

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/2005 W2 (CHRISTENSEN)

A comet with a slightly asymmetric 20'' coma elongated toward p.a. 230°–260° has been found by E. J. Christensen on Catalina Sky Survey images taken with the 0.68-m Schmidt telescope (discovery observation below). Others making follow-up observations that noted the cometary appearance include P. Birtwhistle (Great Shefford, Berkshire, U.K., 0.4-m reflector, Nov. 20.8 UT; 12'' coma with a brighter 3'' center and a possible faint extension $\sim 14''$ long in p.a. 55°), J. McGaha (Tucson, AZ, 0.62-m reflector, Nov. 21.2; uniform, round 10'' coma, no elongation), and J. Young (Table Mtn., 0.61-m reflector, Nov. 21.3, thin cirrus and moonlight; bright, diffuse 8'' coma with faint outer area extending 16'' to the northeast, and a second poorly defined extension seen around p.a. 240° in stacked images). Further astrometry is given on *MPEC* 2005-W24, together with parabolic orbital elements ($T = 2005$ June 1.107 TT, $q = 3.17566$ AU, $\omega = 33^\circ 786$, $\Omega = 348^\circ 766$, $i = 11^\circ 836$, equinox 2000.0), and an ephemeris.

2005	UT	α_{2000}	δ_{2000}	Mag.	<i>Observer</i>
Nov. 20.27730		3 ^h 47 ^m 21 ^s .19	+35°52'46".3	17.1	Christensen

SUPERNOVAE 2005kg, 2005kh, 2005ki, 2005kj, 2005kk

Five apparent supernovae have been reported from unfiltered CCD images: 2005kj by the “Nearby Supernova Factory” collaboration via Palomar NEAT frames (cf. *CBET* 296), and the rest by E. Lee, N. J. Ponticello, and W. Li via LOSS/KAIT (cf. *IAUC* 8630).

SN	2005 UT	α_{2000}	δ_{2000}	Mag.	<i>Offset</i>
2005kg	Nov. 17.09	21 ^h 11 ^m 39 ^s .15	−23°10'20".0	17.0	1".6 W, 2".7 S
2005kh	Nov. 17.54	10 01 25.41	+15 46 49.4	18.7	7".6 W, 37" N
2005ki	Nov. 18.57	10 40 28.22	+ 9 12 08.4	18.0	2".0 W, 71" N
2005kj	Nov. 17.5	8 40 09.18	− 5 36 02.2	16.3	—
2005kk	Nov. 17.50	10 39 40.02	+25 19 25.1	17.7	13".0 E, 4".0 N

Additional approximate KAIT magnitudes: 2005kg in MCG −04-50-7, Oct. 22.12 UT, [19.0; Nov. 18.08, 17.2. SN 2005kh in NGC 3094, May 13.20, [19.5; Nov. 18.50, 18.6. SN 2005ki in NGC 3332, May 13.20, [19.5; Nov. 19.58, 17.7. 2005kk in NGC 3323, Apr. 6.18, [19.5; Nov. 21.52, 17.7. SNe 2005kg and 2005ki are type-Ia supernovae, while 2005kh is of type II and 2005kj is of type IIIn (cf. *CBETs* 295, 296, 299).