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2003 EL_{61}, 2003 UB_{313}, AND 2005 FY_9

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.

$$\text{Epoch} = \text{2005 Aug. 18.0 TT}$$
$$\begin{array}{lll} T = \text{2257 Jan. 26.1837 TT} & \omega = 151^\circ.3115 & \\ e = 0.441613 & \Omega = 35.8750 & \Big\} 2000.0 \\ q = 37.808 \text{ AU} & i = 44.1770 & \end{array}$$

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_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 = Dec. 2133, $q = 35.2$ AU, $\omega = 240^\circ$, $\Omega = 122^\circ$, $i = 28^\circ$, $e = 0.19$, $P = 285$ 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	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2005 N6	July 6.354	$6^h54^m.1$	$+21^\circ22'$	C2	TC	2005-O26

2005 July 28 *Daniel W. E. Green*