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)

SUPERNOVAE 2006du, 2006dv, 2006dw

Three additional apparent supernovae have been discovered on unfiltered CCD images: 2006du by P. Luckas, O. Trondal, and M. Schwartz (0.35-m telescope, Perth; cf. *IAUC* 8713), 2006dv by T. Puckett and M. Peoples (0.50-m reflector, Ellijay, GA; cf. *IAUC* 8716), and 2006dt by N. Lee and W. Li (via LOSS/KAIT; cf. *IAUC* 8732).

SN	2006 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2006du	July 18.9	$0^h05^m12^s.26$	$-11^\circ29'23''.6$	17.0	$13''.2$ W, $45''.6$ N
2006dv	July 20.32	23 15 53.06	+ 5 07 50.2	17.7	$1''.3$ W, $6''.9$ N
2006dw	July 23.25	16 17 43.29	+34 57 55.1	15.8	$3''.5$ W, $1''.7$ N

Additional magnitudes for 2006du in IC 1529: 1983 Oct. 1, [21.0 (Digitized Sky Survey); 2006 June 10.8 UT, [18.0 (Luckas); July 22.9, 16.7 (Luckas). Additional magnitudes for 2006dv in UGC 12461: 2005 Aug. 9, [19.4; 2006 July 24.31, 17.5. Additional magnitudes for 2006dw: July 12.24, [19.5; 16.26, 18.3. The nucleus of the apparent host galaxy of 2006dw is located $37''$ east and $142''$ south of the center of NGC 6109.

COMET C/2006 M4 (SWAN)

Twenty-six co-added 15-s CCD images taken by N. Teamo and S. F. Hönig (0.35-m reflector, Punaauia, Tahiti) on July 17.2 UT show an $8''$ nuclear condensation surrounded by a fainter $45''$ coma (total mag 12.7) and a $2'.1$ tail in p.a. 160°. Three combined 30-s exposures by A. C. Gilmore (1.0-m reflector, Mt. John) on July 17.3 show a $2'.4$ tail in p.a. 165° and a well-condensed coma $\sim 40''$ in diameter.

Improved parabolic orbital elements to those published on *IAUC* 8729, taken from *MPEC* 2006-O17:

$$\begin{array}{llll} T = 2006 \text{ Sept.}28.613 \text{ TT} & \omega = & 62^\circ.851 & \\ & \Omega = & 148.746 & \rbrace 2000.0 \\ q = 0.77860 \text{ AU} & i = & 111.822 & \end{array}$$

COMET 177P/BARNARD

Visual total-magnitude estimates: July 7.07 UT, 13.2 (J. J. Gonzalez, Leon, Spain, 0.20-m reflector); 16.42, 10.3 (D. A. J. Seargent, The Entrance, N.S.W., 25×100 binoculars); 19.91, 9.8 (M. Meyer, Frauenstein, Germany, 20×100 binoc.); 20.89, 9.1 (Meyer); 22.99, 8.5 (Gonzalez, 7×50 binoc.).

2006 July 24 *Daniel W. E. Green*