Circular No. 9028

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/2008 CL$_{94}$ (LEMMON)

An apparently asteroidal object discovered last year in the course of the Mt. Lemmon survey (discovery observation tabulated below from *MPS* 237769) was re-discovered with the Mt. Lemmon 1.5-m reflector by S. M. Larson on 2009 Mar. 17.4 UT with an 8″-diameter coma and a 15″ diffuse tail in p.a. 310° in four co-added images (and identified by T. Spahr). Four unfiltered 60-s co-added Mt. Lemmon CCD images taken by A. R. Gibbs on Mar. 18.3 in good seeing show a condensed coma of size 6″ with a broad, 10″ tail in p.a. 315°. Following a request by B. G. Marsden, W. H. Ryan (Magdalena Ridge Observatory 2.4-m f/8.9 reflector) reports that his images from Mar. 18.2–18.4 also show a faint tail in p.a. ≈ 315°.

2008	UT	α_{2000}	δ_{2000}	Mag.
Feb.	8.39714	$11^{\rm h}27^{\rm m}55\overset{\rm s}{.}15$	$+11^\circ47'10\overset{''}{.}0$	20.8

New astrometry, the following elliptical orbital elements, and an ephemeris appear on *MPEC* 2009-F28.

Epoch = 2006 July 4.0 TT

T = 2006 July 9.1877 TT ω = 82.°6364
e = 0.121042 Ω = 33.5426 } 2000.0
q = 5.435878 AU i = 8.3416
a = 6.184456 AU n° = 0.0640843 P = 15.38 years

COMETS C/2008 W6–W10 (SOHO)

Further to *IAUC* 9027, additional Kreutz sungrazers have been found on SOHO website images, with their "discovery" observations tabulated below. C/2008 W6 was small and slightly diffuse (mag ∼ 7.5). C/2008 W7 was stellar in appearance (mag ∼ 7–7.5) in C3 images, and slightly diffuse with a faint, diffuse tail in C2 images. C/2008 W8 was tiny and stellar in appearance (mag ∼ 7.5). C/2008 W9 was diffuse (mag ∼ 7.5). C/2008 W10 was slightly diffuse (mag ∼ 7.5–8).

Comet	2008	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2008 W6	Nov.	24.504	$16^{\rm h}00^{\rm m}.5$	$-22^\circ24'$	C2	ZJ	2009-C56
C/2008 W7		24.779	15 58.1	−23 38	C3/2	JR	2009-C56
C/2008 W8		26.564	16 09.6	−22 47	C2	EB	2009-C57
C/2008 W9		27.629	16 13.7	−22 59	C2	RK	2009-C57
C/2008 W10		28.146	16 16.2	−23 03	C2	JR	2009-C57

2009 March 18 *Daniel W. E. Green*