1 General Comments

Activities scheduled for this week are those planned for the 03rd calendar week of 2016:

18 JAN 2016 to 25 JAN 2016 (DoYs 018 to 025).

The following routine activities were planned this week (see Gantt chart on next page and CRF 548):

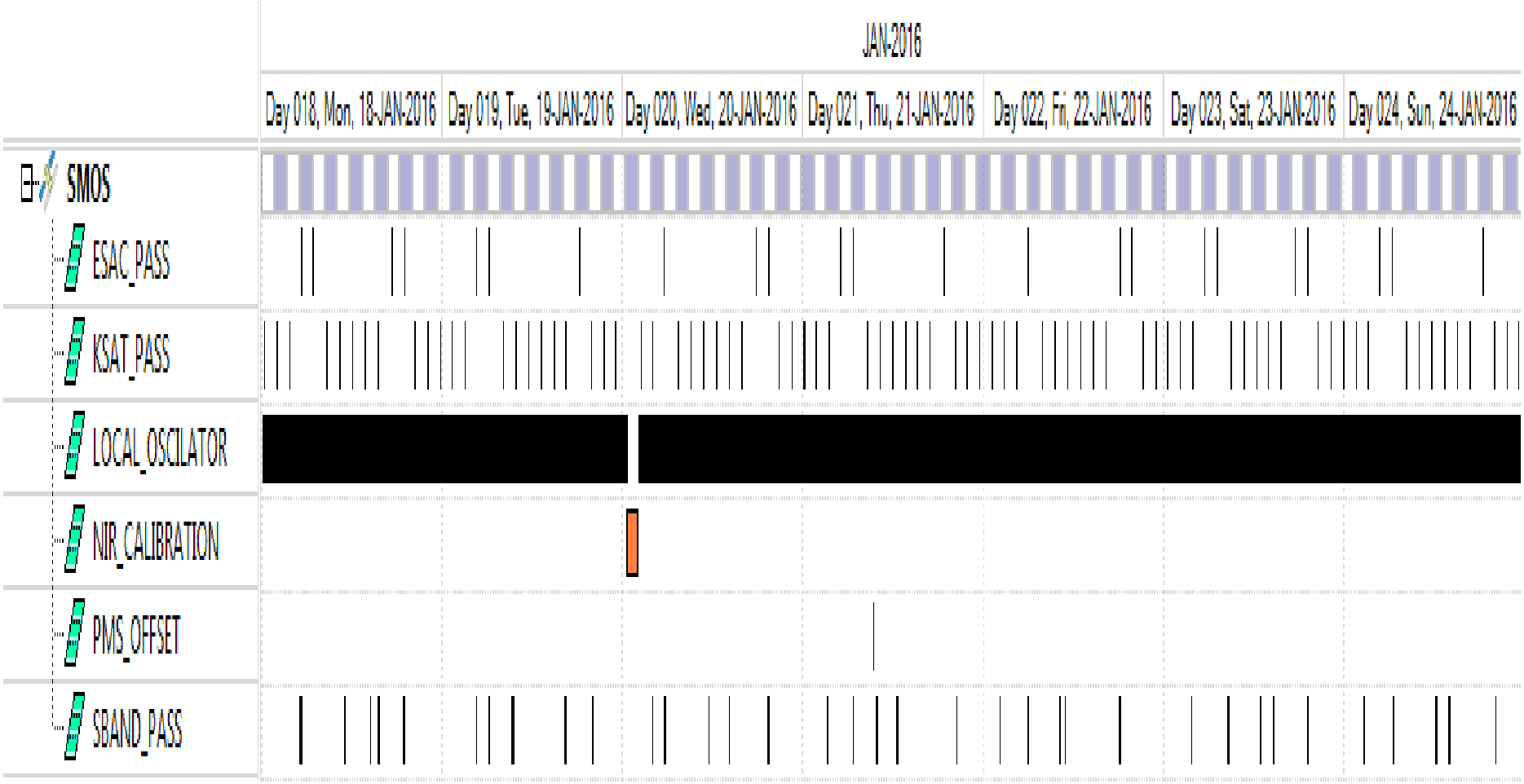
- One Warm NIR Calibration on 20 JAN 2016 (DoY 020) with ETO 01:25:11z (orbit 32663) and with the following expected calibration values:

B.T.	= 3.6523
R.M.S.	= 0.0711
Sun Elevation	= 9.981293 degrees
R.A.	= 026.2852 degrees
DEC.	= -15.6368 degrees

- One PMS Offset on 21 JAN 2016 (DoY 021), including three Short Calibrations at 09:25:00.0z, 09:25:34.8z, and 09:26:09.6z (orbit 32682).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.


