1 General Comments

Activities scheduled for this week are those planned for the 05th calendar week of 2024:

29 JAN 2024 to 05 FEB 2024 (DoYs 029 to 036).

The following routine activities were planned this week (see Gantt chart on next page and CRF Nº 1176).

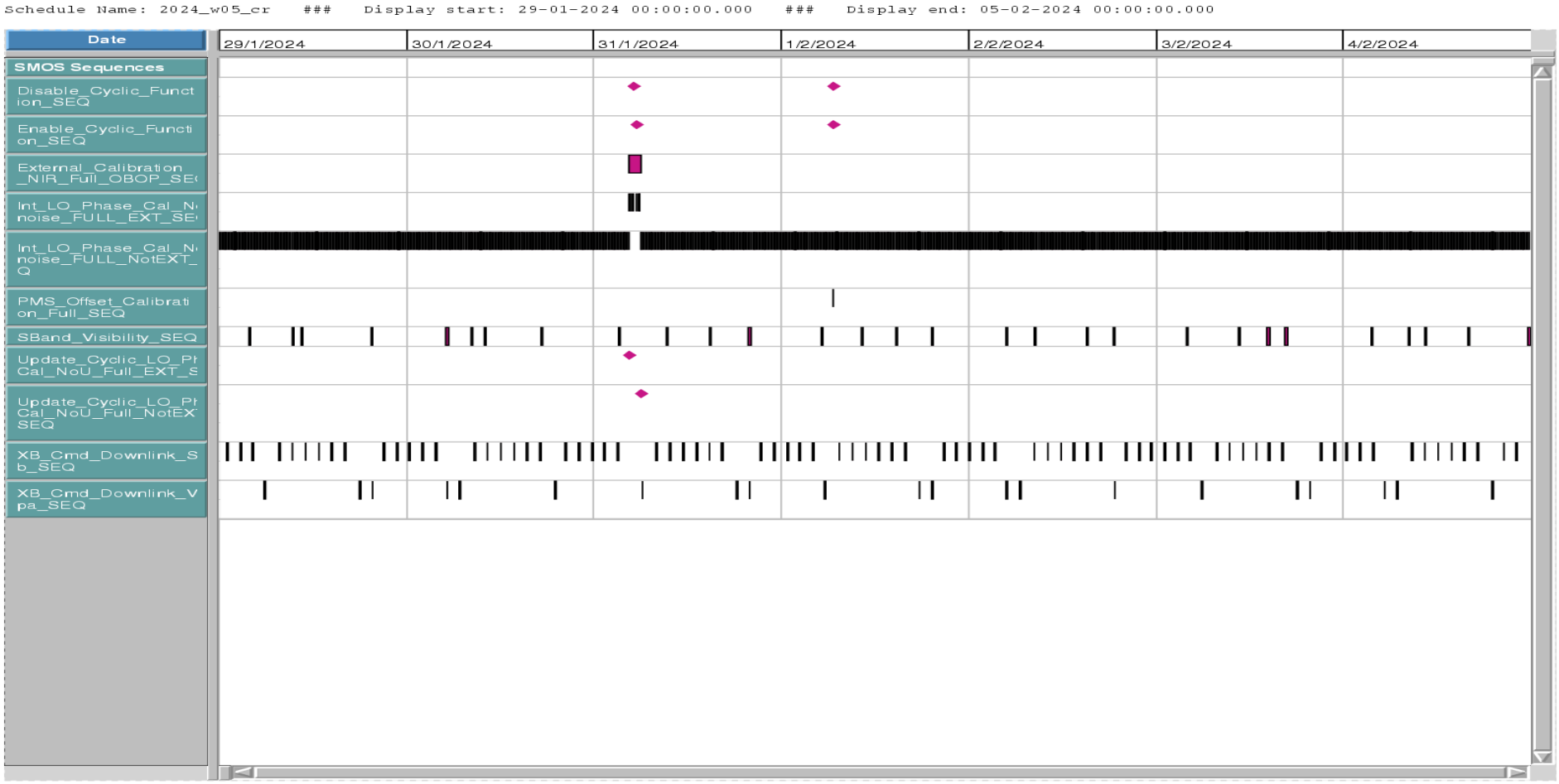
- One Warm NIR Calibration on 31 JAN 2024 (DoY 031) with ETO 05:15:55z (orbit 74869; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

```
B.T.            =     3.67°
R.M.S.          =     0.08
Sun elevation   =     9.77°
Moon elevation  =   -56.83°
R.A.            =    36.87°
DEC.            =   -16.09°
```

- One PMS Offset on 01 FEB 2024 (DoY 032), including three Short Calibrations at 06:35:30.0z, 06:36:04.8z, and 06:36:39.6z (orbit 74884).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.


Schedule Name: 2024_w05_cr ### Display start: 29-01-2024 00:00:00.000 ### Display end: 05-02-2024 00:00:00.000
Date
29/1/2024
30/1/2024
31/1/2024
1/2/2024
2/2/2024
3/2/2024
4/2/2024
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
PMS_Offset_Calibration_Full_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

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	WARNING	2024.029.22.58.45,674	21B0888
RAM Single Bit Error	730	WARNING	2024.030.20.54.31,177	2017254

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.

8 *X* Band Data Reception in PXMF

None, all *S* band passes successfully received and processed.

9 Exceptional Activities

None.

10 AOB

- **Thermal control in segment A1 and hub H2:**

  Consequence of MIRAS thermal degradation in segment A1 and hub H2 —and because of the seasonal Sun elevation over the antenna plane— the following parameters surpassed hard limits towards the end of this year's eclipse season:

  NCMN2T03 peaked at 30.587° on 2024-01-31T16:44:46z
  NCMN2T04 peaked at 30.125° on 2024-01-31T04:26:50z

  Heaters, still off at the time of writing this report, are expected to fire up in the coming weeks. Active monitoring is ongoing.

Graph below showcases the actual surpassing of hard limits.