

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

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Issue/Rev. No : 1
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Issue 1

Date: 13 March 2024

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OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ Lela tests on S7 ▪ Manual spacecraft recovery without propellant procedures ▪ CDMU recovery automation ▪ Automation of Replenishment ▪ F/D automation ▪ DABYS kick off 06.03. 	<ul style="list-style-type: none"> ▪ Routine science operations ▪ Battery 2 Reconditioning completed. ▪
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"> ▪ None 	<ul style="list-style-type: none"> ▪ INT-3936 ISGRI CTX tables uploaded by MOIS too late due to late AOS ▪ INT-3737 Consolidated Telemetry anomaly in rev. 2722 & other problems with the consolidated telemetry DVD since last summer ▪ INT-3738 KIR1 uplink issue with both Cortex units
Future activities planned	<ul style="list-style-type: none"> ▪ 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

- 11/03/2024 (071) 05:47:56: ESTRACK informed that TOH stn is unable to support XMM due to an outage. Requested to check to availability of AGO

2.2. INTEGRAL

26/02/2024 (057) 09:40:38 Sequence GEISCL03 was uplinked just before SANTENG window open. Sequence continued uplinking during uplink of CTX tables. SOE TF notified. **See INT-3936**

ISGRI CTX tables uploaded by MOIS too late due to late AOS

11:08:47 FCP_IBIS1_0801 - IBIS TRANSITION TO SAFE MODE (req. by onCall-SOE T. F.)
S/S IBIS disabled on the A/S
11:12:15 FCP_IBIS1_0401 - ISGRI CTX Upload via TPF
11:37:31 GEISCL03 uplinked
12:06:33 GEBEXT01 uplinked
12:10:50 GESTAN02 IBIS to Science

04/03/2024 (064) 13:21:16 P3219 BAT2 C29-32 VOLT, Low Low, 0.48V (**Batt-2 Reconditioning OI-2464**)

14:32:00 OOL P3021 BAT2 Reco K14, SCC Fail P3019 BAT2 Reco K12, SCC Fail D5542
Status Entry 42, SCC Fail P3203 Bat2 Volt R, Low, 6.11V OEM's 129,177 Eve MO
Parameter out of range *3 129,178 Eve MO Par 3 Time out of range
15:17:14 Start of Battery 2 recharge

05/03/2024 (065) 09:15:18 GFTS1/2 Re-started on request from SWS

14:26:00 OEM EvID 240, APID 129, MS EE ECD REACHED --> expected, end of charche, OI 2468
14:36:44 Start of post-reconditioning commanding for Battery 2
15:14:23 End of Battery 2 post-reconditioning commanding

06/03/2024 (066) 13:49:46 Groundstation handover VIL to KIR fails. every time a cmd is sent bitlock drops out (there was also a small problem that Kir1 carrier was brought up before vil1 was taken down, however this was quickly corrected and a fresh resweep performed) **INT-3938 KIR1 uplink issue with both Cortex units**

14:20:12 resweep several times
14:24:12 still probs on KIR1 request VIL1 Try cortex 2 - same problem
14:31:04 KIR station see some problems on their side. cortex 1 was restarted at KIR1 which fixed the problem

10/03/2024 (070) 06:40:44 NIS links of Cortex1 (NIS-A, icla1) went do UNBOUND, no TM, recycle of TM links brought TM back