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INTERNATIONAL ASTRONOMICAL UNION

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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 $\approx 10''$ long in p.a. 240° .

2007	UT	α_{2000}	δ_{2000}	Mag.
Nov.	17.06763	5 ^h 52 ^m 34.70	+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							
$T = 2000$ Feb. 14.1600 TT	$\omega = 130.5069$	}				2000.0	
$e = 0.575215$	$\Omega = 352.1471$						
$q = 1.700254$ AU	$i = 11.1263$						
$a = 4.002627$ AU	$n^\circ = 0.1230797$						
Epoch = 2008 Feb. 24.0 TT							
$T = 2008$ Feb. 26.1914 TT	$\omega = 130.6410$	}				2000.0	
$e = 0.574210$	$\Omega = 352.0642$						
$q = 1.708753$ AU	$i = 11.1181$						
$a = 4.013132$ AU	$n^\circ = 0.1225967$						

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

2007/8	α_{2000}	δ_{2000}	Δ	r	ϵ	β	Mag.
Nov. 26	5 ^h 52 ^m 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