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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):

$$\text{Epoch} = \text{2001 Sept. 8.0 TT}$$
$$\begin{array}{llll} T = \text{2001 Sept. 1.9221 TT} & \omega = 181^\circ.9012 & & \\ e = 0.696237 & \Omega = 214.1070 & \Big\} 2000.0 & \\ q = 0.945691 \text{ AU} & i = 13.9444 & & \end{array}$$
$$a = 3.113256 \text{ AU} \quad n^\circ = 0.1794246 \quad P = 5.49 \text{ years}$$

COMET P/2007 A2 (CHRISTENSEN) = 2006 WY_{182}

This comet (cf. *IAUC* 8794) has been linked with 2006 WY_{182} (cf. *MPS* 190906); elliptical orbital elements from *MPEC* 2007-A47:

$$\begin{array}{lll} T = \text{2007 Jan. 17.5046 TT} & \omega = 186^\circ.8829 & \\ e = 0.558240 & \Omega = 301.0412 & \Big\} 2000.0 \\ q = 2.795797 \text{ AU} & i = 26.4771 & \end{array}$$
$$a = 6.328771 \text{ AU} \quad n^\circ = 0.0619049 \quad P = 15.92 \text{ years}$$

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:

$$\begin{array}{lll} T = \text{2006 Dec. 28.7559 TT} & \omega = 26^\circ.3029 & \\ e = 0.587452 & \Omega = 113.3627 & \Big\} 2000.0 \\ q = 1.251352 \text{ AU} & i = 14.4737 & \end{array}$$
$$a = 3.033225 \text{ AU} \quad n^\circ = 0.1865723 \quad P = 5.28 \text{ years}$$

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).

2007 January 14 *Daniel W. E. Green*