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## 2003 EL<sub>61</sub>, 2003 UB<sub>313</sub>, AND 2005 FY<sub>9</sub>

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<sub>313</sub>, 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  $T = 2257 \text{ Jan. } 26.1837 \text{ TT} \qquad \omega = 151 \hat{.} 3115$   $e = 0.441613 \qquad \Omega = 35.8750$   $q = 37.808 \text{ AU} \qquad i = 44.1770$ 

MPEC 2005-O42 contains observations, orbital elements (T= Sept. 2130, q=38.7 AU,  $\omega=246^{\circ}$ ,  $\Omega=79^{\circ}$ ,  $i=29^{\circ}$ , e=0.15, P=308 yr), and an ephemeris for 2005 FY<sub>9</sub> (which is currently at red mag 17).

MPEC 2005-O36 contains astrometric observations for an object, designated 2003 EL<sub>61</sub>, 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 = Dec. 2133, q = 35.2 AU, ω = 240°, Ω = 122°, i = 28°, e = 0.19, P = 285 yr) and an ephemeris for 2003 EL<sub>61</sub>. 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 ≈ 49500 km, which indicate a total system mass ≈ 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  $\alpha_{2000}$   $\delta_{2000}$  Inst. F MPEC C/2005 N6 July 6.354  $6^{\rm h}54^{\rm m}1$  +21°22′ C2 TC 2005-O26

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