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XMM-Newton and INTEGRAL weekly Mission Operations Report

XMM-INT-WOPS-23 26-27

Issue 1

Date: 11 July 2023

Marcus Kirsch OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	 Nominal Operations MUST recovery Eclipse OPS 03-17 July Full end to end instrument radiation protection and rejoin finished OA OPS tools servers S/W and H/W migration MCS migration finished DABYS D/B prototype Tolhuin station consolidation G/S ops automation (part2/ NIS) Lela final migration to MCS 	■ Routine science operations
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	 Occasional data buffering on the MCS, otherwise nominal
S/C Anomalies	■ XMM_SC-153: Tank2 temperature going low in eclipse season	■ none
G/S Anomalies	 XMM-1533: MOSes not re-joined at revolution start XMM-1534: Kouoru Comms Line Unreliable XMM-1535: X_CRP_RG1_1500 recovery incomplete 	■ none
Future activities planned	 Manual spacecraft recovery without propellant procedures CDMU recovery automation NSM on board 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)

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2.1. XMM

- 28/06/2023 (179) 10:23:26: Inadvertent stop of LELA caused VC7 (NISA) to go into drop.
 Restarting LELA did not clear the condition. On-call SOE contacted. From LELA start-up options, Spacon could not determine which options to use to connect LELA for XMCSA.
- 03/07/2023 (184) 19:12:06: OOL. T6074. TH L TANK2 TOP. HARD LOW (limit 25.5c, val, 25.5c). Parameter has been toggling approx every 60-90secs for more than 10 mins. X-ref action inform on-call SOE. Called SOE. Also checked s/c attitude & Uberlog. Attitude is; Picth -12, Roll +6. Most prior log entries seem to be around eclipse season. Current action, continue to monitor.
 - 04/07/2023 (185) 10:29:25: OOL. T6074. TH L TANK2 TOP. HARD LOW (limit 25.5c, val, 25.5c) checked s/c attitude & Uberlog. Attitude is; Picth +7.07 Deg, Roll -11.8 Deg. (eclipse season). Current action, continue to monitor and Inform on call SOE

2.2. INTEGRAL

26/06/2023 (177) 18:33:06 OSL #26560005 and OMC Sequence(s) failed from Timeline. OMC recovery Per ED guidelines. 18:47:29 Manual slew 2656 0500 M.OSL from PID #26560004 to #26560005 FDS: TPF 2656 0501 A.OSL applied on A/S to update slew 26560006. 19:02:03 27/06/2023 (178) 08:00:00 OI 2373: RCS: Open LV-B 28/06/2023 (179) 29/06/2023 (180) 18:36:03 Repeated TM drops on VC7 causing TM backlogs 30/06/2023 (181) 01/07/2023 (182) 02/07/2023 (183) 03/07/2023 (184) 04/07/2023 (185)

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05/07/2023 (186)

03/01/2023 (10	9)		
06/07/2023 (18	7)		
18:18:02	TM delay, OSL #26590075 missed. Recover schedule failed - not enough		
stars. 18:50:26	CSL #26590076 missed from timeline		
18:54:58	CGS 2659_0502_M.CGS uplinked (FD)		
19:09:22	Manual slew 2659_0500_M.OSL from PID #26590074 to #26590077		
19:26:53	FDS: TPF 2659_0503_A.OSL applied on A/S to update slew 26590078		
07/07/2023 (188)			
18:05:02	TM delay shortly before slew. OSL #26600023 missed from timeline		
18:37:56 18:38:55	Manual slew 2660_0500_M.OSL from PID #266022 to #26600024 CSL #26600024 missed from timeline		
18:54:26	FDS: TPF 2660_0501_A.OSL applied on A/S to update slew 26600025		
08/07/2023 (189)			
-	<i>∍)</i>		
09/07/2023 (190) 09/32/51			
08:32:51	~2s TM drop. Caused TC failure for OSL 26600084.		

Manual slew 2660_0502_M.CSL from PID #26600083 to #26600084

08:57:48 FDS: TPF 2660_0503_A.OSL applied on A/S to update slew 26600085

08:41:46

10/07/2023 (192)

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