

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

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

XMM-INT-WOPS-18_09_10

Issue 1

Date: 16 March 2018

Marcus Kirsch
OPS-OAX

**XMM-Newton and INTEGRAL weekly
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1. Weekly report

	XMM	Integral
Main activities	<ul style="list-style-type: none"> ▪ Nominal operations ▪ Eclipse Season 05/02-28/03 ▪ SPACON merger activities ▪ Simulator porting ▪ CDMU table patch preparation for Migration 1-B ▪ Preparation of Data Base 7.1 	<ul style="list-style-type: none"> ▪ Nominal Science Operations ▪ 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 for platform and payload
Status and performance of Ground segment	<ul style="list-style-type: none"> ▪ Nominal ▪ Continuing problems on NIS → problem identified (Memory issue due to S/W bug) Next roll out planned for early summer 2018 	<ul style="list-style-type: none"> ▪ Nominal ▪ 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"> ▪ INT_SC-595 JEM-X1 DFEE CRC Anomaly following eclipse
G/S Anomalies	<ul style="list-style-type: none"> ▪ none 	<ul style="list-style-type: none"> ▪ INT-3687 Not possible to edit fields in SCOS (e.g. TM SPACON constant value... ▪ INT-3688 REPORT command failing completion due to mismatch between onboard and TC... ▪ INT-3689 Manual Stack failure to release TC due to PTV issue ▪ INT-3690 Incorrect definition of slew failure in Event Log
Future activities planned	<ul style="list-style-type: none"> ▪ NSO through 0 implementation ▪ Lela migration to MCS ▪ NIS roll out 2 after early summer 2018 	<ul style="list-style-type: none"> ▪ Automation of some repetitive tasks and CRPs

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2. Detailed weekly operational events

note: all times are Zulu (in brackets DOY)

2.1. XMM

- 2018-02-28 11:31:00 (59): TC: A3189 (Start Guide Star) failed to be released from A/S during the commanding of CSL. (Suspected blemish pixel?)
 - o 2018-02-28 11:39:00 (59): FCP_AOC_0106 STR-A Mapping & Recovery tool started to generate a new CSL
 - o 2018-02-28 11:52:49 (59): TC: A3189 'START GUIDE STAR' failed release due to no star in slot # 2
 - o 2018-02-28 12:41:00 (59): S/C on target
- 2018-03-03 14:00:00 (62): OOL A5108 'ERROR STATUS' status (value= ERROR)

2.2. INTEGRAL

- 2018-02-26 (57)
- 14:40:00 During IMU calibration interference between manual and auto stack commending causes loss of slew to PID 19240024
- 14:58:00 Manual slew 1924_0500_M.OSL from PID #19240023 to #19240024
- 15:19:00 FDS: TPF 1924_0501_A.OSL applied on A/S to update slew 19240025
- 18:36:00 ISDC Disconnected due to a hardware problem at ISDC.
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- 2018-02-27 (58)
- 14:21:00 Eclipse season preparation FCP_AOC_0524 Steps 17-20, INT_OPS_1477
- 14:34:00 OSL #19240049 missed from timeline. Using the "*" to filter on TPF resulted in freezing icla4 M/S and increased load on IMCA-NEW so that the slew failed release.
- ARTS INT-3689, INT-3660
- 15:00:00 PIF & MULTI tasks re-started. Timeline stopped and re-started
- 15:30:00 Manual slew 1924_0502_M.OSL from PID #19240048 to #19240050
- 15:33:52 Interference between manual and auto stack commending causes loss of manual slew to PID 19240050
- 15:52:00 FDS: TPF 1924_0503_A.OSL applied on A/S to update slew 19240051
- 18:29:00 MOIS procedure I_FCP_AOC_0540 failed because the connection between MOIS and the MCS was lost during the anomaly at 14h40
- 18:32:00 EPS, OBDH eclipse season preparation
- 22:07:00 MOIS procedure OBM reset failed because the connection between MOIS and the MCS was lost during the anomaly at 14h40
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- 2018-02-28 (59)
- 05:38:00 TM: K5583 'CPU MODE' status-OOL (value = 8 MHZ WAIT).
- 07:02:00 MOIS procedure I_CRP_JEM1_5011 failed because the connection between MOIS and the MCS was lost during the anomaly at 14h40. The EXIF tasks were recycled and next attempt to was successful
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- 2018-02-28 (59)
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- 2018-03-01 (60)
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- 2018-03-02 (61)
- -
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- 2018-03-03 (62)
- 05:51:00 IMU ON "PID # 19260010 interrupted due to IMU on
- 06:07:00 FDS: TPF 1926_0500_A.OSL applied on A/S to update slew 19260011
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- 2018-03-04 (63)
- -
-
- 2018-03-05 (64)
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- 2018-03-06 (65)
- 00:44:00 TPF update failed for Slew 19270008. (Wheel speeds close to zero). FD analysis showed that the slew update failed due to insufficient stars => MCS message was not correct, should be "See FDS Mission Planning Messages Display" - AR INT-3690 raised
- 00:48:00 FDS: TPF 1927_0500_A.OSL applied on A/S to update slew #19270008
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- 2018-03-07 (66)
- 08:45:00 OCR#1489, database installation, A-chain
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- 2018-03-08 (67)
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- 2018-03-09 (68)
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- 2018-03-10 (69)
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- 2018-03-11 (70)
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- 2018-03-12 (71)
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