1 General Comments

Activities scheduled for this week are those planned for the 49th calendar week of 2023:

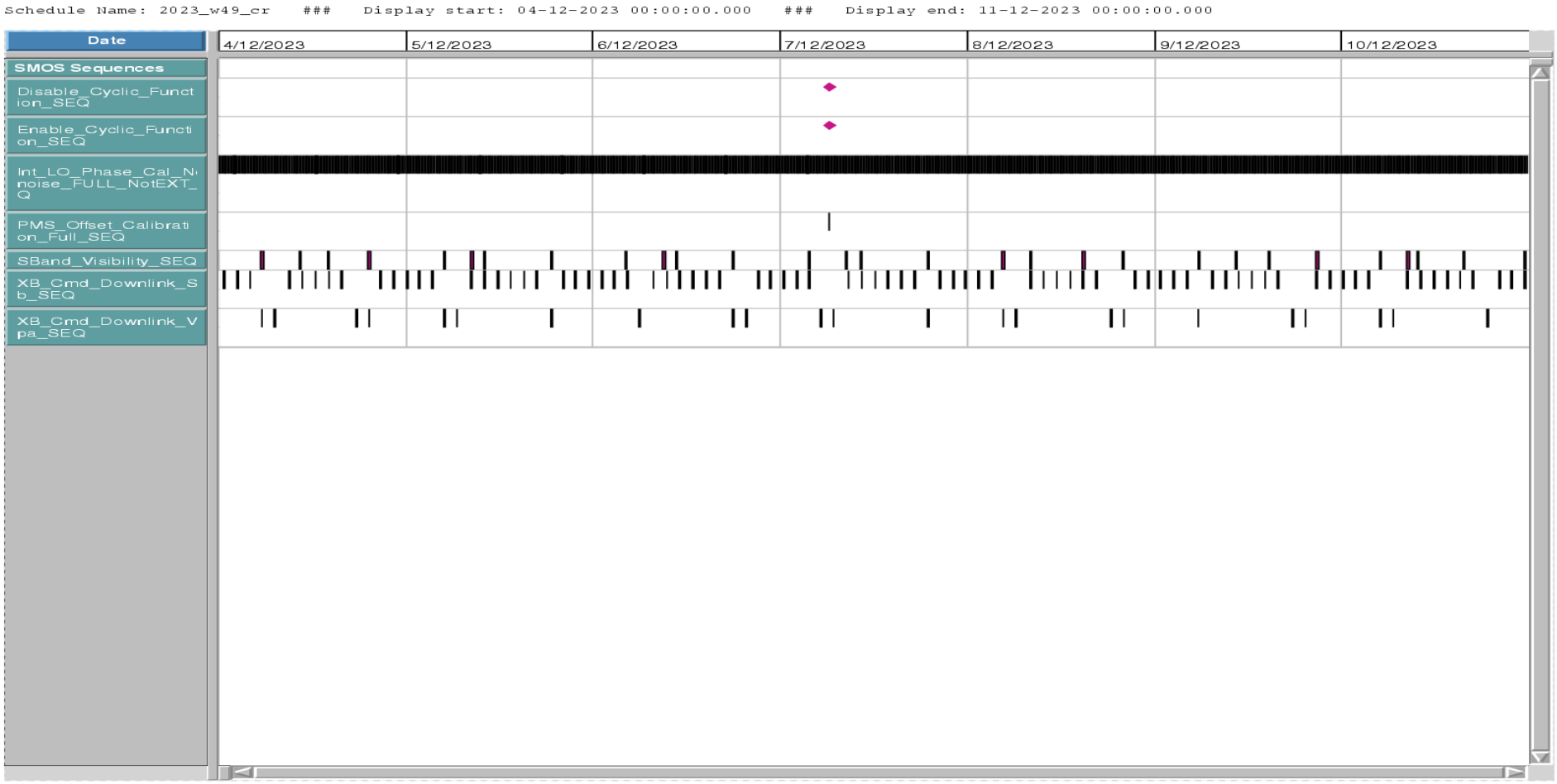
04 DEC 2023 to 11 DEC 2023 (DoYs 338 to 345).

The following routine activities were planned this week (see Gantt chart on next page and CRF Nº 1165).

- One PMS Offset on 07 DEC 2023 (DoY 341), including three Short Calibrations at 06:15:30.0z, 06:16:04.8z, and 06:16:39.6z (orbit 74078).
- Local Oscillator Calibrations every 10 minutes.
- *X* band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.


Schedule Name: 2023_w49_cr ### Display start: 04-12-2023 00:00:00.000 ### Display end: 11-12-2023 00:00:00.000
Date
4/12/2023
5/12/2023
6/12/2023
7/12/2023
8/12/2023
9/12/2023
10/12/2023
SMOS Sequences
Disable_Cyclic_Function_SEQ
Enable_Cyclic_Function_SEQ
Int_LO_Phase_Cal_Noise_FULL_NotEXT_Q
PMS_Offset_Calibration_Full_SEQ
SBand_Visibility_SEQ
XB_Cmd_Downlink_Sb_SEQ
XB_Cmd_Downlink_Vpa_SEQ

3 TC Failures

None.

4 On Board Anomalies

- MIRAS instrument MM, partition P7, latched up 2023-12-04T22:58:35z (DoY 338). The following parameters went out of limits in the PLPC system:

```
2023.338.22:58:35z      DMASME05      LU Switch P7
2023.338.22:58:35z      DMASME37      SDD LU Detected
```

This anomaly was geolocated over the South Pacific Ocean, off the coast of central Chile:

```
LAT.     = -30.68°
LONG.    = 280.58°
```

There were no science data losses associated with this anomaly because it affected partition P7, while the Read and Write pointers were both in partition P0. Recovery took place Wednesday 06 DEC 2023, at 03:00:00z (CRF N° 1166).

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

```
READ     = 197388 (partition P0)
WRITE    = 293869 (partition P0)
```

- The MIRAS CMN, unit C3, unlocked 2023-12-09T04:02:39z (DoY 343). This anomaly was geolocated over the southwestern coast of Norway:

```
LAT.     = 63.96°
LONG.    = 12.00°
```

Only locking status parameter SPM22167 went out of limits in the FOS PLPC system. The anomaly recovered by itself after a few seconds.

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	2023.341.21.06.29	21A1274

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

None.

APPENDIX A: OOL s

The following OOLs befell at the time the MIRAS instrument MM, partition P7, latched up 2023-12-04T22:58:35z (DoY 338):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.339.05.15.18	2023.338.22.58.35	DMASME05	LU Switch P7	OFF	ON
2023.339.05.15.18	2023.338.22.58.35	DMASME37	SDD LU Detected	FALSE	TRUE

The following OOLs befell at the time the MIRAS instrument, CMN unit C3, unlocked 2023-12-09T04:02:39z (DOY 343):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2023.343.06.12.31	2023.343.04.02.39	SPM22167	C3 LO_Locking	UNLOCK	LOCK