Operations Notes

FOS Team @ ESAC

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FOS Report for week 08
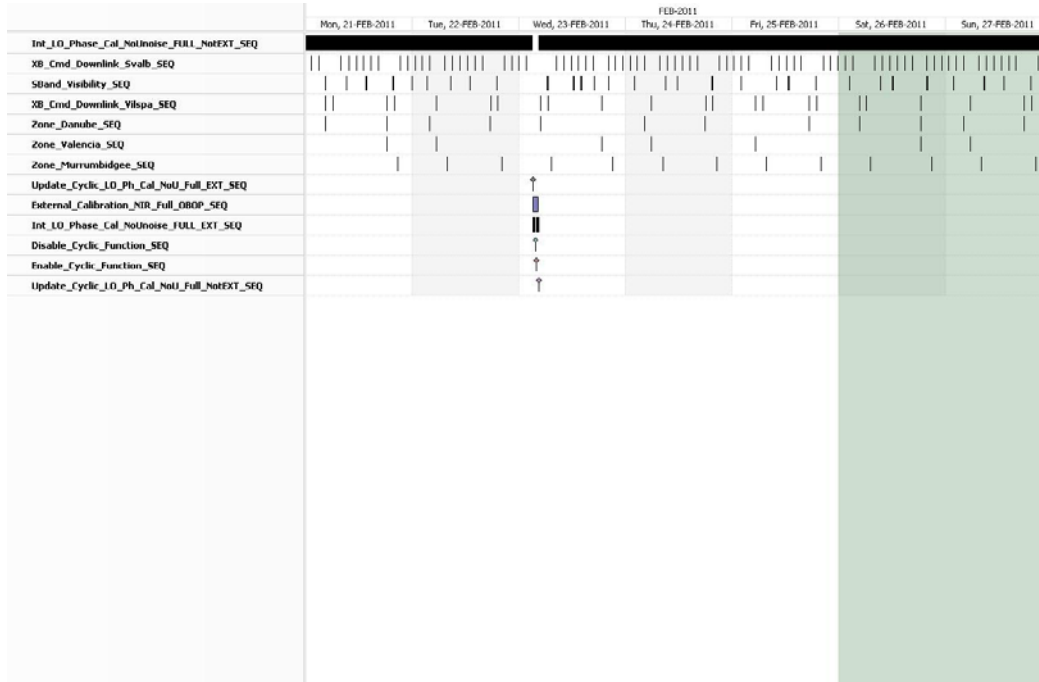from the 21/02/11 to the 28/02/11

1 General Comments

The activities scheduled for this week are those planned for the CW08.

This week contained a NIR External Calibration on the 23/02/11 with **ETO** at **03:51 UTC** and also X_Band passes over Svalbard and ESAC.

2 Mission Planning Deviation

None, however, some extra activities executed on **23/02 @ 08:45 UTC** as recovery of the latched-up P1 and on **25/02 @ 14:30 UTC** for the P3. These activities are:

- disable scrubbing
- switch on the partition
- re-enable it
- re-enable scrubbing

No data loss associated to this recovery.

3 TC Failures

None

4 Unforseen Out Of Limits (OOLs)

Parameter	Description	OOL Time	Value

See appendix A for a complete list of OOL's in the period.

5 On Board Anomalies

One MM **Partition 3** latch-up, on the 22/02 at 16:36:16 UTC.
Other MM **Partition 1** latch-up, on the 25/02 at 13:46:42 UTC.

No CMN Unlocks in the period.

6 Telemetry On Board Events in the period.

Event Description	Event Time	Parameters
RAM single Bit Error	2011.053.21.45.30.103	2110038

7 FOS System Status

Still some error messages linked to sftp connectivity, but not affecting operations.

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8 Data Reception from CNES

Anomaly Report raised by CNES concerning the issue of duplicated TM and some data gaps from past KER-37 pass (23/02).

9 X-Band Data Reception in PXMF

As it has been already mentioned above, there were two MM Partition Latch-ups, on **P3** and **P1** in the period.

For the first MM latch-up, the write and the read pointers were on P4 at the time, which in principle could imply some data loss. After a careful analysis, it was shown that, due to the overlap, that should have not been the case, even though the transmitted data contained old data in the middle.

In the other MM latch-up, the situation regarding possible data loss due to the latch-up was that it should have not taken place, due to the overlap, even though the read pointer was in logical partition 9.

10 Exceptional Activities

None.

11 AOB

None.

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APPENDIX A: OOL's

```
Event Logger printout from time: 2011.052.00.00.00.000 to time: 2011.059.00.00.00.000
Current printout time: 2011.061.08.49.17.472
Filter info:
  Application      : BEHVlimitChecker
  Workstation      : All
  Packets type     : All
  Packets severity : All
  Message filter   : out
```

```
Event time              Stream Application Workstation Severity    Type     Message
-----------------------------------------------------------------------------------------------------------------------------------------------
2011.053.19.37.14.520     1   BEHVlimitChecker   plpcprm    ERROR     LOG 2011.053.16.36.16.227 DMASME37 VAL: False STATE: True STATUS limit is out of nominal range
2011.053.19.37.14.522     1   BEHVlimitChecker   plpcprm    ERROR     LOG 2011.053.16.36.16.227 DMASME09 VAL: OFF STATE: ON STATUS limit is out of nominal range
2011.054.12.56.50.323     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.054.08.45.01.197 NMASME09 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.054.12.58.04.045     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.054.09.27.14.404 NMASME08 VAL: 166 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.054.12.58.04.047     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.054.09.27.14.404 NMASME09 VAL: 116 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.054.12.58.04.049     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.054.09.27.14.404 NMASME11 VAL: 166 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.054.12.58.13.892     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.054.09.32.51.606 NMASME08 VAL: 207 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.054.12.58.13.893     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.054.09.32.51.606 NMASME11 VAL: 207 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.055.09.41.43.628     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.055.05.43.15.098 NMASME08 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.055.09.41.43.629     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.055.05.43.15.098 NMASME10 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.16.13.044     1   BEHVlimitChecker   plpcprm    ERROR     LOG 2011.056.13.46.42.592 DMASME37 VAL: False STATE: True STATUS limit is out of nominal range
2011.056.19.16.13.045     1   BEHVlimitChecker   plpcprm    ERROR     LOG 2011.056.13.46.42.592 DMASME11 VAL: OFF STATE: ON STATUS limit is out of nominal range
2011.056.19.17.28.724     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.14.30.01.798 NMASME09 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.18.52.633     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.15.18.04.217 NMASME08 VAL: 59 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.18.52.635     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.15.18.04.217 NMASME09 VAL: 171 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.18.52.637     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.15.18.04.217 NMASME13 VAL: 59 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.18.57.431     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.15.20.51.028 NMASME09 VAL: 80 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.18.58.653     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.15.21.33.028 NMASME08 VAL: 86 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.056.19.18.58.654     1   BEHVlimitChecker   plpcprm    WARNING   LOG 2011.056.15.21.33.028 NMASME13 VAL: 86 LOW :0 HIGH :0 SOFT limit is out of nominal range
```