

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

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Issue 1

Date: 04 December 2023

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ Phase in of new service contract for SOEs (October-December) ▪ Tolhuin station in operational test ▪ Lela final migration to MCS ▪ Manual spacecraft recovery without propellant procedures ▪ CDMU recovery automation ▪ NSM on board ▪ Low speed wheel test successfully performed 	<ul style="list-style-type: none"> ▪ Routine science operations ▪ Eclipse Season
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, apart from some issues with AGO that are under investigation 	<ul style="list-style-type: none"> ▪ Nominal
S/C Anomalies	<ul style="list-style-type: none"> ▪ XMM_SC-155: XMM offpointing by a few arcmin (guidestar or blemish pixel problem) 	<ul style="list-style-type: none"> ▪ None
G/S Anomalies	<ul style="list-style-type: none"> ▪ XMM-1552: Database IMPT warnings for OL code AD189 	<ul style="list-style-type: none"> ▪ INT-3927 MCS message: OSL NOT SAFE with current wheel speeds ▪ INT-3828 ISGRI CTX table manual upload - Failed MOIS upload
Future activities planned	<ul style="list-style-type: none"> ▪ DABYS D/B implementation kick off Feb. 7 ▪ NSM via MOIS ▪ 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

- 14/11/2023 (318) 13:32:02: G/S handover from KRU to TOH. MOIS Procedure failed (did not apply TC link)
- 16/11/2023 (320) 18:06:1: FD were informed of a slight off pointing for this observation. After investigation it was determined together with the SOC that since the delta is so small no further actions are required. (see: XMM_SC-155)
- 16/11/2023 (320) 23:21:53: 1st command from new CSL seq. also failed. SVM disabled in M/S & ECH (already disabled in A/S). Contacted on-call SOE.
- 22/11/2023 (326) 12:56:21: X_GS_HANDOVER failed with error. No TM from TOH.
- 24/11/2023 (328) 01:14:02: AE2410 RWO interrupted due to loss of TM. Last successfully executed command A3829" START AMD" (KRU)

2.2. INTEGRAL

12/11/2023 (316)

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13/11/2023 (317)

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14/11/2023 (318)

11:41:09 Eclipse START
12:08:41 Eclipse END
13:22:41 IREM Crash; CRP_SYS_2570 (IREM SEU recovery), AR INT_SC-591
14:16:17 ISGRI CTX Tables uplink MOIS initiated version failed AR INT-3928
16:46:54 IREM recovery completed
17:13:13 OMC recovery after IREM crash. Executed FCP_OMC_0041
17:48:00 IBIS recovery after IREM crash. Resent most recent GESTAN02 sequence.

15/11/2023 (319)

11:24:59 OSL #27090034 missed due to loss of TC from VIL1 (possible RFI)
11:36:05 Manual slew 2709_0500_M.CSL from PID #27090033 to #27090034

16/11/2023 (320)

11:29:25 Manual slew 2709_0502_M.OSL to join new timeline attitude - RPOS
12:15:26 FDS: TPF 2709_0503_A.OSL applied on A/S to update slew 27090058

17/11/2023 (321)

03:38:57 Eclipse START
03:50:50 Eclipse END – last eclipse of current season

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04:29:10 JEM-X2 CRC anomaly post eclipse; I_CRP_JEM2_5011, AR INT_SC-615

18/11/2023 (322)

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19/11/2023 (323)

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20/11/2023 (324)

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21/11/2023 (325)

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22/11/2023 (326)

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23/11/2023 (327)

18:59:14 FDS: TPF update failed for SlewID #27120055: "Not enough stars".

18:59:39 Manual slew update fails: "Not enough stars". FD informed and assesses that the OSL can execute without update. However at this point it is noticed that the SCOS message for the update failure states "OSL NOT SAFE with current wheel speeds". OSL not allowed to execute. After speaking to FD it is suspected the message is false. AR INT-3927

19:47:22 Manual slew 2712_0500_M.OSL from PID #27120054 to #27120056

20:11:17 Manual slew 2712_0501_M..CSL for 2712000056

24/11/2023 (328)

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25/11/2023 (329)

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26/11/2023 (330)

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27/11/2023 (331)

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