Operations Notes

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FOS Report for week 17
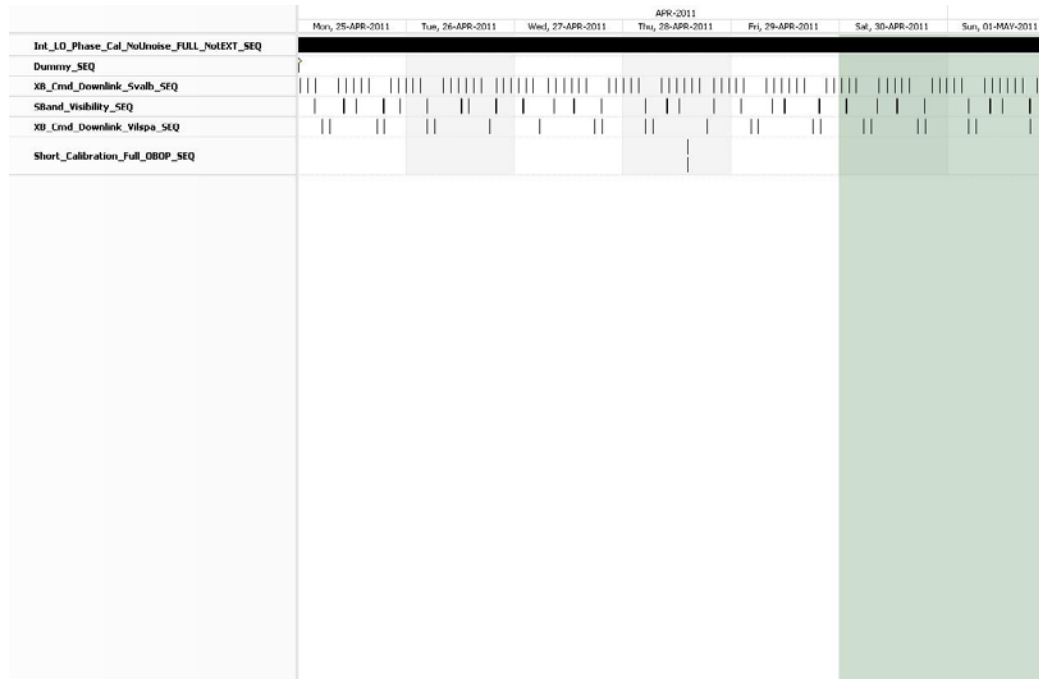from the 25/04/11 to the 02/05/11

1   General Comments

The activities scheduled for this week are those planned for the CW17.

This week contained 3 consecutive Short Calibrations (**PMS Offset Calibration**) on the 28/04/11, and also X_Band passes over Svalbard and ESAC.

2   Mission Planning Deviation

Collision Avoidance Manoeuvre (CAM) performed on 28/04/2011 to avoid a Collision Risk raised by Jspoc for SMOS on 28/04/2011 at 15:27 UTC.

From a payload point of view, the situation was that the PMS Offset calibration programmed on the 28/04/2011 @ 14:26 UTC had to be re-scheduled on 29/04/2011 @ 15:31 UTC.

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

Collision Risk raised by Jspoc for SMOS on 28/04/2011 at 15:27 UTC
→ **CAM** performed on 28/04/2011

Autonomous CCU reset on 29/04/2011 @ 02:57:32 UTC at the end of an SVAL pass.

No MM Latch-Ups nor CMN Unlocks in the period.

6 Telemetry On Board Events in the period.

Event Description	Event Time	Parameters
RAM single Bit Error	2011.116.09.44.55.964	23608DC
RAM single Bit Error	2011.119.02.57.33.483	23608DC
RAM single Bit Error	2011.121.22.13.32.000	229025C

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7 FOS System Status

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

8 Data Reception from CNES

No gaps nor missing passes in the period.

9 X-Band Data Reception in PXMF

A CAM was performed on 28/04/2011, that meant that the ITL queue was disabled during the manoeuvre, and therefore any foreseen downlink (SVAL pass @ 15:19 UTC) inside was cancelled.

No data loss is foreseen due to the on-board overlap.

The out of canonical period of the manoeuvre was flagged with the "external attitude" flag, therefore the data arrived to ground with different APID.

Due to the autonomous CCU reset on 29/04/11 @ 02:57 UTC, there was a data gap of almost 4 hours.

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10 Exceptional Activities

CAM performed on 28/04/2011.

On the 29/04/2011, the PLM on-board programming for the rest of the week started with the SVAL pass at 13:01 UTC

11 AOB

None.

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APPENDIX A: OOL's

```
Event Logger printout from time: 2011.115.00.00.00.000 to time: 2011.122.00.00.00.000
Current printout time: 2011.123.08.39.24.308
Filter info:
  Application      : BEHVlimitChecker
  Workstation      : All
  Packets type     : All
  Packets severity : All
  Message filter   : out


Event time              Stream Application   Workstation Severity    Type      Message
---------------------------------------------------------------------------------------------------------------------------------
2011.118.20.44.58.950     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.118.14.28.00.723 NTLHK022 VAL: Disabled STATE: Enabled STATUS limit is out of nominal
range
2011.119.09.43.51.262     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10108 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.262     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10200 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.263     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10204 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.263     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10205 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.263     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10206 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.263     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10207 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.263     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10208 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.263     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10209 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.264     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10210 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.264     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10211 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.264     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM10212 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.265     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.02.57.32.983 SPM13202 VAL: 128 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.119.09.43.51.268     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM22167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.268     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM21167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.268     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM20167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.269     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM19167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.316     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM18167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.316     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM17167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.320     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM16167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.320     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM15167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.320     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM14167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.321     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM13167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.321     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM12172 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.321     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPM11167 VAL: UNLOCK STATE: LOCK STATUS limit is out of nominal range
2011.119.09.43.51.322     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 SPC02106 VAL: Inst Init STATE: Dual Pol, Full Pol, Calibration, Test
STATUS limit is out of nominal range
2011.119.09.43.51.325     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 XNIRABST VAL: NOT-OK STATE: OK STATUS limit is out of nominal range
2011.119.09.43.51.355     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 XNIRBCST VAL: NOT-OK STATE: OK STATUS limit is out of nominal range
2011.119.09.43.51.355     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.02.57.32.983 XNIRCAST VAL: NOT-OK STATE: OK STATUS limit is out of nominal range
2011.119.09.51.08.671     1  BEHVlimitChecker   plpcprm     ERROR       LOG 2011.119.09.12.49.972 NTLHK022 VAL: Disabled STATE: Enabled STATUS limit is out of nominal
range
2011.119.12.18.19.372     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.119.09.15.06.773 NMASME09 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.120.13.20.34.799     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.120.09.15.06.351 NMASME08 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.120.13.20.34.808     1  BEHVlimitChecker   plpcprm     WARNING     LOG 2011.120.09.15.06.351 NMASME21 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
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2011.121.12.40.33.420    1  BEHVlimitChecker    plpcprm    WARNING    LOG 2011.121.10.14.53.930 NMASME08 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
2011.121.12.40.33.422    1  BEHVlimitChecker    plpcprm    WARNING    LOG 2011.121.10.14.53.930 NMASME16 VAL: 1 LOW :0 HIGH :0 SOFT limit is out of nominal range
```