

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

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Issue 1

Date: 21 September 2023

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ OA OPS tools servers S/W and H/W migration finished ▪ 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
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"> ▪ First automated load of ISGRI CTX tables
S/C Anomalies	<ul style="list-style-type: none"> ▪ none 	<ul style="list-style-type: none"> ▪
G/S Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪
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

- 08/09/2023 (251) 18:08:49: G/S handover from AGO to KRU. MOIS procedure failed with errors (could not establish TM binds). Prime chain TM links showed UNBOUND. Successfully bound TM links to chain 2. Unable to bind to either chain for TC. Informed ESTRACK. After some minutes, was able to bind TC on chain 1 (sent good test commands). We now have TM on chain 2. TC on chain 1. Estrack report fixing chain 1 would interrupt TC. Requested they continue to investigate fault but NOT do anything without consulting us first. MOIS global variables are correct. (GS issues)

2.2. INTEGRAL

03/09/2023 (246)

22:11:58 TM links on both chains to KIR aborted for unknown reason, XMM also affected (AGO).

Links re-connected at 22:16. OSL #26820007 missed from timeline

22:28:42 Manual slew 2682_0500_M.OSL from PID #26820006 to #26820007

22:46:43 FDS: TPF 2682_0501_A.OSL applied on A/S to update slew 26820008

06/09/2023 (249)

09:16:48 OI 2392 ISGRI CTX Uplink uplink via MOIS first time! (manual trigger)

12/09/2023 (255)

12:12:55 JEM-X2 restart, OI #2398 CRP_JEM2_5020: DPE / DFEE POWER CYCLE

21:14:45 All TM links (both chains) to DROP, then UNBOUND. Estrack report a ~10s hit to all comms to KIR. Rebound links OK. No T/L commanding impact.

13/09/2023 (256)

07:50:00 Continue JEM-X2 recovery as per OI #2398

23:36:00 Start of SPI annealing #41 (Ops Instr #2400)

14/09/2023 (257)

00:06:27 @icla3: 00:06:27 disconnected from PDS TC while changing in TC history to full mode & command history terminated 00:06:38 exception raised during request to CMD Multiplexer for "disconnectCmdSource" disrupted SPI annealing stroke decrease to 0

00:38:46 All NIS links went drop, then unbound. Estrack confirmed prime & backup MPLS comms links to KIR went down.

00:40:39 Reconnected all NIS links, no on-board lock. Estrack re-started U/L. No impact.