

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

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Issue/Rev. No : 1
Date 22/05/2023
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Issue 1

Date: 22 May 2023

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ Battery 1 reconditioning finished in preparation for Eclipse ▪ Full end to end instrument radiation protection and rejoin ▪ MCS 12.7.0 released + D/B 7.17 ▪ OA OPS tools servers S/W and H/W migration ▪ MCS migration ▪ DABYS D/B prototype ▪ Tolhuin station consolidation ▪ G/S ops automation (part2/ NIS) ▪ Lela final migration to MCS 	<ul style="list-style-type: none"> ▪ Routine science operations ▪ Eclipse season ▪ EVFM / Cortex testing
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 but see anomaly report below ▪
S/C Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ INT_SC-730 OMC Affected by High Radiation ▪ INT_SC-731 JEM-X Affected by High Radiation
G/S Anomalies	<ul style="list-style-type: none"> ▪ XMM-1525: DSS36 Unable to Provide GOOD TM ▪ XMM-1526: Santiago Ranging Not Usable ▪ XMM-1527: EVFM files generated with wrong transponder swaps ▪ XMM-1528: Kourou Comms Lines very Slow ▪ 	<ul style="list-style-type: none"> ▪ INT-3901 Telemetry drops from KIRUNA cause loss of two slews ▪ INT-3900 Telemetry drops from VIL1 cause loss of slew ▪ INT-3899 P3114 "SA Wing 1 Current 1 OOL for short time ▪ INT-3898 MCCM/GMMS: certain items not green ▪ INT-3897 Snow Affects Kiruna Pass ▪ INT-3895 ISGRI MCE WD SCC OOL (G2004 family)
Future activities planned	<ul style="list-style-type: none"> ▪ Manual spacecraft recovery without propellant procedures ▪ CDMU recovery automation ▪ Webserver migration ▪ ODB 7.17 weeks 1-12 May ▪ 3rd Tank Replenishing 22-26 May 	<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

- none

2.2. INTEGRAL

30/04/2023 (120)

09:01:58 Lost TM over KIR, IMCB, NIS-B - snow on antenna – AR INT-3897
09:18:11 OSL #26340054 missed from timeline
10:42:00 AOS VIL2
11:18:52 Manual slew 2634_0501_M.OSL to PID 26340054 (dog leg part 1)
12:20:35 Manual slew 2634_0502_M.OSL from PID #26340054 to #26340058
12:47:22 Manual slew 2634_0503_M.CSL from PID #26340054 to #26340058
13:00:56 FDS: TPF 2634_0504_A.OSL applied on A/S to update slew 26340059
13:15:18 Groundstation handover VIL2 to KIR

01/05/2023 (121)

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02/05/2023 (122)

19:41:48 VIL2 TM drops & TC fail during slew sequence uplink – AR INT-3900
19:58:46 Manual slew 2635_0500_M.OSL from PID #26350024 to #26350025
20:10:25 FDS: TPF 2635_0501_A.OSL applied on A/S to update slew 26350026

03/05/2023 (123)

07:31:34 OCR #2356: Kiruna Cortex testing

04/05/2023 (124)

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05/05/2023 (125)

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06/05/2023 (126)

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07/05/2023 (127)

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08/05/2023 (128)

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09/05/2023 (129)

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15:49:17 ISGRI MCE WD OOL after uplink of GECLEX02. AR INT-3895
18:30:00 ISGRI MCE deactivation ad reactivation as per X-reference
19:10:50 OSL 26380005 missed due to TM Drop, TM from both IFMS1 and Cortex1
intermittent from 19.07.34 to 19.22.50. ESTRACK report signal fluctuation – AR INT-3901.
19:32:47 Manual slew 2638_0500_M.OSL from PID #263800004 to #263800006
20:00:50 FDS: TPF 2638_0501_A.OSL applied on A/S to update slew 263800007
21:54:00 All EDs missed in the IBIS recovery were uplinked, IBIS in SCIEN. STAND
23:13:18 OMC went to SAFE due to a radiation spike. AR INT_SC-730

10/05/2023 (130)

05:58:32 OI 2259 INTA EVFM Testing DOY130, INTA stations
12:38:29 JEMX 1 & 2 Radiation monitor, High, JEMX 1&2 to safe. AR INT_SC-731

11/05/2023 (131)

01:03:12 FDS: TPF update failed for SlewID #2638000046
01:12:21 FDS: TPF 2638_0502_A.OSL applied on A/S to update slew 2638000046
12:26:00 Starting recovery of the instruments from high radiation
13:48:42 S/S 9 (JEM-X1), 10 (JEM-X2) & 11 (OMC) in T/L RE-ENABLED CCCF
enabled
16:31:39 IREM Crash: - AR INT_SC-591
16:46:05 OMC re-enabled in T/L
17:03:52 IBIS re-enabled in T/L
18:06:57 RM re-enabled in T/L

12/05/2023 (132)

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13/05/2023 (133)

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14/05/2023 (134)

06:59:38 TM drop from GS: KIR. IMC/NIS A/B. Duration: 10s.. – RFI, source unknown

15/05/2023 (135)

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