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# Central Bureau for Astronomical Telegrams
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## *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°.786, $\Omega$ = 348°.766, $i$ = 11°.836, equinox 2000.0), and an ephemeris.

| 2005 UT | $\alpha_{2000}$ | $\delta_{2000}$ | Mag. | *Observer* |
|---|---|---|---|---|
| Nov. 20.27730 | $3^h47^m21^s.19$ | $+35°52'46''.3$ | 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 | $\alpha_{2000}$ | $\delta_{2000}$ | Mag. | *Offset* |
|---|---|---|---|---|---|
| 2005kg | Nov. 17.09 | $21^h11^m39^s.15$ | $-23°10'20''.0$ | 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 IIn (cf. *CBETs* 295, 296, 299).

2005 November 22  *Daniel W. E. Green*