Circular No. 8652

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 71P/CLARK

This comet has been recovered at total mag $\sim$ 17.5–18 via observations at several observatories during Dec. 22–30, with the astrometry, the following orbital elements by B. G. Marsden (from 78 observations, 2000–2005; mean residual $0''.7$; nongravitational parameters $A_1 = +1.05 \pm 0.19$, $A_2 = -0.7600 \pm 0.1056$), and an ephemeris appearing on *MPEC* 2005-Y59. The correction to the prediction by S. Nakano (*MPC* 48382; *2006 Comet Handbook*) is $\Delta T = -0.42$ day.

$$\text{Epoch} = 2006 \text{ May } 25.0 \text{ TT}$$

$$\begin{array}{llll} T = 2006 \text{ June } 6.79246 \text{ TT} & \omega = 208^\circ.74552 & \\ e = 0.4997464 & \Omega = 59.65809 & \Big\} 2000.0 \\ q = 1.5620858 \text{ AU} & i = 9.48790 & \end{array}$$

$$a = 3.1225878 \text{ AU} \qquad n^\circ = 0.17862083 \qquad P = 5.52 \text{ years}$$

COMET C/2005 Y2 (McNAUGHT)

R. H. McNaught reports his discovery of a diffuse comet on CCD survey exposures obtained with the 0.5-m Uppsala Schmidt telescope at Siding Spring (discovery observation tabulated below). Better exposures taken on Dec. 31.44–31.46 UT confirm a coma diameter of $\sim 10''$.

2005 UT	α_{2000}	δ_{2000}	Mag.
Dec. 30.45574	$23^h07^m04^s.58$	$-24^\circ09'24''.7$	17.8

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2006-A01.

$$\begin{array}{llll} T = 2006 \text{ July } 25.690 \text{ TT} & \omega = 295^\circ.386 & \\ & \Omega = 93.331 & \Big\} 2000.0 \\ q = 3.72356 \text{ AU} & i = 19.076 & \end{array}$$

SUPERNOVAE

Several recently discovered supernovae have been found to be of type II: 2005kk (details on *CBET* 312), 2005kx (*CBET* 311), 2005lx (*CBET* 342), 2005mb (*CBET* 345), 2005me (*CBET* 345), 2005mg (*CBET* 342). Type-Ia supernovae: 2005iq (*CBET* 278), 2005kc (*CBET* 286), 2005ls (*CBET* 324), 2005lt (*CBET* 319, 321), 2005lu (*CBET* 321), 2005ms (*CBET* 345). Type-Ic supernovae: 2005kf (*CBET* 301), 2005lr (*CBET* 321).

2005 December 31 *Daniel W. E. Green*