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COMETS C/2009 A8–A10 AND C/2009 O1 (STEREO)

Further to *IAUC* 9054, additional Kreutz sungrazers have been found on STEREO spacecraft images (CO = COR2-A and COR2-B). K. Battams, Naval Research Laboratory, notes that the three January comets were all small, faint, and slightly diffuse (mag around 11–12). C/2009 O1, which may have been around mag 6 or 6.5, appeared as a somewhat-long thin streak with no discernable head or coma in COR2-A images; in COR2-B images, the comet appeared much more condensed (possibly slightly diffuse and with a hint of a barely detectable tail).

Comet	2009 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2009 A8	Jan. 4.544	$22^h19^m.2$	$-13^\circ58'$	H1A	AW	2009-O25
C/2009 A9	10.600	22 44.7	−11 41	H1A	RM	2009-O25
C/2009 A10	10.794	22 43.2	−11 26	H1A	AW	2009-O25
C/2009 O1	July 18.870	11 12.2	+ 2 32	CO	MK	2009-O25

COMET C/2009 O2 (CATALINA)

An apparently asteroidal comet discovered in the course of the Catalina Sky Survey (discovery observation tabulated below), and posted on the Minor Planet Center's 'NEOCP' webpage, has been found by other CCD astrometrists to show cometary appearance. J. V. Scotti, Lunar and Planetary Laboratory, writes that images taken on July 30.2 UT with the Kitt Peak 1.8-m $f/2.7$ reflector shows the object to be slightly diffuse with an $8''$ coma and a faint tail $0'.35$ long in p.a. 155°. W. H. Ryan reports that his images from July 30.35–30.37 with the 2.4-m $f/8.9$ reflector at Magdalena Ridge Observatory show a coma and a very faint tail in p.a. $\sim 135°$.

2009 UT	α_{2000}	δ_{2000}	Mag.
July 27.29859	$20^h44^m36^s.52$	$-11^\circ30'35''.0$	19.5

The available astrometry, the following preliminary parabolic orbital elements by B. G. Marsden, and an ephemeris appear on *MPEC* 2009-O53.

$$T = 2010\ \text{Mar.}\ 24.656\ \text{TT} \qquad \left.\begin{array}{l}\omega = 133^\circ.010 \\ \Omega = 310.266 \\ i = 108.284\end{array}\right\}2000.0 \qquad q = 0.70282\ \text{AU}$$

 Daniel W. E. Green