Circular No. 8750

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 C/2006 S2 (LINEAR)

An apparently asteroidal object discovered by the LINEAR project, and posted on the 'NEO Confirmation Page', has been found by J. Young to show a round coma with an outer faint shell 10″ in diameter and a central condensation 5″ in diameter, with no hint of tail, on CCD images taken on Sept. 18.12–18.16 UT with the Table Mountain 0.61-m *f*/16 reflector; his images from Sept. 19.14–19.17 show a round, diffuse coma of diameter 8″, and again no tail seen in long exposures.

2006 UT	α_{2000}	δ_{2000}	Mag.
Sept.17.17360	$18^h16^m38^s.52$	$+46°40'51''.1$	19.0

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2006-S26.

$$T = 2007 \text{ May } 11.772 \text{ TT} \qquad \left.\begin{array}{l}\omega = 168^\circ.186\\ \Omega = 114.262\\ i = 98.828\end{array}\right\} 2000.0$$
$$q = 3.10570 \text{ AU}$$

SUPERNOVAE 2006fo–2006gh

Two apparent supernovae have been reported following discovery on unfiltered CCD images: 2006fp by T. Puckett and R. Gagliano (cf. *IAUC* 8741); and 2006gc by R. Mostardi and W. Li (LOSS/KAIT; cf. *IAUC* 8744). Also, an additional 18 supernovae (2006fo, 2006fq–2006gb, and 2006gd–2006gh — most being fainter than magnitude $g = 20$) have been reported by J. Frieman on behalf of the Sloan Digital Sky Survey II collaboration, with details published on *CBETs* 624, 627, and 629; the brightest, 2006fo (a type-Ia supernova ≈ 1 week past maximum), is included below.

SN	2006 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2006fo	Sept. 16	$2^h32^m38^s.89$	$+\ 0°37'03''.0$	18.2	6″.0 W, 0″.6 N
2006fp	Sept. 17.15	22 45 41.13	+73 09 47.8	17.7	13″.9 E, 3″.6 N
2006gc	Sept. 18.52	4 58 50.81	+ 6 58 28.6	18.2	13″.1 E, 10″.9 S

Additional magnitudes for 2006fp in UGC 12182: 2005 July 14, [19.6 (Puckett); 2006 Sept. 18.27 UT, 17.6 (J. Grcevich, 2.4-m Hiltner telescope, MDM Observatory). Additional KAIT magnitudes for 2006gc in UGC 3219: Feb. 11.23, [19.5; Sept. 8.53, 18.1.

2006 September 19 *Daniel W. E. Green*