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1ES 0033+595 found in a very high state by INTEGRAL

Bassani, L.; Malizia, A.; Chenevez, Jérôme; Fiocchi, M.; Bazzano, A.; Ubertini, P.; Natalucci, L.; Sguera, A.; Kuulkers, E.; Bird, A. J.

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ATel #6781; L. Bassani, A. Malizia (INAF/IASF Bologna, Italy), J. Chenevez (DTU Space, Denmark), M. Fiocchi, A. Bazzano, P. Ubertini, L. Natalucci (INAF/IASF Roma, Italy), V. Sguera (INAF/IASF Bologna, Italy), E. Kuulkers (ESA/ESAC, Spain), A. J. Bird (Univ. of Southampton, UK) on behalf of the INTEGRAL/GPS team on 4 Dec 2014; 14:15 UT

Credential Certification: Raffaella Landi (landi@iasfbo.inaf.it)

Subjects: X-ray, AGN, Blazar

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During recent Galactic Plane Scan survey observations (GPS, PI: A. Bazzano) performed between Dec 2, 2014 (08:47 UTC) and Dec 3, 2014 (00:26 UTC), INTEGRAL detected 1ES 0033+595 with both JEM-X and IBIS/ISGRI instruments. 1ES 0033+595 is a blazar near the Galactic plane belonging to the BL Lac type; the source has recently been reported as one of the 50 or so blazars detected at TeV energies (Aleksic et al. 2014, http://arxiv.org/abs/1410.7059v1). 1ES 0033+595 was found in the combined JMX1+2 mosaic (effective exposure of 3.1 ksec, 3-10 keV band) with a flux of 20 +/-2 mCrab (3.4 x 10^-10 erg/cm2/s) corresponding to a 10 sigma significance. It is also detected at higher energies ((in JEM-X2 only), with a flux of 21 +/-5 mCrab (or 2.5 x 10^-10 erg/cm2/s) at 4 sigma level (effective exposure of 1.2 ksec, 10-25 keV band). At even higher energies, IBIS/ISGRI found 1ES 0033+595Â at a flux level of 13.6+/-2 mCrab (10^-10 erg/cm2/s) in the 18-40 keV band (13 sec, about 7 sigma) while a 3 sigma upper limit of 11 mCrab (10^-10 erg/cm2/s) is provided in the 40-100 keV band.

Using data collected from the ASDC SED Builder tool (http://tools.asdc.asi.it/SED/) we notice that this is the highest X-ray flux so far reported for this BL Lac object. The source is routinely monitored by various instruments including the Swift/XRT telescope: an observation performed on Nov 23 2014 gives a 2-10 keV flux around 10^-10 erg/cm2/s indicating that 1ES0033+595 has been in a high flux state for sometime now. Multiwaveband observations of the source are strongly encouraged.

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R. E. Rutledge, Editor-in-ChiefDerek Fox, EditorMansi M. Kasliwal, Co-Editor

rrutledge@astronomerstelegram.org dfox@astronomerstelegram.org mansi@astronomerstelegram.org