

**Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION**

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COMET C/2010 B1 (CARDINAL)

As first announced on *CBET* 2141, an apparently asteroidal object discovered by R. D. Cardinal (Rothney Astrophysical Observatory, University of Calgary, 0.50-m *f*/1.0 reflector; discovery observation tabulated below), and placed on the ‘NEO Confirmation Page’, has been reported as cometary by several CCD astrometrists. Y. Ikari (Moriyama, Shiga-Ken, Japan, 0.26-m reflector) notes that some of his exposures on Jan. 22.6 UT showed a coma of diameter 0'.2. D. Chestnov, Moscow, writes that three stacked 300-s unfiltered exposures on Jan. 22.8 by T. Kryachko (Engelhardt Observatory, Zelenchukskaya Station, 0.3-m reflector) showed that the object appeared “softer” than the surrounding stars, having a 0'.1–0'.2 coma with a strong condensation but no tail. J. M. Aymami (Tiana, Spain, 0.25-m reflector) remarks that 39 co-added images totaling 3900 seconds, taken around Jan. 22.9, showed a compact-but-nebulous object displaying what seemed to be a faint coma measuring 7".5.

2010	UT	α_{2000}	δ_{2000}	Mag.	Observer
Jan. 19.22247		8 ^h 12 ^m 28 ^s .90	+73°42'01".1	17.7	Cardinal

The following parabolic orbital elements from *MPEC* 2010-B54 are from observations spanning Jan. 19–26:

$$\left. \begin{array}{ll} T = 2011 \text{ Feb. } 6.807 \text{ TT} & \omega = 211.674 \\ & \Omega = 277.262 \\ q = 2.93361 \text{ AU} & i = 101.937 \end{array} \right\} 2000.0$$

COMETS C/2009 M6, C/2009 M7, C/2009 M8, C/2009 N1 (SOHO)

Additional presumed comets have been found on SOHO website images — Kreutz sungrazers except for C/2009 M8 and C/2009 N1 (non-group). C/2009 M6 was very faint (mag ~ 8.5) and slightly diffuse. C/2009 M7 was diffuse (mag ~ 8). C/2008 M8 was appeared stellar, appearing quite bright (mag ~ 6.5 –7) but fading fast in C2 images. C/2009 N1 was slightly diffuse (mag ~ 7) in C3 images, and a faint, diffuse streak in C2 images.

Comet	2009	UT	α_{2000}	δ_{2000}	Inst.	F	<i>MPEC</i>
C/2009 M6	June	25.604	6 ^h 09 ^m .9	+21°52'	C2	MU	2009-P02
C/2009 M7		26.908	6 15.3	+21 48	C2	BZ	2009-P20
C/2009 M8		30.071	6 32.4	+25 58	C3/2	RK	2009-P20
C/2009 N1	July	2.596	6 42.8	+26 41	C3/2	BZ	2009-P20