

***XMM-Newton and INTEGRAL weekly  
Mission Operations Report***

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**XMM-Newton and INTEGRAL bi-weekly  
Mission Operations Report**

**XMM-INT-WOPS-18\_17\_18**

**Issue 1**

**Date: 15 May 2018**

Marcus Kirsch  
OPS-OAX

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## **1. Weekly report**

	<b>XMM</b>	<b>Integral</b>
Main activities	<ul style="list-style-type: none"> <li>▪ Nominal operations</li> <li>▪ Since 3<sup>rd</sup> of May NIS is operational</li> <li>▪ SPACON merger final activities</li> <li>▪ Simulator porting</li> <li>▪ CDMU table patch preparation for Migration 1-B</li> <li>▪ Reduction of wheel speed during solstice period optimisation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal Science Operations, ToO observations revolutions 1946 to 1950 MAXI J1820+070 and ASASSN-18fv</li> </ul>
Status and performance of S/C	<ul style="list-style-type: none"> <li>▪ Nominal for platform and all instruments</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal for platform and payload</li> </ul>
Status and performance of Ground segment	<ul style="list-style-type: none"> <li>▪ Nominal</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal</li> <li>▪ Ongoing occasional RFI at all stations, some sources identified</li> </ul>
S/C Anomalies	<ul style="list-style-type: none"> <li>▪ none</li> </ul>	<ul style="list-style-type: none"> <li>▪ none</li> </ul>
G/S Anomalies	<ul style="list-style-type: none"> <li>▪ none</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT-3692 Weilheim Unstable During LEOP Support</li> <li>▪ IXG-3 INT, XMM, GAIA: GMMS elements not updated, GMMS frozen</li> <li>▪ IXG-4 INT, XMM, GAIA: GMMS server startup and failover take far too long</li> </ul>
Future activities planned	<ul style="list-style-type: none"> <li>▪ Airbus progress meeting May</li> <li>▪ MEOR in June</li> <li>▪ Cebreros checkout June</li> <li>▪ NSO through 0 implementation</li> <li>▪ Lela migration to MCS</li> </ul>	<ul style="list-style-type: none"> <li>▪ Continued ToO operations MAXI J1820+070 and ASASSN-18fv, revolution 1951 onwards</li> </ul>

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## **2. Detailed weekly operational events**

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

- 2018-04-26 15:15:00 (116) commanding of CSL failed and timeline stopped. @15.15z Spacon disabled EPICs and OM commanding (to keep them in Idle closed and Idle blocked as required by SCP\_SYS\_5004 step 8.2{Case G} -> SCP\_SYS\_5009 Top level instrument contingency procedure which requires Instruments to be in SLEW configuration) as corrective slew will need to be done. FD and SOEs (LT, DS, UW) called over. Close to the blemish pixel BM#9. Tracked with XMM\_SC-117. FD did add the BP#9 together with BP#10 and BP#30 in the on ground table. The on ground table contains now 6 entries.
  - o 2018-04-26 16:09:00 (116): SSTs uplinked 3366\_54,55,56,57\_M.SST tracking 5 stars S/S 1 in T/L RE-ENABLED
- 2018-05-05 18:00:00 (125): GMMS window froze. Spacon tried to close the window but nothing worked. spacon exited the desktop and used the right click menu to re-start the window but it came up frozen again.

### **2.2. INTEGRAL**

2018-04-23 (113)

03:30:00 G/S: TM drop from: KIR, duration: 10s, RFI, source JASON-3  
13:17:00 RPOS: timeline 1945\_01 stooped and 1945\_02 loaded and dispatched.  
13:26:00 RPOS: Manual CGS is uplinked followed by manual RWB uplinked  
13:54:00 RPOS: TPF 1945\_0503\_A.osl applied on A/S to update slew 19450032

2018-04-24 (114)

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2018-04-25 (115)

10:30:00 Execution of OCR 1506 before LOS  
15:50:00 Rejoin TL after S3B LEOP GS outage  
16:11:00 SPI JEMX1 JEMX2 enabled in timeline  
16:24:00 OMC enabled in timeline  
16:26:00 IBIS re-enabled in timeline  
16:27:00 RM enabled in timeline  
22:50:00 Bad frames and link drops from Weilheim. AR INT-3692

2018-04-26 (116)

04:51:00 Due to continuing unstable G/S multiple slews have failed.  
04:55:00 Manual slew 1946\_0502\_M.OSL from PID #19460026 to #19460032  
05:14:00 FDS: TPF 1946\_0503\_A.OSL applied on A/S to update slew 19460033  
11:25:00 OCR 1507, instruments to safe before g/s gap (S3B LEOP).  
17:26:00 AOS WHM, rejoin TL after S3B LEOP GS gap  
17:38:00 next slew ID#19460042 updated successfully  
17:39:00 SPI, JEM-X1 and JEM-X2 enabled in the Timeline

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17:54:00 IBIS re-enabled in timeline.  
17:56:00 OMC re-enabled in timeline  
17:57:00 IREM re-enabled in Timeline  
20:09:00 Drops and data gaps from WHM, RFI, source BEIDOU M6

2018-04-27 (117)

20:52:00 Multiple minor TLM gaps, no knock on effects from WHM, AR INT-3692  
09:25:00 OCR # 1508: G/S Gap in Revolution 1947. Actions before LOS  
14:51:00 OCR#1508 G/S Gap in Rev 1947. Actions after AOS

2018-04-29 (119)

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2018-04-30 (120)

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2018-05-01 (121)

10:17:00 FDS: TPF update failed for SlewID #19480039.  
10:36:00 FDS: TPF 1948\_0500\_A.OSL applied on A/S to update slew 19480039  
17:03:00 IMU ON, PID #19480044 interrupted  
17:18:00 FDS: TPF 1948\_0501\_A.OSL applied on A/S to update slew #19480045  
18:01:00 FDS: TPF update failed for SlewID #19480046.  
18:07:00 FDS: TPF 1948\_0502\_A.OSL applied on A/S to update slew #19480046

2018-05-02 (122)

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2018-05-03 (123)

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2018-05-04 (124)

07:23:30 OEM: "ACC AIMU ON"  
07:40:00 Slew ID 19490036 updated successfully

2018-05-05 (125)

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2018-05-06 (126)

09:40:00 OOL E0392 "T CR COLDPLT L2" HH 80.937K, FCP\_SPI1\_2504 – SPI  
Stroke increase to 39