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COMET P/1993 W1 = 2005 T1 (MUELLER)

E. J. Christensen has reported the recovery of comet P/1993 W1 (= 1993s = 1994 XXV) on CCD images taken with the 1.5-m reflector in the course of the Mt. Lemmon Survey, describing the object as having a condensed 8″ coma and a 20″ curved tail in p.a. 250°–280°. The recovery was confirmed at the Minor Planet Center via LONEOS incidental astrometry (0.59-m Schmidt telescope) by M. E. Van Ness, and earlier observations were subsequently also reported by F. Fratev (Zvezdno Obshtestvo Observatory, Plana, 0.25-m f/4.7 reflector). The indicated correction to the prediction on *MPC* 54168 is $\Delta T = -0.8$ day.

2005 UT	α_{2000}	δ_{2000}	Mag.	*Observer*
Oct. 6.93268	$2^h39^m18^s.35$	$-3°55'12''.2$	18.4	Fratev
6.94519	2 39 18.06	−3 55 14.5	18.4	"
6.95448	2 39 17.90	−3 55 14.5	18.4	"
6.96144	2 39 17.56	−3 55 16.2	18.4	"
7.32842	2 39 08.90	−3 56 21.4	18.5	Van Ness
7.35758	2 39 08.13	−3 56 26.4		"
7.41793	2 39 06.68	−3 56 36.5		"
7.43542	2 39 06.30	−3 56 39.4	18.0	Christensen
7.44722	2 39 05.99	−3 56 41.7		"
7.44923	2 39 06.01	−3 56 41.7		"

The following orbital elements by B. G. Marsden, Smithsonian Astrophysical Observatory, are from 83 observations spanning 1992–2005 (mean residual 0″.8):

Epoch = 1994 Sept. 5.0 TT

$$
\begin{array}{lll}
T = \text{1994 Sept.12.1603 TT} & \omega = 30^\circ.0222 & \\
e = 0.260528 & \Omega = 100.6625 & \text{2000.0} \\
q = 4.249738 \text{ AU} & i = 16.4655 & \\
a = 5.746990 \text{ AU} & n^\circ = 0.0715391 & P = 13.78 \text{ years}
\end{array}
$$

Epoch = 2008 May 14.0 TT

$$
\begin{array}{lll}
T = \text{2008 May 18.5222 TT} & \omega = 29^\circ.8348 & \\
e = 0.261149 & \Omega = 100.5697 & \text{2000.0} \\
q = 4.214478 \text{ AU} & i = 16.4959 & \\
a = 5.704097 \text{ AU} & n^\circ = 0.0723475 & P = 13.62 \text{ years}
\end{array}
$$

2005 October 8 *Daniel W. E. Green*