

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

Document No :XMM-INT-WOPS-23\_20-21  
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**XMM-INT-WOPS-23\_20-21**

**Issue 1**

**Date: 05 June 2023**

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>▪ 3<sup>rd</sup> Tank Replenishing 22-26 May</li> <li>▪ Full end to end instrument radiation protection and rejoin</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> </ul>	<ul style="list-style-type: none"> <li>▪ Routine science operations</li> <li>▪ Eclipse season finished</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>▪ Manual transponder swaps following RF switch anomaly</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 but see anomaly report below</li> </ul>
S/C Anomalies	<ul style="list-style-type: none"> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT_SC-734 P2176 SSC Fail - SEU</li> <li>▪ INT_SC-591 Summary report for all IREM CSCI S/W resets</li> <li>▪ INT_SC-516 Summary report for all JEMX1/2 DFEE CRC anomalies</li> </ul>
G/S Anomalies	<ul style="list-style-type: none"> <li>▪ None</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT-3902 Download of Server Stacks Causes Commanding Issues</li> <li>▪ INT-3903 IFTS showed 24 items in the push queue. Resolved manually by SWS</li> <li>▪ INT-3904 MISCdynamic server connection problems, starting on 25.05.2023</li> <li>▪ INT-3905 FCP_TCS_1137 Adjust IBIS CDTE Heater 2B Thermal Control lists wrong TCs</li> </ul>
Future activities planned	<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>▪ Automation of ground station operations (EVFM)</li> <li>▪ Disposal optimisation manoeuvre preparation</li> </ul>

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

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

- 16/05/2023 (136) 13:25:56: FCP\_RFS\_0151 Change from TRSPTX A /ANT1 to TRSPTX B /ANT2. AD Service established, D3831 Link Test CMD successful, Note: No carrier lock during automatic sweep. Estrack report that the schedule does not reflect the jobs for the transponder swap. (ie configured for the warm reciever. Correct RX locked after resweep. This error is also reflected on the Spacon Tool (uplink warm --> uplink warm). (AR: XMM-1527)
- 20/05/2023 (140) 07:00:00: Mois sent SAS reset during NSO and Mois MOS automation commanding – failed (actually MOIS did not sent SAS reset due to issues with the new Automation 3.0, → roll back,, → CCR-2240)

### **2.2. INTEGRAL**

15/05/2023 (135)

10:21:54 IREM Crash: CRP\_SYS\_2570 - Payload recovery. AR INT\_SC-591  
10:42:25 S/S OMC re-enabled in Autostack.  
10:59:54 S/S IBIS re-enabled in Autostack.  
11:58:42 S/S RM re-enabled in Autostack

16/05/2023 (136)

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17/05/2023 (137)

00:10:46 IREM Crash: CRP\_SYS\_2570 - Payload recovery. AR INT\_SC-591  
00:25:20 S/S OMC enabled on the A/S  
00:41:20 S/S IBIS enabled on the A/S  
01:44:15 S/S RM enabled on the A/S  
18:05:12 KIR: TM Drop , reason unknown , ED LEDATA02 failed. XREF: ED:  
LEDATA02 Uplinked with parameters from APF

18/05/2023 (138)

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19/05/2023 (139)

-

20/05/2023 (140)

06:38:05 L5022 Jemx-2 exited eclipse in MEM: I\_CRP\_JEM2\_5011, AR INT\_SC-615

21/05/2023 (141)

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22/05/2023 (142)

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23/05/2023 (143)

10:32:47 Manual stack hanging after pressing "Download" -->. AR INT-3902

24/05/2023 (144)

19:21:21 TPF update failed for Slew #264300049 (FDS: Failed to determine attitude)

19:29:27 FDS: TPF 2643\_0500\_A.OSL applied on A/S to update slew 264300049

25/05/2023 (145)

10:44:21 ISGRI-CTX tables not available on the B-chain. IFTS1 issue. AR INT-3903

22:55:00 SYS: Manual stack, auto stack, OOL Display and TM Desktops died on icla1 and icla2, TM links on inisa in drop. MISCdynamic server issue.. AR INT-3904

26/05/2023 (146)

02:37:26 IREM Crash: CRP\_SYS\_2570 - IREM SEU Recovery

02:47:15 S/S OMC enabled on the A/S

03:04:40 S/S IBIS enabled on the A/S

03:56:45 S/S RM enabled on the A/S

10:35:52 Stop and Re-start IMCA-NEW as per instructions from On Call SOE/SWS

ICLA1 Started and configured

12:48:51 ISOC mission planner calls and informs a Fast TOO has been approved.

12:52:46 IMCA\_NEW restart complete

27/05/2023 (147)

03:39:26 IREM Crash: CRP\_SYS\_2570 - IREM SEU Recovery

03:53:15 S/S OMC enabled on the A/S

04:13:30 S/S IBIS enabled on the A/S

05:47:13 S/S IREM enabled on the A/S

05:55:19 OI 2363: IBIS test "Spectral timing integration time and no S3.1 transmission"

28/05/2023 (149)

08:59:17 P2176 Co error (LCL SEU) Checked X\_REF: FCP\_TCS\_1137 Adjust IBIS CDTE Heater 2B Thermal Control.

29/05/2023 (149)

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30/05/2023 (150)

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