

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

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Issue 1

Date: 07 October 2023

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ DABYS D/B prototype ▪ Tolhuin station consolidation ▪ Lela final migration to MCS ▪ Manual spacecraft recovery without propellant procedures ▪ CDMU recovery automation 	<ul style="list-style-type: none"> ▪ Routine science operations ▪ Eclipse Season
Status and performance of S/C	<ul style="list-style-type: none"> ▪ Nominal for platform and all instruments 	<ul style="list-style-type: none"> ▪ Manual transponder swaps following RF switch anomaly
Status and performance of Ground segment	<ul style="list-style-type: none"> ▪ Nominal 	<ul style="list-style-type: none"> ▪ Nominal
S/C Anomalies	<ul style="list-style-type: none"> ▪ none 	<ul style="list-style-type: none"> ▪ INT_SC-741 SPI: degraded GeD#12 performance after SPI annealing #41
G/S Anomalies	<ul style="list-style-type: none"> ▪ XMM-1544 X_GS_HANDOVER fails for KRU-TOL Handover ▪ XMM-1545 Failed slews after a TOO replan 	<ul style="list-style-type: none"> ▪ INT-3920 Incorrect INTERLOCK Message on MCS ▪ INT-3921 No FD automatic job for rev 2688
Future activities planned	<ul style="list-style-type: none"> ▪ Phase in of new service contract for SOEs (October-December) ▪ NSM via MOIS ▪ NSM on board ▪ Webserver and NRT Analysis/Monitoring migration 	<ul style="list-style-type: none"> ▪ Automation of Transponder swap operations

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 19/09/2023 (262)
 - o 17:10:20 OI#4605 TOH1 handover test performed; Manual handover; problems with links, then data quality issues at Tolhuin; EVFM worked as expected (see **AR XMM-1544** X_GS_HANDOVER fails for KRU-TOL Handover)
 - 22/09/2023 (265)
 - o 07:36:09 TCO server stopped and restarted several times in the reporting period. Resolved via hot fix in 12.7.2.
 - 25/09/2023 (268)
 - o 04:46:47 MOIS stopped running. G/S procedure still running though. Manually inserted TC link AD Service established, D3831 Link Test CMD successful
 - 30/09/2023 (273)
 - o 08:42:51Z Failure of several slew updates after revolution being re-planned several times due to TOO; reason: procedural weakness
 - 2023-09-30T09:01:39Z SAS reset missed due ECH to AOCS disabled
 - 2023-09-30T10:08:06Z NSO missed
 - 2023-09-30T10:18:03Z order of recovery
 - (1) Antenna swap
 - (2) PN re-join
 - (3) NSO
- (see **AR XMM-1545** Failed slews after a TOO replan)

2.2. INTEGRAL

- 19/09/2023 (262)
 - o 07:31:01 FDS alarm: updateslew failed to determine a good altitude, no IPF is generated for SLEWID 26870069
- 20/09/2023 (263)
 - o 20:57:25 OI#2403 Stop SPI annealing#41 and start of passive cooling & ACS Calibration.
- 22/09/2023 (265)
 - o 03:45:54 Error when trying to load MOIS plan for upcoming Rev. 2689 due to JEM-X2 not observing.

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- 23/09/2023 (266)
 - o 13:31:00 SPI Annealing #41: Start of active cooling

- 26/09/2023 (269)
 - o 09:58:03 OI#2405: IMU1+3 calibration prior to the eclipse season

- 28/09/2023 (271)
 - o 08:55:00 SPI Annealing#41: SPI camera switch-on up to 2kV. PI to monitor detector performance (see **AR INT_SC-741** SPI GeD#12 degraded performance after SPI annealing #41)

- 29/09/2023 (272)
 - o 12:58:00 SPI annealing #41: on request of the PI: set HV of all detectors to 2.5kV besides DET#12, which is set to 1.5 (degraded performance)