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COMET P/2007 U2 (LINEAR-NEAT)

K. Sárneczky and L. L. Kiss report their recovery of comet P/2001 Q5 (cf. *IAUC* 7697) on R-band CCD images obtained with the 2.3-m reflector at Siding Spring (astrometry tabulated below). Coma diameters and tail lengths: Oct. 21.5 UT, 3″, 6″ in p.a. 95° (co-added 300-s image); 22.4, 3″, 8″ in p.a. 90° (co-added 180-s image).

2007	UT	α_{2000}	δ_{2000}	Mag.
Oct.	21.44897	18^{h}34^{m}35^s.78	−28°52′24″.9	19.8
	21.45048	18 34 35.98	−28 52 23.9	
	21.45199	18 34 36.14	−28 52 23.5	
	21.45350	18 34 36.29	−28 52 22.9	
	22.39249	18 36 15.32	−28 46 59.9	
	22.40073	18 36 16.17	−28 46 57.2	19.7
	22.40629	18 36 16.77	−28 46 55.3	
	22.41352	18 36 17.49	−28 46 52.5	
	22.41704	18 36 17.89	−28 46 51.4	

The indicated correction to the prediction on *MPC* 54167 is $\Delta T = -0.5$ day. The following orbital elements by B. G. Marsden are from 234 observations, 2001–2007 (mean residual 0″.7); the ephemeris uses $H_{10} = 14.0$.

Epoch = 2001 June 20.0 TT

T = 2001 June 11.6210 TT ω = 6°.3996
e = 0.416559 Ω = 336.2663 (2000.0)
q = 2.043148 AU i = 10.9448
a = 3.501896 AU n° = 0.1504005 P = 6.553 years

Epoch = 2008 Feb. 24.0 TT

T = 2008 Feb. 20.4955 TT ω = 8°.2860
e = 0.395943 Ω = 335.2570 (2000.0)
q = 2.155746 AU i = 10.7041
a = 3.568779 AU n° = 0.1461923 P = 6.742 years

2007	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	β	Mag.
Oct.	17	18^{h}26^m.93	−29°17′.3	2.433	2.342	72°.9	24°.0	19.6
	27	18 44.50	−28 19.9	2.518	2.316	66.8	23.2	19.7
Nov.	6	19 03.13	−27 16.2	2.600	2.291	61.1	22.3	19.7
	16	19 22.62	−26 04.8	2.677	2.268	55.5	21.1	19.7
	26	19 42.75	−24 44.7	2.748	2.246	50.1	19.7	19.7

2007 October 22 *Daniel W. E. Green*