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COMET C/2007 Y2 (McNAUGHT)

R. H. McNaught reports his discovery of a comet (as tabulated below) on CCD images taken with the 0.5-m Uppsala Schmidt telescope, where the object appears marginally, but consistently, diffuse with a coma diameter of $\sim 10''$ in good seeing. Three stacked 90-s R images taken by D. M. Burton, Australian National University, with the ANU 1.0-m $f/8$ reflector at Siding Spring on 2008 Jan. 1.69 show a slightly diffuse comet (slightly involved with a star) with a $3''$ tail in p.a. 20°. Following posting on the Minor Planet Center's 'NEOCP' webpage, C. Jacques and E. Pimentel write that their astrometric CCD images from Jan. 1.14 (taken with a 0.30-m $f/3$ reflector at Belo Horizonte, Brazil) show a central condensation of size $10''$.

2007 UT	α_{2000}	δ_{2000}	Mag.
Dec. 31.66576	$6^h45^m01^s.58$	$-50^\circ45'51''.5$	19.0

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2008-A6.

$$
\begin{array}{lll}
T = 2008\ \text{May}\ 18.189\ \text{TT} & \omega = 264^\circ.435 & \\
 & \Omega = 303.854 & 2000.0 \\
q = 4.13214\ \text{AU} & i = 98.702 &
\end{array}
$$

SUPERNOVA 2007uy IN NGC 2770

S. Nakano, Sumoto, Japan, reports the discovery of an apparent supernova (mag 17.2) by Yoji Hirose (Tsutsumi, Chigasaki, Kanagawa-ken, Japan) on ten unfiltered CCD frames taken around 2007 Dec. 31.669 UT using a 0.35-m $f/6.8$ Schmidt-Cassegrain telescope (limiting mag 18.0); Nakano has measured mag 17.0 and the following position for the new object from a jpeg image supplied by Hirose: $\alpha = 9^h09^m35^s.40$, $\delta = +33^\circ07'09''.9$ (equinox 2000.0), which is $20''.6$ east and $15''.5$ south of the center of NGC 2770. Nothing is visible at this position on red Digitized Sky Survey images from 1998 and 2000, though there are apparently numerous H II regions nearby. Additional unfiltered CCD magnitudes for 2007uy: 2007 Mar. 7 and Dec. 18, [18 (Hirose); Dec. 31.786, 17.3 (K. Kadota, Ageo, Japan, 0.25-m $f/5$ reflector; position end figures $35^s.27$, $08''.9$); 2008 Jan. 1.595, 17.0 (Hirose); 1.651, 16.9 (K. Itagaki, Takanezawa station, Tochigi-ken, Japan, 0.30-reflector; position end figures $35^s.35$, $08''.9$); 1.885, 16.8 (P. Corelli, Pagnacco, Italy, 0.45-m $f/4.5$ reflector; position end figures $35^s.17$, $08''.9$).

2008 January 2 *Daniel W. E. Green*