

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

Document No :XMM-INT-WOPS-23\_50-51  
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**XMM-INT-WOPS-23\_50-51**

**Issue 1**

**Date: 29 December 2023**

Marcus Kirsch  
OPS-OAX

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## **1. Weekly report**

	<b>XMM</b>	<b>Integral</b>
<b>Main activities</b>	<ul style="list-style-type: none"> <li>▪ Nominal Operations</li> <li>▪ Phase in of new service contract for SOEs finished</li> <li>▪ Lela final migration to MCS</li> <li>▪ Manual spacecraft recovery without propellant procedures</li> <li>▪ CDMU recovery automation</li> <li>▪ NSM on board</li> </ul>	<ul style="list-style-type: none"> <li>▪ Routine science operations</li> </ul>
<b>Status and performance of S/C</b>	<ul style="list-style-type: none"> <li>▪ Nominal for platform and all instruments</li> </ul>	<ul style="list-style-type: none"> <li>▪ Manual transponder swaps following RF switch anomaly</li> </ul>
<b>Status and performance of Ground segment</b>	<ul style="list-style-type: none"> <li>▪ Nominal, apart from some issues with TOL and AGO currently yellow due to degraded performance of the SSPA</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal apart from 2 communications issues</li> </ul>
<b>S/C Anomalies</b>	<ul style="list-style-type: none"> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT_SC-747 TX2 LCL Single Event Upset simultaneous with G/S link problems</li> </ul>
<b>G/S Anomalies</b>	<ul style="list-style-type: none"> <li>▪ XMM-1556: Timeline stopped due to CMD_MAX_TIMER_DELAY</li> <li>▪ XMM-1557: MOIS procedure failed</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT-3929 All ESTRACK MPLS Lines Down</li> </ul>
<b>Future activities planned</b>	<ul style="list-style-type: none"> <li>▪ DABYS D/B implementation kick off Feb. 7</li> <li>▪ NSM via MOIS</li> <li>▪ Webserver and NRT Analysis/Monitoring migration</li> </ul>	<ul style="list-style-type: none"> <li>▪ Automation of Transponder swap operations</li> <li>▪ Automation of ground station operations (EVFM)</li> </ul>

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

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

- 15/12/2023 (349) 18:18:43: Notice TL has stopped. c.18.05 - 18.08. (Event logger retrieval shows 18.07 - CMD\_MAX\_TIMER\_DELAY no alarm). Restart TL and resend missed commands EE0081 and K0081 Load Emae Comman (2nd half of seq EE7012 and KE7012) in a commanding gap some minutes later. Do not send the sequences for Go to Idle, FW Closed and Stop WD's for MOS1,2,PN - as the instruments are already in Idle, FW Closed and WD's stopped. By this time the WF is high. (should be fixed in next MCS release eventually)

### **2.2. INTEGRAL**

14/12/2023 (348)

23:02:07 No TM on CORTEX/IFMS. All ESTRACK MPLS Lines Down.  
23:20:13 Ground station handover KIR to VIL1 TV + TM OK. AR INT-3829

18/12/2023 (352)

04:38:51 FDS: TPF update failed for SlewID #27210057  
04:53:54 Manual slew 2721\_0500\_M.OSL from PID #27210056 to #27210057  
05:37:11 Manual slew 2721\_0501\_M.OSL from PID #2721000057 to #2721000059  
05:54:35 FDS: TPF 2721\_0502\_A.OSL applied on A/S to update slew 2721000060

24/12/2023 (358)

11:58:28 Complete loss of TM. AR INT\_SC-747 TX2 LCL Single Event Upset simultaneous with G/S link problems. Interruption of Instrument activation at perigee exit.  
14:47:08 AD Service initiated, - Test Cmd OK  
15:32:11 FDS: TPF 2754\_0500\_M.xxx applied on A/S to update slew 27249500  
15:59:04 Manual slew 2724\_0501\_M\_CSL as follow on from the previous  
16:43:10 FDS: TPF 2724\_0503\_A.OSL applied on A/S to update slew 27240006  
17:10:10 JEM-X1 recovered  
17:58:57 JEM-X2 recovered  
18:17:03 OMC recovered  
19:21:28 IBIS recovered  
20:58:56 Uplinked BCPKT G1 as per FCP\_DHS\_1308

27/12/2023 (361)

18:23:38 TPF update failed for Slew 27250016. Next slew executes without update (OI#2443)