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XMM-Newton and INTEGRAL weekly Mission Operations Report

XMM-INT-WOPS-23_22-23

Issue 1

Date: 19 June 2023

Marcus Kirsch OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	 Nominal Operations Full end to end instrument radiation protection and rejoin 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 	 Routine science operations Eclipse season finished
Status and performance of S/C	Nominal for platform and all instruments	 Manual transponder swaps following RF switch anomaly
Status and performance of Ground segment	■ Nominal	 Nominal but see anomaly report below
S/C Anomalies	■ None	 INT_SC-735 IBIS PICSIT PDM08 LATCH UP INT_SC-732 SPI DPE1 CPU reset
G/S Anomalies	XMM-1532 MUST Database corrupted after Halley Data Center Problem	 INT-3906 Transponder Swap Performed Late INT-3907 Wrong Command Sent for TRSP Swap INT-3908 Kiruna Stops Track
Future activities planned	 Manual spacecraft recovery without propellant procedures CDMU recovery automation Webserver migration 	 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

- 08/06/2023 (159) 12:52:07: Complete loss of TM from AGO
 - o 13:02:07 Requested a different GS. Configuring YTH now
 - 13:02:27 Called FD on-call due to missed/interuppted OSL
 - o 13:05:41 SOE on-call informed of situation
 - o 13:08:24 YTH is configured. I have requested they move carrier from AGO to YTH.
 - o 13:22:34 FD are generating the slew recovery now
 - 14:02:07 Begin PN recovery with X_CRP_EPN_1500
- 08/06/2023 (159) 14:06:42: Frames out-of-sync from YTH. Spoke with our RF SOE and we decided to return to AGO. This has been communicated to SSC via ESTRACK
 - o 14:06:43 X CRP EPN 1500 failed at step #74 due to unstable TM/TC from YTH
 - o 15:09:06 X_CRP_EPN_1500 is complete. S/S has been re-enabled
- 10/06/2023 (161) 07:32:19: MCCM: xmca, xlta, xcla1, xcla2, xcla3 red, discrepancy found GMMS: xnisA yellow, Mois grey, FD grey, xgmma blue, gmms opsh1 blue root time 9.6.23 18:24, xgmmb yellow
 - 07:37:34 Speak to Estrack who said there was an airconditioning problem in Halley Server room several servers affected yesterday 9-6-23. They do not have a list of servers that were hit. This might be why xgmma is blue. MOIS is working ok. Cockpit 250011
 - See AR XMM-1532 MUST Database corrupted after Halley Data Center Problem

2.2. INTEGRAL

30/05/2023 (150)

31/05/2023 (151)

06:17:17 TPF update failed for SlewID #2640008. FD go ahead for slew without update

08:08:02 OCR#2364 RCS: OPEN LV-A

08:27:00 OCR#2365 RCS: Thermal test T1033 TSW STA PROPB is now CLOSE.

14:53:04 OCR#2366: AOCS reconfig after the last eclipse of the season

01/06/2023 (152)

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02/06/2023 (153)

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11/06/2023 (162)

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03/06/2023 (154) 04/06/2023 (155) 03:22:03 Complete loss of TM, AR INT-3906 03:41:53 Transponder swop blind. Slews #26470049, 26470050 and 26470051 missed from timeline. 04:15:23 05:04:41 Manual slew 2647 0501 M.OSL from PID #264700048 to #264700050 05:33:58 Manual slew 2647 0502 M.OSL from PID #264700050 to #264700052 Manual slew 2647 0503 M.OSL from PID #264700052 to #264700053 06:18:55 FDS: TPF 2647 0504 A.0504 applied on A/S to update slew 264700054 06:48:17 16:49:17 SPI DPE crash, AR INT SC-732, CRP SPI1 3090 (SPI DPE1 RESET). 05/06/2023 (156) 09:38:47 SPI in PHOTON -> end of SPI DPE reset recovery OI#2368 Characterisation of Tank Heaters 10:35:03 06/06/2023 (157) TPF update failed for Slew #26480047 FDS: Failed to determine attitude 15:58:44 FDS: TPF 2648 0500 A.OSL applied on A/S to update slew 264800047 16:06:29 17:42:39 OSL #26480050 failed, TC A3086 "SUN STEERING INI" Failed release **PTV** 17:55:00 Manual slew 2648 0501 M.OSL from PID #264800049 to #264800050 18:10:36 FDS: TPF 2648 0502 A.OSL applied on A/S to update slew 264800051 07/06/2023 (158) 02:44:32 OOL AD5230H: "OTF Toggle Alert". PID 26480066. OEMs: "YAW ERROR". 02:47:00 FDS: TPF update failed for SlewID #26480067. Guidestar lost after slew. 02:47:09 FDS: TPF 2648 0503 A.OSL applied on A/S to update slew 26480067. 08/06/2023 (159) 01:45:01 TRSP Swaps. TX2 --> TX1. Test TCs not reaching SC. CORTEX2 TC binds but in "configured" state. Estrack re-run TRSP swap job. Test Cmd OK. No impact. 09/06/2023 (160) 10/06/2023 (161)

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16:00:58	IBIS PICSIT PDM08 LATCH UP. IBIS to STDBY, reset PDM08.
FCP_IBIS1_03	13 / 0329. AR INT_SC-735
17:27:11	Problems acquiring TM on either chain.
17:44:56	Blind Transponder swop executed.
17:51:25	Slew #26500029 failed
18:03:22	Manual slew 2560_0500_M.CSL. Some commands failed during uplink.
18:39:28	Manual slew 2560_0501_M.OSL from PID #26500029 to #26500031
19:05:03	FDS: TPF 2650_0502_A.OSL applied on A/S to update slew 26500032

12/06/2023 (163)

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