

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

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Issue 1

Date: 28 July 2023

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ MUST recovery ▪ Eclipse OPS 03-17 July ▪ OA OPS tools servers S/W and H/W migration ▪ DABYS D/B prototype ▪ Tolhuin station consolidation ▪ G/S ops automation (part2/ NIS) ▪ 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"> ▪ Occasional data buffering on the MCS, otherwise 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-1536: EXIF Event provision I/F crash ▪ XMM-1537: X_CRP_SYS_5201 triggered twice on 18.07.2023(DOY 199) to recover MOS1 after radiation ▪ XMM-1538: Comms Outage at Santiago ▪ XMM-1539: Discrepancy between X_CRP_XXX_1500 and X_CRP_SYS_520x 	<ul style="list-style-type: none"> ▪ INT-3909 GESTAN02 TC Parameter Given Illegal Value ▪ INT-3910 MOIS Automation failed to send Daily AOCs HK and OBDH Monitor table reset ▪ INT-3911 Strong M5.7 solar flare affecting Integral science operations (OMC, JEM-X, IBIS)
Future activities planned	<ul style="list-style-type: none"> ▪ Face in of new service contract for SOEs ▪ NSM via MOIS ▪ NSM on board ▪ Webserver and NRT Analysis/Monitoring migration 	<ul style="list-style-type: none"> ▪ Automation of Transponder swap operations ▪ Automation of ground station operations (EVFM) ▪ Disposal optimisation manoeuvre preparation

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 11/07/2023 (192) 02:00:28: MOIS failed to delete F0001. On advice of SOE Weissmann no further actions our side are needed (wrong wait statement, finetuning needed)
- 15/07/2023 (196) 01:39:00: MOIS scheduler for rev 4321 stopped running after pressing 'play' icon in menu bar scheduler started up again but deletion of TTCs for MOS1 and RGSes was missed
- 18/07/2023 (199) 14:50:11: 13.06 AEV filtered Event Logger shows irregular client termination however Mois seems to be working correctly (SAS resets working). mcool1 is set to 9 in TM Spacon (Firewall issue, identified and solution implemented)
- 19/07/2023 (200) 05:17:13: Previous shift reported MCS audible alarms not working on prime client (XCLBS1). Checked client & display settings and tested. No sound output. (intermittent problems VNC restart needed)

2.2. INTEGRAL

10/07/2023 (191)

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11/07/2023 (192)

01:41:57 FDS: TPF update failed for SlewID #26610033
01:54:22 Manual slew 2661_0500_M.OSL from PID #26610032 to #26610033
02:09:24 CSL #26610034 missed from timeline
02:30:01 On advice of FD, a second slew to 26610033 was executed as corrective
slew. 2661_0501_M.CSL from PID #26610033 to #26610033
02:46:22 Manual slew 2661_0502_M.CSL from PID #26610033 to #26610034
03:01:48 FDS: TPF2 661_0503_A.OSL applied on A/S to update slew 26610035

12/07/2023 (193)

06:54:44 Command G0836 (Seq. GESTAN02) encoding failed. Value 3.9ms time
resolution is invalid. AR INT-3909
12:20:00 OI_2377 IBIS IASW timing resolution updated to 3.90625ms, S3.1 pkt
Disabled.

13/07/2023 (194)

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14/07/2023 (195)

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15/07/2023 (196)

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16/07/2023 (197)

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00:33:28 TPF update failed for SlewID 26630035. "Failed to determine good attitude."
00:41:20 FDS: TPF 2663_0500_A.OSL applied on A/S to update slew 26630035

17/07/2023 (198)

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18/07/2023 (199)

01:20:33 Solar Flare (AR INT-3911): IBIS to Standby
01:39:41 Solar flare: OMC to Safe!
02:00:07 Solar Flare: FCP_JEM1/2_0040 JEMX1 TRANSITION TO SAFE
17:09:56 Solar flare: CRP_IBIS1_5120 IBIS back to science

19/07/2023 (200)

07:03:11 Solar Flare: OMC back to science: CRP_OMC_5120 and FCP_OMC_0041
15:15:19 Slew update failed 2x, poor guide star. Next slew goes without update
16:51:13 Slew update failure. TPF 2664_0500_A.OSL applied to slew 26640062
17:14:07 Solar Flare: JEM-X1 / 2 back to science

20/07/2023 (201)

00:43:16 MOIS procedure fails following firewall reconfiguration, AR INT-3910

21/07/2023 (202)

10:35:45 FDS: TPF update failed for SlewID #26650037.
10:39:17 FDS: TPF 2665_0500_A.OSL applied on A/S to update slew 26650037

22/07/2023 (203)

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23/07/2023 (204)

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24/07/2023 (205)

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