

1994 July 9

## EARLY WARNING CIRCULAR 141

## THE ASTRONOMER

Ed: Guy M Hurst, 16, Westminster Close, Kempshott Rise, Basingstoke,  
Hants, RG22 4PP, England. Telephone/FAX (0256) 471074 Int: +44256471074  
INTERNET: GMH at AST.STAR.RL.AC.UK or GMH at GXVG.AST.CAM.AC.UK

## COMET NAKAMURA-NISHIMURA-MACHHOLZ (1994m)

Word has been received of the independent discoveries of a comet by  
Masamitsu Nakamura, Hideo Nishimura, and Donald Machholz.

The following positions are available:

1994 UT	R.A. (2000)		Decl.	m1	Observer
July 5.713	3	58.2	+70 11	9.0	Nakamura
5.749	3	58	+70 10	9	Nishimura
6.408	3	56	+70 12	10.5	Machholz
6.43663	3	55 26.28	+70 12 25.5	10	Helin
6.46528	3	55 21.56	+70 12 26.4		"

M. Nakamura (Hamamatsu, Shizuoka-Ken, Japan). 25x150 binoculars.

Coma diameter 5'. Communicated by T. Seki and S. Nakano.

IAUC 6013

Parabolic orbital elements from 11 observations July 6-8:

T = 1994 July 10.627 TT      Peri. = 119.368  
Node = 161.397      2000.0  
q = 1.18077 AU      Incl. = 94.963

IAUC 6015

Ephemeris by G.Hurst using EPH.EXE by N.James:

$$m = 8.0 + 5.0 \log R + 10.0 \log r$$

Date	R.A. (2000)		Dec.	R	r	Elong	Mag.	Motion	
	h	m	o	'	(AU)	(AU)	o	" /hr	P.A.
1994 July									
7.00	3	54.03	+70	11.6	1.422	1.182	55.0	9.5	32 263
9.00	3	48.89	+70	8.4	1.392	1.181	56.2	9.4	34 263
11.00	3	43.39	+70	5.0	1.361	1.181	57.4	9.4	37 263
13.00	3	37.50	+70	1.2	1.329	1.181	58.7	9.3	39 262
15.00	3	31.18	+69	56.7	1.295	1.183	60.1	9.3	42 262
17.00	3	24.40	+69	51.4	1.261	1.185	61.6	9.2	46 261
19.00	3	17.10	+69	44.9	1.226	1.188	63.2	9.2	50 260
21.00	3	9.25	+69	37.1	1.190	1.192	64.9	9.1	54 259
23.00	3	0.80	+69	27.4	1.153	1.197	66.6	9.1	59 257
25.00	2	51.70	+69	15.5	1.116	1.202	68.5	9.0	65 255
27.00	2	41.91	+69	0.8	1.077	1.209	70.5	9.0	71 253
29.00	2	31.39	+68	42.5	1.039	1.216	72.6	8.9	78 251
31.00	2	20.10	+68	20.0	0.999	1.224	74.8	8.9	87 249
1994 Aug									
2.00	2	8.02	+67	52.0	0.960	1.232	77.2	8.8	96 246
4.00	1	55.17	+67	17.5	0.920	1.242	79.7	8.8	107 244
6.00	1	41.55	+66	34.8	0.880	1.252	82.4	8.7	120 241
8.00	1	27.24	+65	42.2	0.840	1.262	85.3	8.6	134 237
10.00	1	12.31	+64	37.7	0.800	1.274	88.4	8.6	151 234
12.00	0	56.90	+63	18.8	0.761	1.286	91.8	8.5	170 231
14.00	0	41.17	+61	42.9	0.722	1.298	95.4	8.4	192 227
16.00	0	25.30	+59	47.1	0.685	1.311	99.3	8.4	218 224
18.00	0	9.49	+57	28.3	0.650	1.325	103.6	8.3	246 220
20.00	23	53.94	+54	43.2	0.616	1.339	108.3	8.2	278 217
22.00	23	38.82	+51	29.0	0.585	1.354	113.3	8.2	314 214
24.00	23	24.29	+47	43.2	0.556	1.369	118.8	8.1	351 211
26.00	23	10.49	+43	24.6	0.532	1.385	124.8	8.0	388 208
28.00	22	57.50	+38	33.8	0.512	1.401	131.0	8.0	424 206
30.00	22	45.38	+33	14.0	0.498	1.417	137.5	8.0	454 204

Guy M Hurst