

**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 Y2 (GIBBS)

A. R. Gibbs reports his discovery of a comet in the course of the Catalina Sky Survey (discovery observation tabulated below), noting that a picture from four co-added 30-s unfiltered CCD images taken with the Catalina 0.68-m Schmidt telescope on Dec. 26.5 UT shows a compact coma (stellar in appearance) with a narrow tail 12'' long in p.a. 280°; a co-added image from four 90-s co-added frames taken by Gibbs on Dec. 27.5 shows a dense coma of size 11'' × 8'', elongated in the direction of tail, which itself was still narrow and extending 70'' in p.a. 290°. Following posting on the Minor Planet Center's 'NEOCP' webpage, M. Tichý and J. Tichá write that their CCD images taken with the 1.06-m telescope at Kletř on Dec. 27.1 and 28.1 show the comet to be diffuse. K. Sárneczky reports that a co-added image (total exposure 720 s) taken with the Konkoly Observatory 0.60-m Schmidt telescope on Dec. 27.2 shows a 16'' tail in p.a. 280°.

2006 UT	α_{2000}	δ_{2000}	Mag.
Dec. 26.48652	12 ^h 46 ^m 26 ^s .25	+4°26'08''.9	18.2

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2006-Y56. It is quite likely that this comet has an orbit of short period.

$$\left. \begin{array}{l} T = 2006 \text{ Dec. } 30.971 \text{ TT} \\ q = 1.36081 \text{ AU} \end{array} \right\} \begin{array}{l} \omega = 27.858 \\ \Omega = 119.437 \\ i = 16.188 \end{array} \text{ } 2000.0$$

COMETS C/2006 U12 AND C/2006 U13 (SOHO)

Additional Kreutz sungrazing comets have been found on SOHO website images (cf. *IAUC* 8786). K. Battams notes that C/2006 U12 was diffuse, small, and faint (reaching mag 7.5). C/2006 U13 was tiny, very faint, and slightly diffuse with no tail.

Comet	2006 UT	α_{2000}	δ_{2000}	Inst.	F	<i>MPEC</i>
C/2006 U12	Oct. 24.413	13 ^h 49 ^m .0	-12°51'	C2	TC	2006-X26
C/2006 U13	25.381	13 52.9	-13 14	C2	HS	2006-X26