

AN INDEX TO VARIABLE STAR FINDER CHARTS IN
THE JOURNAL OF THE AAVSO 1972 - 1985

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Abstract

An index is presented of variable star identification charts which have been published in the **Journal of the American Association of Variable Star Observers**, Volumes 1 - 14 (1972 - 1985). Additional information is provided about the identification of some variables.

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1. Introduction

Since the first issue of this Journal appeared in 1972, a considerable number of variable star identification charts have appeared in its pages. Most of the variables are previously known objects with official names. A small fraction are new discoveries, and a few are merely suspected of variability. The charts for some of these variables have never appeared elsewhere. Some recent discoveries have yet to be included in the catalogues of known or suspected variables, so I decided that a complete index would greatly facilitate the retrieval of information.

2. The Index

An explanation of the Index columns is given below.

STAR NAME: The official variable star designation is given, with stars grouped by constellation. Every effort has been made to locate the official designations of recent discoveries in the new 4th Edition of the **General Catalogue of Variable Stars** (Kholopov *et al.* 1985) or the **New Catalogue of Suspected Variables** (Kholopov *et al.* 1982), and these designations are given preference in this Index.

REF. JAAVSO: The year, volume, and page number of the **JAAVSO** containing the paper citing the variable.

CHART: A cross (X) indicates that a reliable chart appears. Two stars, NSV 12015 Sgr and TX Sct, have no cross as, for unique reasons, their definite identification can no longer be made.

SEQUENCE: The presence of a sequence of comparison stars is indicated. The different types of sequences are abbreviated thus:

- p = sequence of comparison stars with photographic magnitudes.
- V = sequence with photoelectric V magnitudes.
- v = sequence with visual magnitudes.
- S = step sequence.
- C = sequence of lettered comparison stars without magnitudes.

REMARKS: Identifying information (provisional designation, if any, and position) is given for many recent discoveries to assist in locating the correct chart in the **JAAVSO**.

3. General Remarks

I have made an effort to check the coordinates given by the discoverers of new variables, to insure that they agree with the published finder chart. In a few cases apparent discrepancies have been found, which I have not been able to resolve. These are noted at the foot of the Index.

In reference to star **JL-2 Sgr**, see Note 2. This star was announced as a variable as far back as 1972, but has yet to receive an official variable star name. Its coordinates are in satisfactory agreement with AS 304, a star known to be symbiotic from its spectrum, but not a known optical variable (Allen 1984). Considering that this variable is rather bright, with large-amplitude variations (photographic magnitude 9.5 - 13.5) and outbursts of long duration (Lukas 1975), it is a highly suitable object for visual monitoring.

4. Acknowledgements

I am indebted to Thomas A. Cragg (Anglo-Australian Observatory) and Robert H. McNaught (UKESRU, Siding Spring Observatory) for their valuable assistance in furnishing early numbers of this Journal, and in checking official designations of some recently discovered variables.

REFERENCES

- Allen, D. A. 1984, *Proc. Astron. Soc. Australia* 5 (3). 369.
 Kholopov, P. N. *et al.* 1982, *New Catalogue of Suspected Variable Stars*, Moscow.
 _____ 1985, *General Catalogue of Variable Stars*, 4th Edition, Moscow.
 Lukas, J. 1975, *Journ. Amer. Assoc. Var. Star Obs.* 4, 64.

TABLE I

Index to Variable Star Finder Charts in
the Journal of the AAVSO 1972 - 1985

STAR NAME	REF. YR.	JAAVSO VOL.	CHART PGE.	SEQUENCE (p;V;j;step;C)	REMARKS
<u>AND</u>					
AK	80	9	82	X	v
<u>AOL</u>					
V943	83	12	6	X	C
Eta	73	2	76	X	v
<u>ARI</u>					
RW	72	1	68	X	v? Type of magnitude (v or p) not stated.
<u>AUR</u>					
8Q	80	9	85	X	v
<u>BOD</u>					
AD	74	3	6	X	V
<u>CAP</u>					
Y	80	9	88	X	v
...	80	9	88	X	v
...	80	9	88	X	v
					Sus.var.: 13 ^m lv at (1900) 21h28.88m -14°23.5'
					Sus.var.: 14 ^m 3v at (1900) 21h28.82m -14°26.7'
<u>CAS</u>					
RW	74	3	15	X	v
RY	74	3	15	X	v
SU	73	2	76	X	v
SW	74	3	15	X	v
SY	74	3	15	X	v
SZ	72	1	52	X	v
XY	74	3	15	X	v
DD	74	3	15	X	v
DL	74	3	15	X	v
FH	74	3	15	X	v
<u>CEP</u>					
Delta	73	2	76	X	v
<u>CHI</u>					
MX	80	9	81	X	v
<u>CNC</u>					
DV	79	8	7	X	v
					Haruhata 4.
<u>CON</u>					
EL	72	1	29	X	p
BL	72	1	29	X	p
GT	73	2	60	X	
GX	73	2	60	X	
...	77	6	67	X	
					Variable 1: (1900) 11h58m +28°30'
					Variable 22: (1900) 12h25m52s +29°32'
					Variable 23: (1900) 12h29m02s +24°00'
					Sus.var. MH 13: (1900) 12h9m51s +25°28.8'

TABLE I (cont'd)

