## 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://www.cfa.harvard.edu/iau/cbat.html ISSN 0081-0304 Phone 617-495-7440/7244/7444 (for emergency use only)

## COMET C/2009 O4 (HILL)

R. E. Hill reports his discovery of another comet on CCD images taken with the Catalina 0.68-m Schmidt telescope (discovery observation tabulated below); he notes that four stacked 20-s exposures in 2" seeing show the object to have a bright, nuclear condensation of size  $15'' \times 20''$  that is elongated northwest-southeast, with no coma and a broad, diffuse tail  $\sim$ 2' long in p.a. 300°. After posting on the Minor Planet Center's 'NEOCP' webpage, other cometary astrometrists have noted the object's cometary appearance. Y. Ikari (Moriyama, Shiga-Ken, Japan, 0.26-m reflector, July 30.7 UT) reports coma diameter 0'.3 and a tail 0'.6 long in p.a. 315°. F. Fratev (Zvezdno Obshtestvo Observatory, Plana, Bulgaria, 0.35-m reflector, July 31.0) writes that sixty stacked 40-s unfiltered exposures reveal a coma nearly 28'' in diameter and a tail  $\sim 1'.5$  long in p.a.  $320^{\circ}$ . J. A. Henriquez (Tenerife, Spain, 0.2-m reflector, July 31.1; poor weather conditions) measures an 11" coma and a 14".5 tail in p.a. 317°. J. E. McGaha (Tucson, AZ, U.S.A., 0.36-m reflector, July 31.3) notes that six stacked 60-s images show an 8" bright round come with a fan-shaped tail 35" long at p.a. 315°. W. H. Ryan (Magdalena Ridge 2.4-m reflector, July 31.35-31.38) notes a tail at p.a.  $\sim 290^{\circ}$ . G. Hug (Scranton, KS, U.S.A., 0.56-m reflector, July 31.4) reports a short, broad tail in p.a.  $\sim 310^{\circ}$ .

2009	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.	Observer
July 30	0.37424	$0^{^{\mathrm{h}}}33^{^{\mathrm{m}}}09.91$	$+7^{\circ}38^{'}01^{''}_{.8}$	16.3	Hill

The available astrometry, the following preliminary parabolic orbital elements by B. G. Marsden, and an ephemeris appear on *MPEC* 2009-O56.

$$T = 2009 \; \mathrm{Dec.} \; 1.451 \; \mathrm{TT}$$
  $\qquad \qquad \omega = 210\rlap{.}640 \\ \Omega = 173.459 \\ q = 2.86118 \; \mathrm{AU}$   $\qquad \qquad i = 94.583 \\ \end{pmatrix} 2000.0$ 

## COMETS C/2009 D5 AND C/2009 D6 (SOHO)

Further to IAUC 9058, starlike apparent comets have been found on SOHO website images: C/2009 D5 was a Kreutz object (mag  $\sim$  6.5–7), while Meyer-group member C/2009 D6 was slightly elongated (mag  $\sim$  7).

Comet	2009  UT	$\alpha_{2000}$	$\delta_{2000}$	Inst.	$\mathbf{F}$	MPEC
	Feb. 23.679 24.814					2009-M55 2009-M55