

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

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**XMM-INT-WOPS-23\_40-41**

**Issue 1**

**Date: 19 October 2023**

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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</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-591 Summary report for all IREM CSCI S/W resets: last event #293</li> <li>▪ INT_SC-615 Summary report for all JEMX1/2 DFEE CRC anomalies: last event 2023-10-10</li> </ul>
<b>G/S Anomalies</b>	<ul style="list-style-type: none"> <li>▪ XMM-1546: 2023-10-10 12:00 X_GS_HANDOVER Issues</li> </ul>	<ul style="list-style-type: none"> <li>▪ INT-3922 Failed Transponder Swap at Kiruna</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> </ul>

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

note: all times are Zulu (in brackets DOY)

### **2.1. XMM**

- 09/10/2023 (282) 06:00:22: Event Logger: Continuous PDSserTM, xmcsa, Error, Store of packet failed, alarms. Appears to be linked to segmentation PDSclean job that started at 06.00. All tasks on xmcsa green in MMI. Cross ref: PDSserTM ERROR SOFTWARE No segment available for pkt Spid: <nnnn> Time:<yyyy-mm-ddThh:mm:ss.nnnnnn> Report to SW support next working day. (actual error message is different to cross ref error message in XMM\_SPA\_0012)
- 10/10/2023 (283) 15:53:48: G/S automated handover failed -> performing handover manually. Appears to have failed due to autocomamander send a command 1 sec before a link test command (Check on TC counter)
- 12/10/2023 (285) 22:46:36: Command H5145 failed on T/L Couldn't find a procedure covering this case, calling the on-call (TF), Checking together with on-call, if any procedure can be used for this case, on-call recommends to call the SOC on-call, SOC on-call finds out, that OM has been put to Full Safe by onboard time tagged command, which has been failed to be deleted by MOIS by unknown reason, which caused the fail of the commands in the T/L, There is no entry in the log of the failure of MOIS deleting the time tagged command onboard and no alarm sound has been raised. We agreed to left the instr. in Full Safe and OM disabled in the T/L. On-call informed to recover OM after ACTIVE\_OPEN in the next revolution (286.07:24z)
- 16/10/2023 (289) 06:01:32: xmcsa: PDSerTM Multiple Errors Writing TM Record, or Store of packet failed, alarms every 12secs for 60mins. Also PDSclean deleted Segment messages (continuing)

### **2.2. INTEGRAL**

01/10/2023 (274)

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02/10/2023 (275)

07:30:00 SPI Camera DET12 Troubleshooting 1

22:05:16 Eclipse START

22:16:15 Eclipse END

22:40:31 OOL L5583 "CPU MODE" = 8MHZ. I\_CRP\_JEM2\_5011 (AR INT\_SC-615)

03/10/2023 (276)

00:11:20 OI #2416: SPI disabled from the T/L Stack EEXIT04\_ECL\_DET12\_1\_5kV.icla2 initiated comment JH: SPI was disabled too early.

01:55:14 OI #2416: Re-sending stack EEXIT04\_ECL\_DET12\_1\_5kV

04/10/2023 (277)

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02:32:06 IREM Crash: Begin with procedure CRP\_SYS\_2570 (AR INT\_SC-591)  
02:51:15 FCP\_OMC\_0041 finished, OMC re-enabled in T/L  
03:08:22 IBIS re-enabled in T/L  
04:10:08 CRP\_SYS\_2570 finished, RM re-enabled in A/S  
20:56:35 TPF update failed for Slew #26930047. TPF 2693\_0500\_A.OSL applied on A/S

05/10/2023 (278)

13:52:55 Eclipse START  
14:11:16 Eclipse END  
15:13:04 OOL: L5583 CPU MODE = 8 MHZ WAIT. 15:22:03, I\_CRP\_JEM2\_5011.  
18:09:59 XREF\_SPA\_0002 ( ECLIPSE Season) Recovered missed JEM-X2 EDs  
19:10:38 TRSP Performed as per OI#2147 After completion test TC failed (AR INT-3922)  
19:32:18 OSL #26940005 missed from timeline  
19:45:18 Requested ESTRACK to re-configure G/S from scratch (KIR Cortex1, TRSP2)  
19:58:17 AD Service initiated, - Test Cmd OK TRSP  
20:20:33 Manual slew 2694\_0500\_M.0500 from PID #26940004 to #26940006  
20:42:59 FDS: TPF 2694\_0501\_A.OSLapplied on A/S to update slew 26940007

06/10/2023 (279)

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07/10/2023 (280)

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08/10/2023 (281)

05:42:15 Eclipse START  
06:05:57 Eclipse END  
21:01:00 TPF update failed for Slew #26950022. Recovery tool failed to determine attitude. FD support gave go ahead to let next slew execute without update.

09/10/2023 (282)

04:07:42 TPF update failed for SlewID #26950034. FD let the slew go without update.

10/10/2023 (283)

21:32:22 Eclipse START  
22:00:38 Eclipse END  
22:06:55 OOL L5583 "CPU MODE" = 8MHZ. I\_CRP\_JEM2\_5011 (AR INT\_SC-615)

11/10/2023 (284)

13:58:57 TPF update failed for SlewID #26960022. FD let the slew go without update.  
21:43:47 TPF update failed for SlewID #26960034. FD let the slew go without update.

12/10/2023 (285)

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13/10/2023 (286)

13:22:33 Eclipse START

13:54:45 Eclipse END

14:48:01 OOL: L5583 CPU MODE = 8 MHZ, I\_CRP\_JEM2\_5011 (AR INT\_SC-615)

14/10/2023 (287)

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15/10/2023 (288)

02:30:33 TPF update failed for SlewID #26970043. FD let the slew go without update.

10:36:00 TPF update failed for SlewID #26970055 FD let the slew go without update.

16/10/2023 (289)

05:12:34 Eclipse START

05:48:00 Eclipse END

06:33:08 Payload PDU-B Watchdog warning triggered, CRP\_EPS\_2701 applies