STAR NAME	REF. YR.	JAAVSO VOL.	PAGE	CHART	SEQUENCE (p;V;v;step;C)	REMARKS
<u>CVW</u>						
AP	72	1	29	X	p	Variable 13: (1900) 12h46m21s +33°30.0'
AS	73	2	60	X		Variable 20: (1900) 12h25m03s +32°28.4'
<u>CYB</u>						
X	72	1	52	X	v	
SS	73	2	82	X	v	
SU	73	2	76	X	v	
DT	77	6	73	X		
V389	77	6	73	X		
V788	77	6	1	X	s	
V1486	73	2	80	X		New var. at (1900) 19h49m37.0s +43°50.4'
V1504	78	7	73	X	p	= CSV 4693.
V1510	84	13	11	X	P	
V1621	76	5	78	X	P	
...	77	6	62	X		=P67, (1900) 19h28m +38°45'
...	77	6	62	X		Sus.var.; (1900) 19h27m +38°54'
<u>LIB</u>						
SX	75	4	58	X		
GS	75	4	58	X		= C-1 Lib
<u>LYR</u>						
V476	75	4	101	X	P	=BD +40°3673, (1950) 19h18m10s +40°41.4'
<u>OPH</u>						
UU	81	10	83	X	s	
BF	75	4	66	X	v	
<u>ORI</u>						
GU	85	14	12	X	v	
<u>SGE</u>						
S	73	2	76	X	v	
<u>SGR</u>						
W	73	2	76	X	v	
Y	73	2	76	X	v	
AP	75	4	66	X	v	
AM	82	11	35	X		
EB	81	10	71	X	p	
8P	76	5	76	X		
HN	76	5	81	X		
HN	76	5	81	X		
IQ	77	6	64	X		
V506	75	4	64	X		
V507	75	4	64	X		
V513	75	4	64	X		
V515	75	4	96	X		
V515	76	5	91	X	C	
V516	75	4	64	X		
V521	75	4	64	X		
V941	77	6	70	X		
V1014	75	4	64	X		

TABLE I (cont'd)

STAR NAME	REF. JAAVSO YR. VOL. PGE.	CHART	SEQUENCE (p;V;v;step;C)	REMARKS
<u>SGR</u>				
V1648	77 6 64	X		
V1649	77 6 64	X		
V1650	77 6 64	X		
V1652	77 6 70	X		
V1653	77 6 68	X		
V1654	77 6 64	X		
V1655	76 5 91	X		
V1659	77 6 70	X		
V1660	77 6 70	X		
V1661	77 6 68	X		
V1669	77 6 68	X		
V1670	81 10 64	X		
V1683	74 3 55	X		
V1684	77 6 64	X		
V1699	77 6 68	X		
V1701	77 6 68	X		=BT Sgr
V1708	77 6 68	X		
V1901	77 6 62	X		
V1954	83 12 13	X	C	
V3863	76 5 91	X	P	
V3874	72 1 56	X		B-15: (1900) 18h20m52s -28°27.8'. See Note 7.
V3875	72 1 70	X		B-30.
V3876	72 1 70	X		B-29.
V3890	73 2 71	X		Nova Sgr 1962.
V4059	76 6 70	X		New var. #2, at (1900) 18h37m7s -29°54'
V4060	77 6 64	X		New var. at (1900) 18h40m57s -21°43.4'
V4073	80 9 59	X	p	=CSV 3775
V4076	78 7 80	X	p	Anon. 2
V4078	78 7 80	X	p	Anon. 1
...	72 1 70	X		B-28: (1900) 18h22m55s -22°50.9'
...	73 2 66	X		New eruptive var.: (1900) 18h19m36.4s -29°28.8'
...	75 4 64	X		JL-1, see Note 1.
...	75 4 64	X		JL-2, see Note 2.
...	75 4 96	X		New var., see Note 3.
...	76 5 76	X		Susp. var. near GP Sgr, see Note 4.
...	76 5 81	X		Susp. var., see Note 5.
...	76 5 81	X		Susp. var. T2, see Note 6.
MSV 11157	78 7 80	X		=CSV 4268 = HV 9493.
...	74 3 55	X		New Mira var. at (1900) 18h22m5s -16°50.2'
MSV 12015	83 12 8			"Missing star", nova? 1850 coords only.
<u>SCO</u>				
RV	75 4 66	X	v	
<u>SCT</u>				
TT	85 14 61	X	C	
TX	78 7 70			Discovered by Hubble, but now lost.
<u>TAU</u>				
RR	82 11 74	X	v	

TABLE I (cont'd)

STAR NAME	REF. JAAVSO YR. VOL. PGE.	CHART	SEQUENCE (p;V;v;step;C)	REMARKS
<u>UMA</u> CK	72 1 29	X	p	Variable 12: (1900) 11h56m28s +32°27.4'
<u>VUL</u> T	73 2 76	X	v	

NOTES:

1. Mira variable at (1900) 18h00m59s -27°26'.
2. Appears to be identifiable with symbiotic star AS 304 in Allen's (1984) catalogue. Position given there is (1950) 18h22m16.7s -28°37'42". Also appears to correspond with CoD-28°14567.
3. Z And type ? Position (1900) 18h18m49s -25°37'.
4. Suspected var. near 6P Sgr. Position (1900) 18h16m11s -25°01.2'. Small range, 15^m.2 -16^m.8 p. The finder chart identifies star A as CoD -24°14244. This is incorrect. Star A = -24°14219 = HD 168574 (sp. M2). The dimensions of the chart are 17' x 3.4', not 100' x 20'.
5. Star field as shown in Fig. 4 of Taylor's (1976) paper cannot be identified at or near the rough published position on Henry Draper Extension chart or Franklin Adams chart 62. Coordinates in error? Taylor gives (1900) 18h02m -26°52'.
6. Suspected var. at (1900) 18h25.1m -15°47'. Star field as shown in Taylor's (1976) paper is difficult to identify. Inaccurate coordinates?
7. Supplement 3(1976) to GCVS (3rd ed.,1969) gives different R.A.(1900): 18h22m52s.