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COMET P/2007 T3 (SHOEMAKER-LEVY)

R. H. McNaught reports his recovery of comet P/1990 V1 (= 1990o = 1990 XV; cf. *IAUC* 5135) on CCD images taken with the 0.5-m Uppsala Schmidt telescope at Siding Spring; the comet shows a 10″ coma and no tail on Oct. 12, and McNaught's astrometric measures are given below:

2007 UT	α_{2000}	δ_{2000}	Mag.
Oct. 12.44402	18^{h}51^{m}51^s.48	−50°45′12″.6	18.2
12.45295	18 51 53.13	−50 45 08.6	18.2
12.46192	18 51 54.50	−50 45 02.2	18.3
12.47080	18 51 56.16	−50 44 57.5	18.5
12.51989	18 52 04.55	−50 44 28.4	18.0
13.41858	18 54 40.98	−50 35 47.2	18.1

The indicated correction to the orbital elements on *MPC* 51824 is ΔT = +4.5 days. Orbital elements by B. G. Marsden from 36 observations spanning 1990–2007 (mean residual 0″.8; ephemeris H_{10} = 15.0):

Epoch = 1990 Sept. 26.0 TT

T = 1990 Sept.18.5921 TT ω = 310°.6225
e = 0.771949 Ω = 52.0443 } 2000.0
q = 1.524077 AU i = 24.3335
a = 6.683058 AU $n°$ = 0.0570481 P = 17.28 years

Epoch = 2007 Dec. 6.0 TT

T = 2007 Dec. 17.3371 TT ω = 312°.8443
e = 0.773589 Ω = 51.6501 } 2000.0
q = 1.460069 AU i = 24.5612
a = 6.448748 AU $n°$ = 0.0601854 P = 16.38 years

2007 TT	α_{2000}	δ_{2000}	Δ	r	ϵ	β	Mag.
Oct. 7	18^{h}36^m.70	−51°33′.4	1.487	1.703	84°.0	35°.7	18.2
17	19 05.32	−49 58.8	1.495	1.645	79.9	36.6	18.0
27	19 36.79	−47 54.2	1.502	1.593	76.3	37.3	17.9
Nov. 6	20 09.99	−45 13.4	1.509	1.548	73.2	37.8	17.8
16	20 43.88	−41 52.6	1.518	1.512	70.6	38.1	17.7
26	21 17.54	−37 51.4	1.531	1.484	68.3	38.2	17.6
Dec. 6	21 50.30	−33 13.1	1.551	1.467	66.4	38.0	17.6
16	22 21.81	−28 04.2	1.581	1.460	64.6	37.5	17.6

2007 October 13 *Daniel W. E. Green*