Three relatively bright transneptunian objects have been reported by M. E. Brown, C. A. Trujillo, and D. Rabinowitz using the Palomar 1.2-m Schmidt telescope (+ Quest camera). The object 2003 UB_{313}, currently at heliocentric distance $r = 97$ AU and red mag 18.5, has absolute magnitude $H = -1.1$ (Pluto has $H = -1.0$); observations, the following orbital elements ($P = 557$ yr), and an ephemeris appear on MPEC 2005-O41.

Epoch = 2005 Aug. 18.0 TT

$T = 2257$ Jan. 26.1837 TT  \quad \omega = 151.3115$

$e = 0.441613 \quad \Omega = 35.8750 \quad \text{2000.0}$

$q = 37.808$ AU \quad i = 44.1770

MPEC 2005-O42 contains observations, orbital elements ($T = \text{Sept. 2130}$, $q = 38.7$ AU, $\omega = 246^o$, $\Omega = 79^o$, $i = 29^o$, $e = 0.15$, $P = 308$ yr), and an ephemeris for 2005 FY$_9$ (which is currently at red mag 17).

MPEC 2005-O36 contains astrometric observations for an object, designated 2003 EL$_{61}$, of red mag 17 first reported by P. Santos-Sanz, J. L. Ortiz, and F. J. Aceituno via three CCD frames taken in March 2003 with a 0.36-m Schmidt-Cassegrain reflector at the Sierra Nevada Observatory in Granada, Spain, with additional observations identified from images obtained at several different sites back to 1955. MPEC 2005-O36 also contains orbital elements ($T = \text{Dec. 2133}$, $q = 35.2$ AU, $\omega = 240^o$, $\Omega = 122^o$, $i = 28^o$, $e = 0.19$, $P = 285$ yr) and an ephemeris for 2003 EL$_{61}$. This object was also found by Brown et al. at Palomar on 2004 May 6 [Rabinowitz et al. 2005, Bull. A.A.S. 37(3), Abstr. 56.12], who also obtained observations at Keck Observatory during Jan.-June 2005 of a satellite with orbital period 49.1 days and semimajor axis $\approx 49500$ km, which indicate a total system mass $\approx 29$ percent that of the mass of the Pluto-Charon system [Bouchez et al. 2005, Bull. A.A.S. 37(3), Abstr. 56.02; Brown et al. 2005, Ap.J. Let., submitted].

COMET C/2005 N6 (SOHO)

Another very faint and diffuse tailless Kreutz sungrazing comet has been found on SOHO images (cf. IAUC 8576; TC = T. Chen).

Comet 2005 UT  \quad o_{2000} \quad \delta_{2000} \quad \text{Inst.} \quad F \quad MPEC

C/2005 N6  \quad \text{July 6.354} \quad 6^\circ 54.1^\prime +21^\circ 22^\prime \quad \text{C2} \quad \text{TC} \quad 2005-O26

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