

EARLY WARNING CIRCULAR 137  
THE ASTRONOMER

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## NOVA CASSIOPEIAE 1993

S. Nakano, Sumoto, Japan, reports the discovery by Kazuyoshi Kanatsu, Matsue, Shimane, of a nova on a T-Max 400 exposure with a 55-mm f/2.8 lens on Dec. 7, with confirmation by the discoverer on Dec. 11.

K. Kawanishi, Akou, Hyogo, has determined the position to be  
R.A. = 23h39m22s.36, Decl. = +57d14'23".7 (equinox 1950.0).  
Magnitude estimates: Dec. 5.44 UT, [10.0 (A. Tago, Tsuyama,  
Okayama; T-Max); 7.47, 7.5 (Tago); 7.47, 6.5 (Kanatsu); 11.42, 6.5  
(Kanatsu); 11.63, 6.5 (S. Otomo, Kiyosato, Yamanashi; visual);  
11.63, 6.4 (T. Urata, Shimizu, Shizuoka; unfiltered CCD); 11.65,  
6.4 (K. Tomita, Tokyo; visual).  
IAUC 5902

Brian Skiff, Lowell Observatory, reports that he has identified a magnitude 18 candidate on POSS-I which measures as follows:

	RA	(J2000)	Dec
E print:	23 41 47.21	+57 31 01.3	
O print:	23 41 47.24	+57 31 01.6	

or 0".8 due south of the [1950] position given by the Japanese.

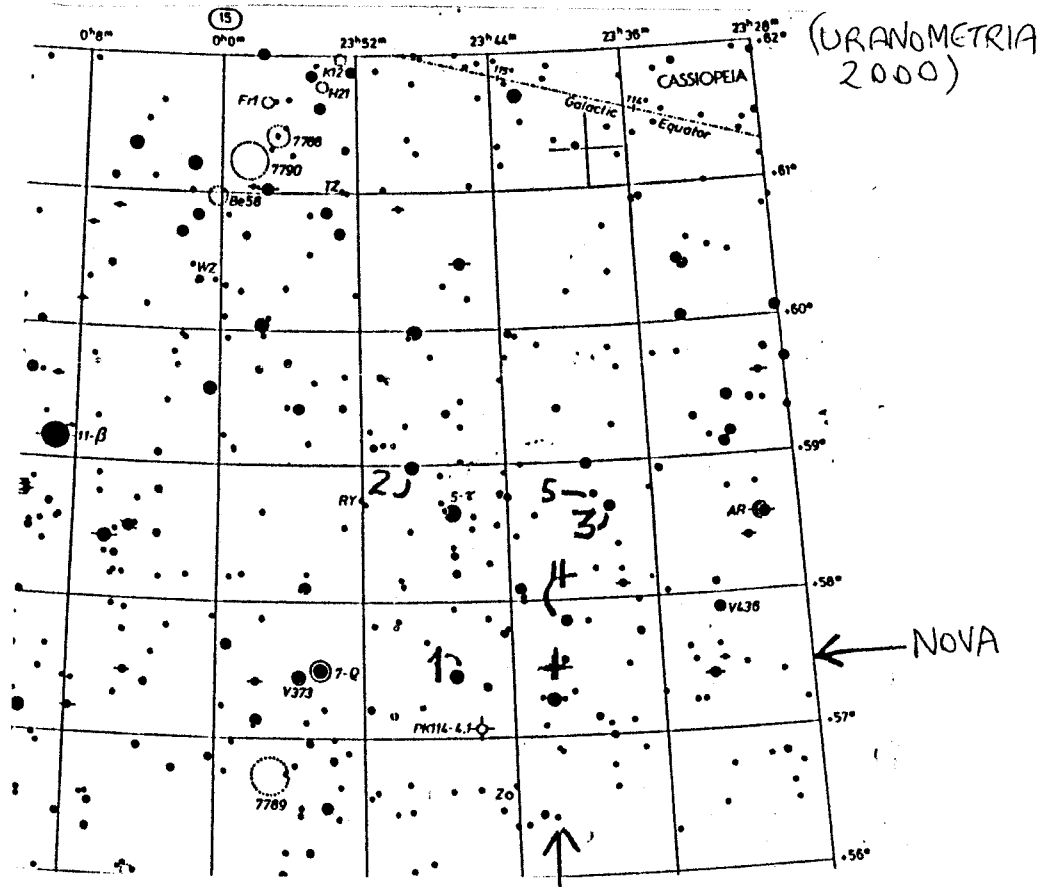
Taichi Kato, Japan e-mails that he observed the nova on 1993 Dec 12.403 at magnitude 6.5 (7x50B, SADC magnitudes)

The bright star sequence (from rho Cas, BAAVSS 064.01) is:  
 [A]alpha Per: 1.80; [B]alpha And: 2.07; [C]beta Cas: 2.28;  
 [D]alpha Cep: 2.44; [G]gamma Per: 2.94; [H]epsilon Cas: 3.37;  
 [J]zeta Cas: 3.61; [K]kappa Cas: 4.15; [L]lamda Cas: 4.15;  
 [M]sigma Cas: 4.89 (rho Cas BAAVSS 064.01).

Extended sequence in the chart below is from SC 2000 (I):

North up

- |   |      |
|---|------|
| 1 | 5.51 |
| 2 | 6.33 |
| 3 | 6.94 |
| 4 | 7.24 |
| 5 | 8.00 |



Seq Ref:  
N7026.01

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