



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 18, year 2017**

from 01 MAY 2017 to 08 MAY 2017

**1.0**

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## 1 General Comments

Activities scheduled for this week are those planned for the 18<sup>th</sup> calendar week of 2017:

01 MAY 2017 to 08 MAY 2017 (DOYs 121 to 128).

The following routine activities were planned this week (see Gantt chart on next page and CRF 656):

- One PMS Offset on 04 MAY 2017 (DOY 124), including three Short Calibrations at 06:49:00.0z, 06:49:34.8z, and 06:50:09.6z (orbit 39429).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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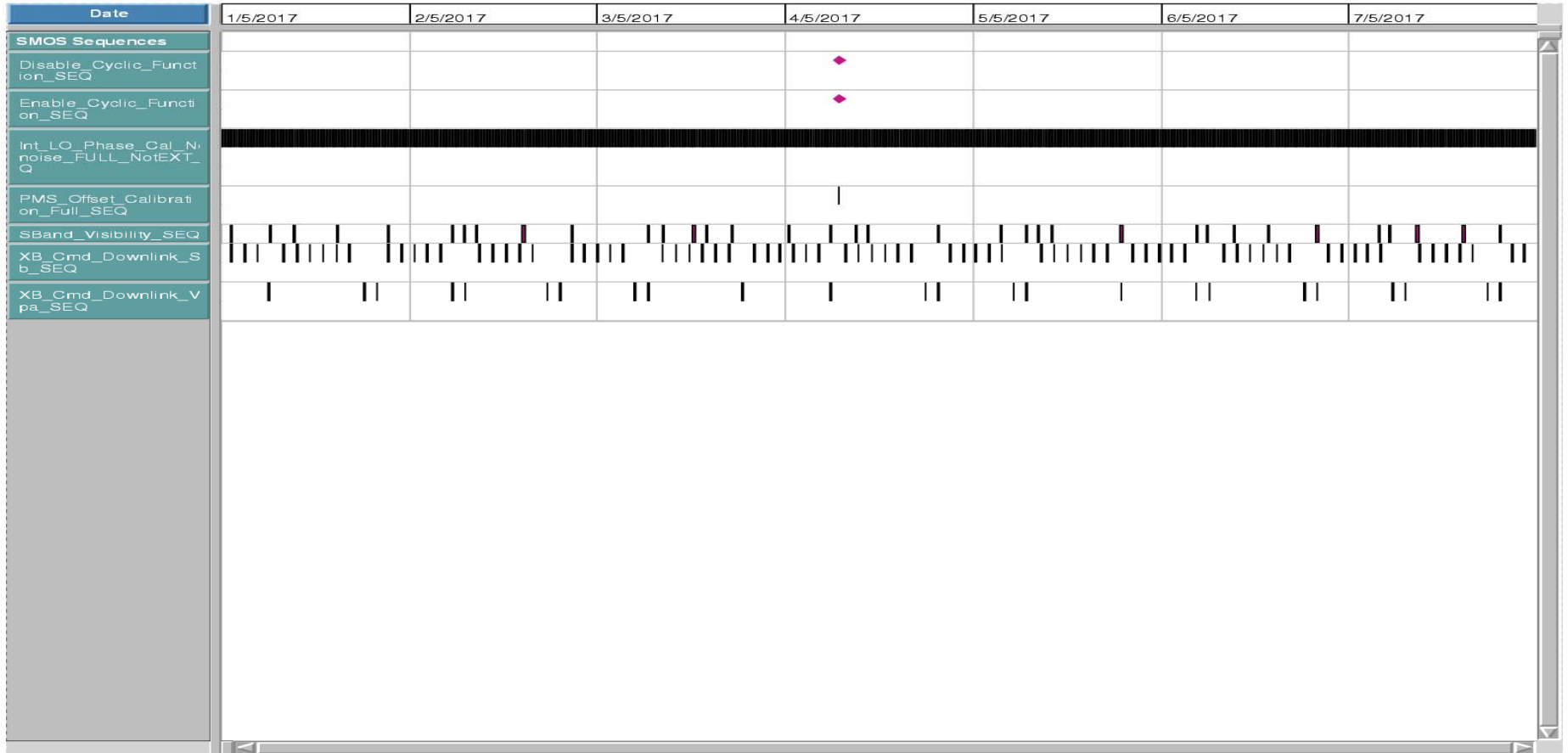
Date:

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Schedule Name: 2017\_w18\_cr ### Display start: 01-05-2017 00:00:00.000 ### Display end: 08-05-2017 00:00:00.000





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### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

The only relevant Out of Limits received during this week were the ones associated to the P0 Mass Memory Latch up that happened on the 02/05/2017. Further details on this anomaly and the OOLs received can be found in section 5 and Appendix A of this report.

### 5 On Board Anomalies

- The MIRAS instrument MM, partition P0, latched up on 2017-05-02T17:16:00.952z (DOY 122). The following parameters went out of limits on PLPC system:

<i>2017.122.17.16.00.952z</i>	<i>DMASME12</i>	<i>LU Switch P0</i>
<i>2017.122.17.16.00.952z</i>	<i>DMASME37</i>	<i>SDD LU Detected</i>

This anomaly was geolocated over the northeastern coast of Siberia at the following geographical coordinates:

<i>Latitude</i>	<i>= 73.26°</i>
<i>Longitude</i>	<i>= 161.84°</i>

Since the affected partition was P0, 470 seconds of data were lost at the time of the instrument recovery. This recovery took place on 03 MAY 2017, at 15:08:30z (CRF 657). At the time of the anomaly the position of the MM pointers were as follows:

<i>READ</i>	<i>= 1853674</i>	<i>(partition P4)</i>
<i>WRITE</i>	<i>= 2098356</i>	<i>(partition P4)</i>

### 6 On Board Events Telemetry

No RAM Single Bit errors befell this week.

### 7 FOS Systems Status

All FOS systems nominal.

### 8 Data Reception from CNES

All S band passes were correctly received from CNES and successfully processed by the FOS PLPC system.

### 9 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.



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### **10 Exceptional Activities**

None.

### **11 AOB**

None.



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### APPENDIX A: OOLS

The following two Out of Limits were issued on the PLPC system at the time of the Mass Memory Latch up in partition P0.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017-05-02T21:14:14	2017-05-02T17:16:00	DMASME37	SDD LU Detected	FALSE	TRUE
2017-05-02T21:14:14	2017-05-02T17:16:00	DMASME12	LU Switch P0	OFF	ON