

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

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**XMM-INT-WOPS-23\_42-43**

**Issue 1**

**Date: 07 November 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 (October-December)</li> <li>▪ DABYS D/B prototype negotiations</li> <li>▪ Tolhuin station in operational test</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> <li>▪ Eclipse Season</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</li> </ul>	<ul style="list-style-type: none"> <li>▪ Nominal</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-742 PPDU-B Watchdog PRESTAT reset</li> <li>▪ INT_SC-743 SPI PSD Channel Rate Malfunction</li> <li>▪ INT_SC-743 SPI PSD malfunction causing LSL error</li> <li>▪ INT_SC-615 Summary report for all JEMX1/2 DFEE CRC anomalies: last event 2023-10-29</li> </ul>
<b>G/S Anomalies</b>	<ul style="list-style-type: none"> <li>▪ XMM-1547: Tolhuin Links Go Unbound</li> <li>▪ XMM-1548: EVFM processing failure</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT-3924 Automation stopped on INT and XMM</li> </ul>
<b>Future activities planned</b>	<ul style="list-style-type: none"> <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> <li>▪ Deployment of MCS E541</li> </ul>

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

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

- 18/10/2023 (291) 01:51:03: MOIS G/S H/O procedure unable to determine that the rock solidly stable links to AGO are stable. TCs to OM are released from A/S but can not reach spacecraft since there is no TC link connected. After disabling S/S 9 OM TCs are still released since dyn PTV was disabled by MOIS.
- 19/10/2023 (292) 13:32:56: OOL EVFM\_RUN "EVFM GEN SUCCESS" Value = FAILURE, Informed SOE On Call
  - o 25/10/2023 (298) 12:53:35: OOL. EVFM\_RUN, Status; FAILURE. Informed on-call SOE as per X-ref
- 25/10/2023 (298)16:18:11:TOH. VC7 & TC links changed to UNBOUND. OM commanding interrupted. OM disabled in a/s Informed Estrack. (NIS issues)
- 26/10/2023 (299) 21:50:00: MOIS scheduler stopped running for unknown reasons. Procedures to delete safety TTCs for RGSes and EPICs were not executed.
- 28/10/2023 (301) 01:21:33: Automation of GS handover to AGO partially failed with link unstable message (it wasn't, although this may have been an artifact from earlier TOH & DSN testing). Manually loaded AGO TC link & closed TOH links. Manually disabled NIS throw events & re-enabled dynamic PTV in u/l config. Sent TC seq.
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### **2.2. INTEGRAL**

16/10/202 (289)

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17/10/2023 (290)

21:40:52 TPF update failed for SlewID #26980048. OCR # 2424: no action required.

18/10/2023 (291)

04:31:08 Slew update failed for SlewID 26980060. No action required

19/10/2023 (292)

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20/10/2023 (293)

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21/10/2023 (294)

20:55:20 SPI PSD Channel Rate Malfunction, AR INT\_SC-743

22/10/2023 (295)

04:49:40 FDS: TPF update failed for SlewID #27000014.

04:57:06 FDS: TPF 2700\_0500\_A.OSL applied on A/S to update slew 27000014

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05:46:02 FDS: TPF update failed for SlewID #27000015.  
05:59:44 FDS: TPF 2700\_0501\_A.OSL applied on A/S to update slew 27000015  
06:43:46 FDS: TPF update failed for SlewID #27000016.  
06:50:22 FDS: TPF 2700\_0502\_A.OSL applied on A/S to update slew 27000016  
09:37:03 FDS: TPF update failed for SlewID #27000019.  
09:43:59 FDS: TPF 2700\_0503\_A.OSL applied on A/S to update slew 27000019

23/10/2023 (296)

10:27:32 Automation system stopped (also XMM), AR INT-3924  
22:07:20 TC:EU0252D of ED EEENTRY03 Failed release, recovery as per ED X-Ref

24/10/2023 (297)

07:11:26 OOL: P2223 PRESTAT PPDU A, WARN DETECT.. AR INT\_SC-745  
23:21:37 FDS: updateslew failed, no TPF generated for SLEWID 27010031  
23:28:09 FDS: TPF 2701\_0500\_A.OSL applied on A/S to update slew 27010031

25/10/2023 (298)

03:14:28 FDS: updateslew failed, no TPF is generated for SLEWID 27010035  
03:22:06 FDS: TPF 2701\_0501\_A.OSL applied on A/S to update slew 27010035

26/10/2023 (299)

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27/10/2023 (300)

22:03:24 SPI PSD malfunction causing LSL error, AR INT\_SC-744

28/10/2023 (301)

00:42:34 SPI recovery complete

29/10/2023 (302)

13:52:23 OOL L5583 "CPU MODE". Value = 8MHZ. I\_CRP\_JEM2\_5011

30/10/2023 (303)

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