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INTERNATIONAL ASTRONOMICAL UNION

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2003 EL₆₁, 2003 UB₃₁₃, AND 2005 FY₉

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 UB₃₁₃, 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

$$\left. \begin{array}{ll} T = 2257 \text{ Jan. } 26.1837 \text{ TT} & \omega = 151^{\circ}3115 \\ e = 0.441613 & \Omega = 35.8750 \\ q = 37.808 \text{ AU} & i = 44.1770 \end{array} \right\} 2000.0$$

MPEC 2005-O42 contains observations, orbital elements ($T = \text{Sept. } 2130$, $q = 38.7$ AU, $\omega = 246^{\circ}$, $\Omega = 79^{\circ}$, $i = 29^{\circ}$, $e = 0.15$, $P = 308$ yr), and an ephemeris for 2005 FY₉ (which is currently at red mag 17).

MPEC 2005-O36 contains astrometric observations for an object, designated 2003 EL₆₁, 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, $\omega = 240^{\circ}$, $\Omega = 122^{\circ}$, $i = 28^{\circ}$, $e = 0.19$, $P = 285$ yr) and an ephemeris for 2003 EL₆₁. 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	α_{2000}	δ_{2000}	Inst.	F	<i>MPEC</i>
C/2005 N6	July 6.354	6 ^h 54 ^m .1	+21°22'	C2	TC	2005-O26

2005 July 28

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