



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 27, year 2018

from 02 JUL 2018 to 09 JUL 2018

1.0

1 General Comments

Activities scheduled for this week are those planned for the 27th calendar week of 2018:

02 JUL 2018 to 09 JUL 2018 (DOYs 183 to 190).

The following routine activities were planned this week (see Gantt chart on next page and CRF 750).

- One PMS Offset on 05 JUL 2018 (DOY 186), including three Short Calibrations at 08:09:00.0z, 08:09:34.8z, and 08:10:09.6z (orbit 45574).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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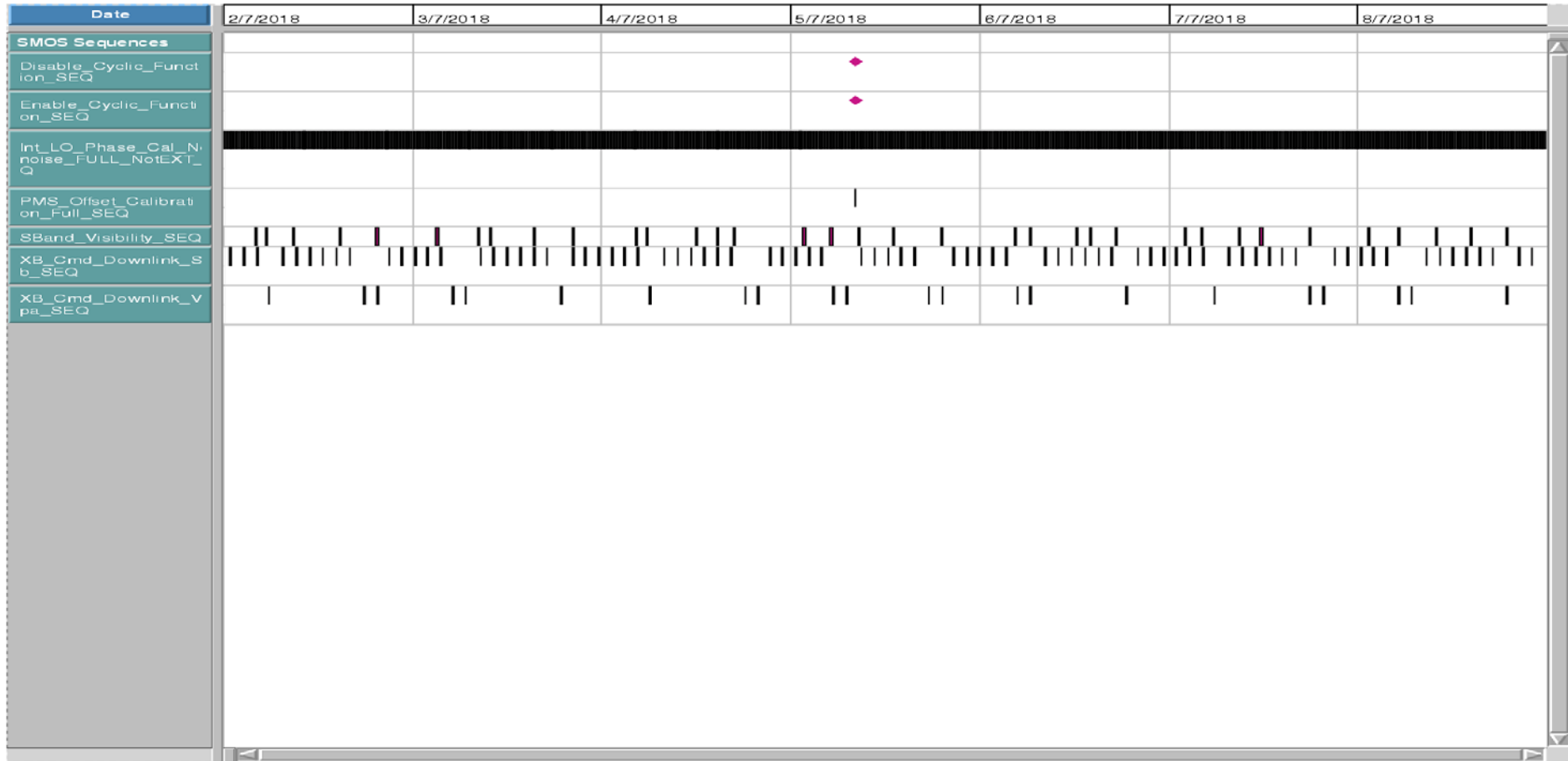
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Schedule Name: 2018_w27_cr ### Display start: 02-07-2018 00:00:00.000 ### Display end: 09-07-2018 00:00:00.000





