

# The Astronomer

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MONTHLY

Please reply to: Editor.

## Comet Takamizawa (1984j)

Marsden telexes provisional elements for this comet mentioned on EWC 67, these based on more than 3 precise positions over a 2 day interval with residuals 1-5":

T = 1984 May 5.083

w = 132.40)

$\Omega$  = 125.62) 1950.0

i = 12.71)

q = 1.5613 AU

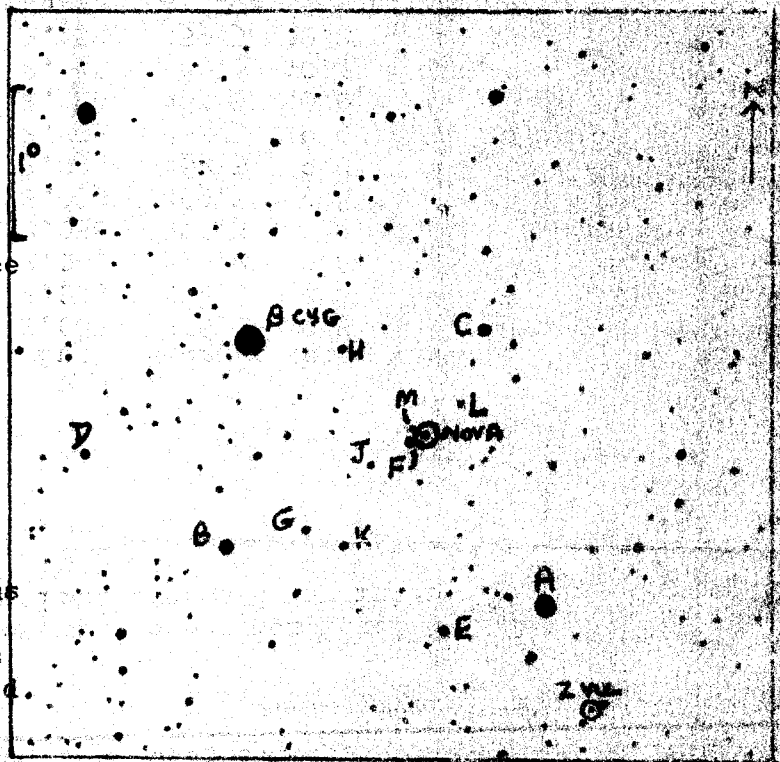
### Ephemeris by Hurst:

Ephemeris by Hurst:				Earth	Sun	Elong	m1
Aug	7	21 <sup>h</sup> 10.35	-20°19.08	0.994	2.007	176.0	9.5
	9	21 09.78	-20 42.79	1.011	2.023	174.8	9.5
	11	21 09.23	-21 05.41	1.029	2.040	173.2	9.6
	13	21 08.71	-21 26.89	1.049	2.056	171.3	9.7
	15	21 08.23	-21 47.22	1.068	2.073	169.3	9.8
	17	21 07.78	-22 06.37	1.089	2.090	167.3	9.8
	19	21 07.39	-22 24.33	1.111	2.107	165.3	9.9
	21	21 07.06	-22 41.10	1.134	2.124	163.3	10.0
	23	21 06.78	-22 56.69	1.157	2.141	161.3	10.1
	25	21 06.57	-23 11.09	1.182	2.159	159.3	10.2

R. McNaught has telephoned results from Australia: Aug 3.531UT, mag 9.5; 4.553UT, 9.1 in 9x63B. S. Lubbock also reports it at mag 9 on Aug 5.

## nova Vulpeculae 1984

This discovery reported in EWC 66/67 was from a Tri-X exposure with green filter using a 200mm lens. C.-Y. Shao reports no object recorded to mag 14 on July 24.232UT. A preliminary TA chart and sequence appears opposite. J.-C. Merlin has telephoned from France to report that his wife, Annick had photographed and recorded the nova pre-announcement on July 28 at 21h55m and 22h03mUT. The reduced mag was 8.8 from 3m film using 58mm f2 lens. Visual results to date include 20 telephoned estimates indicating a brightening from mag approx 9 at discovery to mag 7.0 by Aug 6.0UT. Contrary to reports elsewhere, it seems the nova is still brightening towards maximum and therefore hourly estimates and photoelectric monitoring are needed. The Editor will be available all day until 10pm from now until Aug 12 to receive telephoned reports which should also be confirmed in writing together with full estimates for possible re-reduction. (Home tel 0933 676444 to be used)



A: 5.2; B: 5.9; C: 6.4; D: 6.7; E: 7.3; F: 7.5; G: 8.1; H: 8.2; J: 8.7; K: 8.9; L: 9.4; M: 9.5.

CH Cygni: Various observers report a rapid fade of this star and daily estimates of magnitude are urgently required.

Guy M Hurst.