

# **Operations Notes**

FOS Team @ ESAC Reported by:

Date: Issue:

Topic:

FOS Report for week 12, year 2018 from 19 MAR 2018 to 26 MAR 2018

1.0

J. Fauste/J.M. Castro Cerón

#### 1 General Comments

Activities scheduled for this week are those planned for the  $12^{th}$  calendar week of 2018:

```
19 MAR 2018 to 26 MAR 2018 (Doys 078 to 085).
```

The following routine activities were planned this week (see Gantt chart on next page and CRF 727).

• One Warm NIR Calibration on 21 MAR 2018 (DoY 080) with ETO 03:26:32z (orbit 44046; DESCENDING : thermally UNSTABLE) and with the following expected calibration values:

```
B.T. = 3.85°
R.M.S. = 0.46
Sun elevation = 7.61°
Moon elevation = 18.18°
R.A. = 77.10°
DEC. = -53.55°
```

- One PMS Offset on 22 MAR 2018 (DoY 081), including three Short Calibrations at 07:55:30.0z, 07:56:04.8z, and 07:56:39.6z (orbit 44063).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

# 2 Mission Planning Deviations

None.

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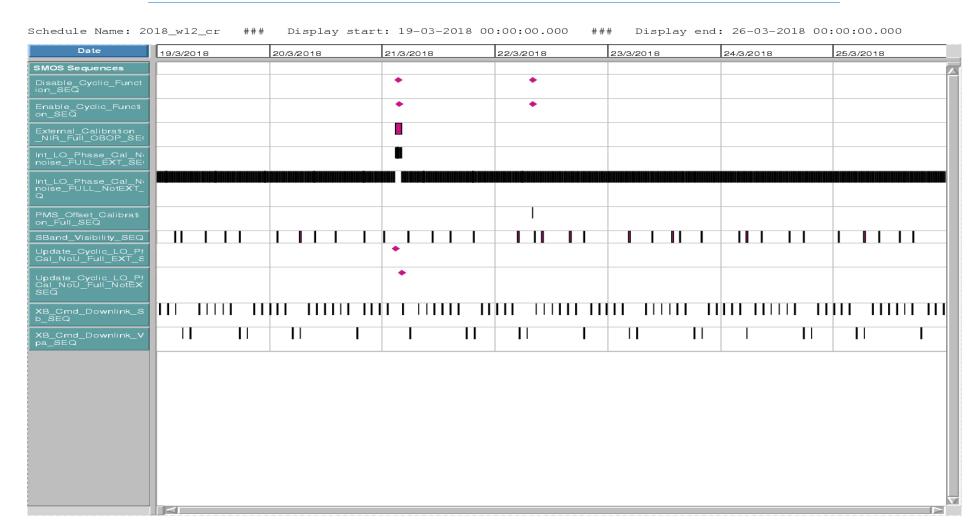
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# SMOS

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# 3 TC Failures

None.

#### 4 On Board Anomalies

None.

# 5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

<b>Event Description</b>	Packet ID	Severity	Event Time	<b>Parameters</b>
RAM Single Bit Error	730	WARNING	2018.079.03.04.25,192	222A260
RAM Single Bit Error	730	WARNING	2018.084.11.20.03,468	225F0E8
RAM Single Bit Error	730	WARNING	2018.084.12.53.09,512	2191530

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# 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 exceptions:

• Because of an Earth terminal anomaly at the receiving station, *S* band GS pass KUX-24 (AoS = 2018-03-22T08:19:25z; LoS = 2018-03-22T08:31:27z) could not acquired. The PUS TM gap went:

from 2018-03-22T04:50:13,324z to 2018-03-22T08:21:24,302z.

To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 22 MAR 2018.

# 8 X Band Data Reception in PXMF

• The PXMF server was used to fill the following MIRAS PUS TM gap: from 2018-03-22T04:50:13,324z to 2018-03-22T08:21:24,302z. The corresponding E\_HKTM was lost:

from 2018-03-22T04:49:56z to 2018-03-22T08:21:40z.

# 9 Exceptional Activities

None.

#### **10 AOB**

None.