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Astrophysics > High Energy Astrophysical Phenomena Swift monitoring of the central ray source in RCW 103 P. Esposito, R. Turolla, A. De Luca, G. L. Israel, A. Posser Burrows (Submitted on 19 Jul 2011) The X-ray source 1E 161348-5055 lies at the centre of the 2-kyr-old supernova remnant RCW 103. Owing to its 24-ks modulation, orders-or magnitude flux variability over a few months/years, and lack of an obvio optical counterpart, 1E 161348-5055 defies assignment to any known X-ray sources. Starting from April 2006, Swift observed 1E 161348-5055 its X-ray telescope for 2 ks approximately once per month. During the figures are sourced flux of 1.7e-12 erg/cm^2/s (1-10 keV), about 20 times lower to historical maximum attained in its 1999-2000 outburst. The long times to the source in the figure source in the source in the figure so		I X-	Download: • PDF • PostScript • Other formats
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the Swift data allows us to obtain an accurate measure of the period of 1E 161348-5055 [P = 24030.42(2) s] and to derive the first upper limit on its period derivative ($ dP/dt < 1.6e-9 s/s$ at 3 sigma).			
Comments: Subjects: Journal reference:	6 pages, 5 figures, accepted for publication in Figures 2,3 and 5 in reduced quality High Energy Astrophysical Phenomena (a Monthly Notices of the Royal Astronomical Soc 418, pages 170-175 (2011)	stro-ph.HE)	
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