

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

Document No :XMM-INT-WOPS-17_11
Issue/Rev. No : 1
Date 24/03/2017
Page : 2

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Issue 1

Date: 24 March 2017

Marcus Kirsch
OPS-OAX

**XMM-Newton and INTEGRAL weekly
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Document No :XMM-INT-WOPS-17_11
Issue/Rev. No : 1
Date 24/03/2017
Page : 3

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XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No :XMM-INT-WOPS-17_11
 Issue/Rev. No : 1
 Date 24/03/2017
 Page : 4

1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal operations (Eclipse season) ▪ SPACON merger activities ▪ NIS testing 	<ul style="list-style-type: none"> ▪ Nominal Science Operations ▪ Start of Eclipse season
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
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_109 ESAM #8 – LCL Trip-off RWDE1 	<ul style="list-style-type: none"> ▪ None
G/S Anomalies	<ul style="list-style-type: none"> ▪ None 	<ul style="list-style-type: none"> ▪ INT-3649 Flight Dynamics Server Operations ORATOS "\O\" malfunction
Future activities planned	<ul style="list-style-type: none"> ▪ MCS release in April ▪ First releases of Spacon Merger Support software in March 	<ul style="list-style-type: none"> ▪ Automation of some repetitive tasks and CRPs. ▪ Review of RWL Low Speed operations to save propellant.

XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No :XMM-INT-WOPS-17_11
Issue/Rev. No : 1
Date 24/03/2017
Page : 5

2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

2017-03-14 23:23:38 (073) Eclipse #10 Penumbra Entry
2017-03-14 23:59:31 (073) Eclipse #10 Penumbra Exit

2017-03-16 13:51:00 (075) ool, P1102 lcl sta rwde1 ,ssc fail, open CRP_AOC_4019
2017-03-16 14:04:00 (075) FCP_OPM_5101 + 5041 sent to place OM into idle/blocked mode due to AOCs problem
2017-03-16 14:21:00 (075) ESAM detected for XMM on call SOE + SOM called. **Refer to AR XMM_SC_109 ESAM #8 – LCL Trip-off RWDE1**
2017-03-16 14:25:00 (075) CRP_AOC_1000 ESAM first checks
2017-03-16 15:27:00 (075) CRP_AOC_1000(ESAM Check List) from step 5.2 to end.
2017-03-16 15:47:00 (075) start CRP_AOC_1700(Recover from ESAM back into IPS)
2017-03-16 19:36:43 (075) CRP_AOC_1700(Recover from ESAM back into IPS) completed

2017-03-16 23:15:36 (075) Eclipse #11 Penumbra Entry
2017-03-16 23:54:50 (075) Eclipse #11 Penumbra Exit

2017-03-17 06:15:00 (076) Under SOC request (R.P.), execution of CRP_SYS_5004 Step 51 (Performing CAL CLOSED observations). EPIC PN/MOS-1/2 sent to Full Frame with FW CAL CLOSED using the super ED for all of them
2017-03-17 09:03:05 (076) start FCP_AOC_4417(Transition from 3WD to 4WD)
2017-03-17 09:49:51 (076) switch on RWDE1 (FCP_AOC_4417)
2017-03-17 12:31:25 (076) spin up RW1 in TCM4W- (FCP_AOC_4417)
2017-03-17 13:05:35 (076) transition to IPS4W (FCP_AOC_4417)
2017-03-17 13:08:12 (076) FCP_AOC_4417 completed ESAM recovery completed
2017-03-17 13:46:00 (076) FCP_AOC_2002 Perform Open Loop Slew: 3163_53_M.OSL
2017-03-17 14:24:00 (076) FCP_AOC_2006 Perform Close Loop Slew: 3163_55_M.CSL
2017-03-17 15:03:00 (076) Arrival of 3163_02_M.CSL TPFs, Seq. AE2023 updated correctly s/s: 1 (SVM) Re-enabled in timeline
2017-03-17 15:35:00 (076) OCR#3810 s/s:7 , 8 & 9 Re-enabled in timeline
2017-03-17 15:38:19 (076) [OBS_START] Id: 0784521201

2017-03-18 23:08:13 (077) Eclipse #12 Penumbra Entry
2017-03-18 23:52:21 (077) Eclipse#12 Penumbra Exit

XMM-Newton and INTEGRAL weekly Mission Operations Report

Document No :XMM-INT-WOPS-17_11
Issue/Rev. No : 1
Date 24/03/2017
Page : 6

2.2. INTEGRAL

2017-03-13 (72)

05:00:00 FDS: No TPF generated for slew #17920063 and 17920062 as well and there was no error generated by FD system. 17920062, slew execution went fine without update.
05:24:00 OSL #17920063 missed, manual slew 1792_0501_M.csl from PID #17920062 to #17920064
06:12:00 FDS: No TPF generated for slew #17920065. Both FD systems have crashed on both XMM and INT, parallel slew recovery on XMM. Slew id 17920065 can go without update.
06:40:00 TPF update failed for Slew 17920066, 1792_0503_A.osl applied to update slew 17920066

2017-03-14 (73)

10:48:00 Start of IMU_1 calibration and health check prior to eclipse season, INT_OPS_1356

2017-03-15 (74)

08:59:00 FCP_DHS_1232 - Load OBM entries for eclipse season [INT_OPS_1352]

2017-03-16 (75)

13:00:12 AOCS eclipse preparation, INT_OPS_1358
ECLIPSE

2017-03-17 (76)

23:09:00 Loss of TM for a few minutes, RFI, source BEIDOU M6

2017-03-18 (77)

02:35:00 Update for CGS fails. Current guide star is ok for next RWB,
22:46:37 IMU ON, TPF 1794_0500_A.osl applied on A/S to update slew 17940061

2017-03-19 (78)

ECLIPSE