



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 16, year 2018

from 16 APR 2018 to 23 APR 2018

1.0

1 General Comments

Activities scheduled for this week are those planned for the 16th calendar week of 2018:

16 APR 2018 to 23 APR 2018 (DOYs 106 to 113).

The following routine activities were planned this week (see Gantt chart on next page and CRF 732).

- One Warm NIR Calibration on 18 APR 2018 (DOY 108) with ETO 16:02:18z (orbit 44457; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	4.44°
R.M.S.	=	1.33
Sun elevation	=	1.85°
Moon elevation	=	-20.99°
R.A.	=	290.53°
DEC.	=	36.38°
- One PMS Offset on 19 APR 2018 (DOY 109), including three Short Calibrations at 08:06:00.0z, 08:06:34.8z, and 08:07:09.6z (orbit 44466).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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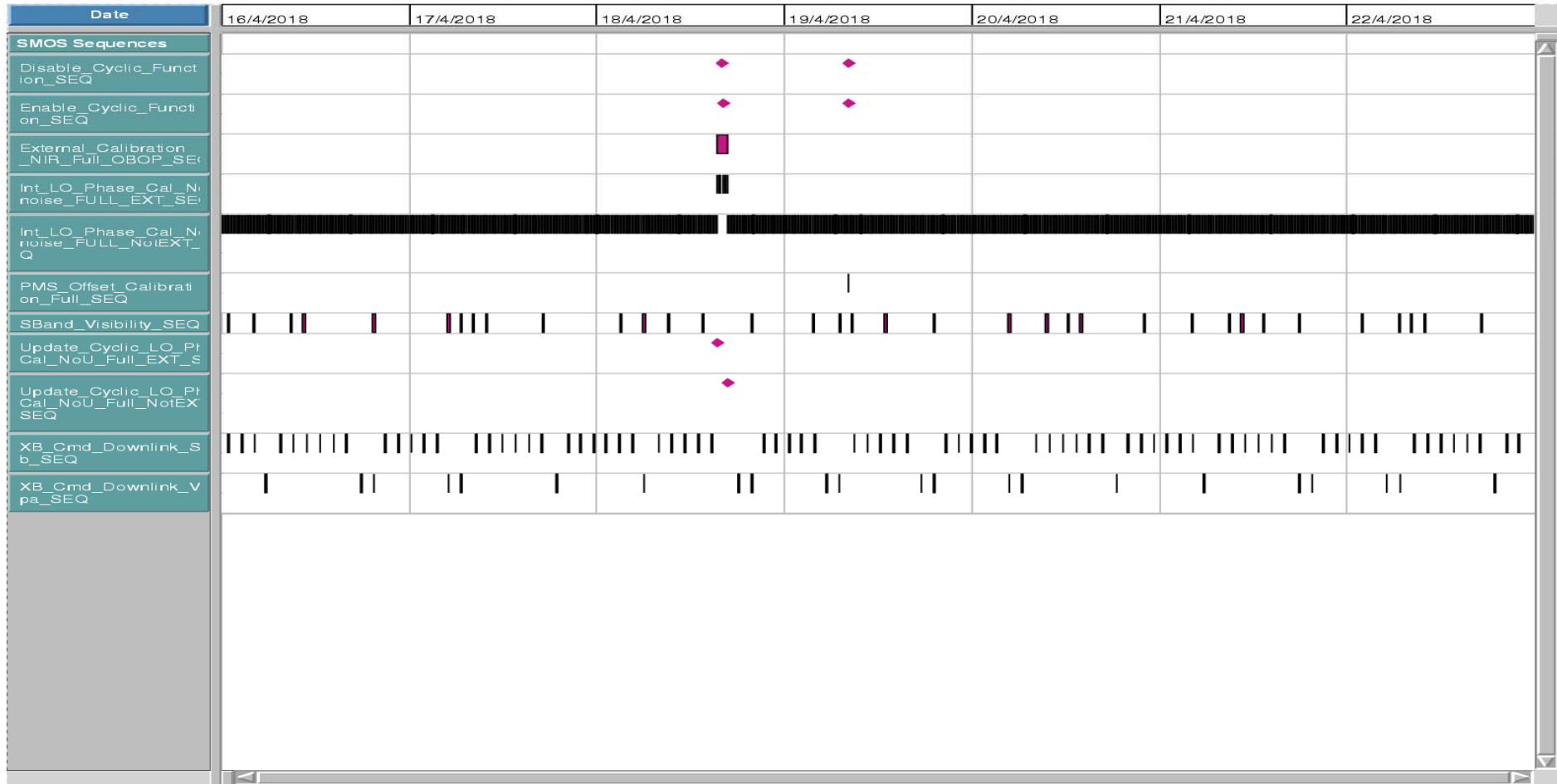
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Schedule Name: 2018_w16_cr ### Display start: 16-04-2018 00:00:00.000 ### Display end: 23-04-2018 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument MM, partition P1, latched up on 2018-04-18T21:52:52.172z (DOY 108).

The following parameters went out of limits in the PLPC system:

2018.108.21:52:52.172z DMASME01 LU Switch P1
2018.108.21:52:52.172z DMASME37 SDD LU Detected

This anomaly was geolocated over Mar de Plata region (Argentina):

Latitude = -37.62°
Longitude = 295.54°

There were no science data losses associated with this anomaly because it affected partition P1, while the Read and Write pointers were both on partition P6.

Recovery took place on 13 APR 2018, at 20:45:00z (CRF 735).

At the time of the anomaly the position of the MM pointers were as follows:

READ = 2723569 (partition P6)
WRITE = 2822731 (partition P6)

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	2018-04-22T20:51:46	229E4B0
RAM single Bit Error	730	WARN	2018-04-22T07:58:03	200E418
RAM single Bit Error	730	WARN	2018-04-17T09:30:04	20062F4

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, with the following exceptions:

- On the 20th of April 2018 and as part of the files received from the S-Band pass, KUX-32 with AOS=09:27:57z, a huge file with name R_PARAM_HKTMR_SMOS_SMO_GPSOPSSTATUS was delivered



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from CNES. The file was not processed by PLPC and it was stored on PLPCEXT machine under directory /inTray/SOGS/E_HKTM/MUST. The file was later on deleted by FOS. An email reporting this anomaly was sent to CNES on that date at 10:17 UTC.

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 two Out of Limits were issued by the FOS PLPC system at the time of the Mass Memory Latch-up on the 18th of April.

GS_TIME	OBT_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-04-19T04:13:26	2018-04-18T21:52:52	DMASME37	SDD LU Detected	FALSE	TRUE
2018-04-19T04:13:26	2018-04-18T21:52:52	DMASME11	LU Switch P1	OFF	ON