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COMET C/2009 F6 (YI-SWAN)

Further to *IAUC* 9034, H. Yamaoka, Kyushu University, informs the Central Bureau that he received an e-mailed report on March 28 of the discovery by Dae-am Yi (Yeongwol-kun, Gangwon-do, Korea) of a possible comet with a noticeable greenish coma of diameter $\sim 1'$ (discovery observation tabulated below) on two 60-s CCD exposures taken about 80 seconds apart with a Canon 5D camera and a 90-mm $f/2.8$ camera lens. Orbital calculations suggest that this object is identical with C/2009 F6.

2009 UT	α_{2000}	δ_{2000}	Mag.	*Observer*
Mar. 26.835	$22^{h}39^{m}40^{s}$	$+49^{\circ}49'08''$	12.5	Yi

The available precise astrometry, the following preliminary parabolic orbital elements from the precise astrometry only, and an ephemeris appear on *MPEC* 2009-G21.

$$\begin{array}{llll} T = 2009\ \text{May}\ 8.056\ \text{TT} & \omega = 130^{\circ}.432 & & \\ & \Omega = 278.927 & \Big\} & 2000.0 \\ q = 1.26991\ \text{AU} & i = 85.724 & & \end{array}$$

Further visual total-magnitude and coma-diameter estimates: Apr. 6.16 UT, 8.1, 7′ (J. J. Gonzalez, Burgos, Spain, 25×100 binoculars); 6.91, 9.7, 2′ (V. Nevski, Vitebsk, Belarus, 0.30-m reflector); 7.06, 8.5, 4′ (B. H. Granslo, Fjellhamar, Norway, 0.20-m reflector; moonlight); 7.09, 8.5, 4′ (M. Reszelski, Szamotuly-Galowo, Poland, 15×70 binoculars).

S. Korotkiy and T. Kryachko, Moscow, report that their unfiltered CCD observations with a 30-cm telescope at Karachay-Cherkessia, Russia, on Apr. 7.06 show a bright asymmetrical coma of size $332'' \times 354''$ (major axis in p.a. 161°) with an asymmetrical condensation of size $12''.8 \times 19''.3$ (major axis in p.a. 320°).

2009 DD_{47}

Numerous attempts to find cometary appearance in the retrograde-orbiting object 2009 DD_{47} (cf. *MPEC* 2009-E12; T = 2008 Oct. 29.6206 TT, e = 0.976539, q = 2.242187 AU, $\omega = 315^{\circ}.1224$, $\Omega = 173^{\circ}.8329$, $i = 107^{\circ}.8501$, equinox 2000.0) have produced negative results. J. Young, Table Mountain Observatory, writes that observations taken on numerous nights in March by M. Hicks, H. Rhoades, and himself show only a starlike appearance.

2009 April 7 *Daniel W. E. Green*