

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

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Issue 1

Date: 23 March 2022

Marcus Kirsch
OPS-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal Operations ▪ MOIS automation migration ▪ MUST to ARES migration ▪ MCS migration ▪ DCR reconfiguration to welcome Euclid after its launch ▪ DABYS D/B prototype ▪ Tolhuin station consolidation ▪ Webserver migration 	<ul style="list-style-type: none"> ▪ Routine science operations ▪ SPI Annealing
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
S/C Anomalies	<ul style="list-style-type: none"> ▪ XMM_SC-143: OM B LCL went from CLOSED to OPEN 	<ul style="list-style-type: none"> ▪ INT_SC-701 LCL trip-off on P2174 (Power HLCL 5B2 Status) ▪ INT_SC-591 Summary report for all IREM CSCI S/W resets (1x)
G/S Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ INT-3840 INTEGRAL loss of DTUs after reboot of network switches ▪ INT-3839 IMCS-A showing frequent "TM Backlog" Messages
Future activities planned	<ul style="list-style-type: none"> ▪ G/S ops automation (part2/ NIS) ▪ Lela final migration to MCS, pending mini SOC at ESOC ▪ Migration of voice loop system and monitors in DCR ▪ Cebreros check out 7-9 June ▪ OICM meeting 9 June ESAC 	<ul style="list-style-type: none"> ▪ Design and deployment of an alternative wheel based safe mode on ground and on-board ▪ Automation of Transponder swap operations

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 08/03/2022 (067) 18:46:51: P1135 LCL STA OM-B, SCC Open (recovered according to SCP_OPM_0015)09/03/2022 (068) 22:18:47
- 19/03/2022 (078) 20:13:29: CORBA Synch Error, CMD Stack disconnected from CMD Multiplexer, A/S has frozen, Restarted of A/S. OSL #11 missed from the timeline. S/S:1 Disabled in timeline. Informed FD On call.

2.2. INTEGRAL

10/03/2022 (069)

16:34:00 SPI Camera Switch ON post annealing, ACS Configuration restored.

12/03/2022 (071)

17:54:40 IREM Crash: CRP_SYS_2570 - IREM SEU Recovery. Still in perigee

18:11:04 FCP_OMC_0041 - OMC from Safe

18:27:26 FCP_RM_0081 - IREM Patch from step 4

14/03/2022 (073)

12:18:58 OI #2180 Step 1: Seq. JEGAPS01 sent. LOS WHM2

18:39:46 AOS WHM2. OI #2180: Sequence JEGAPE01 uplinked.

15/03/2022 (074)

09:45:06 FDS: TPF update failed for SlewID 24800003 (wheel plot shows spikes on RW2 and RW3 at the end of 248700002). OSL #24800003 missed from timeline

09:54:32 Manual slew 2480_0500_M.OSL from PID #24800002 to #24800003, OSL #24800004 missed from timeline

10:25:57 Manual slew 2480_0501_M.CSL from PID #24800003 to #24800004

10:44:15 FDS: TPF 2480_0502_A.OSL applied on A/S to update slew 24800005

17:27:37 TM drop from GHY. MCS-A / NIS A / VC7 Only. MCS error messages received.

17:37:31 VC7 in drop again. Same symptoms.

18:08:42 Further VC7 drops/Evl errors until 18:19. Further MCS errors

18:52:20 Sequence MEIMBn01 failed due to PTV failure. Suspect due to MCS/TM problems. s.

19:06:35 FCP_MCS_1010 - Operations Swap A to B chain. AR INT-3839

16/03/2022 (075)

11:10:01 SPACON DTU15 icla1, Mois DTU17 screen blanks out (early implementation of network switch change planned for 12.05??), FDS GTPs lost – INT-3840

12:00:57 Remaining issues after Switch reboot. All printers in the DCR are unreachable. MOIS DTU (E41-17) has incorrect resolution. Upper Right-hand screen on ICLA1 (DTU E41-15A) black.

12:38:27 TPF update failed for SlewID #24800030. Manual update failed. FDS not receiving TM.

13:16:05 RW speeds inline with predictions. FD allow next OSL to execute without an update.

17/03/2022 (076)

09:00:08 Engineering test of the Fast TOO stacks, instrument configuration and PID logic (OI #2183): sent saved stack FAST_TOO_PID_0_OTF_L_OMC_SB.STK

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09:09:51 Manual slew 2480_0503_M.CSL from PID #24800051 to #24800051
09:19:47 OI#2183: Engineering test of Fast TOO stacks, instrument configuration and PID logic.
09:41:13 FDS: TPF 2480_0504_A.OSL applied on A/S to update slew 24800052
09:51:14 NIS-A (backup) links removed. NIS-A patch applied (see INT-3839).

20/03/2022 (079)

11:58:35 TM: P2174 'P HLCL 5B2 STA' SCC OPEN OOL. (INT_SC-701)