



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 02, year 2017**

from 09 JAN 2017 to 16 JAN 2017

**1.0**

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## 1 General Comments

Activities scheduled for this week are those planned for the 2<sup>th</sup> calendar week of 2017:

09 JAN 2017 to 16 JAN 2017 (DOYs 009 to 016).

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

- One PMS Offset on 12 JAN 2017 (DOY 012), including three Short Calibrations at 14:27:40.0z, 14:28:14.8z, and 14:28:09.6z (orbit 35197).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

None.



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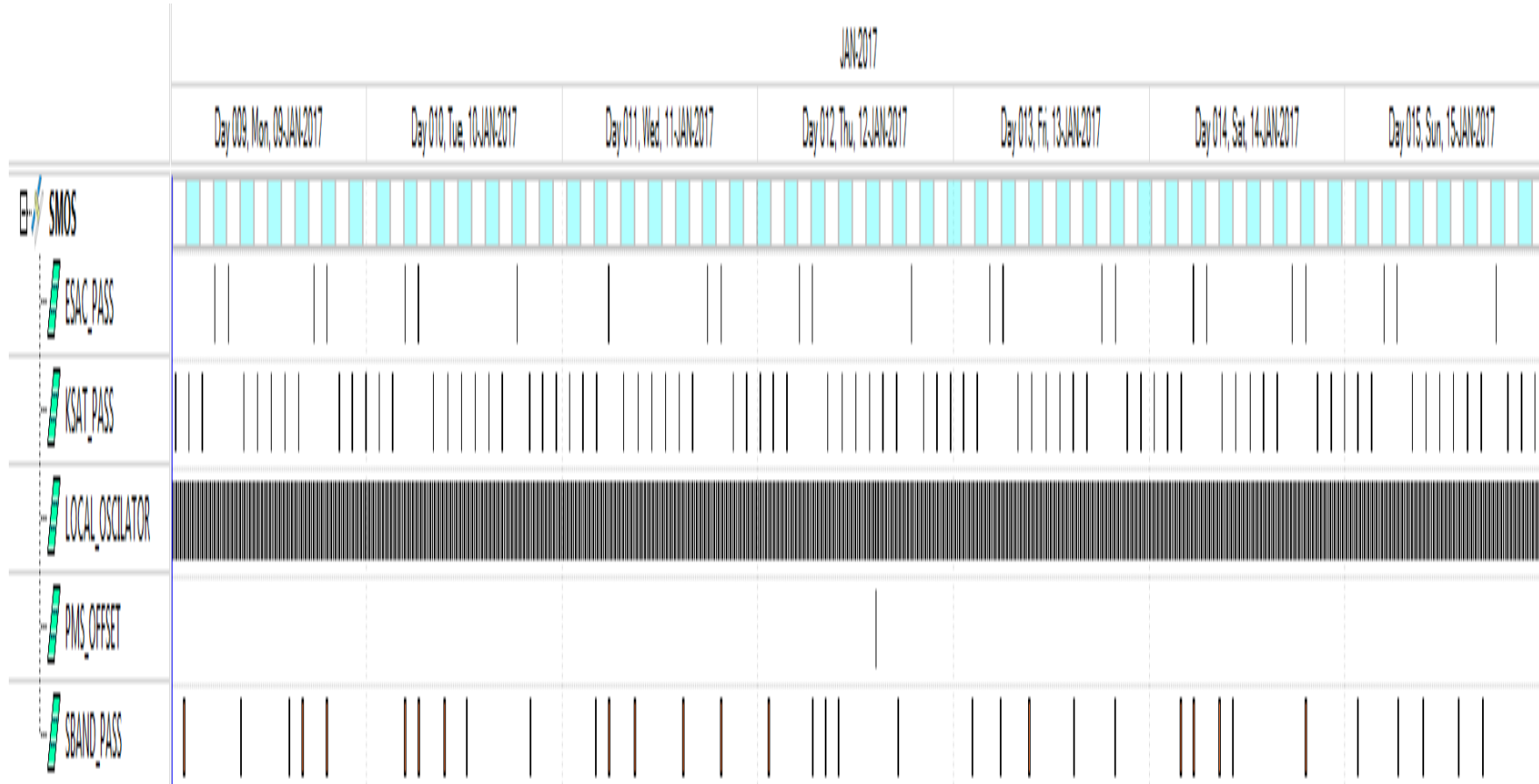
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### 3 TC Failures

None.

### 4 Unforeseen Out of Limits (OOLs)

Two sets of unexpected OOLs were issued by PLPC system at the time of the Mass Memory Latch-up on the 13<sup>th</sup> of January and the Mass Memory Double Bit Memory error on partition P1. Further details of these OOLs can be found in section 5 and Appendix-A of this report.

### 5 On Board Anomalies

- A Double Bit memory error in Mass Memory partition P1 happened on day 2017-01-15T17:25:03.711z, at that time the following TM Parameter went OOL on PLPC system:

*DMASME40 DB Err In P1 with value False.*

Also at the same time the following parameters went out of Soft limits on PLPC system:

*NMASME08 Last IP SB Errs with value 9*

*NMASME09 Last IP DB Errs with value 1*

*NMASME11 SB Err Cnt P1 with value 9*

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

*Write Pointer= 1363127 (P3)*

*Read pointer = 1259475 (P2)*

The anomaly recovery itself therefore no operational action was required.

- The MIRAS instrument MM, partition P11, latched up on 2017-01-13T00:14:20.598z (DOY 013). The following parameters went out of limits in the PLPC system:

*2017.013.00.14.20.598Z DMASME01 LU Switch P11*

*2017.013.00.14.20.598z DMASME37 SDD LU Detected*

This anomaly was geolocated over South-East Pacific Ocean at the following geographical coordinates:

*Latitude = -28.955*

*Longitude = 261.733*

No science data losses did occur for this anomaly. Recovery took place on 13 JAN 2017, at 16:00:00z (CRF 633). At the time of the anomaly the position of the MM pointers were as follows:

*READ = 3434391 (partition P7)*



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*WRITE = 3339762 (partition P7)*

## 6 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Severity	Event Time	Parameters
RAM single Bit Error	WARN	2017.009.22.45.29.271	21AB84C
RAM single Bit Error	WARN	2017.009.08.45.52.782	20D812C

## 7 FOS Systems Status

All FOS systems nominal.

- On 10<sup>th</sup> of January 2017, old PLPCPRM/BKP and PXMFP RM/BKP systems were shutdown, permanently disconnected from the FOS network, and decommissioned.

## 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 PXM F

None, all S band passes successfully received and processed.

## 10 Exceptional Activities

None.

## 11 AOB

None.



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### APPENDIX A: OOLs

The following Hard OOL was issued by PLPC system at the time of the Mass Memory Double bit memory error on partition P1.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017.016.01.26.53.113	2017.015.17.25.03.711	DMASME40	DB Err In P1	FALSE	TRUE

The Mass Memory Latch-up on partition P11 on 2017-01-13T03:15:27Z generated the following two OOLs on PLPC system.

GS_TIME	OBTIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2017.013.03.15.27.454	2017.013.00.14.20.598	DMASME37	SDD LU Detected	FALSE	TRUE
2017.013.03.15.27.454	2017.013.00.14.20.598	DMASME01	LU Switch P11	OFF	ON