

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/2006 R1 (SIDING SPRING)

R. H. McNaught reports the discovery of a comet (discovery observation tabulated below) on images taken by D. M. Burton with the 0.5-m Uppsala Schmidt telescope in the course of the Siding Spring Survey, the object reported as slightly diffuse with an apparent 10'' coma. Additional images taken on Sept. 2.55 UT show the object to show a consistent 'softness' and be noticeably larger than stars of similar brightness. McNaught adds that an image taken by Burton on Sept. 2.725 shows the object to be "barely, but certainly, diffuse in images taken after moonset".

2006 UT	α_{2000}	δ_{2000}	Mag.
Sept.1.49494	22 ^h 51 ^m 49. ^s 46	-53°09'50.0''	17.7

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2006-R08.

$$\left. \begin{array}{l} T = 2006 \text{ Sept. } 3.244 \text{ TT} \\ q = 1.69969 \text{ AU} \end{array} \right\} \begin{array}{l} \omega = 251.186 \\ \Omega = 220.610 \\ i = 159.844 \end{array} \Bigg\} 2000.0$$

SUPERNOVAE 2006ep, 2006eq, 2006er

Several new apparent supernovae have been reported: 2006ep independently on unfiltered CCD images by N. Joubert and W. Li (LOSS/KAIT; cf. *IAUC* 8741; tabulated data below from KAIT) and by K. Itagaki (cf. *IAUC* 8711; via S. Nakano, Sumoto, Japan); and 2006eq and 2006er on *g*-, *r*-, and *i*-band images by J. Frieman (on behalf of the Sloan Digital Sky Survey II collaboration; details given on *CBET* 611; approximate *g* magnitudes tabulated below).

SN	2006 UT	α_{2000}	δ_{2000}	Mag.	Offset
2006ep	Aug. 30.35	0 ^h 41 ^m 24. ^s 88	+25°29'46.7''	17.8	43'' W, 11''3 S
2006eq	Aug. 26	21 28 37.13	+ 1 13 41.2	18.7	7'' W, 7'' S
2006er	Aug. 26	0 21 37.54	- 1 00 35.9	19.5	5'' W, 2'' N

Additional magnitudes for 2006ep in NGC 214: Aug. 21.6 UT, [19 (Itagaki); 25.37, [19.2 (KAIT); 26.64, [19 (Itagaki); 30.637, 18.1 (Itagaki); 31.60, 17.8 (Itagaki). Itagaki's position end figures for 2006ep are 24^s88, 46''5. SN 2006ep is a type-Ib/c supernova (cf. *CBET* 612, 614), now near maximum. SN 2006eq is of type Ia, now within a week after maximum (cf. *CBET* 612).