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INTERNATIONAL ASTRONOMICAL UNION

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COMET P/2007 A3 (PETRIEW)

F. Fratev, E. Mihaylova, and A. Kirchev, Sofia, Bulgaria, report the recovery of comet P/2001 Q2 (cf. *IAUC* 7686) on unfiltered CCD images taken with a 0.25-m *f*/3.2 reflector at Zvezdno Obshtestvo Observatory (Plana), noting a diffuse coma of diameter $\sim 0'.2$. Additional CCD astrometry has been reported by L. Buzzi and F. Luppi (Varese, Italy, 0.60-m reflector; comet $\approx 1'$ east of prediction; quite diffuse with a round inner coma of size $\sim 15''$ – $20''$ in stacked 15-s exposures), W. Hasubick (Buchloe, Germany), and K. Kadota (Ageo, Saitama-ken, Japan, 0.25-m reflector; coma diameter $0'.7$; diffuse with moderate condensation and no tail).

2007	UT	α_{2000}	δ_{2000}	Mag.	Observer
Jan.	11.69458	21 ^h 15 ^m 04 ^s .98	−9°04′27″.9	16.1	Fratev
	11.69961	21 15 06.11	−9 04 20.7	16.1	"
	11.70273	21 15 06.61	−9 04 21.2	16.1	"
	13.70378	21 22 24.07	−8 43 33.7	15.9	"
	13.71309	21 22 26.41	−8 43 24.8	15.9	"
	13.71569	21 22 27.03	−8 43 24.3	15.9	"
	13.71957	21 22 27.88	−8 43 24.3		Buzzi
	13.72247	21 22 28.45	−8 43 23.6		"
	13.72301	21 22 28.57	−8 43 16.1	15.9	Fratev
	13.72495	21 22 29.04	−8 43 21.5		Buzzi
	13.72621	21 22 29.33	−8 43 21.3	17.3	Hasubick
	13.72713	21 22 29.33	−8 43 20.5	15.9	Fratev
	13.72734	21 22 29.57	−8 43 19.4		Buzzi
	13.73018	21 22 30.20	−8 43 17.6	16.5	"
	14.37541	21 24 52.63	−8 36 22.8		Kadota
	14.37720	21 24 53.03	−8 36 21.5		"
	14.37906	21 24 53.46	−8 36 20.6	15.1	"

The indicated correction to the prediction on *MPC* 51822 is $\Delta T = -0.04$ day. The following orbital elements are by B. G. Marsden, from 434 observations 2001–2007 (mean residual $0'.7$):

$$\begin{array}{l}
 \text{Epoch} = 2007 \text{ Mar. } 1.0 \text{ TT} \\
 \left. \begin{array}{ll}
 T = 2007 \text{ Feb. } 24.5806 \text{ TT} & \omega = 181.9215 \\
 e = 0.698129 & \Omega = 214.1025 \\
 q = 0.937602 \text{ AU} & i = 13.9747
 \end{array} \right\} 2000.0 \\
 a = 3.105970 \text{ AU} & n^\circ = 0.1800563 & P = 5.47 \text{ years}
 \end{array}$$