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INTERNATIONAL ASTRONOMICAL UNION**

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URL <http://cfa-www.harvard.edu/iau/cbat.html> ISSN 0081-0304  
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*COMET C/2005 N1 (JUELS-HOLVORCEM)*

C. W. Juels, Fountain Hills, AZ; and P. R. Holvorcem, Campinas, Brazil, report their discovery of a diffuse comet on CCD images taken with a 0.07-m  $f/2.8$  refractor at Fountain Hills (discovery observation given below). Following posting on the 'NEO Confirmation Page', other CCD observers have remarked on the object's cometary nature. J. E. McGaha (Tucson, AZ, 0.36-m  $f/10$  Schmidt-Cassegrain reflector) notes that ten stacked 60-s exposures taken on July 3.4 UT show a bright inner coma of diameter  $30''$  and a faint outer coma extending out to a diameter of  $70''$ , with a  $20''$ -wide tail that is  $120''$  long in p.a.  $255^\circ$ . C. W. Hergenrother, Lunar and Planetary Laboratory, writes that a 300-s  $R$ -band exposure with the University of Arizona 1.54-m reflector shows a circular coma  $27''$  in diameter, but with no hint of a tail. Images taken by L. Buzzi and F. Luppi (Varese, Italy, 0.60-m  $f/4.6$  reflector) on July 3.1 show a diffuse, round coma of diameter  $\sim 20''$ . The available astrometry (with prediscovery observations by Juels and Holvorcem on June 30 and July 1), preliminary parabolic orbital elements [ $T = 2005$  Aug. 21.24 TT,  $\omega = 78^\circ 94$ ,  $\Omega = 3^\circ 04$ ,  $i = 50^\circ 85$  (equinox 2000.0),  $q = 1.1380$  AU], and an ephemeris appear on *MPEC* 2005-N10.

2005 UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.
July 2.44762	$3^{\text{h}}16^{\text{m}}42^{\text{s}}.45$	$+34^\circ 57' 46''.1$	14.6

*SUPERNOVAE 2005cp AND 2005ct*

Further to *IAUC* 8550, J. Graham and W. Li report the LOSS discovery of an apparent supernova (mag 17.3) on unfiltered KAIT images taken on July 1.49 and 2.47 UT. SN 2005ct is located at  $\alpha = 0^{\text{h}}39^{\text{m}}40^{\text{s}}.50$ ,  $\delta = -14^\circ 14' 16''.6$  (equinox 2000.0), which is  $3''.0$  west and  $2''.3$  south of the center of NGC 207. A KAIT image taken on Jan. 20.19 showed nothing at this position (limiting mag  $\sim 19.5$ ).

M. Modjaz, R. Kirshner, and P. Challis, Harvard-Smithsonian Center for Astrophysics, report that a spectrogram (range 340–740 nm) of SN 2005cp (cf. *IAUC* 8550), obtained by R. Hutchins on June 30.43 UT with the F. L. Whipple Observatory 1.5-m telescope (+ FAST), shows it to be a type-II<sub>n</sub> supernova. The spectrum consists of a blue continuum, indicating young age, and Balmer emission lines with a narrow component of  $\sim 400$  km/s (FWHM) superposed on a weaker and broader component of  $\sim 4000$  km/s (FWHM), after removing the NED recession velocity of 6616 km/s for the host galaxy (from Falco *et al.* 1999, *PASP* **111**, 438).