JAN-2016
Day 018, Mon, 18-JAN-2016
Day 019, Tue, 19-JAN-2016
Day 020, Wed, 20-JAN-2016
Day 021, Thu, 21-JAN-2016
Day 022, Fri, 22-JAN-2016
Day 023, Sat, 23-JAN-2016
Day 024, Sun, 24-JAN-2016
SMOS
ESAC_PASS
KSAT_PASS
LOCAL_OSCILATOR
NIR_CALIBRATION
PMS_OFFSET
SBAND_PASS

3 TC Failures

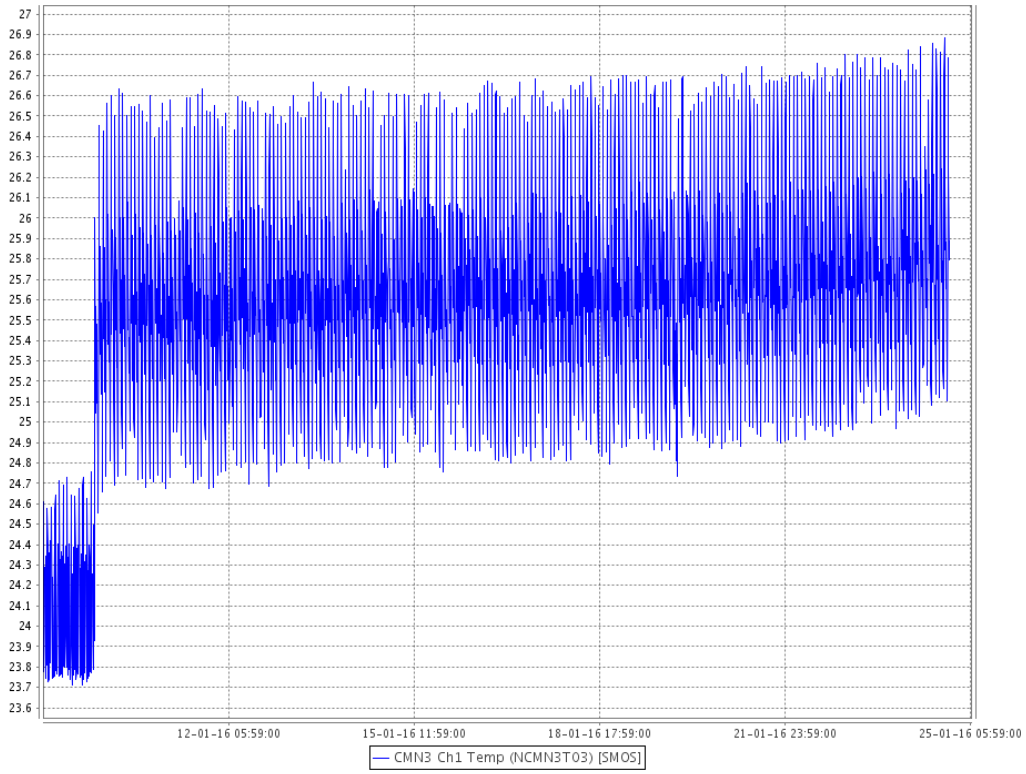
None.

4 Unforeseen Out of Limits (OOLs)

None.

5 On Board Anomalies

- Temperature of LICEF A10, had a sudden increase of around 1.5 degrees on the 9th of January 2016 (see FOS report for week 01 year 2016). From that point onwards and along the two following weeks, the values of this parameter remain inside a new upper band between 24.7 and 26.7 degrees (see Figure-1). Since soft high limits on the FOS PLPC system are set at 26 degrees, the parameter is violating that upper limit once every orbit around 3150 seconds after ANX crossing. No operational action is identified for this limit violation. As it is possible to see in the Figure below, this new upper band is slight increasing with time, which is compatible with the past evolution of this parameter at this time of the year. It is expected that this temperature will start to decrease after the end of the current eclipse season on the 29th of January.



6 On Board Events Telemetry

The following RAM Single Bit Errors befell this week:

Event Description	Severity	Event Time	Parameters
RAM single Bit Error	WARN	2016.017.21.55.13.996	23C5434
RAM single Bit Error	WARN	2016.021.19.36.13.671	20BFF48

7 FOS Systems Status

All FOS Systems nominal.

8 Data Reception from CNES

All *S* Band Passes were correctly received from CNES and successfully processed by the FOS PLPC System, with the following exceptions:

- SBand Ground Station pass KER-40 at 12:29z was lost due to a Ground Station Anomaly. MIRAS PUS Telemetry data was retrieved from the XBand and ingested into the MUST system. A E_HKTM telemetry gap from 2016-01-21T09:48:22z to 2016-01-21T12:31:34z was created on PLPC and SMTA-MUST systems.
- Telemetry data for AUS-17 pass at 05:14z on day 2016-01-18, contained the following four telemetry gaps:

  from 2016.018.04.40.58z to 2016.018.04.41.17z (30 Packets lost)
  from 2016.018.04.46.18z to 2016.018.04.46.30z (18 Packets lost)
  from 2016.018.04.51.01z to 2016.018.04.51.11z (15 Packets lost)
  from 2016.018.04.52.26z to 2016.018.04.52.47z (32 Packets lost)

  Gaps were filed with XBand data using PXMF system

9 *X* Band Data Reception in PXMF

- Due to the two SBand Ground Station failures described in section 8, the PXMF XBand system was used twice during this week in order to fill the MIRAS PUS Telemetry gaps produced by these two anomalies. The telemetry gaps filled from XBand system were:

  from 2016-01-21T09:48:35z to 2016-01-21T12:31:34z

  and:

  from 2016.018.04.40.58z to 2016.018.04.41.17z
  from 2016.018.04.46.18z to 2016.018.04.46.30z
  from 2016.018.04.51.01z to 2016.018.04.51.11z

from 2016.018.04.52.26z to 2016.018.04.52.47z

10 Exceptional Activities

None.

11 AOB

None.

APPENDIX A: OOLs

None.