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INTERNATIONAL ASTRONOMICAL UNION**

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URL <http://www.cfa.harvard.edu/iau/cbat.html> ISSN 0081-0304

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COMET P/2007 R4 (GARRADD)

G. J. Garradd reports his discovery of a comet on CCD images taken with the 0.5-m Uppsala Schmidt telescope in the course of the Siding Spring Survey (discovery observation tabulated below), the object indicated as having a faint 20'' tail to the west on 30-s exposures. Following posting on the Minor Planet Center's 'NEOCP' webpage, A. C. Gilmore and P. M. Kilmartin (Mt. John 1.0-m $f/7.7$ reflector) write that their images from Sept. 16.50–16.56 UT show a coma of diameter $\sim 5''$ and a 'wedge'-shaped tail 25'' long in p.a. 270°; Gilmore's images taken on Sept. 17.5 show a coma diameter of $\sim 9''$ with central condensation (FWHM 4'') and a tail 20'' long in p.a. 260°.

| 2007 UT | α_{2000} | δ_{2000} | Mag. |
|---------------|--|-----------------|------|
| Sept.14.60795 | 2 ^h 15 ^m 02. ^s 73 | −26°34′54.8″ | 18.4 |

The available astrometry (including predisccovery Siding Spring images from Aug. 12), together with the following preliminary elliptical orbital elements and an ephemeris, appear on *MPEC* 2007-S04.

$$\begin{array}{rcl}
 T = 2007 \text{ Sept. } 26.904 \text{ TT} & \omega = 282.601 & \\
 e = 0.67380 & \Omega = 87.603 & \left. \vphantom{\begin{array}{l} T \\ e \\ q \end{array}} \right\} 2000.0 \\
 q = 1.92336 \text{ AU} & i = 20.240 & \\
 a = 5.89621 \text{ AU} & n^\circ = 0.068841 & P = 14.3 \text{ years}
 \end{array}$$

VARIABLE STAR IN PERSEUS

H. Mikuž, Crni Vrh Observatory, reports that a new starlike variable (mag 17.9, roughly equivalent to the R band) was detected on four unfiltered CCD images (limiting mag 19.0) taken around Sept. 16.078 UT in the course of the PIKA project at the Crni Vrh Observatory using the 0.60-m $f/3.3$ Cichocki telescope. The variable object is located at $\alpha = 3^{\text{h}}57^{\text{m}}28^{\text{s}}.01$, $\delta = +35^\circ37'16''.3$ (equinox 2000.0). This position is consistent with USNO-B1-catalogue star 1256-0061977 with B magnitude 21.5. Additional PIKA magnitudes for the new object show that it is brightening: 2003 Sept. 26, [19.0; 2004 Feb. 9, [19.0; 2005 Jan. 11, [19.0; 2007 Sept. 16.955, $B = 17.90 \pm 0.10$, $R = 17.65 \pm 0.05$; Sept. 17.037, $B = 17.60 \pm 0.09$, $R = 17.39 \pm 0.04$. Nothing is visible at this location on several Palomar Sky Survey and 2MASS images from the Aladin database.

2007 September 17

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