

1980 January 25.

The Astronomer

Founded 1964

Issued by: The Astronomer. Editor: Guy M Hurst, 12, Clare Close, Earls Barton, Northampton, NN6 OPP, England. Tel: 0604 811030.

COMET BRADFIELD (19791)

Further to the announcement in E.W.C. 38a (issued to overseas subscribers in selected zones) on January 2, details of this discovery appeared in The Astronomer No 189 issued this month.

Brian Marsden, Central Bureau, indicates that further computations by himself and D.W.E. Green confirm the general correctness of the orbit calculations by Pingre for comet 1770II, in particular that $\Omega = 111^\circ$. Since perturbations cause the nodes to advance in a retrograde orbit, identity of 1770II with 19791 does not seem possible.

The following ephemeris from elements by B.G. Marsden, replaces and extends that published in The Astronomer:

1980 ET	R.A.(1950)	DEC (1950)	Earth	Sun	m1
Jan. 27.0	2 ^h 35 ^m .93	-47°01'10	0.203	0.959	3.9
27.5	2 43.02	-41 53.1			
28.0	2 48.73	-37 01.1	0.215	0.975	4.1
28.5	2 53.43	-32 28.1			
29.0	2 57.36	-28 15.7	0.233	0.992	4.3
29.5	3 00.70	-24 24.3			
30.0	3 03.56	-20 53.1	0.255	1.008	4.6
30.5	3 06.06	-17 41.2			
31.0	3 08.25	-14 47.1	0.282	1.024	4.9
31.5	3 10.19	-12 09.2			
Feb. 1	3 11.92	- 9 45.9	0.310	1.040	5.1
2	3 14.89	- 5 37.3			
3	3 17.36	- 2 10.5	0.374	1.073	5.7
4	3 19.46	+ 0 43.0			
5	3 21.28	+ 3 10.1	0.441	1.106	6.2
6	3 22.88	+ 5 16.0			
7	3 24.31	+ 7 04.8	0.511	1.138	6.6
8	3 25.60	+ 8 39.7			
9	3 26.79	+10 03.1	0.583	1.171	7.0
10	3 27.90	+11 16.9			
11	3 28.94	+12 22.7	0.655	1.203	7.4
13	3 30.85	+14 14.9			
15	3 32.61	+15 47.3	0.802	1.268	8.1
17	3 34.26	+17 04.8			
19	3 35.85	+18 10.8	0.948	1.333	8.6
21	3 37.40	+19 07.9			
23	3 38.91	+19 57.9	1.094	1.396	9.1
25	3 40.41	+20 42.1			
27	3 41.90	+21 21.6	1.239	1.460	9.6

Observations to Editor by magazine deadline Feb 5 appreciated

Guy M. Hurst.