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SUPERNOVAE 2005gk AND 2005gl

Further to *IAUC* 8610, T. Puckett reports the discovery of two apparent supernovae on unfiltered CCD frames taken with the 0.60-m automated supernova patrol telescope — 2005gk in collaboration with D. George and 2005gl with P. Ceravolo.

SN	2005 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2005gk	Oct. 4.31	$3^h08^m16^s.05$	$-4°12'00''.2$	18.5	$5''.5$ E, $3''.5$ N
2005gl	Oct. 5.18	0 49 50.02	+32 16 56.8	18.2	$29''.8$ E, $16''.7$ N

S. Nakano, Sumoto, Japan, reports the indepedent discovery of 2005gl by Y. Sano (Nayoro, Hokkaido) on thirty unfiltered CCD frames taken around Oct. 12.57 UT with a 0.28-m $f/6.1$ Schmidt-Cassegrain reflector, providing position end figures $50^s.11$, $55''.9$. Nakano adds that Y. Kushida (Yatsugatake South Base Observatory, 0.40-m $f/10.0$ Schmidt-Cassegrain reflector + unfiltered CCD) provides position end figures $50^s.12$, $56''.1$ for 2005gl from an exposure taken by R. Kushida. Additional approximate CCD magnitudes: SN 2005gk, 2004 Oct. 13 and 27, [20.0 (Puckett); 2005 Oct. 9.19, 18.5 (Puckett). SN 2005gl in NGC 266, Sept. 3 and 10, [20.0 (Puckett); Oct. 5, [18 (Sano); 12.14, 16.8 (D. George, Ottawa, ON, 0.40-m reflector; via Puckett); 12.57, 16.7 (Sano); 12.632, 17.0 (Kushida).

M. Ganeshalingam, M. R. Moore, and A. V. Filippenko, University of California, Berkeley, report that inspection of CCD spectra (range 330–1000 nm), obtained on Oct. 11 UT with the Shane 3-m telescope at Lick Observatory, shows that SN 2005gk is of type II. The P-Cyg profile of the broad Hα line is dominated by the emission component.

COMETS C/2005 P4, 2005 P5, 2005 P6, 2005 Q5 (SOHO)

The following four tailless Kreutz-sungrazing comets, found on SOHO website images (cf. *IAUC* 8604), were all stellar in appearance. C/2005 P4 reached mag 7.6 at $12.2R_\odot$ on Aug. 11.611 UT. C/2005 P5 reached mag ~ 8 at $\sim 11R_\odot$. C/2005 P6 reached mag 7.7 at $11.9R_\odot$ on Aug. 14.321. C/2005 Q5 reached mag 7.3 at $10.8R_\odot$ on Aug. 18.321.

Comet	2005 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2005 P4	Aug. 11.071	$9^h01^m.4$	$+13°35'$	C3	TH	2005-T55
C/2005 P5	12.638	9 09.7	+13 49	C3	HS	2005-T55
C/2005 P6	14.029	9 16.2	+13 08	C3	HS	2005-T55
C/2005 Q5	17.821	9 27.6	+12 00	C3	SF	2005-T55

2005 October 12 *Daniel W. E. Green*