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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument MM, partition P8, latched up on 2018-07-02T21:28:26,113z (DOY 183). The following parameters went out of limits in the PLPC system:

2018.183.21.28.26,113z DMASME04 LU Switch P8

2018.183.21.28.26,113z DMASME37 SDD LU Detected

This anomaly was geolocated over the State of Mato Grosso del Sur (Brazil; South Atlantic Anomaly):

Latitude = -19.88°

Longitude = 305.13°

There were no science data losses associated with this anomaly because it affected partition P8, while the Read and Write pointers were both on partition P3. Recovery took place on 03 JUL 2018, at 17:30:00z (CRF 751). At the time of the anomaly the position of the MM pointers were as follows:

READ = 1447130 (partition P3)

WRITE = 1532424 (partition P3)

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	2018-07-02T04:20:24	23DE04C
RAM single Bit Error	730	WARN	2018-07-02T09:08:02	21BDE50
RAM single Bit Error	730	WARN	2018-07-03T20:53:04	2016638

6 FOS Systems Status

- During last OCG telecom on the 5th of July, CNES reported that the ISDN backup line with ESAC was not working. After the telecom, FOS checked that in fact the line was out of service although the ISDN router box was correctly powered. FOS contacted Telefonica at number 1489 and a new incidence ticket with number 2018 0131 8366 77 was opened by the provider company. In parallel and to cross check that no problems on the HISSEN CISCO router exists connected to the ISDN box, a ticket was opened with EONET with number PDNSTT2018070098. EONET verified that the router configuration was fine.



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An status update was provided by Telefonica on Friday 6th of July saying that the problem seems to be in the line (copper pair) between ESAC and the switch board in Villanueva del Pardillo. The big problem seems to be the fact that the connection wiring box that they need to access in the street, has been covered with cement and sand as part of a different civil work performed by another company not linked to Telefonica. Telefonica has now to contact this other company to remove the cement and access the wiring box, this may take several days.

- Following the RAM upgrade for VM hosts FOSVIRT-01/03 on the 10th of May 2018, the THERMALSIM server was virtually relocated from VM host FOSVIRT-03 to VM host FOSVIRT-01. Its original IP address: 10.10.14.25 is maintained.
- All Virtual Machines in all FOSVIRT servers were backed up to the USB disks on file in the A017 room cabinet as follows:

FOSVIRT01:

<i>MIRASIM-2</i>	<i>02 JUL 2018</i>	<i>12:50z</i>
<i>PLPCDEV-2</i>	<i>02 JUL 2018</i>	<i>12:55z</i>
<i>SPGF-3</i>	<i>04 JUL 2018</i>	<i>13:05z</i>

FOSVIRT02:

<i>PLPCPRM</i>	<i>05 JUL 2018</i>	<i>07:25z</i>
<i>PXMFPRM</i>	<i>03 JUL 2018</i>	<i>09:05z</i>

FOSVIRT03:

<i>MIRASIM-3</i>	<i>02 JUL 2018</i>	<i>14:10z</i>
<i>PLPCDEV-3</i>	<i>02 JUL 2018</i>	<i>14:15z</i>
<i>SPGF-4</i>	<i>02 JUL 2018</i>	<i>15:10z</i>
<i>PCGANTT</i>	<i>02 JUL 2018</i>	<i>15:05z</i>
<i>THERMALSIM</i>	<i>03 JUL 2018</i>	<i>09:30z</i>

FOSVIRT04:

<i>PLPCBKP</i>	<i>04 JUL 2018</i>	<i>13:10z</i>
<i>PXMFBKP</i>	<i>03 JUL 2018</i>	<i>09:10z</i>

The backups were done via the VMware vSphere client.

7 Data Reception from CNES

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

8 X Band Data Reception in PXMF

None, all S band passes successfully received and processed.

9 Exceptional Activities

None.



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10 AOB

None.



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APPENDIX A: OOLs

At the time of the MM Latch up on the 2^{sd} of July, the following two out of limits were issued by the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-07-03T03:35:19	2018-07-02T21:28:26	DMASME37	SDD LU Detected	FALSE	TRUE
2018-07-03T03:35:19	2018-07-02T21:28:26	DMASME04	LU Switch P8	OFF	ON