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COMET C/2009 T1 (McNAUGHT)

R. H. McNaught reports his discovery of a comet with a diffuse 14″ coma and a diffuse 0′.6 tail in p.a. 145° on CCD images taken with the 0.5-m Uppsala Schmidt telescope (discovery observation tabulated below). After posting on the Minor Planet Center's 'NEOCP' webpage, other CCD astrometrists also have commented on the object's cometary appearance. A. C. Gilmore and P. M. Kilmartin (Mt. John 1.0-m reflector, Oct. 10.7 UT) note a 30″ tail in p.a. 140°. R. Ligustri, Udine, Italy, reports that his co-added images (taken remotely with an RAS Observatory 0.40-m reflector near Moorook, Australia; Oct. 10.7) show a coma of diameter ~ 12″ and a thin 20″ tail in p.a. 167°. D. Chestnov, Moscow, writes that his images (taken remotely with a 0.15-m refractor at the Tzec Maun Observatory, near Pingelly, W. Australia; Oct. 10.7) show a small 10″ coma with a short tail in p.a. 185° and a nuclear condensation elongated in p.a. 140°. C. Jacques and E. Pimentel (Belo Horizonte, MG, Brazil, 0.30-m reflector, Oct. 11.3) find an 18″ coma in fifty 30-s stacked exposures.

2009 UT	α_{2000}	δ_{2000}	Mag.	*Observer*
Oct. 9.74900	$6^h11^m14^s.33$	$-58°50'27''.8$	17.8	McNaught

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2009-T36.

$$
\begin{array}{lll}
T = 2010\ \text{Mar.}\ 25.069\ \text{TT} & \omega = 300^\circ.574 & \\
 & \Omega = 59.778 & 2000.0 \\
q = 5.56975\ \text{AU} & i = 88.081 &
\end{array}
$$

COMETS C/2009 G7, C/2009 G8, C/2009 H3 (SOHO)

Further to *IAUC* 9079, additional presumed comet have been found on SOHO website images. K. Battams reports that C/2009 G7, a Kreutz sungrazer, was stellar in appearance and tiny (mag ~ 7) in C3 images, and small and condensed in C2 images. C/2009 G8, a non-group comet, was slightly diffuse and elongated (mag ~ 7–7.5). C/2009 H3, also a Kreutz sungrazer, was diffuse and elongated (mag ~ 8).

Comet	2009 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2009 G7	Apr. 13.488	$1^h44^m.8$	$+ 6°34'$	C3/2	AK	2009-N33
C/2009 G8	13.963	1 33.2	+11 20	C2	BZ	2009-N33
C/2009 H3	18.504	1 51.9	+ 9 46	C2	MK	2009-N33

2009 October 11 *Daniel W. E. Green*