1 General Comments

Activities scheduled for this week are those planned for the 19th calendar week of 2018:

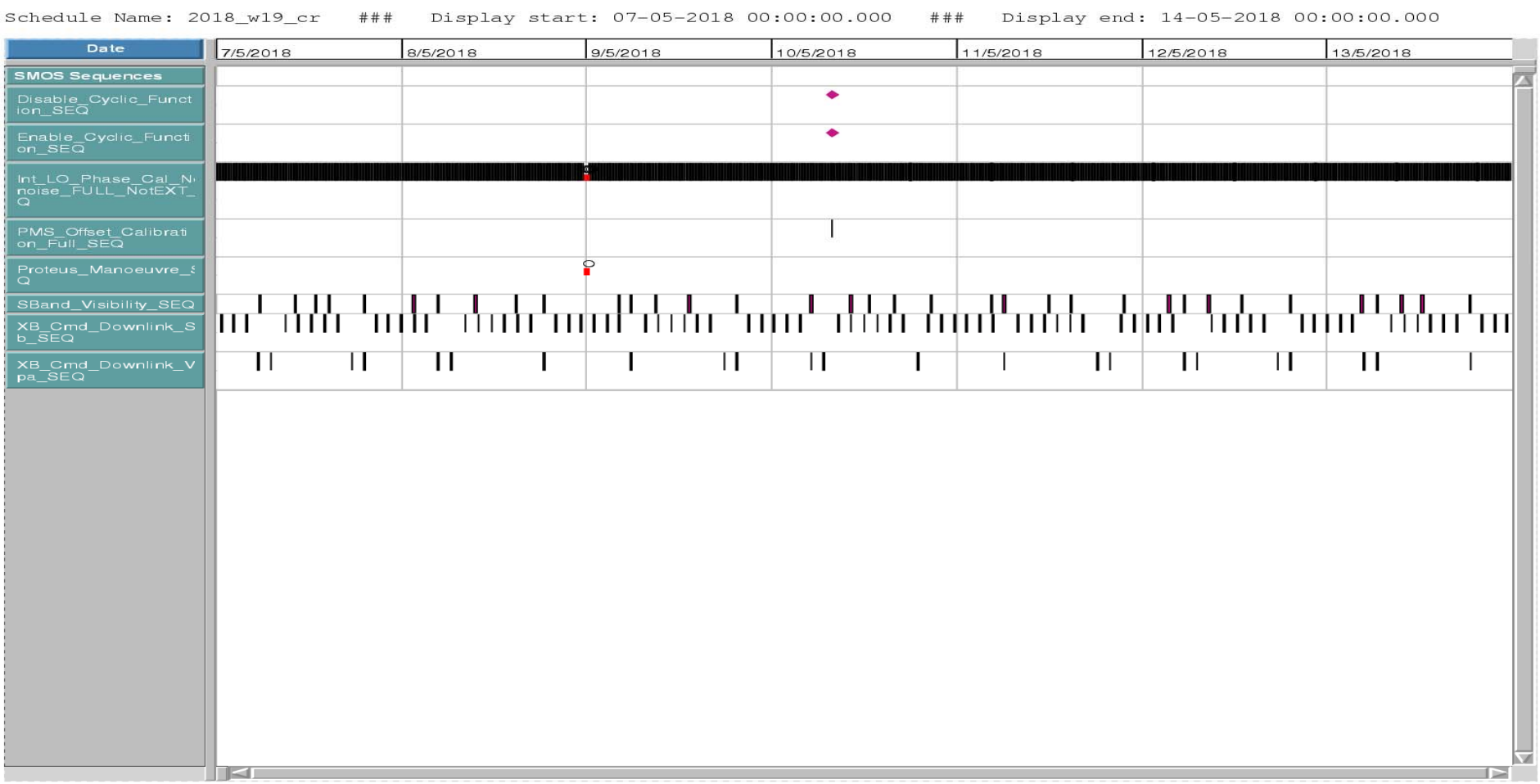
07 MAY 2018 to 14 MAY 2018 (DOYs 127 to 134).

The following routine activities were planned this week (see Gantt chart on next page and CRF 737).

- One PMS Offset on 10 MAY 2018 (DOY 130), including three Short Calibrations at 07:48:30.0z, 07:49:04.8z, and 07:49:39.6z (orbit 44768).
- A new Orbit Correction Manoeuvre, OCM, was scheduled on the 8th of May 2018 between 2018-05-08T23:45:36z to 2018-05-09T00:05:16z. Science data for that period was flagged as usual with an external APID. No conflicts with X Band passes.
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.


Schedule Name: 2018_w19_cr ### Display start: 07-05-2018 00:00:00.000 ### Display end: 14-05-2018 00:00:00.000
Date
7/5/2018
8/5/2018
9/5/2018
10/5/2018
11/5/2018
12/5/2018
13/5/2018
SMOS Sequences
Disable_Cyclic_Function_SEQ
Enable_Cyclic_Function_SEQ
Int_LO_Phase_Cal_Noise_FULL_NotEXT_Q
PMS_Offset_Calibration_Full_SEQ
Proteus_Manoeuvre_SQ
SBand_Visibility_SEQ
XB_Cmd_Downlink_Sb_SEQ
XB_Cmd_Downlink_Vpa_SEQ

3 TC Failures

None.

4 On Board Anomalies

None.

5 On Board Events Telemetry

The following RAM Single Bit errors befell this week:

Event Description	Packet ID	Severity	Event Time	Parameters
RAM single Bit Error	730	WARN	2018-05-09T23:00:41	237D6D8
RAM single Bit Error	730	WARN	2018-05-08T10:44:29	20C6F28

6 FOS Systems Status

The RAM memory of the following FOS servers was updated as follows:

FOSVIRT-01: from 8 GB to 16 GB
FOSVIRT-03: from 12 GB to 16 GB

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:

- HBX-9 S band pass with AOS at 2018-05-13T04:23:30z was not acquired due to ground station problems. The following MIRAS PUS TM gaps were produced by this anomaly:

  from 2018-05-12T19:09:27z to 2018-05-13T02:54:21z
  from 2018-05-13T03:02:37z to 2018-05-13T04:25:40z

  As well the following E_HKTM gaps were generated:

  from 2018-05-12T19:09:13z to 2018-05-13T03:06:01z
  from 2018-05-13T03:06:01z to 2018-05-13T04:26:01z

  To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 14 MAY 2018. The corresponding E_HKTM was lost.

- For S band GS pass STC-22 with AOS 2018-05-13T18:29:08z, the following PUS TM gap were detected in the PLPC system:

  from 2018-05-13T12:17:14.530z to 2018-05-13T12:18:16.740z
  from 2018-05-13T12:17:04.930z to 2018-05-13T12:17:08.540z
  from 2018-05-13T12:18:26.530z to 2018-05-13T12:30:08.140z

To achieve completion MIRAS PUS TM was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 14 MAY 2018. The corresponding E_HKTM was lost:

from 2018-05-13T12:16:57z to 2018-05-13T12:18:09z

8 *X* Band Data Reception in PXMF

The PXMF system was used to retrieve X Band telemetry and to complete the MIRAS PUS telemetry gaps produced by the S Band problems reported on section 7.

9 Exceptional Activities

None.

10 AOB

None.

APPENDIX A: OOLs

The only relevant and expected Out of Limit, was the one related with the OCM that was performed on the 8th of May. The OOL highlighted the fact that the MIRAS ITL became inactive during the manoeuvre period.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2018-05-09T04:51:13	2018-05-08T23:45:38	NTLHK022	ITL Ena State	Disabled	Enabled