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## Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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## COMET C/2008 J6 (HILL)

R. E. Hill reports his discovery of a comet with a diffuse coma but a clear nuclear condensation and a fan-shaped tail 1' long in p.a.  $210^{\circ}$  on four co-added 30-s Catalina Sky Survey exposures obtained in 2"-4" seeing with the 0.68-m Schmidt telescope (discovery observation tabulated below). Following posting on the 'NEOCP' webpage, J. C. Pelle writes that images taken by N. Teamo (0.41-m reflector at Punaauia, French Polynesia) on May 14.6 UT show a diffuse come of diameter 45'' and a bright central condensation. S. Nakano reports that CCD images taken by Y. Ikari (Moriyama, Shiga-ken, Japan, 0.25-m reflector) on May 14.8 show a coma of diameter 15'' and a short fan tail in p.a.  $240^{\circ}$ . E. Guido and G. Sostero write that co-added unfiltered exposures obtained remotely with a 0.25-m reflector near Mayhill, NM, U.S.A., on May 15.4 show a sharp central condensation  $\sim 8''$  in diameter, surrounded by a faint, extended coma  $\sim 25''$  in diameter (total mag 15.5) and a fan-shaped tail 30'' long toward the southwest. J. E. McGaha (Tucson, AZ, U.S.A., 0.36-m reflector) reports that his four stacked 60-s exposures with on May 15.4 show a round coma 14" in diameter with a tail 48" long in p.a.  $242^{\circ}$ .

2008 UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.
May 14.46025	$22^{h}43^{m}56.00$	$+10^{\circ}47^{'}48\overset{''}{4}$	15.5

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2008-J78.

T = 2008 Apr. 22.838 TT	$\omega = 16.385$
	$\Omega = 299.274$ 2000.0
q = 2.05912  AU	i = 45.904 J

## COMET C/2007 W1 (BOATTINI)

Additional visual total-magnitude and coma-diameter estimates (cf. *IAUC* 8899, 8931): Apr. 13.82 UT, 8.6, 4'.2 (W. Hasubick, Buchloe, Germany, 10-cm refractor); 23.88, 7.6, 15' (J. J. Gonzalez, Leon, Spain,  $10 \times 50$  binoculars); 30.93, 7.3, 12' (A. Amorim, Florianopolis, Brazil,  $10 \times 50$  binoculars); May 2.44, 6.9, 18' (S. Rae, Tauranga, New Zealand,  $10 \times 50$  binoculars); 6.00, 7.0, 25' (M. Goiato, Araçatuba, Brazil,  $7 \times 50$  binoculars); 8.45, 6.4, - (D. A. J. Seargent, Cowra, NSW, Australia, naked eye); 12.02, 6.5, 15' (Amorim; moonlight); 14.96, 6.2, 23' (Goiato; moonlight).

2008 May 15

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