = 163.46°

Both parameters Locking status and output power, SPM13167 and SPM13162 went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

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	2018-05-03T22:03:09	20E2FB8
RAM single Bit Error	730	WARN	2018-05-03T19:40:46	23FF9BC

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 two CMN H3 unlocks generated the two following sets of Out of Limits:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-05-07T06:06:43	2018-05-06T21:48:16	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2018-05-07T06:06:43	2018-05-06T21:48:16	SPM13167	H3 LO_Locking	UNLOCK	LOCK

and

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-05-06T22:22:53	2018-05-06T20:32:24	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2018-05-06T22:22:53	2018-05-06T20:32:25	SPM13167	H3 LO_Locking	UNLOCK	LOCK