1 General Comments

Activities scheduled for this week are those planned for the 06th calendar week of 2019:
04 FEB 2019 to 11 FEB 2019 (DOYs 035 to 042).

The following routine activities were planned this week (see Gantt chart on next page and CRF 790).

- One PMS Offset on 07 FEB 2019 (DOY 038), including three Short Calibrations at 07:21:30.0z, 07:22:04.8z, and 07:22:39.6z (orbit 48705).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.
Operations Notes
FOS Team @ ESAC
Reported by: J. Fauste/J.M. Castro Cerón

Topic: FOS Report for week 06, year 2019
Date: from 04 FEB 2019 to 11 FEB 2019
Issue: 1.0

Schedule Name: 2018_w06_cr

Display start: 05-02-2018 00:00:00.000
Display end: 12-02-2018 00:00:00.000

SMOS Sequences
- Disable_Cyclic_Function_SEQ
- Enable_Cyclic_Function_SEQ
- External_Calibration_HL_FDL_0401_SEQ
- int_LC_Phase_Cal_Noise_FUL_EXT_SEQ
- int_LC_Phase_Cal_Noise_FUL_NEXT_SEQ
- Long_Calibration_Fullog_0401_SEQ
- SBand Visibility_SEQ
- Update_Cyclic_LO_Pi_Cal_NoU_FUL_EXT_SEQ
- Update_Cyclic_LO_Pi_Cal_NoU_Ful_NaEx_SEQ
- XB_Cmd_Download_Serial_SEQ
- XB_Cmd_Download_V12_SEQ

Operations Notes — FOS Team @ ESAC
3 TC Failures
None.

4 On Board Anomalies
- The MIRAS instrument CMN, unit H1, unlocked on 2019-02-05T18:48:26.443z (DOY 036). This anomaly was geolocated over the Antarctic Ocean, due south of New Zealand:
  
  \[
  \text{Latitude} = -65.34 \\
  \text{Longitude} = 186.97 
  \]

  Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 6 Epochs.

5 On Board Events Telemetry
The following RAM Single Bit errors befell this week:

<table>
<thead>
<tr>
<th>Event Description</th>
<th>Packet ID</th>
<th>Severity</th>
<th>Event Time</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAM single Bit Error</td>
<td>730</td>
<td>WARN</td>
<td>2019-02-10T12:30:49</td>
<td>221A040</td>
</tr>
<tr>
<td>RAM single Bit Error</td>
<td>730</td>
<td>WARN</td>
<td>2019-02-10T10:03:31</td>
<td>221A040</td>
</tr>
<tr>
<td>RAM single Bit Error</td>
<td>730</td>
<td>WARN</td>
<td>2019-02-10T09:33:26</td>
<td>221A040</td>
</tr>
<tr>
<td>RAM single Bit Error</td>
<td>730</td>
<td>WARN</td>
<td>2019-02-04T12:46:52</td>
<td>201D658</td>
</tr>
</tbody>
</table>

6 FOS Systems Status
All FOS systems nominal.

7 Data Reception from CNES
All S band passes were correctly received from CNES and successfully processed by the FOS PLPC system, with the following exception.

- S band GS pass ASX-5 with AOS on 2019-02-05T18:36:20z was not disseminated as planned because of a network issue between CNES and the Aussaguel S band station. Consequently, the delivery of the HKTM for that pass to FOS was delayed, with no impact on the PLPC system. The gap generated in the SMTA-MUST DBs were filled manually. The TCO function did require a cold restart as the late delivery occurred after the next scheduled pass.

from 2019-02-01T12:58:05z to 2019-02-01T12:58:09z; 5 packets lost.
from 2019-02-01T13:03:59z to 2019-02-01T13:04:03z; 5 packets lost.

8 X Band Data Reception in PXMF

In order to fill the TM gaps reported in previous section, MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 5 FEB 2019. E_HKTM TM data on those intervals got permanently lost.

9 Exceptional Activities

None.

10 AOB

None.
APPENDIX A: OOLs

At the time the H! CMN unlock happened on the 5th of February, the following temporary OOLs were received in the FOS PLPC system.

<table>
<thead>
<tr>
<th>GS_TIME</th>
<th>OB_TIME</th>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
<th>OOL Value</th>
<th>Check Value</th>
</tr>
</thead>
</table>