



1 General Comments

The activities scheduled for this week are those planned for calendar week 08 of year 2015, from 16/02/2015 to 23/02/2015 (DOYs 047/2015 to 054/2015).

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

- X-band passes over ESAC and Svalbard.
- One PMS offset including three Short Calibrations on day 19/02/2015 (orbit 27852) at 17:26:00.000z, 17:26:34.800 and 17:27:09.600.
- Local oscillator calibration every 10 minutes.

2 Mission Planning Deviation

No deviations from the nominal planning happened during this week except the execution of an unscheduled Collision Avoidance Manoeuvre on the 20th of February (see section 10 for further details)



Operations Notes

FOS Team @ ESAC

Reported by: J. Fauste

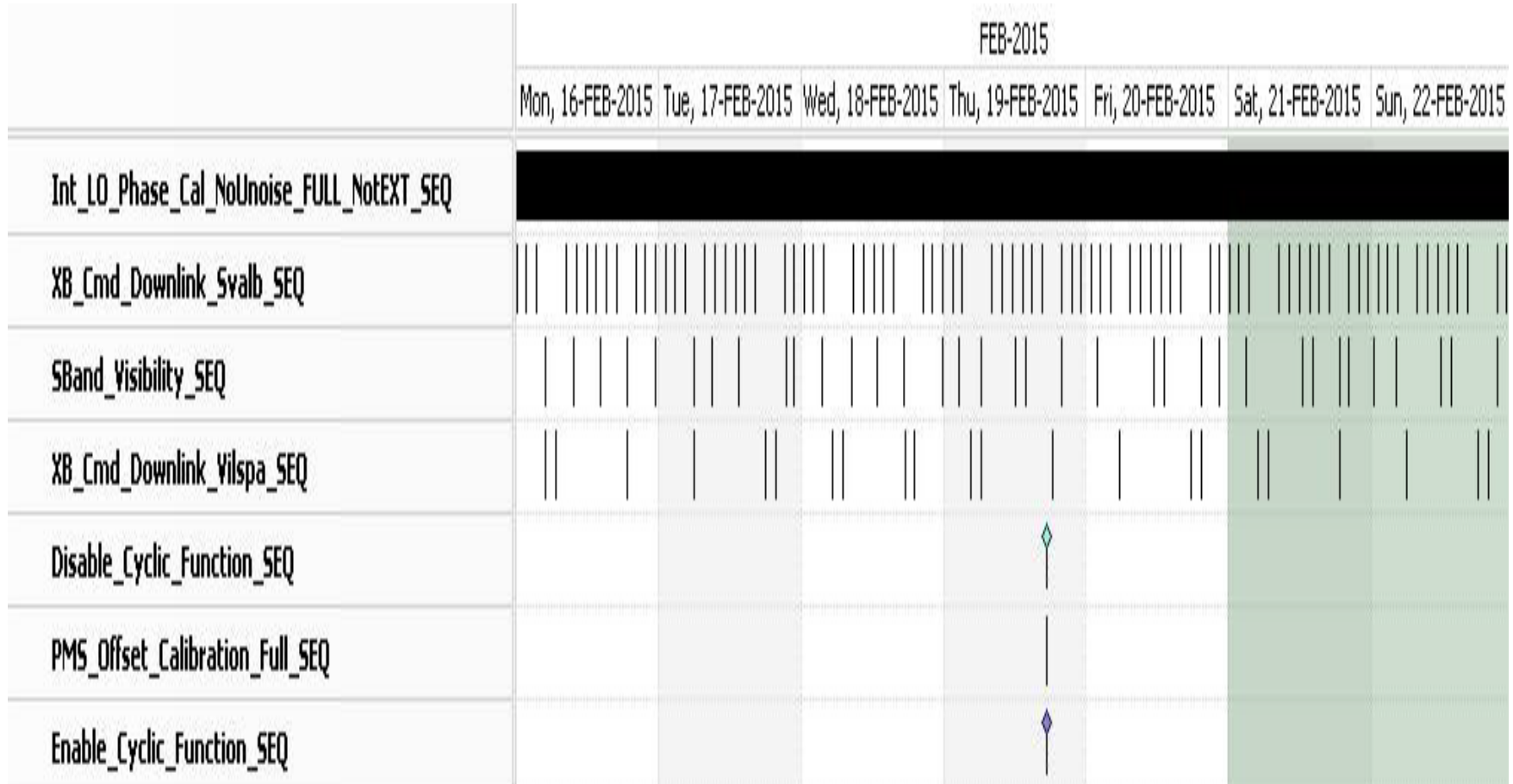
Topic:

Date:

Issue:

FOS Report for week 08
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1.0





3 TC Failures

None.

4 Unforeseen Out of Limits (OOLs)

No unforeseen out of limits were received during this week.

5 On Board Anomalies

No payload anomalies happened during this reporting period:

6 Telemetry On Board Events in the period.

The following RAM single bit errors happened during the present reporting period:

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	2015.053.10.43.30	219D278
RAM Single Bit Error	WARN	2015.049.21.44.50	2290FEC
RAM Single Bit Error	WARN	2015.047.22.30.56	214603C

7 FOS System Status

All FOS systems behaved nominal during this period.

- A new version of PLPC 2.10 patch 04 was installed on day 16/02/2015 on FOS PLPCPRM machine. This new version also included an update of SCOS library *libPTCG.so* that seems to be the problem for the previous failure installations. This new patch includes the new configuration control between Save Stack Files and the TC groups sent to CNES. Few commanding tests were performed on that day and CNES informed accordingly. No problems were found in any of these tests and the new patch is now considered fully operational.

8 Data Reception from CNES

All SBand passes of the week were correctly received from CNES and successfully processed by the FOS PLPC system

9 X-Band Data Reception in PXMF

Not used during the present reporting period.

10 Exceptional Activities

- On 20/02/15 a new SMOS collision avoidance manoeuvre was performed. The MIRAS onboard timeline was disabled and the science instrument data flagged as "External data" during the



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whole duration of the manoeuvre, about 32 minutes, from the 20 of February at 23:21 UTC to 23:53 UTC. The commands for that special manoeuvre were uploaded around 13:09 UTC. No X-Band passes will be lost since the manoeuvre will be executed between two Svalbard passes. Manoeuvre details are here below included:

- Commanded Da = -74.75 m
- Estimated Da = -76.18 m
- Efficiency = 101.9%
- Fuel Consumption = 12 g
- Remaining hydrazine = 26.71 kg

11 AOB

None.



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APPENDIX A: OOL's

The following Out of Limit was received on FOS PLPC system due to the Collision Avoidance Manoeuvre performed on 20/02/2015. The OOL was triggered because the MIRAS ITL was disabled during the execution of the Orbit Correction Manoeuvre.

OBT	Severity	TM Parameter	Alarm Value	Check Value	TM Description
2015.051.23.20.58.693	Hard-High	NTLHK022	Disabled	Enabled	ITAL Ena State