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*COMET P/2007 W2 (LINEAR)*

L. Buzzi and F. Luppi report their recovery of P/2000 B3 (cf. *IAUC* 7356) on CCD frames taken with a 0.60-m $f/4.64$ reflector at Varese, Italy (astrometry tabulated below); stacked images totalling 25 min of exposure show a 8″ condensed coma with a tail ≈ 10″ long in p.a. 240°.

| 2007 UT | $\alpha_{2000}$ | $\delta_{2000}$ | Mag. |
|---|---|---|---|
| Nov. 17.06763 | 5h52m34s.70 | +43°16′00″.7 | |
| 17.12336 | 5 52 35.06 | +43 16 32.4 | 19.5 |
| 26.98525 | 5 52 05.65 | +44 43 56.4 | |
| 27.03909 | 5 52 04.65 | +44 44 23.3 | 18.6 |

The indicated correction to the prediction on *MPC* 54167 is $\Delta T = +0.16$ day. The following orbital elements are by B. G. Marsden from 91 observations, 2000–2007 (mean residual 0″.5):

Epoch = 2000 Feb. 26.0 TT

$$
\begin{array}{lll}
T = 2000\ \text{Feb. } 14.1600\ \text{TT} & \omega = 130^\circ.5069 & \\
e = 0.575215 & \Omega = 352.1471 & \Big\}\ 2000.0 \\
q = 1.700254\ \text{AU} & i = 11.1263 &
\end{array}
$$

$a = 4.002627$ AU  $n^\circ = 0.1230797$  $P = 8.008$ years

Epoch = 2008 Feb. 24.0 TT

$$
\begin{array}{lll}
T = 2008\ \text{Feb. } 26.1914\ \text{TT} & \omega = 130^\circ.6410 & \\
e = 0.574210 & \Omega = 352.0642 & \Big\}\ 2000.0 \\
q = 1.708753\ \text{AU} & i = 11.1181 &
\end{array}
$$

$a = 4.013132$ AU  $n^\circ = 0.1225967$  $P = 8.039$ years

This ephemeris uses $H_{10} = 15.5$:

| 2007/8 | $\alpha_{2000}$ | $\delta_{2000}$ | $\Delta$ | $r$ | $\epsilon$ | $\beta$ | Mag. |
|---|---|---|---|---|---|---|---|
| Nov. 26 | 5h52m.31 | +44°35′.8 | 1.026 | 1.932 | 147°.5 | 15°.9 | 18.4 |
| Dec. 6 | 5 48.39 | +45 49.0 | 0.956 | 1.890 | 153.5 | 13.4 | 18.2 |
| 16 | 5 41.43 | +46 33.7 | 0.906 | 1.851 | 156.6 | 12.2 | 18.0 |
| 26 | 5 33.38 | +46 40.5 | 0.876 | 1.816 | 155.2 | 13.1 | 17.8 |
| Jan. 5 | 5 26.66 | +46 06.7 | 0.865 | 1.785 | 149.9 | 16.0 | 17.7 |
| 15 | 5 23.57 | +44 57.4 | 0.873 | 1.759 | 142.8 | 19.8 | 17.7 |
| 25 | 5 25.50 | +43 23.2 | 0.896 | 1.739 | 135.2 | 23.5 | 17.7 |
| Feb. 4 | 5 32.66 | +41 34.1 | 0.933 | 1.723 | 127.8 | 26.9 | 17.7 |
| 14 | 5 44.62 | +39 37.2 | 0.982 | 1.713 | 120.9 | 29.6 | 17.8 |

2007 November 27  *Daniel W. E. Green*