



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 11, year 2022

from 14 MAR 2022 to 21 MAR 2022

1.0

1 General Comments

Activities scheduled for this week are those planned for the 11th calendar week of 2022:

14 MAR 2022 to 21 MAR 2022 (DOYs 073 to 080).

The following routine activities were planned this week (see Gantt chart on next page and CRF 1034).

- One Warm NIR Calibration on 16 MAR 2022 (DOY 075) with ETO 03:47:00z (orbit 64997; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.80°
R.M.S.	=	0.32
Sun elevation	=	8.35°
Moon elevation	=	-3.00°
R.A.	=	75.61°
DEC.	=	-42.69°
- One PMS Offset on 17 MAR 2022 (DOY 76), including three Short Calibrations at 06:39:00.0z, 06:39:34.8z, and 06:40:09.6z (orbit 65013).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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Schedule Name: 2022_w11_cr ### Display start: 14-03-2022 00:00:00.000 ### Display end: 21-03-2022 00:00:00.000

Date	14/3/2022	15/3/2022	16/3/2022	17/3/2022	18/3/2022	19/3/2022	20/3/2022
SMOS Sequences							
Disable_Cyclic_Function_SEQ			◆	◆			
Enable_Cyclic_Function_SEQ			◆	◆			
External_Calibration_NIR_Full_OBOP_SEQ			■				
Int_LO_Phase_Cal_Noise_Full_EXT_SEQ			■				
Int_LO_Phase_Cal_Noise_Full_NotEXT_Q							
PMS_Offset_Calibration_Full_SEQ							
SBand_Visibility_SEQ	■	■	■	■	■	■	■
Update_Cyclic_LO_Pt_Cal_NoU_Full_EXT_SEQ			◆				
Update_Cyclic_LO_Pt_Cal_NoU_Full_NotEXT_SEQ			◆				
XB_Cmd_Downlink_Sb_SEQ	■	■	■	■	■	■	■
XB_Cmd_Downlink_Vpa_SEQ	■	■	■	■	■	■	■



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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit B3, unlocked 2022-03-19T21:47:43.736z (DOY 078). This anomaly was geolocated over Argentina:

Latitude = -31.148°

Longitude = 298.253°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 13 epochs.

- The MIRAS CMN, unit B2, unlocked 2022-03-15T04:31:46.736z (DOY 074). This anomaly was geolocated over the Antarctic Ocean, midway between Antarctica and New Zealand:

Latitude = -63.02°

Longitude = 185.49°

Only locking status parameter SPM18167, went out of limits in the FOS PLPC system. The anomaly recovered in 4 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	WARN	2022-03-16T18:45:49	211111C
RAM single Bit Error	730	WARN	2022-03-17T21:43:32	202F700
RAM single Bit Error	730	WARN	2022-03-20T21:23:40	23D0FA8

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.



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9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

CMN unlock of unit B3 generated the two following temporary out of limits on FOS PLPC system

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022-03-20T04:04:51	2022-03-19T21:47:43	SPM19162	B3 LO_Out_Power	NOT-OK	OK
2022-03-20T04:04:51	2022-03-19T21:47:48	SPM19167	B3 LO_Locking	UNLOCK	LOCK

CMN unlock of B2, generated the following temporary out of limits on FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2022-03-15T07:32:06	2022-03-15T04:31:46	SPM18167	B2 LO_Locking	UNLOCK	LOCK