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COMET C/2006 G1 (McNAUGHT)

R. H. McNaught reports his discovery of a comet with a coma diameter of $\sim 10''$ on CCD images taken with the 0.5-m Uppsala Schmidt telescope in poor, variable seeing conditions (discovery observation below). Follow-up observations by McNaught on Apr. 6.6–6.7 UT showed a faint, diffuse tail $\sim 8''$ long in p.a. $\sim 300°$.

2006 UT	α_{2000}	δ_{2000}	Mag.
Apr. 5.69705	$14^h31^m48^s.10$	$-42°58'12''.3$	18.0

The available astrometry, the following very preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2006-G27. It is likely that this comet is of short period.

$$T = 2006\ \text{Oct. } 10.798\ \text{TT} \qquad \omega = 17^\circ.146$$
$$\Omega = 283.217 \quad \text{(2000.0)}$$
$$q = 1.59344\ \text{AU} \qquad i = 20.334$$

SUPERNOVAE 2006bm, 2006bn, 2006bo

Three additional apparent supernova have been reported from unfiltered CCD images: 2006bm by T. Puckett and G. Sostero (0.60-m reflector at Ellijay, GA; cf. *IAUC* 8693), 2006bn by L. A. G. Monard (cf. *IAUC* 8697), and 2006bo by T. Boles (cf. *IAUC* 8698).

SN	2006 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2006bm	Apr. 5.195	$11^h18^m21^s.41$	$+28°12'43''.5$	18.1	$4''.1$ W, $10''.5$ N
2006bn	Apr. 5.087	20 00 15.75	–38 34 18.3	18.4	$42''$ E, $24''$ N
2006bo	Apr. 5.148	20 30 41.90	+ 9 11 40.8	17.6	$12''$ W, $14''$ N

Additional magnitudes for 2006bm: 2005 Sept. 10 UT, [19.4; 2006 Apr. 6.125, 17.9. Additional magnitudes for 2006bn in IC 4926: 2005 Sept. 21.25, [19.0; 2006 Apr. 6.094, 18.4 ± 0.3; 7.111, 18.6 ± 0.2. Nothing is visible at the location of 2006bn on the Digitized Sky Survey (limiting red mag 20.5). Additional magnitudes for 2006bo in UGC 11578: 2005 Oct. 9 and Nov. 28, [19.5 (Boles); 2006 Apr. 7.137, 17.1 (Monard); 7.151, 17.6 (Boles). Monard's image yields position end figures $41^s.95$, $40''.8$ for 2006bo. Nothing is visible at the location of 2006bo on Digitized Sky Survey plates from 1990 Aug. 20 (limiting red mag 20.5) and 1998 June 15 (limiting blue mag 21.0).

2006 April 7 *Daniel W. E. Green*