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INTERNATIONAL ASTRONOMICAL UNION

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COMET P/2007 A3 (PETRIEW)

Below are B. G. Marsden's epoch-2001 orbital elements from the 2001-2007 observations (cf. *IAUC* 8795):

$$\begin{array}{rcl} \text{Epoch} & = & 2001 \text{ Sept. } 8.0 \text{ TT} \\ T & = & 2001 \text{ Sept. } 1.9221 \text{ TT} \quad \omega = 181.9012 \\ e & = & 0.696237 \quad \Omega = 214.1070 \\ q & = & 0.945691 \text{ AU} \quad i = 13.9444 \\ a & = & 3.113256 \text{ AU} \quad n^\circ = 0.1794246 \quad P = 5.49 \text{ years} \end{array} \left. \vphantom{\begin{array}{rcl} T \\ e \\ q \\ a \end{array}} \right\} 2000.0$$

COMET P/2007 A2 (CHRISTENSEN) = 2006 WY₁₈₂

This comet (cf. *IAUC* 8794) has been linked with 2006 WY₁₈₂ (cf. *MPS* 190906); elliptical orbital elements from *MPEC* 2007-A47:

$$\begin{array}{rcl} T & = & 2007 \text{ Jan. } 17.5046 \text{ TT} \quad \omega = 186.8829 \\ e & = & 0.558240 \quad \Omega = 301.0412 \\ q & = & 2.795797 \text{ AU} \quad i = 26.4771 \\ a & = & 6.328771 \text{ AU} \quad n^\circ = 0.0619049 \quad P = 15.92 \text{ years} \end{array} \left. \vphantom{\begin{array}{rcl} T \\ e \\ q \\ a \end{array}} \right\} 2000.0$$

COMET P/2006 Y2 (GIBBS)

This comet (cf. *IAUC* 8787) has also been found to be of short orbital period, the following elements taken from *MPEC* 2007-A52:

$$\begin{array}{rcl} T & = & 2006 \text{ Dec. } 28.7559 \text{ TT} \quad \omega = 26.3029 \\ e & = & 0.587452 \quad \Omega = 113.3627 \\ q & = & 1.251352 \text{ AU} \quad i = 14.4737 \\ a & = & 3.033225 \text{ AU} \quad n^\circ = 0.1865723 \quad P = 5.28 \text{ years} \end{array} \left. \vphantom{\begin{array}{rcl} T \\ e \\ q \\ a \end{array}} \right\} 2000.0$$

COMET C/2006 P1 (McNAUGHT)

Additional visual total-magnitude estimates made in daylight, via comparison with Venus, many observers noting a tail $\leq 1^\circ$ long: Jan. 13.10 UT, -5 : (S. J. O'Meara, Mauna Kea, HI, U.S.A., naked eye); 13.56, -6 : (A. Amorim, Florianopolis, Brazil, naked eye and sunglasses); 13.75, -5.2 : (R. A. Keen, Mt. Thorodin, CO, U.S.A., naked eye); 13.91, -5.0 : (C. S. Morris, Fillmore, CA, U.S.A., 20×80 binoculars); 13.92, -6 : (O'Meara, Volcano, HI); 14.47, -5.0 : (D. J. Frew, Perth Observatory, 8×42 binoculars); 14.55, -5.5 : (K. Hornoch, Lelekovice, Czech Republic, naked eye).