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SUPERNOVA 2005L IN MCG +07-33-5

T. Boles, Coddenham, Suffolk, England, reports the discovery of an apparent supernova (mag 18.2) on unfiltered CCD images taken on Jan. 15.141 and 19.073 UT with a 0.35-m reflector. The new object is located at $\alpha = 15^{h}53^{m}25^{s}.92$, $\delta = +39^{\circ}23'08''.1$, which is $\approx 5''.1$ east and $2''.7$ south of the center of MCG +07-33-5. Nothing is present at this position on Boles' images from 2004 June 5 and Sept. 5 (limiting mag 19.5) or on Digitized Sky Survey plates from 1991 (limiting red mag 21.0) and 1988 (limiting blue mag 20.5).

COMETS C/2004 X10, X11, Y2, Y3, Y4 (SOHO)

Further to *IAUC* 8466, following are the initial observations of additional comets found on SOHO website images (GG = G. Gallina; HO = H. Otterstedt); all are Kreutz sungrazers except for C/2004 Y4, which has no known group membership and reached mag 5–6 on Dec. 26 (but showed no tail).

Comet	2004 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2004 X10	Dec. 13.292	$17^{h}27^{m}.9$	$-25^{\circ}05'$	C2	KB	2005-A41
C/2004 X11	13.883	17 30.1	−25 03	C2	GG	2005-A41
C/2004 Y2	18.975	17 53.7	−25 18	C2	HS	2005-A41
C/2004 Y3	24.279	18 22.1	−28 37	C3	TS	2005-A41
C/2004 Y4	24.679	18 14.6	−17 32	C3	HO	2005-A41

COMET C/2005 B1 = 2004 FS_{101} (CHRISTENSEN)

An object reported as asteroidal by LINEAR (2004 Mar. 23) and by Spacewatch (2004 Mar. 18 and 26), and published as 2004 FS_{101} (*MPS* 104028, 110712; initial orbit on *MPEC* 2004-O45 and *MPO* 66351) has been identified with C/2005 B1. The following revised orbital elements are taken from *MPEC* 2005-B25:

$$\text{Epoch} = \text{2006 Mar. 6.0 TT}$$

$$\begin{array}{lll} T = \text{2006 Feb. 23.4751 TT} & \omega = 103^{\circ}.1841 & \\ e = 1.000709 & \Omega = 195.5570 & \} 2000.0 \\ q = 3.204423\ \text{AU} & i = 92.5535 & \end{array}$$

2005 January 19 *Daniel W. E. Green*