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URL `http://cfa-www.harvard.edu/iau/cbat.html` ISSN 0081-0304
Phone 617-495-7440/7244/7444 (for emergency use only)

COMET C/2007 E2 (LOVEJOY)

Further to *IAUC* 8819, numerous precise CCD positions have now been reported, and they appear together with the following preliminary parabolic orbital elements on *MPEC* 2007-F32.

$$T = 2007 \text{ Mar. } 27.565 \text{ TT} \qquad \left.\begin{aligned} \omega &= 340^\circ.609 \\ \Omega &= 232.436 \\ i &= 95.894 \end{aligned}\right\} 2000.0$$

$$q = 1.09294 \text{ AU}$$

The following ephemeris magnitudes are based on $H_{10} = 8.5$.

2007 TT	α_{2000}	δ_{2000}	Δ	r	ϵ	β	Mag.
Mar. 11	20^h49^m.29	−53°30′.8	1.258	1.126	58°.6	48°.8	9.5
13	20 47.17	−52 35.4	1.218	1.119	59.8	50.1	9.4
15	20 44.93	−51 36.5	1.176	1.112	61.0	51.4	9.3
17	20 42.55	−50 33.7	1.134	1.107	62.2	52.7	9.2
19	20 40.02	−49 26.4	1.092	1.102	63.5	54.0	9.1
21	20 37.34	−48 13.9	1.048	1.098	64.9	55.2	9.0
23	20 34.48	−46 55.3	1.004	1.096	66.4	56.5	8.9
25	20 31.43	−45 29.6	0.960	1.094	67.9	57.6	8.8
27	20 28.17	−43 55.7	0.915	1.093	69.5	58.8	8.7
29	20 24.69	−42 12.3	0.871	1.093	71.2	59.8	8.6
31	20 20.96	−40 17.7	0.826	1.094	73.0	60.8	8.5
Apr. 2	20 16.95	−38 10.1	0.782	1.097	74.9	61.6	8.4
4	20 12.63	−35 47.1	0.739	1.100	76.8	62.3	8.3
6	20 07.98	−33 06.2	0.696	1.104	78.9	62.8	8.1
8	20 02.94	−30 04.2	0.655	1.109	81.2	63.1	8.0
10	19 57.47	−26 37.9	0.615	1.115	83.5	63.2	7.9
12	19 51.53	−22 43.5	0.578	1.122	86.1	63.0	7.8
14	19 45.04	−18 17.5	0.543	1.130	88.7	62.6	7.7
16	19 37.95	−13 17.0	0.513	1.138	91.5	61.8	7.6

Visual total-magnitude and coma-diameter estimates: Mar. 16.70 UT, 9.1, 4′ (D. A. J. Seargent, Cowra, N.S.W., 25×100 binoculars); 17.85, 9.6, 3′.0 (A. Pearce, Nedlands, W. Australia, 0.41-m reflector); 18.64, 9.3, 2′.7 (S. Rae, Hamilton, New Zealand, 0.25-m reflector).

2007 March 18 *Daniel W. E. Green*