



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 51, year 2020

from 14 DEC 2020 to 21 DEC 2020

1.0

1 General Comments

Activities scheduled for this week are those planned for the 51st calendar week of 2020:

14 DEC 2020 to 21 DEC 2020 (DoYs 349 to 356).

The following routine activities were planned this week (see Gantt chart on next page and CRF 935).

- One PMS Offset on 17 DEC 2020 (DoY 352), including three Short Calibrations at 05:10:30.0z, 05:11:04.8z, and 05:11:39.6z (orbit 58465).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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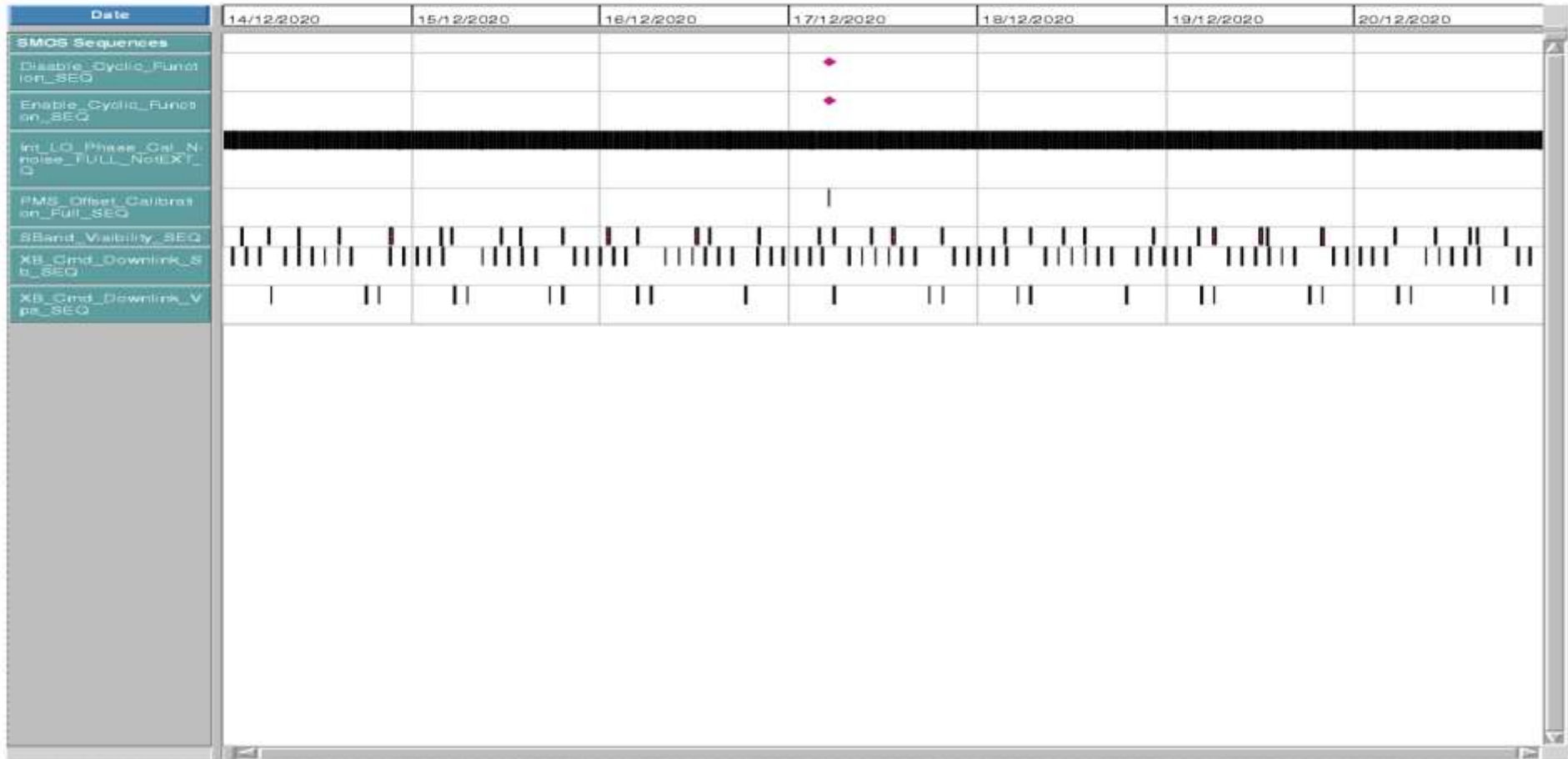
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Schedule Name: 2020_w51_01 *** Display start: 14-12-2020 00:00:00.000 *** Display end: 21-12-2020 00:00:00.000





