## Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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## COMET C/2007 K6 (McNAUGHT)

R. H. McNaught reports his discovery of another comet on 0.5-m Uppsala Schmidt telescope images obtained in the course of the Siding Spring Survey (discovery observation tabulated below), the object displaying a marginal coma of diameter  $\sim 6''$ . Additional images by McNaught on May 30.8 UT show an almost, but-not-quite-asteroidal appearance in excellent seeing, the coma diameter given as 4'' (FWHM).

2007	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.
May 2	7.79676	$22^{^{\rm h}}50^{^{\rm m}}33\overset{{}_{\circ}}{.}10$	$-42^{\circ}40^{'}59_{.}^{''}9$	18.9

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on MPEC~2007-K82.

## COMET C/2007 K5 (LOVEJOY)

Additional precise astrometry of this comet (cf. IAUC 8840) has been published on MPEC 2007-K80, where the following preliminary parabolic orbital elements also appear:

$$T = 2007 \; \text{Apr. } 26.977 \; \text{TT} \qquad \qquad \omega = 250 \overset{\circ}{.} 115 \\ \Omega = 191.798 \\ i = 65.141 \\ \end{pmatrix} 2000.0$$

## COMET C/2007 JA<sub>21</sub> (LINEAR)

Further to IAUC 8837, J. Young reports that his CCD images taken on May 14.29–14.36 UT with the Table Mountain 0.61-m f/16 Cassegrain reflector show a coma of diameter 5''-6'' that was slightly elongated along the comet's path of motion, with a faint fan-shaped tail extending 20'' spanning p.a.  $315^{\circ}-25^{\circ}$ . Improved orbital elements from MPEC 2007-K78:

$$\begin{array}{lll} T &=& 2006 \ {\rm Nov.} \ 10.980 \ {\rm TT} & & \omega &=& 93 \overset{\circ}{.} 308 \\ \alpha &=& 65.556 \\ q &=& 5.35972 \ {\rm AU} & & i &=& 89.825 \end{array} \bigg\} 2000.0$$