



INTEGRAL observations of SAX J1808.4-3658 currently in outburst

Del Santo, M.; Bozzo, E.; Kuulkers, E.; Bazzano, A.; Beckmann, V.; Bird, T.; Bodaghee, A.; Chenevez, J.; Domingo, A.; Jonker, P.

Total number of authors:
16

Publication date:
2015

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):

Del Santo, M., Bozzo, E., Kuulkers, E., Bazzano, A., Beckmann, V., Bird, T., Bodaghee, A., Chenevez, J., Domingo, A., Jonker, P., Kretschmar, P., Markwardt, C., Paizis, A., Pottschmidt, K., Sanchez-Fernandez, C., & Wijnands, R. (2015, Apr 13). INTEGRAL observations of SAX J1808.4-3658 currently in outburst. The Astronomer's telegram, No. ATel #7380 <http://www.astronomerstelegam.org/?read=7380>

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

[[Previous](#) | [Next](#) | [ADS](#)]

INTEGRAL observations of SAX J1808.4-3658 currently in outburst

ATel #7380; *M. Del Santo (INAF/IASF-Palermo, Italy), E. Bozzo (ISDC, Switzerland), E. Kuulkers (ESA/ESAC, Spain), A. Bazzano (INAF/IAPS, Italy), V. Beckmann (APC, France), T. Bird (Univ. of Southampton, UK), A. Bodaghee (GCSU, USA), J. Chenevez (DTU Space, Denmark), A. Domingo (CAB/INTA-CSIC, Spain), P. Jonker (SRON, The Netherlands), P. Kretschmar (ESA/ESAC, Spain), C. Markwardt (GSFC, USA), A. Paizis (INAF/IASF-Milano, Italy), K. Pottschmidt (UMBC/NASA GSFC, USA), C. Sanchez-Fernandez (ESA/ESAC, Spain), R. Wijnands (UvA, The Netherlands)*

on 13 Apr 2015; 14:42 UT

Credential Certification: *Melania Del Santo (melania@ifc.inaf.it)*

Subjects: X-ray, Binary, Neutron Star, Pulsar

[Tweet](#) [Recommend](#) 1

The latest INTEGRAL Galactic Bulge monitoring (ATel #438) was performed during revolution 1529 on 2015 April 12 starting at 18:15 UT (57124.761 MJD) for a total of 12462 seconds.

We report on the IBIS/ISGRI detection of the new outburst from the millisecond X-ray pulsar SAX J1808.4-3658 (ATels #7364 #7371 #7376 #7379). The source is detected at about 23 sigma in both 18-40 keV and 40-80 keV IBIS/ISGRI maps with 8.7 ks effective exposure time, and the estimated fluxes are 60+/-3 mCrab and 78+/-3 mCrab in the two energy bands, respectively. SAX J1808.4-3658 was outside the JEM-X and OMC field of view.

The IBIS/ISGRI spectrum extends up to 100 keV and it is well described by a simple power-law model with a photon index of 2.0+/-0.2. The 20-100 keV X-ray flux estimated from the spectral fit is 1.4E-09 erg/cm^2/s.

The INTEGRAL monitoring of the Galactic bulge will also continue in the coming weeks, and the observation results from the near real time data will be made available on the WEB (<http://integral.esac.esa.int/BULGE/>).

[jerome@dsri.dk](#)

[Logout](#)

[[Telegram Index](#)]

R. E. Rutledge, Editor-in-Chief

Derek Fox, Editor

Mansi M. Kasliwal, Co-Editor

rrutledge@astronomerstelegam.org

dfox@astronomerstelegam.org

mansi@astronomerstelegam.org

Related

- 7469 [REM Optical/NIR observations of SAX J1808.4-3658 during outburst](#)
- 7380 [INTEGRAL observations of SAX J1808.4-3658 currently in outburst](#)
- 7379 [Very rapid turn on of SAX J1808.4-3658](#)
- 7376 [Swift UVOT and XRT observations of the recent outburst of SAX J1808.4-3658](#)
- 7371 [SWIFT/XRT confirmed the new outburst of SAX J1808.4-3658](#)
- 7364 [Swift/BAT detected a possible new outburst of the X-ray transient SAX J1808.4-3658](#)