



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/J.M. Castro Cerón

Topic:

Date:

Issue:

FOS Report for week 33, year 2021

from 16 AUG 2021 to 23 AUG 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 33rd calendar week of 2021:

16 AUG 2021 to 23 AUG 2021 (DOYs 228 to 235).

The following routine activities were planned this week (see Gantt chart on next page and CRF 987).

- One Warm NIR Calibration on 18 AUG 2021 (DOY 230) with ETO 04:38:44z (orbit 61775; DESCENDING: thermally UNSTABLE) and with the following expected calibration values:

B.T.	=	3.94°
R.M.S.	=	0.34
Sun elevation	=	3.37°
Moon elevation	=	20.78°
R.A.	=	243.29°
DEC.	=	38.84°
- One PMS Offset on 19 AUG 2021 (DOY 231), including three Short Calibrations at 07:53:50.0z, 07:54:24.8z, and 07:54:59.6z (orbit 61992).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit H1, unlocked 2021-08-17T09:31:43.817z (DOY 229). This anomaly was geolocated over south east of Brazil:

Latitude = -27.43°

Longitude = 311.94°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered in 10 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	2021-08-22T00:24:32	20ECA24
RAM single Bit Error	730	WARN	2021-08-20T23:46:43	2230174
RAM single Bit Error	730	WARN	2021-08-16T10:36:37	214F944

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.



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APPENDIX A: OOLs

CMN unlock of H1 unit on the 17th of August generated the two following temporary out of limits on the FOS PLPC system:

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-08-17T10:04:58	2021-08-17T09:31:37	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2021-08-17T10:04:58	2021-08-17T09:31:43	SPM11167	H1 LO_Locking	UNLOCK	LOCK