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## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 48, year 2022**

from 28 NOV 2022 to 05 DEC 2022

**1.0**

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### 1 General Comments

Activities scheduled for this week are those planned for the 48<sup>th</sup> calendar week of 2022:

28 NOV 2022 to 05 DEC 2022 (DoYs 332 to 339).

The following routine activities were planned this week (see Gantt chart on next page and CRF 1088).

- One PMS Offset on 01 DEC 2022 (DoY 335), including three Short Calibrations at 06:57:30.0z, 06:58:04.8z, and 06:58:39.6z (orbit 68740).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

### 2 Mission Planning Deviations

None.



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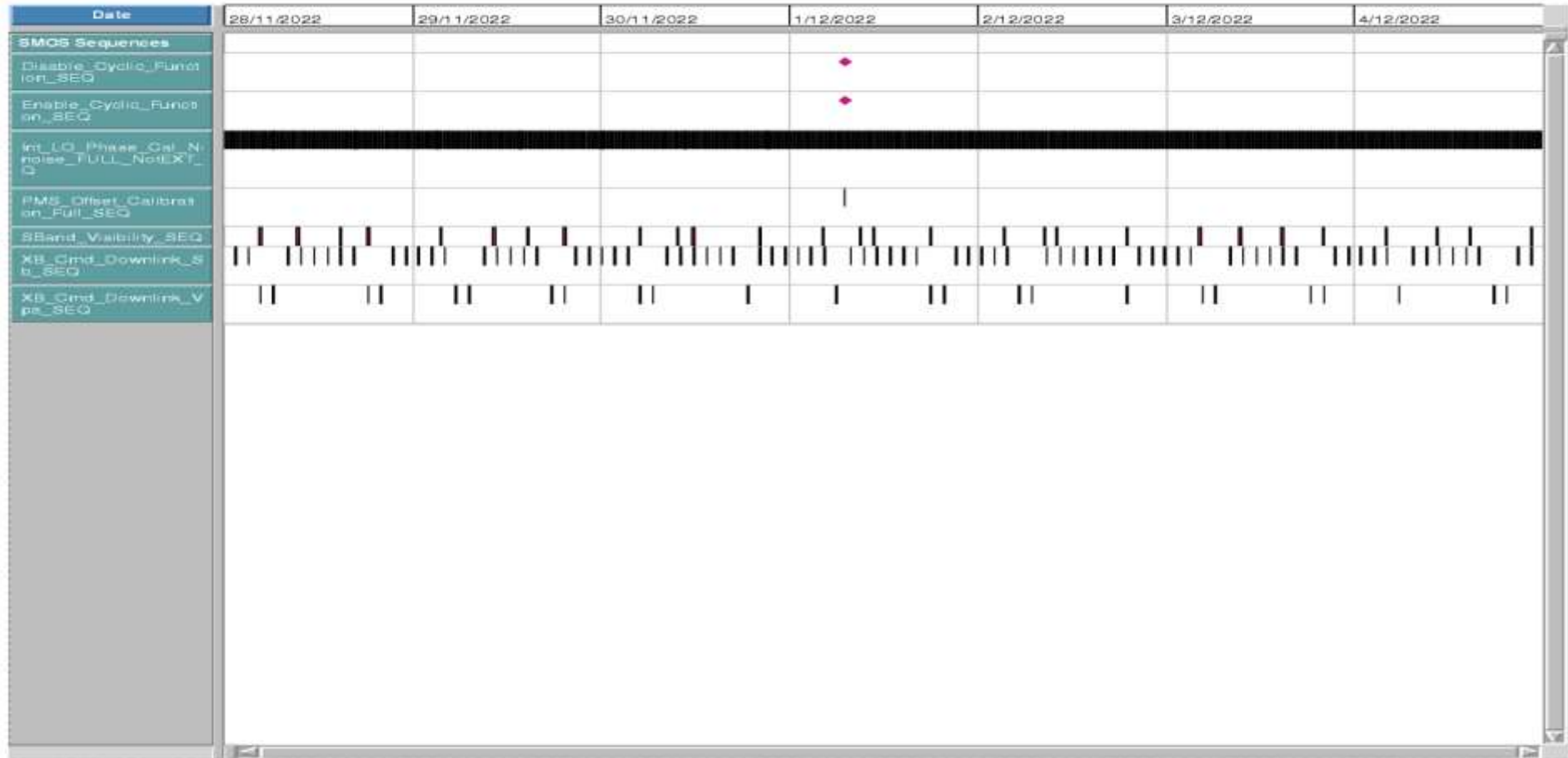
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Schedule Name: 2022\_w48\_or ### Display start: 28-11-2022 00:00:00.000 ### Display end: 05-12-2022 00:00:00.000





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### 3 TC Failures

None.

### 4 On Board Anomalies

- The MIRAS instrument CMN, unit H3, unlocked 2022-11-29T10:15:25,743z (DoY 333). This anomaly was geolocated over the Argentina-Paraguay border:

*LAT.* =  $-24.71^\circ$

*LONG.* =  $300.33^\circ$

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered in 3 epochs.

- The MIRAS instrument CMN, unit B3, unlocked 2022-11-29T22:30:57,487z (DoY 333). This anomaly was geolocated over Grønlands Nationalpark (Greenland):

*LAT.* =  $76.07^\circ$

*LONG.* =  $329.10^\circ$

Both parameters, output power SPM19162 and locking status SPM19167, went out of limits in the FOS PLPC system. The anomaly recovered in 12 epochs.

- The MIRAS instrument CMN, unit H3, unlocked 2022-12-01T20:00:10,303z (DoY 335). This anomaly was geolocated just off the coast of the Estado do Espírito Santo (Brazil):

*LAT.* =  $-19.05^\circ$

*LONG.* =  $327.33^\circ$

Both parameters, output power SPM13162 and locking status SPM13167, went out of limits in the FOS PLPC system. The anomaly recovered by itself in 11 epochs.

### 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	2022.334.10.00.23,685	2084B80
RAM Single Bit Error	730	WARNING	2022.336.08.38.32,954	2095950

### 6 FOS Systems Status

All FOS systems nominal.



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### **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.



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### APPENDIX A: OOLs

The following OOLs befell at the time the MIRAS instrument CMN, unit H3, unlocked 2022-11-29T10:15:25,743z (DoY 333):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022.333.10.59.18,010	2022.333.10.15.25,743	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2022.333.10.59.18,010	2022.333.10.15.25,743	SPM13167	H3 LO_Locking	UNLOCK	LOCK

The following OOLs befell at the time the MIRAS instrument CMN, unit B3, unlocked 2022-11-29T22:30:57,487z (DoY 333):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022.334.05.22.01,123	2022.333.22.30.57,487	SPM19162	B3 LO_Out_Power	NOT-OK	OK
2022.334.05.22.01,453	2022.333.22.31.03,487	SPM19167	B3 LO_Locking	UNLOCK	LOCK

The following OOLs befell at the time the MIRAS instrument CMN, unit H3, unlocked 2022-12-01T20:00:10,303z (DoY 335):

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022.336.03.40.14,827	2022.335.20.00.10,303	SPM13162	H3 LO_Out_Power	NOT-OK	OK
2022.336.03.40.15,063	2022.335.20.00.15,103	SPM13167	H3 LO_Locking	UNLOCK	LOCK