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COMET P/2006 S1 (CHRISTENSEN)

E. J. Christensen reports the discovery of another comet on Catalina Sky Survey images taken with the 0.68-m Schmidt telescope, the object displaying a well-condensed 15″ coma and a 2′ straight and narrow tail in p.a. 245° (discovery observation tabulated below). Following posting on the 'NEO Confirmation Page', numerous CCD observers have reported information on the comet's coma diameter: Sept. 16.9 UT, 13″ (J. Lacruz, Madrid, Spain, 0.30-m reflector); 17.3, 10″ (J. Young, Table Mountain, 0.61-m reflector; with a bright, round central condensation); 17.3, 6″ (J. E. McGaha, Tucson, AZ, 0.62-m reflector, six 60-s stacked images); 17.35–17.38, $\geq 12''$ FWHM (D. T. Durig, T. E. Stegall, and E. A. Pierce, Sewanee, TN, 0.30-m reflector). Reported tail lengths and position angles: Sept. 16.9, 32″, 235° (Lacruz); 16.9, 3′, 237° (A. Baransky, Kiev, 0.7-m reflector); 16.94, 25″, 230° (G. Sostero and E. Guido, Remanzacco, Italy, 0.25-m reflector); 16.95–16.96, –, 229° (R. Ferrando and M. Ferrando, Valencia, Spain, 0.36-m reflector); 17.3, 80″, 235° (Young; tail curves slightly after 30″ with a p.a. spanning 235°–265°, showing a slight fan shape); 17.3, 211″ (10″ wide), 217° (McGaha); 17.35–17.38, 1′.5, ~ 237° (Durig *et al.*).

2006 UT	α_{2000}	δ_{2000}	Mag.
Sept.16.24646	$23^h25^m47^s.64$	$+24^\circ50'12''.9$	17.4

The available astrometry, the following preliminary elliptical orbital elements, and an ephemeris appear on *MPEC* 2006-S07.

$$\begin{array}{llll} T = 2006\ \text{Aug. } 27.422\ \text{TT} & \omega = 124^\circ.815 & \\ e = 0.61999 & \Omega = 214.641 & \left.\right\} 2000.0 \\ q = 1.35354\ \text{AU} & i = 11.610 & \\ a = 3.56182\ \text{AU} \quad n^\circ = 0.146621 & P = 6.7\ \text{years} & \end{array}$$

SUPERNOVAE 2006ew–2006fn

On *CBETs* 621 and 623, J. Frieman reports the discovery details for 18 supernovae on behalf of the Sloan Digital Sky Survey II collaboration. All the new objects are at g magnitude 20 or fainter except for 2006ez (predicted to reach mag 19.3 in mid-Sept.), 2006fd (reported at mag 19.4 on Aug. 27), and 2006fg (at mag 19.1 on Aug. 28). All are type-Ia events except for two type-II supernovae (2006ez and 2006fg) and 2006fe (whose type was not yet determined).

2006 September 17 *Daniel W. E. Green*