1 General Comments

Activities scheduled for this week are those planned for the 25th calendar week of 2019:

17 JUN 2019 to 24 JUN 2019 (DoYs 168 to 175).

The following routine activities were planned this week (see Gantt chart on next page and CRF 815).

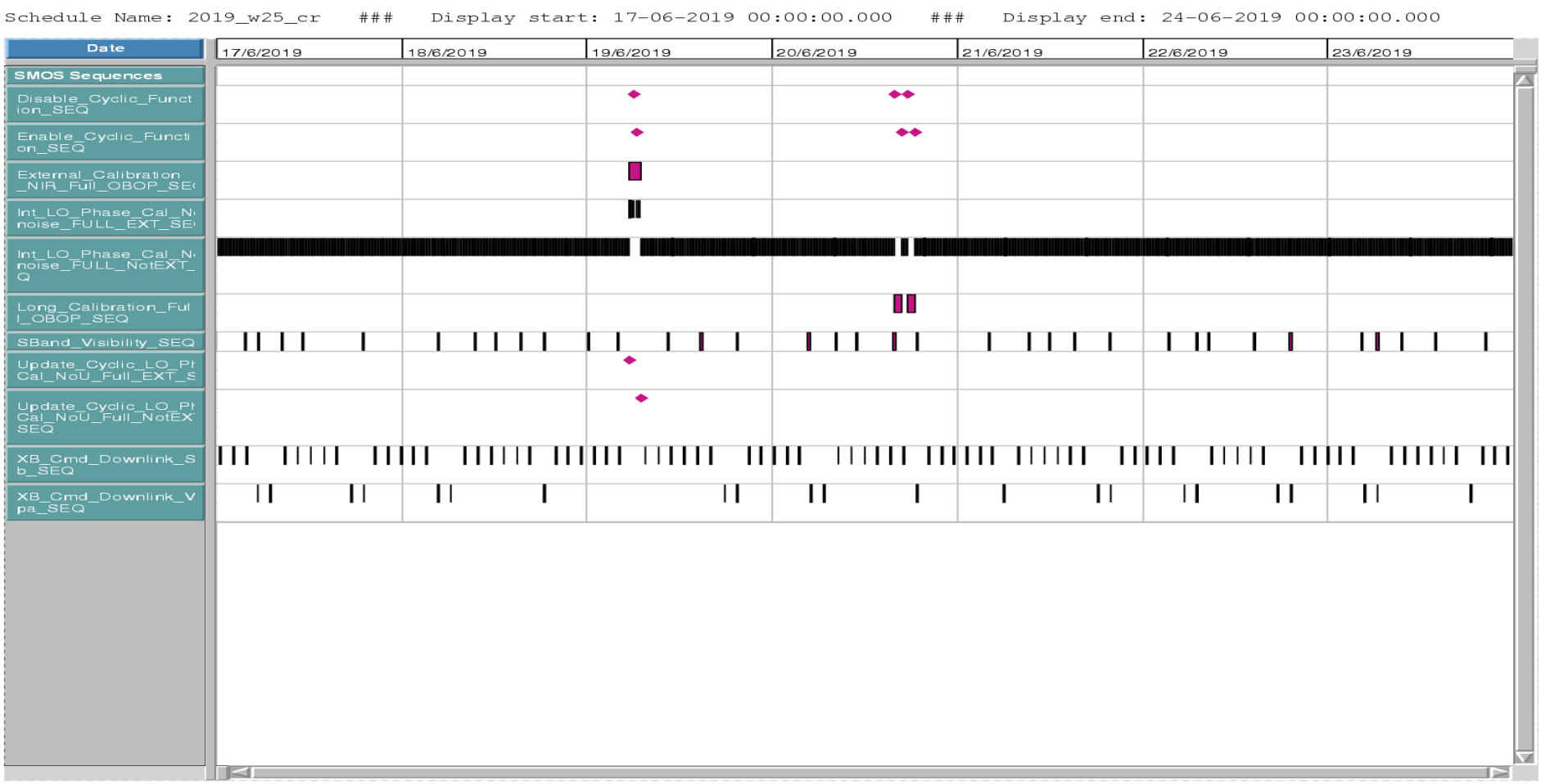
- One Warm NIR Calibration on 19 JUN 2019 (DoY 170) with ETO 06:14:00z (orbit 50595; DESCENDING: thermally STABLE) and with the following expected calibration values:

```
B.T.            =     3.50°
R.M.S.          =     0.12
Sun elevation   =     5.69°
Moon elevation  =   -27.27°
R.A.            =   180.13°
DEC.            =    22.76°
```

