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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)

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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 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 ~ 7.5 –8).

| Comet | 2007 UT | α_{2000} | δ_{2000} | Inst. | F | MPEC |
|------------|-------------|----------------------------------------|--------------------|-------|---------------|------------|
| C/2007 F2 | Mar. 20.904 | $0^{^{\mathrm{h}}}29^{^{\mathrm{m}}}3$ | $-1^{\circ}36^{'}$ | C3/2 | BZ | 2007 - K68 |
| C/2007 F3 | 27.446 | $0\ 40.2$ | + 046 | C3/2 | BZ | 2007 - K68 |
| C/2007 F4 | 28.488 | 0.32.0 | + 445 | C3/2 | BZ | 2007 - K69 |
| C/2007 F5 | 30.118 | $0\ 42.0$ | + 308 | C2 | TH | 2007 - K69 |
| C/2007 G2 | Apr. 8.018 | $1\ 14.4$ | + 619 | C2 | TH | 2007 - K69 |
| C/2007 H4 | 18.963 | 153.4 | $+10\ 03$ | C2 | BZ | 2007 - K69 |
| C/2007 H5 | 20.743 | 159.9 | $+10\ 36$ | C2 | RK | 2007 - K69 |
| C/2007 H6 | 21.868 | 204.5 | +11 04 | C2 | VB | 2007-L02 |
| C/2007 H7 | 23.160 | 208.7 | $+11\ 18$ | 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 |
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