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SUPERNOVA 2005cm IN IC 5142

Further to *IAUC* 8541, L. A. G. Monard reports his discovery of an apparent supernova on unfiltered images taken on June 20.124 (at mag ~ 16.9) and 20.779 UT (mag ~ 16.8). SN 2005cm is located at $\alpha = 21^{\text{h}}55^{\text{m}}17^{\text{s}}.72$, $\delta = -65^{\circ}30'48''.3$ (equinox 2000.0), which is $16''$ west and $13''$ south of the nucleus of IC 5142. Nothing is visible at this location on an image taken by Monard on June 5.085 (limiting red mag 18.5) or on an image of the Digitized Sky Survey (limiting red mag 20.5).

COMETS C/2005 H4–H9 (SOHO)

Following are the initial available positions for additional comets found on SOHO website images (continuation to *IAUC* 8547); all are Kreutz sun-grazers except for C/2005 H7 (no known group membership) and C/2005 H9 (Meyer group). K. Battams notes that C/2005 H4 was faint and diffuse (yielding only five images due to data gaps), peaking in brightness at mag ~ 8.1 at $6.4R_{\odot}$ (Apr. 21.993 UT). C/2005 H5 had a diffuse ‘teardrop’ shape, reaching mag ~ 7.2 at $6.8R_{\odot}$ (Apr. 24.851). C/2005 H6 was very faint and elongated; it reached mag ~ 8.1 at $5.5R_{\odot}$ (Apr. 25.129). C/2005 H7 was very small (one or two pixels in size) and stellar, reaching mag ~ 7.4 at $6.2R_{\odot}$ (Apr. 25.226). C/2005 H8 was very small and diffuse, reaching mag ~ 7.9 at $6.2R_{\odot}$ (Apr. 26.268). C/2005 H9 was diffuse and elongated, measuring $\sim 34''$ in length when it reached peak brightness at mag ~ 7.4 (at $7.0R_{\odot}$) on Apr. 29.018.

Comet	2005 UT	α_{2000}	δ_{2000}	Inst.	F	MPEC
C/2005 H4	Apr. 21.976	$2^{\text{h}}05^{\text{m}}.8$	$+11^{\circ}13'$	C2	CL	2005-K44
C/2005 H5	24.826	2 17.1	+12 07	C2	TH	2005-K44
C/2005 H6	25.101	2 14.7	+11 51	C2	RK	2005-K44
C/2005 H7	25.201	2 04.8	+13 00	C2	RK	2005-K44
C/2005 H8	26.226	2 21.7	+12 28	C2	BZ	2005-K44
C/2005 H9	28.811	2 30.3	+15 26	C2	BZ	2005-M14

COMET C/2005 K2 (LINEAR)

J. A. Farrell, Jamez Springs, NM, reports the following separations (and 1σ errors), all in p.a. $47^{\circ}.4$, of the secondary component to the main nuclear condensation of this comet (cf. *IAUC* 8543, 8545) from CCD images taken with a 0.4-m reflector: June 13.17 UT, $38''.1 \pm 0''.7$; 14.17, $40''.0 \pm 0''.4$; 17.16, $43''.1 \pm 0''.8$.