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COMET P/2006 W4 (HILL)

R. E. Hill reports the discovery of a comet in the course of the Catalina Sky Survey (discovery observation below), the object noted as having a tail $\sim 15''$ long to the west-northwest. Following posting on the Minor Planet Center's 'NEOCP' webpage, the object has been found to show cometary appearance by other CCD observers, including G. Hug (Eskridge, KS, 0.7-m reflector, Nov. 23.2 UT; diffuse with a slight coma extension in p.a. $\sim 310^{\circ}$) and P. Birtwhistle (Great Shefford, Berkshire, England, 0.40-m reflector, Nov. 24.0; very concentrated, almost-stellar coma of diameter $6''$ with a tail $\sim 6''$ wide and $30''$ long in p.a. 285°).

2006 UT	α_{2000}	δ_{2000}	Mag.
Nov. 22.33647	$3^{h}11^{m}58^{s}.56$	$+26^{\circ}23'11''.9$	19.3

The available astrometry, the following preliminary elliptical orbital elements, and an ephemeris appear on *MPEC* 2006-W67.

$$\begin{array}{lll} T = 2008\text{ Feb. } 29.798\text{ TT} & \omega = 216^{\circ}.177 & \\ e = 0.29858 & \Omega = 247.097 & \Big\}\, 2000.0 \\ q = 4.54345\text{ AU} & i = 27.277 & \end{array}$$
$$a = 6.47755\text{ AU} \qquad n^{\circ} = 0.059784 \qquad P = 16.5\text{ years}$$

SUPERNOVAE 2006or, 2006os, 2006ot

Three type-Ia supernovae have been found on unfiltered CCD images: 2006or in NGC 3891 by T. Puckett and A. Kroes (cf. *IAUC* 8778), 2006os in UGC 2384 by R. Quimby and F. Castro (cf. *IAUC* 8754), and 2006ot in ESO 544-G31 by N. Joubert and W. Li (LOSS/KAIT; cf. *IAUC* 8771).

SN	2006 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2006or	Nov. 18.41	$11^{h}48^{m}03^{s}.47$	$+30^{\circ}21'24''.0$	16.3	$1''.0$ E, $10''.7$ S
2006os	Nov. 21.18	2 55 01.01	+16 00 34.8	17.2	$6''.2$ E, $10''.4$ S
2006ot	Nov. 22.28	2 15 04.84	–20 45 58.2	17.4	$3''.3$ E, $5''.4$ N

Additional magnitudes for 2006or: 2005 Dec. 3 UT, [19.1; 2006 Nov. 21.40, 16.3. SN 2006or was ≈ 5 days past maximum on Nov. 22.5 (details on *CBET* 750). SN 2006os is near maximum brightness (cf. *CBET* 751). SN 2006ot was not present on a KAIT image taken on Oct. 20.39 (limiting mag 18.5). SN 2006ot is prior to maximum light (details on *CBET* 754).

2006 November 24 *Daniel W. E. Green*