1 General Comments

Activities scheduled for this week are those planned for the 1st calendar week of 2019:
31 DEC 2018 to 07 JAN 2019 (DOYs 365/2018 to 007/2019)

The Mission Planning for this week was performed together with the one of week 52 of year 2018 but this report only contains the events happened on week 1 of year 2019. The Gantt chart included in this report is the one containing the two weeks in a row.

The following routine activities were planned this week (see Gantt chart on next page and CRF 783).

- One Warm NIR Calibration on 02 JAN 2019 (DOY 002) with ETO 17:44:43z (orbit 48184; ASCENDING: thermally STABLE) and with the following expected calibration values:
  - B.T. = 4.04°
  - R.M.S. = 0.41
  - Sun elevation = 9.98°
  - Moon elevation = 43.92°
  - R.A. = 195.23°
  - DEC. = -19.97°

- One PMS Offset on 03 JAN 2019 (DOY 003), including three Short Calibrations at 06:46:30.0z, 06:47:04.8z, and 06:57:39.6z (orbit 48192).
- 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

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**FOS Report for week 01, year 2019**

From 31 DEC 2018 to 07 JAN 2019

1.0

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**Schedule Name:** 2018_w52_cr  
**Display start:** 24-12-2018 00:00:00.000  
**Display end:** 25-12-2018 09:36:00.000

<table>
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<tr>
<th>Week Of Year</th>
<th>SMOS Sequences</th>
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<tbody>
<tr>
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<td>Disable_Cyclic_Function_SEQ</td>
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<td></td>
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<td>External_Calibration柠 lastIndex_SEQ</td>
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<tr>
<td></td>
<td>iLO_Phase_Cali_PM_CalFull_SEQ</td>
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<td>ACS_IFULL_NEXT_SEQ</td>
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<td>PMS_Calist_Cali_PM_CalFull_SEQ</td>
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<td>EBInd_CalSeq_CalFull_SEQ</td>
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<td>Update_Cyclic_iLO_PM_CalFull_NEXT seq</td>
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<td>XB_Cmd_Downlink_SEQ</td>
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<tr>
<td></td>
<td>XB_Cmd_Downlink_V_PCM_SEQ</td>
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</tbody>
</table>

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**Operations Notes — Fi**
3 TC Failures
None.

4 On Board Anomalies
None.

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>
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</thead>
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<td>730</td>
<td>WARN</td>
<td>2018-12-31T21:33:02</td>
<td>20F4D00</td>
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<tr>
<td>RAM single Bit Error</td>
<td>730</td>
<td>WARN</td>
<td>2018-12-31T09:47:38</td>
<td>20BD25C</td>
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</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:
- On 2019-01-03 and because of an electrical failure at the receiving station, S-band GS pass KER-3 with AOS 13:07:34z got lost. The failure generated a gap on MIRAS PUS TM from 2019-01-03T10:27:40z to 2019-01-03T13:09:11z that was filled with X-Band TM data. The following E-HKTM was lost from 2019-01-03T10:27:26z to 2019-01-03T13:09:34.

8 X Band Data Reception in PXMF
Due to the S-Band pass failure on 2019-01-03 FOS retrieved MIRAS PUS TM from the X-Band side using the PXMF system. The following PUS TM gap was filled from 2019-01-03T10:27:40z to 2019-01-03T13:09:11z.

9 Exceptional Activities
None.

10 AOB
None.
APPENDIX A: OOLs

No relevant Out of Limits were received this week.