

**Central Bureau for Astronomical Telegrams**  
**INTERNATIONAL ASTRONOMICAL UNION**

Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.  
 IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)  
 CBAT@CFA.HARVARD.EDU (science)  
 URL <http://cfa-www.harvard.edu/iau/cbat.html> ISSN 0081-0304  
 Phone 617-495-7440/7244/7444 (for emergency use only)

*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,  $\sim 237^\circ$  (Durig *et al.*).

2006	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.
Sept.16.24646		23 <sup>h</sup> 25 <sup>m</sup> 47 <sup>s</sup> .64	+24°50'12''.9	17.4

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

$$\left. \begin{array}{l}
 T = 2006 \text{ Aug. } 27.422 \text{ TT} \\
 e = 0.61999 \\
 q = 1.35354 \text{ AU} \\
 a = 3.56182 \text{ AU}
 \end{array} \right\} 2000.0$$

$$\left. \begin{array}{l}
 \omega = 124^\circ 815 \\
 \Omega = 214.641 \\
 i = 11.610 \\
 P = 6.7 \text{ years}
 \end{array} \right\}$$

$$n^\circ = 0.146621$$

*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).