

Q1990/96

Hans Bengtsson, Sweden, reports possible variation of star '97' on the AAVSO chart for TV Aur and located: RA 04h53.7m DEC +48 19' (1950). On 1978 Sept 19.86UT he estimated the star at 9.7 whereas on 1978 Sept 28.95, 10.6. Results 1990 August 21 to 1990 Dec 21 by Bengtsson and Margareta Westlund range 10.6-11.1 except 1990 Aug 25.97UT, 9.6. The Editor has undertaken an analysis of patrol photographs based on a new sequence from the Guide Star Catalogue and Papadopoulos Atlas. In setting the values he finds that the brightness interval between star 1 (Q1990/101) = GSC 3348.1298 (RA 4h58m44s DEC +48 29'09", 2000) & star 2 (Q1990/102) = GSC 3348.1328 (RA 4h58m54s DEC +48 28'04", 2000) may vary. The GSC values are 10.02V and 10.63V respectively although the former was assigned a value of 11.0 on the original AAVSO chart and may have distorted original results for Q1990/96?

Analysis of patrol photos using e-mail chart below based on 14 dates between 1981 Dec 1 and 1983 Feb 13 gave the following ranges:

Q1990/96 10.4-10.6 (No clear evidence of variation)

Q1990/101 10.2-10.6 (Stellarum 1969 Mar 8, 10.4B; Lick 1954 Oct 23, 11.5B; Pap' 1977 Jan 12, 10.1pv; pos' variable)

Q1990/102 10.4-10.7 (Stellarum 11.5B; Lick 11.7B; Papadopoulos 10.5pv; variation doubtful).

It remains possible that Q1990/96 may exhibit sudden brief rises to around 9.7 and Q1990/101 is worthy of closer monitoring. Results on these stars would be welcome:

\\\\\\\\\\ Q1990/96 nr TV Aur; (Note 1&2 also suspect vars not comps).

S, 120, 20, S

P, 04h 53m.7 +48 19' (1950)

Q, 61, 64, 9.6, 11.1

R, 8.79, 70, 43, A

R, 9.11, 47, 63, B

M, 9.79, 31, 89, 68, 25, 14

R, 9.72, 39, 36, C

R, 10.23, 66, 53, D

R, 10.27, 79, 72, E

M, 10.68, 81, 95, 116, 103, 72, 44, 20

M, 10.9, 51, 18, 111

R, 10.55, 43, 75, F

R, 10.74, 84, 102, G

R, 11.40, 97, 68, H

M, 11.103, 67, 91, 110, 102, 11, 98, 78, 98, 102

M, 11.60, 8, 27, 16, 61, 12, 34, 20, 51, 11, 56, 31

M, 11.54, 30, 49, 109, 48, 65, 16, 52, 11, 82, 31, 101

M, 11.51, 27, 52, 119, 19, 109, 51, 35

R, 11.82, 86, 60, J

M, 12.71, 70, 82, 43, 87, 66, 87, 48, 88, 9, 78, 19, 83, 26

M, 12.67, 29, 94, 112, 86, 35, 80, 8, 100, 30, 101, 118, 78, 46

M, 12.105, 76, 80, 72, 93, 74, 97, 87, 91, 39, 104, 95, 105, 66

M, 12.75, 35, 76, 77, 90, 58, 80, 108, 105, 74, 102, 73

M, 12.23, 60, 16, 67, 14, 2, 58, 54, 36, 91, 62, 77, 18, 58

M, 12.6, 1, 29, 5, 55, 84, 1, 30, 38, 20, 21, 64, 57, 21

M, 12.2, 23, 20, 32, 44, 38, 19, 93, 5, 19, 19, 24, 50, 80

M, 12.31, 83, 8, 98, 25, 41, 20, 80, 27, 103, 28, 59, 33, 40

M, 12.40, 41, 18, 60, 12, 37, 53, 61, 55, 101, 60, 35, 22, 63

M, 12.64, 78, 37, 68, 4, 57, 24, 35, 26, 111, 63, 100, 10, 57

M, 12.48, 118, 28, 59, 59, 117

R, 11.97, 44, 1

R, 11.102, 48, 2

E, 114

//////// Basic chart automatically generated by GSC2FIND ver 1.0

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