



## Operations Notes

FOS Team @ ESAC

Reported by:

*J. Fauste/J.M. Castro Cerón*

Topic:

Date:

Issue:

**FOS Report for week 26, year 2018**

from 25 JUN 2018 to 02 JUL 2018

**1.0**

## 1 General Comments

Activities scheduled for this week are those planned for the 26<sup>th</sup> calendar week of 2018:

25 JUN 2018 to 02 JUL 2018 (DOYs 176 to 183).

The following routine activities were planned this week (see Gantt chart on next page and CRF 748).

- One Warm NIR Calibration on 27 JUN 2018 (DOY 178) with ETO 04:30:00z (orbit 45457; DESCENDING: thermally STABLE) and with the following expected calibration values:

B.T.	=	3.52°
R.M.S.	=	0.14
Sun elevation	=	6.45°
Moon elevation	=	4.10°
R.A.	=	189.11°
DEC.	=	24.26°
- Two LONG Calibrations on 27 DEC 2018 (DOY 178), which encompassed two semi-orbital periods starting at 14:46:00z (orbit 45463) and 16:28:00z (orbit 45464).
- One FTR Calibration on 28 JUN 2018 (DOY 179) with 17:59:52z (orbit 45479; ASCENDING: thermally UNSTABLE) and with the following expected calibration values:

Schedule	=	28 JUN 2018 (DOY 179)
ETO	=	17:59:52z
Orbit	=	45479
B.T	=	3.65°
R.M.S.	=	0.05
Sun elevation	=	-8.00°
Moon elevation	=	10.85°
R.A.	=	11.92°
DEC.	=	-30.79°
- Local Oscillator Calibrations every 10 minutes.
- X band Passes over ESAC and Svalbard.

## 2 Mission Planning Deviations

- An unexpected Collision Avoidance Manoeuvre was performed on Monday 25 JUN 2018 at 08:07:05z. The MIRAS on-board timeline was disabled and the instrument science data flagged with external APID during the whole duration of the manoeuvre, about 32 minutes, from 07:58:40z to 10:03:41z. The TCs for this special manoeuvre were uploaded on Sunday 24 NOV 2018.



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The following GS X band pass was cancelled since the MIRAS ITL had been disabled:

*Xband\_SVAL 2018-06-25T08:45:10z 2018-06-25T08:50:37z*





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### **3 TC Failures**

None.

### **4 On Board Anomalies**

None.

### **5 On Board Events Telemetry**

No relevant on board event packets were received this week.

### **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**

The Collision Avoidance Manoeuvre was performed on Monday 25 JUN 2018 (see section 2 for further details)

### **10 AOB**

None.



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## APPENDIX A: OOLs

At the time of the CAM execution the following OOL was issued by the FOS PLPC system indicating that the MIRAS on board ITL was made disabled.

<b>GS_TIME</b>	<b>OB_TIME</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>OOl Value</b>	<b>Check Value</b>
2018-06-25T08:58:59	2018-06-25T07:58:32	NTLHK022	ITL Ena State	Disabled	Enabled