



1 General Comments

The activities scheduled for this week are those planned for calendar week 51 of year 2013 from 16/12/2013 to 23/12/2013 (DOYs 350 to 357).

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

- X-band passes over ESAC and Svalbard.
- One NIR Calibration on day 18/12/2013 (orbit 21693), ETO at 15:42:35.000z.
- OCM Proteus Manoeuvre on day 16/12/2013, start time at 22:05z
- PMS offset including three Short Calibrations on day 19/12/2013 (orbit 21708) at 17:50:58.400z, 17:51:33.20z and 17:52:08.000z
- Local oscillator calibration every 10 minutes.

2 Mission Planning Deviation

No deviations from the nominal planning happened during this week.



Operations Notes

FOS Team @ ESAC

Topic:

Date:

Issue:

FOS Report for week 51
from the 16/12/13 to the 23/12/13

1.0

	DEC-2013						
	Mon, 16-DEC-2013	Tue, 17-DEC-2013	Wed, 18-DEC-2013	Thu, 19-DEC-2013	Fri, 20-DEC-2013	Sat, 21-DEC-2013	Sun, 22-DEC-2013
Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ	[Solid black bar]						
XB_Cmd_Downlink_Svalb_SEQ	[Vertical tick marks]						
SBand_Visibility_SEQ	[Vertical tick marks]						
XB_Cmd_Downlink_Vilspa_SEQ	[Vertical tick marks]						
Proteus_Manoevre_SEQ	[Vertical tick mark on Mon]						
Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ	[Green diamond on Wed]						
External_Calibration_NIR_Full_OBOP_SEQ	[Blue bar on Wed]						
Int_LO_Phase_Cal_NoUnoise_FULL_EXT_SEQ	[Vertical tick marks on Wed]						
Disable_Cyclic_Function_SEQ	[Green diamonds on Wed and Thu]						
Enable_Cyclic_Function_SEQ	[Green diamonds on Wed and Thu]						
Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ	[Green diamond on Wed]						
PMS_Offset_Calibration_Full_SEQ	[Vertical tick mark on Thu]						



3 TC Failures

None.

4 Unforseen Out Of Limits (OOLs)

Two main events triggered out of limits on the PLPC side, the change of onboard time scale due the OCM manoeuvre reported here below and the CMN unlock reported on section 5 of this report. Further details can be found on Appendix-A.

- Spacecraft Time was set up into *PROTEUS* instead of *GPS* to avoid possible time perturbations during the OCM *PROTEUS* manoeuvre. As consequence of that, TM parameter DPC10107 "*UTC Cur Source*" went out of limits with value "*PROTEUS*" instead of its nominal value "*GPS*" on day 16/12/2013 at 10:06:53z. The parameter went back into limits on day 17/12/2013 at 09:27:34z.

5 On Board Anomalies

- One CMN Unlock on unit CMN unit H1 happened on day 20/12/2013 at 10:47:35z. As consequence of that 10 minutes of degraded data was acquired by the instrument. The geolocation fo the event was:

Longitude=291.655

Latitude=-22.89

6 Telemetry On Board Events in the period.

The following RAM single bit error were detected during this period:

Event Description	Severity	Event Time	Parameters
RAM Single Bit Error	WARN	2013.350.17.05.33.936	2259168
RAM Single Bit Error	WARN	2013.351.21.32.53.272	20F6A30
RAM Single Bit Error	WARN	2013.352.21.40.04.906	22A5FBC
RAM Single Bit Error	WARN	2013.355.23.03.25.430	21D2E10
RAM Single Bit Error	WARN	2013.356.08.47.42.566	21E2244

7 FOS System Status

All FOS subsystems behaved nominally during the present reporting period.

8 Data Reception from CNES



- PLPC Time correlation failed on day 17/12/2013 at 12:43:09z just at the end of Ground Station pass Kerguelen -24. Around one minute and half of data got lost due to this problem.

9 X-Band Data Reception in PXMF

Not used during the present reporting period since no S-Band passes were lost during this week.

10 Exceptional Activities

None.

11 AOB

None.



APPENDIX A: OOL's

OBT	Severity	ERT	TM PARAM	ALARM VALUE	TYPE	CHECK VALUE	Message
2013.350.15.59.48.076	ERROR	2013.350.10.06.53.972	DPC10107	PROTEUS	STATE	GPS	STATUS limit is out of nominal range
2013.351.00.13.48.301	ERROR	2013.350.22.13.10.570	NTLHK022	DISABLED	STATE	ENABLE	STATUS limit is out of nominal range
2013.354.14.37.27.044	ERROR	2013.354.10.47.35.687	SPM11162	NOT-OK	STATE	OK	STATUS limit is out of nominal range
2013.354.14.37.27.194	ERROR	2013.354.10.47.41.687	SPM11167	UNLOCK	STATE	LOCK	STATUS limit is out of nominal range