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COMET C/2009 G1 (STEREO)

Further to *IAUC* 9032, K. Battams reports that a slightly diffuse comet of mag ~ 10–11 with no apparent tail (discovery observation tabulated below) has been found on SECCHI HI-1B images (cf. *IAUC* 8930, 8955).

Comet	2009	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2009 G1	Apr.	3.572	$21^h03^m.2$	$-\ 6^\circ25'$	HI*	JR	2009-G30

The reduced astrometry by B. G. Marsden, together with the following preliminary parabolic orbital elements (from 36 observations, Apr. 3–6) and an ephemeris, appear on *MPEC* 2009-G30.

$$T = 2009\ \text{Apr.}\ 12.635\ \text{TT} \qquad \omega = 170^\circ.978$$
$$\left.\begin{array}{l} \omega = 170^\circ.978 \\ \Omega = 120.785 \\ i = 107.788 \end{array}\right\} 2000.0$$
$$q = 1.13701\ \text{AU}$$

The following geocentric ephemeris assumes $H_{10} = 9.0$.

2009 TT	α_{2000}	δ_{2000}	Δ	r	ϵ	β	Mag.
Apr. 9	$22^h32^m.70$	$-\ 0^\circ09'.4$	1.704	1.139	$40^\circ.1$	$34^\circ.5$	10.7
11	22 36.03	− 1 15.1	1.674	1.137	41.5	35.7	10.7
13	22 39.45	− 2 23.3	1.644	1.137	42.9	36.9	10.6
15	22 42.97	− 3 34.1	1.614	1.138	44.3	38.0	10.6
17	22 46.61	− 4 47.9	1.583	1.139	45.8	39.2	10.6
19	22 50.36	− 6 04.7	1.551	1.142	47.3	40.3	10.5

COMETS C/2008 Y6–Y9 (SOHO)

Additional Kreutz sungrazers were found on SOHO website images (cf. *IAUC* 9032). C/2008 Y6 (mag ~ 6.5–7), C/2008 Y7 (mag ~ 6–6.5), and C/2008 Y8 mag ~ 7–7.5) were small and stellar in appearance in C3 images; C2 images showed C/2008 Y6 and C/2008 Y8 as slightly diffuse, and C/2008 Y7 as teardrop-shaped, with C/2008 Y6 and C/2008 Y7 each showing a short, faint tail. C/2008 Y9 was faint (mag ~ 8) and diffuse.

Comet	2008	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2008 Y6	Dec.	21.138	$18^h04^m.5$	$-27^\circ12'$	C3/2	MU	2009-E63
C/2008 Y7		21.154	18 04.7	−27 19	C3/2	MU	2009-E63
C/2008 Y8		21.571	18 05.8	−25 52	C3/2	MK	2009-E63
C/2008 Y9		21.588	18 04.6	−25 12	C2	MK	2009-E63

2009 April 9 *Daniel W. E. Green*