

IAUC 3906: 1983 XF; V0332+53; NEW IR SOURCE

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IAUC number

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1983 XF

Ephemeris from the orbital elements on [IAUC 3905](#):

1984 ET	R.A. (1950.0)	Decl.	p	r	Mag.
Jan. 1	4 00.95	+22 28.3	0.703	1.603	16.8
11	4 00.24	+23 16.8			
21	4 05.18	+24 14.8	0.740	1.528	17.0
31	4 15.82	+25 19.4			
Feb. 10	4 31.87	+26 25.8	0.807	1.475	17.3
20	4 52.78	+27 27.2			
Mar. 1	5 17.80	+28 16.1	0.894	1.450	17.5
11	5 46.17	+28 45.5			
21	6 16.97	+28 49.8	0.999	1.455	17.8

V0332+53

A. N. Parmar, R. J. Blissett, T. Courvoisier and L. Chiappetti, EXOSAT Observatory, Darmstadt, inform us that, following the report from the U.K. Infrared Observatory of a J-band flare ([IAUC 3904](#)), observations on 1983 Dec. 24.5 and 25.7 UT show that this source is again bright in x-rays. Previous EXOSAT observations measured a decline in source strength from 0.06 Crab on Nov. 20.3 to < 0.001 Crab on Dec. 1.1: the latest observations show the strength again to be 0.06 Crab ([IAUC 3893](#)). The x-ray intensity is again modulated with a coherent 4.4-s period ([IAUC 3902](#)). The pulse profile resembles a double sinusoid with peak-to-peak amplitude 10 percent. Further EXOSAT observations are planned.

NEW INFRARED SOURCE

N. M. Ashok, H. C. Bhatt and T. Chandrasekhar, Physical Research Laboratory, Ahmedabad: and S. C. Joshi, Uttar Pradesh State Observatory, Naini Tal, report: "We have searched at a wavelength of 2.2 microns a 3' x 3' area centered on IRAS 0453+444P03 (Neugebauer and Habing 1983, Nature 305, 578). No source brighter than K = 7.0 was detected, although an uncatalogued infrared source (with K = 4.3, H = 5.1, J = 6.0) was serendipitously detected nearby at R.A. = 4h52m08s, Decl. = +44deg26'5 (equinox 1950.0). This new source has no optical counterpart brighter than V = 15. The observations were made using an INSB photometer with a 30" beam at the 1-m Naini Tal telescope on 1983 Nov. 30. Infrared spectroscopy and far-infrared observations of the source are requested."

1984 January 4

(3906)

Brian G. Marsden

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