3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument MM, partition P7, latched up 2020-12-18T20:55:02,494z (DoY 353). The following parameters went out of limits in the PLPC system:

<i>2020.353.20.55.02,494z</i>	<i>DMASME05</i>	<i>LU Switch P7</i>
<i>2020.353.20.55.02,494z</i>	<i>DMASME37</i>	<i>SDD LU Detected</i>

This anomaly was geolocated over the Estado de Minas Gerais (Brazil):

<i>LAT.</i>	<i>= -20.27°</i>
<i>LONG.</i>	<i>= 313.44°</i>

There were no science data losses associated with this anomaly because it affected partition P7, while the Read and Write pointers were both on partition P3.

Recovery took place 21 DEC 2020, at 19:30:00z (CRF 937).

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

<i>READ</i>	<i>= 1579353</i>	<i>(partition P3)</i>
<i>WRITE</i>	<i>= 1663765</i>	<i>(partition P3)</i>

- The MIRAS instrument MM, partition P9, latched up 2020-12-18T22:32:08,567z (DoY 353). The following parameters went out of limits in the PLPC system:

<i>2020.353.22.32.08,567z</i>	<i>DMASME03</i>	<i>LU Switch P9</i>
<i>2020.353.22.32.08,567z</i>	<i>DMASME37</i>	<i>SDD LU Detected</i>

This anomaly was geolocated over the Estado do Acre (Brazil):

<i>LAT.</i>	<i>= -9.65°</i>
<i>LONG.</i>	<i>= 290.85°</i>

There were no science data losses associated with this anomaly because it affected partition P9 (i.e. a spare partition), while the Read and Write pointers were both on partition P4.

Recovery took place 21 DEC 2020, at 19:30:00z (CRF 937).

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

<i>READ</i>	<i>= 1831125</i>	<i>(partition P4)</i>
<i>WRITE</i>	<i>= 1911141</i>	<i>(partition P4)</i>

5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:



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Event Description	Packet ID	Severity	Event Time	Parameters
RAM Single Bit Error	730	WARNING	2020.349.23.29.17,113	2382C54
RAM Single Bit Error	730	WARNING	2020.355.19.33.45,708	200D714

6 FOS Systems Status

- New SW patch –PLPC patch 29– installed on PLPCPRM 14 DEC 2020, to fix the problem of excessive verbosity in the FTPtool log. It included new MISC variable *PLUV_REPLAN_OVERDUE_DAYS* to check every REPLAN file date; then archive it after 15 days (default) with no ACK received.

Patch syncing yielded incorrect error messages reporting, as missing, a non-existent signature for PUS_PLPC ACK files from CNES. Further, it reported as missing in UPL/inTray PUS_PLPC files already archived. Patch 29 was reverted 17 DEC 2020, pending corrections.

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.

10 AOB

None.



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APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument MM, partition P7, latched up 2020-12-18T20:55:02,494z (DoY 353):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2020.354.01.14.54,769	2020.353.20.55.02,494	DMASME05	LU Switch P7	OFF	ON
2020.354.01.14.54,769	2020.353.20.55.02,494	DMASME37	SDD LU Detected	FALSE	TRUE

The following OOLs befell at the time the MIRAS instrument MM, partition P9, latched up 2020-12-18T22:32:08,567z (DoY 353):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOl Value	Check Value
2020.354.01.19.37,167	2020.353.22.32.08,567	DMASME03	LU Switch P9	OFF	ON
2020.354.01.19.37,167	2020.353.22.32.08,567	DMASME37	SDD LU Detected	FALSE	TRUE