

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

Document No :XMM-INT-WOPS-23\_12-13  
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**XMM-INT-WOPS-23\_12-13**

**Issue 1**

**Date: 06 April 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>▪ Move back of operations to E41</li> <li>▪ Full end to end instrument radiation protection and rejoin</li> <li>▪ MCS 12.7.0 testing</li> <li>▪ OA OPS tools servers S/W and H/W migration</li> <li>▪ MCS migration</li> <li>▪ DABYS D/B prototype</li> <li>▪ Tolhuin station consolidation</li> <li>▪ G/S ops automation (part2/ NIS)</li> <li>▪ Lela final migration to MCS</li> <li>▪ Replenishment automation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Routine science operations</li> <li>▪ SPI Annealing #40</li> <li>▪ Move back of operations to E41</li> <li>▪ CORTEX Validation on KIR</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-728 Update slew task not possible and RW plots show an increasing error</li> </ul>
<b>G/S Anomalies</b>	<ul style="list-style-type: none"> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT-3891 ICLB1 thin client (THC-E41-09) session disappeared</li> </ul>
<b>Future activities planned</b>	<ul style="list-style-type: none"> <li>▪ Manual spacecraft recovery without propellant procedures</li> <li>▪ CDMU recovery automation</li> <li>▪ Webserver migration</li> </ul>	<ul style="list-style-type: none"> <li>▪ Automation of Transponder swap operations</li> <li>▪ Science Mission extension until 2024</li> <li>▪ Start of eclipse season on April 18<sup>th</sup></li> </ul>

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

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

- Tolhuin: successful shadow tracking pass performed from DOY080 to DOY082.
- 27/03/2023 (086) 07:45:39 BAT 2 re-conditioning start according to OI#4528
- 27/03/2023 (086) 12:26 Operations successfully moved back to E41

### **2.2. INTEGRAL**

- 24/03/2023 (083)
  - o 05:31:05 TPF update failed for SlewID #0051. "Too large Alpha error. Value: 599, should be 500". RW plots show an increasing error over the last 4 OSLs
  - o 05:34:02 SEQ: AESAM\_00 uplinked & recovery tool started
  - o 05:39:13 OSL #26200051 missed from timeline
  - o 05:45:49 Manual slew 2620\_0500\_M.CSL from PID #0050 to #0052
  - o 05:54:43 OSL #26200052 missed from timeline
  - o 05:57:06 SEQ: AESAM\_00 uplinked & recovery tool started
  - o 06:00:15 Recieved an erroneous TPF update for OSL #0052.
  - o 06:02:33 TPF 2620\_0501\_A.OSL applied on A/S to update slew 26200053.
  - o 06:15:28 Recieved an erroneous TPF update for OSL #0053

*INT\_SC-728 Update slew task not possible and RW plots show an increasing error*
- 27/03/2023 (086) 12:26 Operations successfully moved back to E41
- 28/03/2023 (087) 09:33 OI#2340 Cortex Testing at KIR completed successfully.
- 29/03/2023 (088) 10:08 SPI Annealing Part #40: Passive Cooling & ACS calibration
- 31/03/2023 (090) 14:27 ICLB1 thin client (THC-E41-09) session disappeared *INT-3891*
- 01/04/2023 (091) 15:21 SPI Annealing Part #40: Active Cooling phase 80 K target