Circular No. 8579

Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION
Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
CBAT@CFA.HARVARD.EDU (science)
URL `http://cfa-www.harvard.edu/iau/cbat.html` ISSN 0081-0304
Phone 617-495-7440/7244/7444 (for emergency use only)

COMET C/2005 O2 (CHRISTENSEN)

E. J. Christensen, Lunar and Planetary Laboratory, reports the discovery of a comet (discovery observation below) in the course of the Siding Spring Survey, the new object showing a round coma $\sim 7''$ in diameter with a slight extension in p.a. $\sim 270^{\circ}$, on images taken with the 0.5-m Uppsala Schmidt telescope.

2005 UT	α_{2000}	δ_{2000}	Mag.
July 31.75168	$3^{h}34^{m}52^{s}.50$	$-11^{\circ}47'14''.3$	18.2

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2005-P21.

$$T = 2005 \text{ Sept.}29.550 \text{ TT} \qquad \left.\begin{aligned}\omega &= 268^{\circ}.221\\ \Omega &= 280.295\\ i &= 148.773\end{aligned}\right\}2000.0$$
$$q = 3.34281 \text{ AU}$$

SUPERNOVA 2005cz IN NGC 4589

D. C. Leonard, California Institute of Technology, reports that a CCD spectrum (range 340–900 nm) of SN 2005cz (*IAUC* 8569), obtained on July 28 UT with the Keck I 10-m telescope (+ LRISp), shows it to be a type-Ib supernova, $\sim$ 1–2 weeks after maximum light. Although somewhat contaminated by host-galaxy light, the spectrum is quite similar to SN 1998dt at 8 days past maximum (see Matheson *et al.* 2001, *A.J.* **121**, 1648).

V5116 SAGITTARII

R. W. Russell, D. K. Lynch, and R. J. Rudy, The Aerospace Corporation, report 0.8–2.5-μm spectroscopy of V5116 Sgr on July 15 UT using SpeX at the Infrared Telescope Facility. The nova showed emission lines of H I, He I, C I, N I, Ca II, and O I with FWHM $\sim$ 2200 km/s. P-Cyg profiles were observed on the He I lines at 1.0830 and 2.0581 μm. There was no evidence of thermal emission from dust.

Additional visual magnitude estimates (cf. *IAUC* 8561): July 9.892 UT, 9.4 (A. Kammerer, Malsch, Germany); 12.93, 9.3 (J. Carvajal, Madrid, Spain); 30.91, 10.6 (J. G. de S. Aguiar, Campinas, Brazil).

2005 August 3 © Copyright 2005 CBAT *Daniel W. E. Green*