Circular No. 9039

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 P/2009 H1 (LINEAR)

E. Guido, G. Sostero, P. Camilleri, and E. Prosperi report their recovery of comet P/2002 LZ_{11} (cf. *IAUC* 8240) on unfiltered CCD exposures taken remotely with a 0.25-m reflector near Mayhill, NM, U.S.A., on Apr. 17; co-added exposures show an extremely compact coma $\sim 12''$ in diameter and a short tail nearly $25''$ long toward the west. Confirming astrometry on Apr. 18 was obtained by the same team remotely with a 0.37-m reflector near Sonoita, AZ, U.S.A.; co-added exposures show a coma about $8''$ in diameter with a faint extension toward the west.

2009 UT	α_{2000}	δ_{2000}	Mag.
Apr. 17.45321	$18^h07^m32^s.66$	$-17°42'44''.3$	18.8
18.37396	18 07 49.24	−17 38 42.0	19.4

The indicated correction to the predictions on *MPC* 59599 and in the *2008/2009 Comet Handbook* is $\Delta T = -0.4$ day. The following orbital elements by B. G. Marsden are from 154 observations spanning 2002 June 5–2009 Apr. 18 (mean residual $0''.7$). Additional astrometry and orbital elements, residuals, and an ephemeris appear on *CBET* 1772.

$$\text{Epoch} = \text{2010 Mar. 25.0 TT}$$

$$\begin{array}{llll} T = \text{2010 Mar. 5.73233 TT} & \omega = 107°.76353 & \\ e = 0.3532609 & \Omega = 231.05130 & \Big\} 2000.0 \\ q = 2.3643294 \text{ AU} & i = 11.52093 & \end{array}$$

$$a = 3.6557699 \text{ AU} \quad n° = 0.14100542 \quad P = 6.990 \text{ years}$$

COMETS C/2008 Y12–Y15 (SOHO)

Further to *IAUC* 9037, additional near-sun presumed comets have been found on SOHO website images. C/2008 Y12 and Kreutz sungrazer C/2008 Y15 were stellar in appearance (mag $\sim$ 7.5). C/2008 Y13, also a Kreutz sungrazer, appeared stellar (mag $\sim$ 7–7.5) in C3 images, but was very diffuse, faint, and slightly elongated in C2 images. C/2008 Y14 was very diffuse (mag $\sim$ 8).

Comet	2008 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2008 Y12	Dec. 22.704	$17^h58^m.6$	$-22°42'$	C2	RK	2009-F17
C/2008 Y13	27.888	18 36.1	−25 38	C3/2	AK	2009-F18
C/2008 Y14	27.896	18 20.0	−22 43	C2	JR	2009-F18
C/2008 Y15	29.821	18 45.1	−25 36	C3	BZ	2009-F18

2009 April 18 *Daniel W. E. Green*