V A R I A B L E S T A R

B U L L E T I N

No. 7 Aug 1988

PHOTOGRAPHIC OBSERVATION OF V718 TAU

M.Huruhata (Gotenba)

This is a very red Ne type star reported by W.J.Lyton and P.W.Merill (1954),and A.H.Joy (1949) listed in the MHα star catalogue. Photovisual observations has been carried out in 1982 through 1987 with 25cm Schmidt camera, using Tri-X film and a yellow-green filter.

The star was measured on 157 photos, and the light variation is shown in Figure 1, The range in past five observational years was 11.5-15.0 mv, and the period was 380 days. The star is possibly M type variable rather than SR, with following provisional elements.

M A X = J D 2 4 4 5 0 1 5 + 3 8 0 d · E

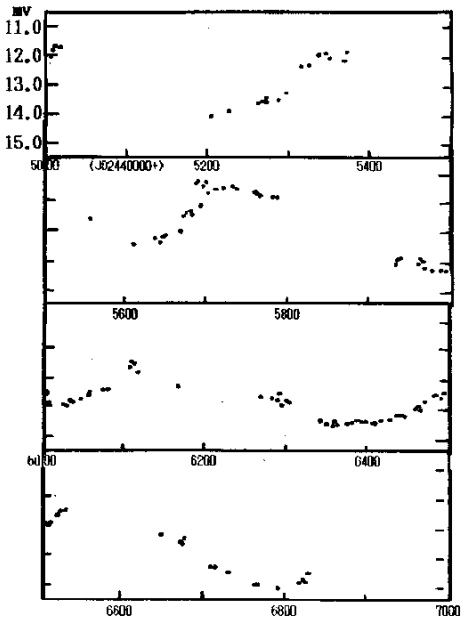

Fig.1. Light curve in 1982-87.

PHOTOGRAPHIC OBSERVATIONS OF NSV12178

M.Wakuda (Ryuyo,Shizuoka)
M.Huruhata (Gotenba)

The star, BD+23° 3694 in Vurpecula was first detected its variability by Strokneir et al.(1956), and is classified as Lb type in the GCVS (IV), Wakuda noticed the variability on his patrol films in 1978 with f20 and f40cm Cmeras, and later Huruhata joined with f30cm camera. Some 300 photo-visual magnitudes were obtained in five observing seasons as are shown in Figure 1. The star is possibly a SR type variable with the range 7.7-9.6mv so far. The main period is 316 days, overlapped by the minor period of 120 days. Comparison stars are shown in Figure 2.

Reference : Strokneir,W,Kippenhahn,R,and Geyer,E,1956,KVB.No.15

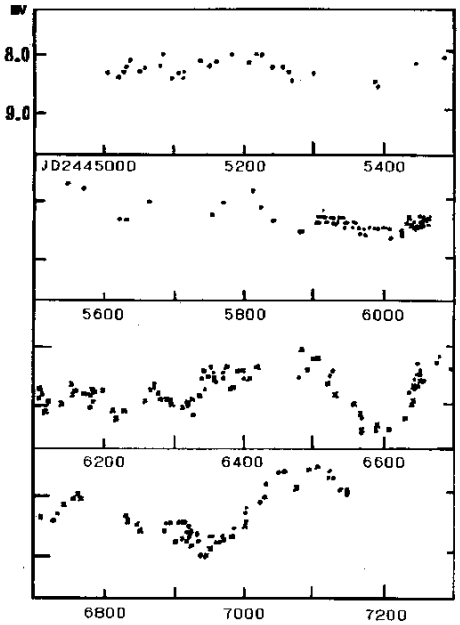

Fig.1.Light curve of NSV12178 in 1982-87.
(Dots by Wakuda,crosses by Huruhata)

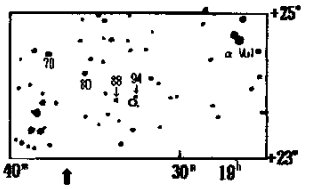

Fig.2.Finding chart with comp.stars.

