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COMET C/2007 K3 (SIDING SPRING)

An apparently asteroidal object discovered by G. Garradd in the course of the Siding Spring Survey (discovery observation tabulated below) was found by R. H. McNaught on three co-added 0.5-m Uppsala Schmidt telescope images from May 25.35–25.49 UT to show a 6″ coma that is slightly but certainly diffuse.

2007 UT	α_{2000}	δ_{2000}	Mag.
May 23.43266	$11^h45^m57^s.24$	$-17^\circ47'59''.4$	19.0

The available astrometry (including prediscovery Siding Spring observations by McNaught from Apr. 18), the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2007-K56.

$$\begin{array}{lll} T = 2008\ \text{Apr.}\ 21.735\ \text{TT} & \omega = 23^\circ.561 & \\ & \Omega = 263.299 & 2000.0 \\ q = 2.05102\ \text{AU} & i = 16.295 & \end{array}$$

COMET C/2007 K4 (GIBBS)

A. R. Gibbs reports his discovery of a comet on Catalina Sky Survey images taken with the 0.68-m Schmidt telescope (discovery observation tabulated below), the object noted as having a compact 9″ coma and a 15″ tail spanning p.a. 0°–30° on four co-added 30-s unfiltered CCD images taken in good seeing. Following posting on the Minor Planet Center's 'NEOCP' webpage, R. H. McNaught writes that his images of this object with the 0.5-m Uppsala Schmidt telescope on May 25.6 UT show a 10″ coma and a possible tail to the north. Also, R. E. Hill reports that four co-added 30-s Mt. Lemmon images from May 26.35–26.36 show a broad tail $\sim 1'$ long in p.a. 10° and a slight coma $\sim 2''$-$3''$ in diameter.

2007 UT	α_{2000}	δ_{2000}	Mag.
May 25.32443	$16^h56^m28^s.69$	$-4^\circ37'46''.0$	18.2

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2007-K57.

$$\begin{array}{lll} T = 2007\ \text{Nov.}\ 12.567\ \text{TT} & \omega = 211^\circ.884 & \\ & \Omega = 69.590 & 2000.0 \\ q = 2.85465\ \text{AU} & i = 93.350 & \end{array}$$

2007 May 26 *Daniel W. E. Green*