Circular No. 8530

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SUPERNOVA 2005ca AND 2005cb

Further to *IAUC* 8513, M. SubbaRao, University of Chicago and Adler Planetarium, on behalf of the SDSS Collaboration, reports the discovery of a supernova in spectra taken on May 12.19 UT. SN 2005ca is located at $\alpha = 13^h32^m38^s.59$, $\delta = +11^\circ48'33''.2$ (equinox 2000.0), which is coincident with the center of the host galaxy whose redshift is $z = 0.150$. The new object appears to be a type-Ia supernova with an approximate age of 8 $\pm$ 5 days after maximum light, and its estimated magnitude is $r = 20.9 \pm 0.2$ (the host galaxy has apparent mag $r = 17.85$ from an image taken prior to the supernova event on 2003 Mar. 31).

Further to *IAUC* 8499, C. Jacques reports the discovery of an apparent supernova (mag 15.6) by C. Colesanti, E. Pimentel, T. Napoleao and himself on unfiltered CCD images taken in the course of the Brazilian Supernovae Search on May 13.22 and 16.12 UT. SN 2005cb is located at $\alpha = 19^h11^m21^s.95$, $\delta = -57^\circ02'27''.4$ (equinox 2000.0), which is 16$''$ west and 19$''$ north of the center of NGC 6753. Nothing in visible at this location on a CCD image taken on May 2.23 (limiting mag 18.5); a faint H II region is very close to the supernova position on that image and on a red Palomar Sky Survey image from 1976.

COMETS C/2005 F5 AND C/2005 G3–G6 (SOHO)

Following are the initial available positions for additional Kreutz sungrazing comets found on SOHO website images (continuation to *IAUC* 8529; CL = C. Liang), with the following notes by K. Battams (as usual). C/2005 F5 was too diffuse to discern any tail; it reached mag $\sim$ 7.0 at $7.3R_\odot$ (Mar. 28.692). C/2005 G3 was stellar in appearance with no tail in the C3 images, reaching mag 6.2 at $9.4R_\odot$ (Apr. 4.279); C2 images showed a very short tail. C/2005 G4 was tiny and stellar in appearance, reaching roughly mag 7.5. C/2005 G5 and G6 showed no tail and were too diffuse for accurate photometry (though peak brightness was around mag 7).

Comet	2005	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2005 F5	Mar.	28.692	$0^h37^m.9$	$+ 2^\circ42'$	C2	BZ	2005-J25
C/2005 G3	Apr.	3.904	1 07.5	+ 3 29	C3/2	XL	2005-J25
C/2005 G4		8.160	1 15.4	+ 6 20	C2	HS	2005-J25
C/2005 G5		9.935	1 22.8	+ 7 09	C2	CL	2005-J25
C/2005 G6		11.685	1 29.7	+ 7 44	C2	BZ	2005-J25

2005 May 16 *Daniel W. E. Green*