



## 1 General Comments

The activities scheduled for this week are those planned for calendar week 47 of year 2013, from 18/11/2013 to 25/11/2013 (DOYs 322 to 329).

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 21/11/2013 (orbit 21304) at 15:57:00.000z, 15:57:34.800z and 15:58:09.600
- One NIR calibration on 22/11/2013 at 07:42:36z (orbit 21285).  
Pointing selected for this calibration is as follows:  
RA= 334.7452  
DEC= 32.32778  
and the expected Brightness temperature and RMS are:  
BT= 4.099307  
RMS=1.1797770
- Local oscillator calibration every 10 minutes.

## 2 Mission Planning Deviation

No deviations from the nominal planning happened during this week.





### 3 TC Failures

None.

### 4 Unforeseen Out Of Limits (OOLs)

The only relevant out of limits were the ones received at the time of the Mass Memory latch on partition P2 on day 21/11/2013 (see Appendix-A for further details)

### 5 On Board Anomalies

- A new Mass Memory latch up happened in partition P2 on day 22/11/2013 at 09:39:23z. At the time of the anomaly both pointers, Read and Write, were located in partition P8. The geolocation of the event was

long = 307.055862 deg

lat = -12.630224 deg

The anomaly was successfully recovered on day 22/11/2013 at 16:20:00z. No data losses were seen either at the time of the anomaly or the recovery.

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

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

Event Description	Severity	Event Time	Parameters
RAM Single bit Error	WARN	2013.322.00.49.31	2092EFO
RAM Single bit Error	WARN	2013.322.22.03.44	21C231C
RAM Single bit Error	WARN	2013.325.11.32.14	22F4428

### 7 FOS System Status

Nothing to report all nominal

### 8 Data Reception from CNES

- Telemetry data from GS pass SKRN01-21 on 20/11/2013 at 02:14z was not received due to an anomaly on the *Earth Terminal* element of the GS. On the FOS side 4932 Missing Source Packets for APID=2 got lost. Nevertheless housekeeping telemetry data was reingested on the FOS side using the X-Band telemetry files and processing them with the PXMF system. No



Out of limits or anomalies were anyway detected during the missing pass.

- Similar to the previous problem, on day 21/11/2013 some data gaps from 10:19z to 11:34z were seen from SKRN01 station during ground pass SKRN01-22.

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

Due to the two previous ground station anomalies, the PXMF system was used to recover and check missed housekeeping data.

## **10 Exceptional Activities**

An exceptional CRF number 388, was issued by the FOS on day 21/11/2013 to recover the MM latch-up anomaly.

## **11 AOB**

None.



## APPENDIX A: OOL's

Earth Reception Time	Severity	Onbaord Time	TM Parameter	Value	Message
2013.325.10.14.16.412	ERROR	2013.325.09.39.23.714	DMASME37	FALSE	STATUS limit is out of nominal range
2013.325.10.14.16.413	ERROR	2013.325.09.39.23.714	DMASME10	OFF	STATUS limit is out of nominal range
2013.326.09.40.34.034	ERROR	2013.326.09.01.24.522	DMASME10	OFF	STATUS limit is out of nominal range