

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

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Issue 1

Date: 01 March 2024

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ PDR on NSM patch 15th February ▪ Lela tests on S7 ▪ Manual spacecraft recovery without propellant procedures ▪ CDMU recovery automation ▪ Automation of Replenishment ▪ F/D automation ▪ Battery 1 reconditioning 	<ul style="list-style-type: none"> ▪ Routine science operations ▪ Battery 1 Reconditioning completed, battery 2 started. ▪ High radiation conditions impacted science
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 ▪ High radiation at times
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"> ▪ None
G/S Anomalies	<ul style="list-style-type: none"> ▪ XMM-1561: Mismatch between Ground station schedule and Mission Planning files ▪ 	<ul style="list-style-type: none"> ▪ INT-3935 High radiation affecting Integral science operations (OMC, JEM-X, IBIS) - two solar flares
Future activities planned	<ul style="list-style-type: none"> ▪ DABYS kick off 06.03. ▪ NSM via MOIS ▪ Cebreros migration ▪ Webserver and NRT Analysis/Monitoring migration 	<ul style="list-style-type: none"> ▪ Automation of Transponder swap operations ▪ Automation of ground station operations (EVFM)

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 15/02/2024 (046) 18:45:56: Auto GS HO at AOS KRU TM did not bind

2.2. INTEGRAL

12/02/2024 (043)

07:00:22 JEMX1 / 2 high radiation safe mode triggered

07:28:38 SPI high radiation, safe not triggered

07:55:38 IBIS high radiation, safe not triggered

08:33:50 OMC high radiation safe mode triggered.

12:33:18 TRSP swap 1 to 2. Test commands failed. Uplink restart to reset bitlock.

15/02/2024 (046)

03:18:08 Radiation back in limits. JEMX1 recovery. CRP_JEMX1/2_5060 JEMX1/2.

04:17:04 FCP_OMC_0041 OMC EXIT FROM SAFE MODE

16:08:33 Reconditioning relays switch off for battery 1 reconditioning

16:43:29 Start of the recharge of battery 1

16/02/2024 (047)

15:46:24 End of battery 1 recharge

15:58:52 Start of the battery 1 post-reconditioning

08:19:24 Start of the Battery 2 reconditioning discharge

16:59:47 KIR1. All links (TM & TC) to UNBOUND state. Estrack, reported a glitch on all comms links to KIR. Rebound all links and recycled uplink.