

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://www.cfa.harvard.edu/iau/cbat.html> ISSN 0081-0304

Phone 617-495-7440/7244/7444 (for emergency use only)

COMET 133P/ELST-PIZARRO

D. Jewitt, P. Lacerda, and N. Peixinho, University of Hawaii, report that comet 133P/Elst-Pizarro = minor planet (7968) Elst-Pizarro has become active after a long period of quiescence. Optical observations with the University of Hawaii 2.2-m telescope on June 11 UT show a straight tail at least 20'' long in p.a. 256°. The apparent red magnitude within an aperture 8'' in projected diameter is ≈ 19.5 . Activity in 133P was last observed in 2002 December. The re-emergence of activity near perihelion ($T = 2007$ June 29.3 TT; e.g., Nakano 2007, *ICQ 2007 Comet Handbook*) is consistent with the identification of this object as an ice-bearing minor planet or "main-belt comet" (Hsieh *et al.* 2004, *A.J.* 127, 2997). Further observations to characterize the evolution of the mass loss in the coming months are encouraged.

COMETS C/2007 F2-F5, C/2007 G2, C/2007 H4-H9 (SOHO)

Additional near-sun comets (cf. *IAUC* 8846) have been found on SOHO website images — all being Kreutz sungrazers except for C/2007 F4 (Meyer group). C/2007 F2 reached mag ~ 5 in C3 images, and showed a thin, faint, 15' tail in C2 images. C/2007 F3 was stellar in appearance, reaching mag ~ 6 ; it was tailless even in C2 images. C/2007 F4 was stellar in appearance and reached mag ~ 6.5 . C/2007 H6, C/2007 H8, and C/2007 H9 were fuzzy, very faint, and tailless. C/2007 H7 was slightly diffuse, reaching mag ~ 7 , with a hint of a tail. The remaining four objects were very small, somewhat diffuse, and quite faint (mag $\sim 7.5-8$).

Comet	2007 UT	α_{2000}	δ_{2000}	Inst.	F	MPEC
C/2007 F2	Mar. 20.904	0 ^h 29.3	- 1 ^m 36'	C3/2	BZ	2007-K68
C/2007 F3	27.446	0 40.2	+ 0 46	C3/2	BZ	2007-K68
C/2007 F4	28.488	0 32.0	+ 4 45	C3/2	BZ	2007-K69
C/2007 F5	30.118	0 42.0	+ 3 08	C2	TH	2007-K69
C/2007 G2	Apr. 8.018	1 14.4	+ 6 19	C2	TH	2007-K69
C/2007 H4	18.963	1 53.4	+10 03	C2	BZ	2007-K69
C/2007 H5	20.743	1 59.9	+10 36	C2	RK	2007-K69
C/2007 H6	21.868	2 04.5	+11 04	C2	VB	2007-L02
C/2007 H7	23.160	2 08.7	+11 18	C2	BZ	2007-L02
C/2007 H8	29.976	2 33.0	+13 26	C2	BZ	2007-L02
C/2007 H9	30.535	2 35.6	+13 32	C2	BZ	2007-L02