A NEW SR VARIABLE IN CYGNUS

M.Huruhata (Gotenba)

On abaout 400 photos taken in 1978-86 with 18cm Schmidt camera, a new SR type variable was found. The position is

19h50m6s +44° 13.′9 (1950)

The range of variation was 11.8-13.0mv so far.The variation can be expressd by the following elements,

M = JD2443820 + 198d · E

The O-C values are given in Figure 2, which showds the cyclic variation, probably affected by the overlapping secondary period. In Figure 1, light variation in only recent years is shown.

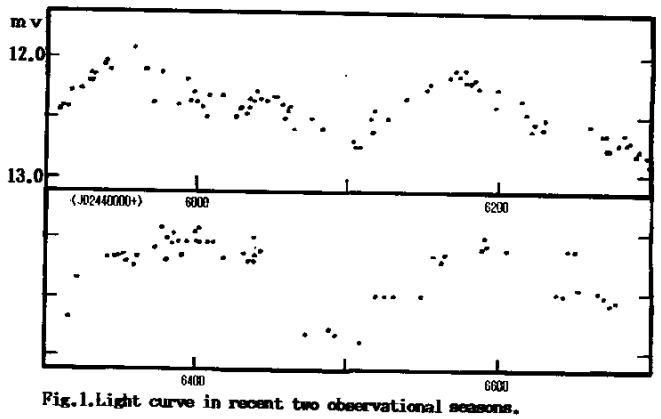

Fig.1.Light curve in recent two observational seasons.

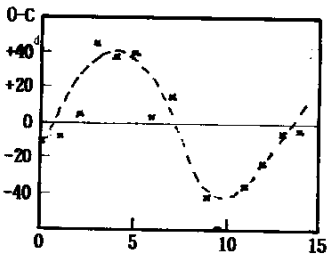

Fig.2.O-C of maxima.

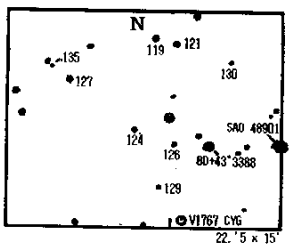

Fig.3.Finding chart with comparison stars.

RECENT OBSERVATIONS OF AX PERSEI

Compiled by S.Fujino (Hamamatsu)

Z And star, AX Per was observed by the following observers. The results are shown in Figure 1 and 2.

Obs.		Inst.	Method
S.Fujino	(Hamamatsu)	31cm L	Pg
N.Hasegawa	(Mie)	10cm L	vis
T.Kato	(Kyoto)	20cm SC	vis
M.Koshiro	(Suwa,Nagano)	30cm L	vis
M.Iida	(Nagano)	25cm L	vis

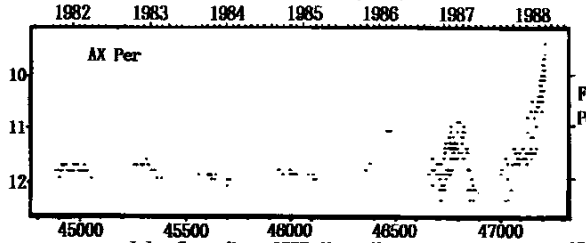

Fig.1.Observations of AX Per in recent years.

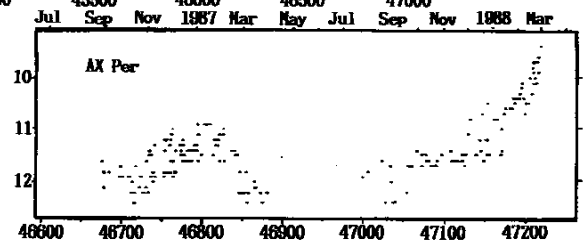

Fig.2.Observations in 1987/88.

VARIABLE STAR OBSERVERS LEAGUE IN JAPAN

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