
European Space Agency

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

XMM-INT-WOPS-14_32

Issue 1

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HSO-OAX

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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal operations ▪ IMU Calibration ▪ CDMU patch activities 	<ul style="list-style-type: none"> ▪ Nominal Science Operations ▪ RW1 spin up ▪ Perth Test
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 for platform and payload
Status and performance of Ground segment	<ul style="list-style-type: none"> ▪ Nominal 	<ul style="list-style-type: none"> ▪ Ongoing occasional RFI at all stations, some sources identified ▪
S/C Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ none
G/S Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ INT-3391: Store of packet (65535:80:.....) messages – restart of imca-new required
Future activities planned	<ul style="list-style-type: none"> ▪ STR BAD PIX test 13/08 ▪ DSN (Goldstone) connectivity test 13/08 ▪ Galileo launch 21/08 using Perth (XMM conflict) ▪ CDMU patch FAR 25/09 ▪ Cebreros (LCTF) final acceptance 15-17/10 	<ul style="list-style-type: none"> ▪ SPI annealing #23 (28.8.-12.09.) ▪ Test delta-v (September 3rd) ▪ Kiruna station upgrade (8.-27.9.) ▪ 4WD study kick-off (Sep. 10th) ▪ Battery reconditioning (Sep. 8th) ▪ External torque model calibration (Sep. 10th) ▪ Cebreros final acceptance 15-17/10

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2. Detailed weekly operational events

note: all times are Zulu

2.1. XMM

- 2014-08-05 08:37:00 (217) 40049 CURRENTLIMITERACTIV S/S 4 in T/L DISABLED
K1711=3584 COIL1
- 2014-08-05 08:39:00 (217) Uplinked TC KE7012 and KE0048 Executed procedure
CRP_EM2_0010 steps 1-1.3 CLOSE FW WITH COIL2
- 2014-08-05 08:47:00 (217) Called on call IOE. Waiting for instructions after investigation is
complete.
- 2014-08-05 09:08:00 (217) IOE reports that it was a fake alarm and requested re-join of
MOS2
- 2014-08-07 08:00:00 (219) FCP_AOC_0400 start of IMU calibration for IMU1 and IMU4
(STR Blemish pixel table upload test)
- 2014-08-11 07:22:40 (223) Repex: "140081 SEU OVER THRESH" continued reception
until IMU ON. Repex: 140044 AUTO IMU ON + OOL P1112
'LCL STA IMU1' status (value= CLOSE)
- Star1 coordinate right after OSL (y=10085, z=-7074) very close
to confirmed blemish pixel (y=10143, z=-7084). This was the
cause while loss of guide star was observed.
- 2014-08-11 08:00:00 (223) S/C on target

2.2. INTEGRAL

- 04/08/2014
 - o 13:28:00 OCR 990 test pass at PER AOS TM
 - o 13:28:00 Test Commands sent OK Spacon will leave station tracking for
30mins using TMTCS1 and then change for 30mins using chain 2
 - o 14:00:00 Test Commands sent OK Spacon will now track using TMTCS2
for 30 mins
 - o 14:01:00 ESTRACK have also carried out ranging using both TMTCSs at
PER
 - o 14:25:00 Test pass at PER for both TMTCS1+2 is successful
- 05/08/2014
 - o 02:37:00 G/S: data gaps on VC-0 & VC-7 from G/S: KIR + missing packets
 - o 13:12:00 FDS: No TPF generated for slew #14420025
 - o 13:14:00 SEQ: AESAM_00 uplinked & recovery tool started

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- 13:23:00 Spacon tries to carry out recovery but the recovery tool window keeps crashing, fd informed
- 13:27:00 FDS: TPF 1442_0500_A.osl applied on A/S to update slew 14420025

- 06/08/2014
 - 08:17:00 SW Support Performed the following SYS: iddb: Stopped for Sync. activities. Updated TMSpacon rapid distribution to include ilta & iltb (on both A & B Chain machines). Enabled RAPID to iltb
 - 08:58:00 SW Support Performed the following SYS:GFTS: ifts1-4 re-started in order to reduce the log level

- 07/08/2014
 - 07:12:24 Start of IMU calibration (1,3) as per INT_OPS_991, postponed from 05/08/2014
 - 08:21:27 End of IMU calibration (1,3) as per INT_OPS_991, postponed from 05/08/2014
 - 09:12:00 SYS:iddb : Restarted by SW Support
 - 10:25:00 Uplink of latest IMU drift calibrations for ACC (TPF=1442_0001.M.DRA)
 - 10:35:00 Start of RW1 maintenance activities, as per INT_OPS_993 (RWE1 and RW1 HTR switched-ON)
 - 12:34:00 Restarted xcla1 Multiple error messages "PDS TM not running" and "Store packet failed"
 - 13:55:00 Manual RWB 1443_0050_M.RWB
 - 15:15:00 RW1 spin-up start (FCP_AOC_1340, Step 9)
 - 16:15:00 RW1 spin-down start (FCP_AOC_1340, Step 10)
 - 16:31:00 Data gap from Kiruna
 - 19:19:00 TPF, 1443_0500_M.CSL uplinked in order to rejoin time line
 - 19:25:00 End of RW1 maintenance activities, as per INT_OPS_993
 - 19:30:00 SEQ: AESAM_00 uplinked & recovery tool started
 - 19:36:00 FDS: TPF 1443_0501_A.osl applied on A/S to update slew 14430001 AOCS is enabled.

- 08/08/2014
 - 14:11:00 G/S: Data Gap VC-7 from G/S: KIR, duration: few sec, reason: Unknown
 - 18:53:00 Lost connection to NCTRS for a few seconds "Link TM_DDS_VC7RT DISCONNECTED"
 - 07:05:00 G/S: Bad Frames and drops from: Kiruna, duration: 1:45min, reason: unknown. ECC reports spikes in S/N

- 09/08/2014
 - 17:08:00 OOL G5068 POS-M1F1ERRF Family OOL STATE SCC FAIL
 - 17:09:00 TM G5068 POS-M1F1ERRF Family went within limits
 - 17:11:00 OOL G5002 POS-MIRTC1 Family OOL LOW LOW Value=0; TM G5002 POS-MIRTC1 Family went within limits, Hence No Action
 - 17:15:00 OEM: "IBIS1 HEPI RESYNCHRONIZED"