- Two LONG Calibrations on 20 JUN 2019 (DoY 171), which encompassed two ascending semi-orbital periods starting at 15:53:30z (orbit 50615) and 17:30:30z (orbit 50616).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.


Schedule Name: 2019_w25_cr ### Display start: 17-06-2019 00:00:00.000 ### Display end: 24-06-2019 00:00:00.000
Date
17/6/2019
18/6/2019
19/6/2019
20/6/2019
21/6/2019
22/6/2019
23/6/2019
SMOS Sequences
Disable_Cyclic_Function_SEQ
Enable_Cyclic_Function_SEQ
External_Calibration_NIR_Full_OBOP_SE
Int_LO_Phase_Cal_Noise_FULL_EXT_SE
Int_LO_Phase_Cal_Noise_FULL_NotEXT_Q
Long_Calibration_Full_OBOP_SEQ
SBand_Visibility_SEQ
Update_Cyclic_LO_PhCal_NoU_Full_EXT_S
Update_Cyclic_LO_PhCal_NoU_Full_NotEXSEQ
XB_Cmd_Downlink_Sb_SEQ
XB_Cmd_Downlink_Vpa_SEQ

3 TC Failures

None.

4 On Board Anomalies

- The MIRAS instrument MM, partition P8, latched up 2019-06-17T11:42:38,984z (DoY 168).

The following parameters went out of limits in the PLPC system:

```
2019.168.11.42.38,984z    DMASME04     LU Switch P8
2019.168.11.42.38,984z    DMASME37     SDD LU Detected
```

This anomaly was geolocated over the south-eastern Pacific Ocean, off the northern Chilean coast:

```
LAT.     = -21.09°
LONG.    = 277.95°
```

There were no science data losses associated with this anomaly because it affected partition P8, while the Read and Write pointers were both on partitions P4 and P5 respectively.

Recovery took place on 18 JUN 2019, at 13:00:00z (CRF 816).

At the time of the anomaly the position of the MM pointers were as follows:

```
READ     = 2085694    (partition P4)
WRITE    = 2365161    (partition P5)
```

5 On Board Events Telemetry

None.

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:

- The following *S* band GS pass:

```
STATION   PASS   AoS                   LoS
-------------------------------------------------------
ASX       11     2019.168.03.36.41     2019.168.03.48.01
```

could not be acquired because of an issue with the receiving station. The PUS TM gap went:

```
from 2019-06-16T21:30:36,042z to 2019-06=17T03:38:47,065z.
```

To achieve completion MIRAS PUS TM was recovered from the *X* band PXMF system and ingested into the MUST-SMTA system on 17 JUN 2019.

8 *X* Band Data Reception in PXMF

- On 17 JUN 2019 the PXMF server was used to fill the following MIRAS PUS TM gap:

from 2019-06-16T21:30:36,042z to 2019-06=17T03:38:47,065z.

The corresponding E_HKTM was lost:

from 2019-06-16T21:30:17z to 2019-06=17T03:38:50z.

9 Exceptional Activities

None.

10 AOB

None.

APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument MM, partition P8, latched up 2019-06-17T11:42:38,984z (DoY 168):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2019.168.19.23.22,917	2019.168.11.42.38,984	DMASME04	LU Switch P8	OFF	ON
2019.168.19.23.22,917	2019.168.11.42.38,984	DMASME37	SDD LU Detected	FALSE	TRUE