

EARLY WARNING CIRCULAR 139

THE ASTRONOMER

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COMET TAKAMIZAWA (1994i)

S. Nakano, Sumoto, Japan, reports the discovery by Kesao Takamizawa of a comet
on T-Max photographs. Precise positions:

1994 UT	R.A. (2000) Decl.			ml	Observer
May 6.68611	17 07 23.72	- 4 35 07.7		11.0	Takamizawa
7.73794	17 01 44.33	- 4 49 16.8			"
8.47065	16 57 40.10	- 4 59 26.1			Rabinowitz
8.63984	16 56 43.26	- 5 01 51.3			Kojima
8.65391	16 56 38.48	- 5 02 03.1			"
8.87212	16 55 24.51	- 5 05 08.6	12.5		Ticha
8.87394	16 55 23.90	- 5 05 10.2			"

K. Takamizawa (Saku). 0.10-m f/4.0 patrol camera. Comet has
strong central condensation; coma diameter about 1'. Measurer
Y. Kushida.

IAUC 5986

At the request of Brian Marsden, an appeal was circulated on May 8.42UT
requesting confirmation. A message was received by the Editor from Chris Spratt
in Canada. He advised that he had previously seen a suspected comet of magnitude
10 on 1994 May 8.34UT near M10 and estimated the position as:
RA 16h57m DEC -04 54' [2000]. The observation therefore appears to have been of
the same object and was made with a new 0.10-m refractor (Tele Vue Genesis). By
coincidence we had received an application from Chris to join TA on May 6 so
this may be the earliest independent discovery by a new member on record!

Elements:

T 1994 July 8.6440 TT w 197.77600)
e 1.000000000 O 51.23700) 2000.0
q 1.8861800 A.U. i 135.57200)
Source: IAUC 5986 Positions are geocentric

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

$$m = 6.5 + 5.0 \log R + 10.0 \log r$$

Date	R.A. (2000)		Dec.	R	r	Elong	Mag.	Motion	
	h	m	° ' "	(AU)	(AU)	°		" / hr	P.A.
1994 May									
8.00	17	0.30	-4 52.8	1.109	2.036	148.0	9.8	209	261
10.00	16	48.86	-5 21.3	1.078	2.027	152.3	9.7	223	261
12.00	16	36.67	-5 51.1	1.051	2.018	156.6	9.7	237	261
14.00	16	23.79	-6 22.2	1.028	2.010	160.8	9.6	249	261
16.00	16	10.28	-6 53.9	1.009	2.001	164.5	9.5	260	261
18.00	15	56.25	-7 26.0	0.994	1.993	167.2	9.5	268	261
20.00	15	41.82	-7 57.9	0.984	1.985	168.0	9.4	273	262
22.00	15	27.14	-8 29.1	0.979	1.978	166.5	9.4	276	262
24.00	15	12.38	-8 59.1	0.979	1.970	163.2	9.4	276	262
26.00	14	57.69	-9 27.5	0.984	1.963	159.0	9.4	272	263
28.00	14	43.24	-9 54.0	0.993	1.957	154.4	9.4	266	263
30.00	14	29.17	-10 18.3	1.007	1.950	149.6	9.4	257	263
1994 June									
1.00	14	15.61	-10 40.4	1.025	1.944	144.8	9.4	246	264
3.00	14	2.66	-11 0.4	1.048	1.938	140.1	9.5	234	264
5.00	13	50.40	-11 18.3	1.074	1.933	135.5	9.5	220	264
7.00	13	38.86	-11 34.3	1.103	1.927	131.0	9.6	206	265

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