

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

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Issue 1

Date: 23 November 2018

Marcus Kirsch
OPS-OAX

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ESOC	Rolf Densing		Danielle Heinzer
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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal operations ▪ 15/11 SW 12.4.0 put operational ▪ CDMU table patch preparation for Migration 1-B ▪ Lela migration to MCS on-going ▪ Instrument science loss mitigation activities 	<ul style="list-style-type: none"> ▪ Nominal Science Operations ▪ JEM-X1 DPE crash
Status and performance of S/C	<ul style="list-style-type: none"> ▪ Nominal for platform and all instruments 	<ul style="list-style-type: none"> ▪ Nominal apart from JDPE1
Status and performance of Ground segment	<ul style="list-style-type: none"> ▪ Nominal 	<ul style="list-style-type: none"> ▪ Nominal
S/C Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ INT_SC-629 JEMX1 DPE crash ▪ INT_SC-591 IREM Anomaly #208 : Reset of IREM_CSCI S/W (unique anomaly report) 2x
G/S Anomalies	<ul style="list-style-type: none"> ▪ XMM-1367 CSL failed due to CMD A3189 (START GUIDE STAR) STAT PTV NO GO 	<ul style="list-style-type: none"> ▪ None
Future activities planned	<ul style="list-style-type: none"> ▪ Instrument science loss mitigation activities ▪ G/S and antennae automation ▪ Battery re-evaluation ▪ ESAM avoidance via automated LCL recoveries ▪ Webserver migration 	<ul style="list-style-type: none"> ▪ Routine Science

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

Mission extension agreed at SPC.

2018-11-08 06:17:00 (312)	SSC accidentally brought carrier down at AGO. Re-sweep completed but with both RX locked (no impact on commanding, Test CMD successful).
2018-11-08 06:42:00 (312)	Multiple OM commands failed (x10). OM disabled in A/S.
2018-11-08 06:44:00 (312)	Re-sweep complete. RX2 locked.
2018-11-13 09:33:00 (317)	Installation of SW 12.4.0 on B-chain by SWS
2018-11-15 02:20:00 (319)	CMD A3189(START GUIDE STAR) failed release due to parameter AD043(NR STARS TRACKED) being updated 1 second too late:
2018-11-15 02:20:00 (319)	XMM-1367 created
2018-11-15 02:21:00 (319)	SVM in A/S disabled and A/S stopped.
2018-11-15 02:22:00 (319)	FCP_AOC_0106 STR-A Mapping
2018-11-15 02:30:00 (319)	Start CSL 3467_50
2018-11-15 03:02:00 (319)	RWO started (Manually generated by FD on-call)
2018-11-15 03:57:00 (319)	OCR #4047: Chain swap from A to B – SW 12.4.0 Operational
2018-11-17 06:19:00 (321)	AOS not at 06:09 as expected. SSC informs AGO will only be at 1° at 06:21. STEF G/S coverage shows AGO8 coverage from 06:37.
2018-11-17 06:39:00 (321)	RWB fail. SVM disabled in A/S. FD called.
2018-11-17 07:24:00 (321)	TPF 3469_50.M.RWO uplinked.
2018-11-17 07:51:00 (321)	FCP_AOC_2002 Perform Open Loop Slew: 3469_51_M.OSL
2018-11-17 10:02:00 (321)	FCP_AOC_2006 Perform Close Loop Slew: 3469_52_M.CSL
2018-11-17 10:13:00 (321)	S/C on target (1/6)

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2.2. INTEGRAL

Mission extension agreed at SPC.

2018-11-05 (309)

10:37:00 OEMs: "ACC AIMU ON", 'ACC STR THR EX', PID # 20190003 interrupted
11:00:00 SDPE2 switch-on for test
11:20:00 SDPE2 switch-off

2018-11-07 (311)

22:38:00 IREM Crash - Procedure CRP_SYS_2570 carried out

2018-11-08 (312)

00:18:00 IREM recovery finished

2018-11-13 (317)

15:23:00 IREM Crash: CRP_SYS_2570 Payloads Recovery after IREM Anomaly (SEU) ,
15:57:00 FCP_OMC_0041 OMC EXIT FROM SAFE
16:16:00 GESTAN02 IBIS to Science
17:37:00 S/S:IREM Re-enabled in timeline

2018-11-14 (318)

05:00:00 OEM: "ACC AIMU ON", PID #20220037 interrupted
05:15:00 FDS: TPF 2022_0500_A.OSL applied on A/S to update slew 20220038

2018-11-17 (321)

01:28:00 IREM Crash: CRP_SYS_2570 Payloads Recovery after IREM Anomaly (SEU) ,
01:44:00 FCP_OMC_0041 - OMC from Safe
01:58:00 GESTAN02 IBIS to Science
03:08:00 S/S IREM enabled on the A/S
04:34:00 TPF update failed for SlewID #20230050, TPF 2023_0500_A.OSL applied on A/S

2018-11-18 (322)

00:57:52 OOL KD9243 JDPE1 NO HK TM, JDPE1 crash: INT_SC-629 created
01:06:00 Procedure CRP_JEM1_9010, FCP_JEM1_9000 carried out