



## 1 General Comments

The activities scheduled for this week are those planned for calendar week 03 of year 2014, from 13/01/2014 to 20/01/2014 (DOYs 013 to 020).

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

- X-band passes over ESAC and Svalbard.
- NIR Calibration on day 15/01/2014 (orbit 21966), ETO at 15:52:31.000z.
- One PMS offset including three Short Calibrations on day 09/01/2014 (orbit 22010) at 17:00:00.000z, 17:30:34.800z and 17:31:09.600z
- 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 03**  
from the 13/01/14 to the 20/01/14  
**1.0**

|   | JAN-2014         |                  |                  |                  |                  |                  |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|   | Mon, 13-JAN-2014 | Tue, 14-JAN-2014 | Wed, 15-JAN-2014 | Thu, 16-JAN-2014 | Fri, 17-JAN-2014 | Sat, 18-JAN-2014 | Sun, 19-JAN-2014 |
| Int_LO_Phase_Cal_NoUnoise_FULL_NotEXT_SEQ   | ██████████       |                  | ██████████       |                  | ██████████       |                  |                  |
| XB_Cmd_Downlink_Svalb_SEQ                   |                  |                  |                  |                  |                  |                  |                  |
| SBand_Visibility_SEQ                        |                  |                  |                  |                  |                  |                  |                  |
| XB_Cmd_Downlink_Wilspa_SEQ                  |                  |                  |                  |                  |                  |                  |                  |
| Update_Cyclic_LO_Ph_Cal_NoU_Full_EXT_SEQ    |                  |                  | ◆                |                  |                  |                  |                  |
| External_Calibration_NIR_Full_OBOP_SEQ      |                  |                  | █                |                  |                  |                  |                  |
| Int_LO_Phase_Cal_NoUnoise_FULL_EXT_SEQ      |                  |                  |                  |                  |                  |                  |                  |
| Disable_Cyclic_Function_SEQ                 |                  |                  | ◆                |                  | ◆                |                  |                  |
| Enable_Cyclic_Function_SEQ                  |                  |                  | ◆                |                  | ◆                |                  |                  |
| Update_Cyclic_LO_Ph_Cal_NoU_Full_NotEXT_SEQ |                  |                  | ◆                |                  |                  |                  |                  |
| PMS_Offset_Calibration_Full_SEQ             |                  |                  |                  |                  |                  |                  |                  |



### 3 TC Failures

None.

### 4 Unforeseen Out Of Limits (OOLs)

No relevant Out of limits happened during the present reporting week.

### 5 On Board Anomalies

No payload anomalies happened during this week.

### 6 Telemetry On Board Events in the period.

The following RAM Single bit errors were detected during the present reporting period.

| Event Description    | Severity | Event Time            | Parameters |
|----------------------|----------|-----------------------|------------|
| RAM single bit error | WARN     | 2014.016.22.53.59.036 | 22E34E4    |

### 7 FOS System Status

All FOS subsystems behaved nominally during the present reporting period.

### 8 Data Reception from CNES

All SBand passes were nominally acquired and processed by FOS except Aussaguel pass number 18 on 14/01/2014 at 04h46z. A total number of 5759 missing packets were lost for that GS pass producing a telemetry data gap from 02:42:00.000z to 03:34:02.197z

CNES team also noticed for that pass a HKTMR gap of 1512 seconds from 02h41m55s to 03h07m07s UTC. Problem is under investigation.

MIRAS telemetry during that data gap was further checked using the PXMf Xband system confirming that no instrument anomalies happened during that time. Data was again recovered from the station backup system and sent by CNES ops team to ESAC for its further reingestion into the PLPC system. Prior to this ingestion process, telemetry from the affected GS pass was correctly removed from the PLPC system.



## **9 X-Band Data Reception in PXMF**

PXMF system was used during this week to check XBand data for the time when the Sband data gap happened (see previous paragraph)

## **10 Exceptional Activities**

None.

## **11 AOB**

None.

## **APPENDIX A: OOL's**

No relevant Out of Limits can be reported during this week.