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INTERNATIONAL ASTRONOMICAL UNION**

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URL <http://cfa-www.harvard.edu/iau/cbat.html> ISSN 0081-0304
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COMET P/2005 JY₁₂₆ (CATALINA)

Rik Hill reports his discovery of a comet on exposures taken on June 7.32 UT with the 0.68-m Schmidt telescope in the course of the Catalina Sky Survey, noting the object to be less distinct than surrounding stars and elongated along a northeast-southwest axis. C. W. Hergenrother, Lunar and Planetary Laboratory, writes that a co-added 1200-s *R*-band exposure with the University of Arizona 1.54-m Kuiper telescope shows the object to have a condensed, circular 15'' coma and a thin, faint tail 35'' long in p.a. 65°. The observations were linked by the Minor Planet Center to the apparently asteroidal object 2005 JY₁₂₆, a Catalina discovery published on *MPS* 134992 (discovery observation given below).

2005 UT	α_{2000}	δ_{2000}	Mag.
May 12.31877	16 ^h 13 ^m 28 ^s .16	-4°55'13''.7	17.4

Additional astrometry (including predisccovery observations), the following orbital elements, and an ephemeris appear on *MPEC* 2005-L36.

$T = 2006 \text{ Feb. } 21.1195 \text{ TT}$	$\omega = 117.5648$	}	2000.0
$e = 0.433597$	$\Omega = 207.9705$		
$q = 2.125789 \text{ AU}$	$i = 20.2256$		
$a = 3.753138 \text{ AU}$	$n^\circ = 0.1355540$	$P = 7.271 \text{ years}$	

SUPERNOVA 2005cg

E. S. Rykoff, University of Michigan, on behalf of the ROTSE collaboration, reports the discovery of a supernova in unfiltered CCD images taken on June 2.04 (at mag ~ 18.2) and 3.03 UT (mag ~ 17.7) with the 0.45-m ROTSE-IIIc telescope at the 'High-Energy Stereoscopic Systems' site in Namibia. SN 2005cg is located at $\alpha = 21^{\text{h}}10^{\text{m}}50^{\text{s}}.42$, $\delta = +0^\circ12'07''.4$ (equinox 2000.0), which is 0''.7 north and 0''.4 west of the core of the apparent host galaxy (which the Sloan Digital Sky Survey gives as mag $g' = 19.7$); nothing is visible at this location on ROTSE-IIIc images taken on May 7.14 (limiting mag ~ 18.4). R. Quimby, University of Texas, adds that a spectrum (range 420–890 nm), obtained on June 3.40 with the 9.2-m Hobby-Eberly Telescope (+ Marcario Low-Resolution Spectrograph) under very poor conditions by M. Shetrone and S. Rostopchin, shows SN 2005cg to be a type-Ia supernova. Taking narrow emission lines at 677 and 501 nm to be H α and H β from the host galaxy gives a redshift of 9290 km/s (yielding an absolute magnitude of -15.9 for the host galaxy).