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**INTERNATIONAL ASTRONOMICAL UNION**

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*COMET C/2007 N1 (McNAUGHT)*

R. H. McNaught reports his discovery of a comet on CCD images obtained with the 0.5-m Uppsala Schmidt telescope at Siding Spring (discovery observation tabulated below); stacked images show the object to be slightly diffuse with a diffuse tail  $\sim 10''$  long in p.a.  $240^\circ$ . Following posting on the Minor Planet Center's 'NEOCP' webpage, A. C. Gilmore writes that his CCD images taken on July 11.64–11.70 UT with the Mt. John 1.0-m  $f/7.7$  reflector show a small, condensed coma and a short fan tail in p.a.  $240^\circ$ . S. Casulli notes that his CCD images taken on July 12.066 with a 0.40-m  $f/4.5$  reflector at the Osservatorio Astronomico Vallemare di Borbona show a coma nearly  $12''$  in diameter, elongated toward p.a.  $80^\circ$ .

2007 UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.
July 10.73325	$1^{\text{h}}42^{\text{m}}19^{\text{s}}.69$	$+1^{\circ}10'08''.4$	17.7

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2007-N29.

$$\left. \begin{array}{ll} T = 2007 \text{ Sept. } 7.236 \text{ TT} & \omega = 266^\circ.796 \\ & \Omega = 115.220 \\ q = 2.28009 \text{ AU} & i = 9.329 \end{array} \right\} 2000.0$$

*COMET C/2006 VZ<sub>13</sub> (LINEAR)*

M. L. Sitko, University of Cincinnati and Space Science Institute; L. Beerman, University of Cincinnati; R. W. Russell, D. K. Lynch, and R. Pearson, The Aerospace Corporation; H. B. Hammel, Space Science Institute; and W. Golisch, Infrared Telescope Facility (IRTF), NASA, report on observations made of comet C/2006 VZ<sub>13</sub> using the IRTF (+ BASS) on July 9 UT. The comet exhibited a continuum between 8 and  $13 \mu\text{m}$ , on top of which a silicate emission band from 8.5 to  $12.2 \mu\text{m}$  was observed. An underlying blackbody, normalized to the continuum fluxes at 8.1 and  $12.5 \mu\text{m}$ , yielded a mean grain temperature of 275 K (estimated uncertainty  $\pm 5$  K). The derived temperature was 6 percent higher than that of an equivalent radiative equilibrium blackbody at the heliocentric distance of the comet. The feature-to-continuum ratio in the silicate band was 1.27. The measured flux between 10.0 and  $11.0 \mu\text{m}$ , using the  $3''.4$  circular entrance aperture of BASS, was  $1.6 \pm 0.2$  Jy (equivalent magnitude  $N = 3.5 \pm 0.1$ ).

Visual  $m_1$  estimates by J. Gonzalez, Leon, Spain: June 12.05 UT, 10.3 ( $25 \times 100$  bin.); 23.03, 9.4; 26.11, 8.8; July 4.91, 7.9 ( $7 \times 50$  bin.); 10.01, 7.3.