

IAUC 6656: GRB 970508

The following [International Astronomical Union Circular](#) may be linked-to from your own Web pages, but must **not** otherwise be redistributed (see [these notes on the conditions under which circulars are made available on our WWW site](#)).

Read [IAUC 6655](#) | [SEARCH](#) | Read [IAUC 6657](#)

View [IAUC 6656](#) in [.dvi](#) or [.ps](#) format.

Display

Circular No. 6656

Central Bureau for Astronomical Telegrams

INTERNATIONAL ASTRONOMICAL UNION

Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138

IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)

BMARSDEN@CFA.HARVARD.EDU or DGREEN@CFA.HARVARD.EDU (science)

URL <http://cfa-www.harvard.edu/cfa/ps/cbat.html>

Phone 617-495-7244/7440/7444 (for emergency use only)

GRB 970508

L. Piro, E. Costa, M. Feroci, and P. Soffitta, Istituto di Astrofisica Spaziale, CNR, Frascati; L. A. Antonelli, F. Fiore, and P. Giommi, BeppoSAX, Rome; A. Owens and A. Parmar, Space Science Department, ESTEC; S. Molendi, Istituto di Fisica Cosmica e Tecnologie Relative, CNR, Milano; G. Cusumano, Istituto di Fisica Cosmica e Applicazioni Informatica, CNR, Palermo; J. in 't Zand and J. Heise, Space Research Organization of the Netherlands, Utrecht; F. Frontera and G. Zavattini, Universita di Ferrara; L. Nicastro and E. Palazzi, Istituto Tecnologie e Studio Radiazioni Extraterrestri, CNR, Bologna; M. Smith, G. Gandolfi, V. Torrioni, G. Spoliti, A. Coletta, M. Capalbi, S. Rebecchi, D. Ricci, L. Bruca, and G. Crisigiovanni, BeppoSAX, Rome; L. Salotti, G. Gennaro, and C. DeLibero, Nuova Telespazio, Rome; and R. C. Butler, Agenzia Spaziale Italiana, Rome, report: "The BeppoSAX GRBM/WFC error box of GRB 970508 was observed with the BeppoSAX Narrow Field Instruments (NFI) on May 9.1375 UT for about 36 000 s (about 5.7 hr after the gamma-ray burst). A previously unknown x-ray source, 1SAX J0653.8+7916, has been detected by the MECS (units 2 and 3) and LECS at R.A. = 6h53m46s.7, Decl. = +79o16'02" (equinox 2000.0; estimated error radius 50"). This position lies in the BeppoSAX WFC error box ([IAUC 6649](#), [6654](#)). The previously known source, 1RXS J065213.8+790855, lying outside the WFC error box, is also detected at R.A. = 6h52m14s.8, Decl. = +79o09'16", consistent within the errors with the ROSAT measurement. The countrates of 1SAX J0653.8+7916 were 0.0070 +/- 0.0007 and 0.0043 +/- 0.0006 count/s in the MECS (2-10 keV) and LECS (0.5-5 keV), respectively, corresponding to fluxes of (6.3 +/- 0.6) and (7.0 +/- 0.8) x 10E-13 erg cmE-2 sE-1. The optical transient reported on [IAUC 6654](#) coincides, within the errors, with 1SAX J0653.8+7916. A further observation with the BeppoSAX NFI is foreseen on May 11 to study the temporal evolution."

A. O. Jaunsen, and T. Grav, Institute for Theoretical Astrophysics, Oslo; R. Oestensen, Nordic Optical Telescope (NOT); H. Pedersen, Copenhagen University Observatory; and Piro, Feroci,

Costa, Frontera, Palazzi, and Heise report: "Data taken at the 2.56-m NOT confirms the variability of the source reported by Bond ([IAUC 6654](#)). On May 10.92 UT, we found $V = 19.65$ for the candidate, $V = 20.10$ for the nearby star; these magnitudes were calibrated against GSC 4534.1515 ($V = 13.3$). Unfiltered images taken during the two preceding nights further document the rise in brightness."

1997 May 11

(C) Copyright 1997 CBAT
(6656)

Daniel W. E. Green

[Read IAUC 6655](#) | [SEARCH](#) | [Read IAUC 6657](#)

View IAUC 6656 in [.dvi](#) or [.ps](#) format.

[Our Web policy](#). [Index](#) to the CBAT/MPC/ICQ pages.

[CBAT](#)