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)
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Phone 617-495-7440/7244/7444 (for emergency use only)

COMET C/2007 H1 (McNAUGHT)

R. H. McNaught reports his discovery of a new comet on CCD images taken with the 0.5-m Uppsala Schmidt telescope in the course of the Siding Spring Survey (discovery observation tabulated below), the object then reported as having a 12″ coma and a 25″ tail in p.a. 250°. Following posting on the Minor Planet Center's 'NEOCP' webpage, several CCD astrometric observers have commented on the cometary appearance of this object. G. Hug (Scranton, KS, 0.30-m Schmidt-Cassegrain reflector) reports that his images from Apr. 18.44 UT show the comet to be slightly diffuse. E. Guido and G. Sostero, remotely using a 0.25-m *f*/3.4 reflector at Mayhill, NM, write that the co-adding of twenty 60-s unfiltered exposures, taken on Apr. 18.46–18.47, reveals the presence of a coma nearly 20″ in diameter and a broad tail nearly 1′ long toward p.a. 250°; co-adding ten 60-s unfiltered exposures taken on Apr. 19.47 shows a coma that is nearly 17″ in diameter (total mag ∼ 16.3) and a tail almost 45″ long toward p.a. 255°. N. Teamo and S. Hönig report that images obtained with a 0.41-m *f*/8 reflector at Punaauia, Tahiti, on Apr. 19.6 show a 14″ coma and a 2′.2 tail in p.a. 252°.

2007 UT	α_{2000}	δ_{2000}	Mag.
Apr. 17.78663	$21^h59^m34^s.74$	$-9°09'15''.9$	16.1

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2007-H32.

$$T = 2007 \text{ June } 15.828 \text{ TT} \qquad \left.\begin{array}{l} \omega = 181°.324 \\ \Omega = 147.663 \\ i = 11.002 \end{array}\right\} 2000.0 \qquad q = 2.61460 \text{ AU}$$

COMET C/2007 E2 (LOVEJOY)

Further visual total-magnitude estimates (cf. *IAUC* 8820): Mar. 24.66 UT, 8.7 (J. Drummond, Gisborne, New Zealand, 8-cm refractor): Apr. 12.17, 7.7 (J. J. Gonzalez, Asturias, Spain, 25×100 binoculars); 16.67, 7.9 (S. Rae, Hamilton, New Zealand, 10×50 binoculars); 18.68, 8.0 (Rae).

COMET 2P/ENCKE

Visual total-magnitude estimates with 25×100 binoculars: Apr. 13.85 UT, 7.7 (J. J. Gonzalez, Asturias, Spain); 14.50, 7.4 (M. Lehký, Bacetin, Czech Republic); 17.85, 6.7 (Gonzalez).

2007 April 20 *Daniel W. E. Green*