



Operations Notes

FOS Team @ ESAC

Reported by:

J. Fauste/C. Mosquera

Topic:

Date:

Issue:

FOS Report for week 36, year 2021

from 06 SEP 2021 to 13 SEP 2021

1.0

1 General Comments

Activities scheduled for this week are those planned for the 36th calendar week of 2021:

06 SEP 2021 to 13 SEP 2021 (DOYs 249 to 256).

The following routine activities were planned this week (see Gantt chart on next page and CRF 991).

- One PMS Offset on 09 SEP 2021 (DOY 252), including three Short Calibrations at 07:36:30.0z, 07:37:04.8z, and 07:37:39.6z (orbit 62294).
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

2 Mission Planning Deviations

None.



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Schedule Name: 2021_w36_cr ### Display start: 06-09-2021 00:00:00.000 ### Display end: 13-09-2021 00:00:00.000

Date	6/9/2021	7/9/2021	8/9/2021	9/9/2021	10/9/2021	11/9/2021	12/9/2021
SMOS Sequences							
Disable_Cyclic_Funct ion_SEQ				◆			
Enable_Cyclic_Funct ion_SEQ				◆			
Int_LO_Phase_Cal_N oise_FULL_NotEXT_ Q							
PMS_Offset_Calibrati on_FULL_SEQ							
SBand_Visibility_SEQ							
XB_Cmd_Downlink_S b_SEQ							
XB_Cmd_Downlink_V pa_SEQ							



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3 TC Failures

None.

4 On Board Anomalies

- The MIRAS CMN, unit H1, unlocked 2021-09-12T12:08:52.294z (DOY 255). This anomaly was geolocated over the south Indian Ocean:

Latitude = -43.10°

Longitude = 80.16°

Both parameters, output power SPM11162 and locking status SPM11167, went out of limits in the FOS PLPC system. The anomaly recovered after 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	WARN	2021-09-09T20:50:06	20E19E8

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, with the following exception:

Because an issue with the receiving station, S band GS pass STC-8 (AOS 2021-09-12T04:32:49z) contained 4 HKTMs gaps:

from 2021-09-11T19:21:53z to 2021-09-11T19:21.53z (2636 packets lost)

from 2021-09-11T19:21:56z to 2021-09-11T19:22:01z (2648 packets lost)

from 2021-09-11T19:22:01z to 2021-09-12T01:42:02z (11475 packets lost)

from 2021-09-12T01:55:47z to 2021-09-12T03:46:50z (8711 packets lost)

To achieve completion MIRAS PUS HKTMs was recovered from the X band PXMF system and ingested into the MUST-SMTA system on 13 SEP 2021. The corresponding E_HKTMs was lost.



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8 X Band Data Reception in PXMF

FOS PXMF system was used to fill MIRAS PUS TM gaps reported in section 7 above.

9 Exceptional Activities

None.

10 AOB

None.



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APPENDIX A: OOLs

At the time of the CMN unlock on the 12th of September the two following temporary out of limits were issued by the FOS PLPC system.

GS_TIME	OB_TIME	PARAMETER	DESCRIPTION	OOL Value	Check Value
2021-09-12T14:14:59	2021-09-12T12:08:52	SPM11162	H1 LO_Out_Power	NOT-OK	OK
2021-09-12T14:14:59	2021-09-12T12:08:58	SPM11167	H1 LO_Locking	UNLOCK	LOCK