

MORE VARIABLE STARS AMONG BRIGHT VISUAL BINARIES

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Abstract

A Catalogue of Variable and Visual Binary Stars by D. Proust, F. Ochsenbein, and B. Pettersen (1981) contains "the cream of the crop" of such systems. The catalogue, however, is far from complete. In checking my own compilations for the forthcoming revision of the Bright Star Catalogue, I find that I have 214 variable stars among the Bright Stars that are members of visual binary or multiple systems (not including the systems discovered by occultations or speckle interferometry, astrometric binaries, or spectroscopic binaries). Of these, only about half (102 stars) are in the Proust-Ochsenbein-Pettersen catalogue. In addition, 533 un-named variables and stars suspected of variability, but needing further confirmation, are also members of visual double or multiple systems.

The named variables in the Bright Star Catalogue that are not included in A Catalogue of Variable and Visual Binary Stars are identified in Table I. In the third column the numbers refer to Aitken Double Star Catalogue stars (Aitken 1932), W to other systems in C. Worley's up-dated (unpublished) version of the Lick Innes Double Star Catalogue (Jeffers et al. 1963), and I to Innes Double Star Catalogue (1927).

REFERENCES

- Aitken, G. A. 1932, New General Catalogue of Double Stars, Carnegie Institute of Washington, Publication No. 417, Washington, DC.
- Innes, R. T. A. 1927, Southern Double Star Catalogue, Union Observatory, Johannesburg.
- Jeffers, H. M., van den Bos, W. H., and Greeby, F. M. 1963, Publ. Lick Obs. 21.
- Proust, D., Ochsenbein, F., and B. Pettersen, 1981, Bull. AFOEV, No. 15, 5-12.

TABLE I Additional Bright Stars That Are Components of Visual Doubles

HR	HD	ADS or <u>Other D</u>	<u>VAR</u>
15	358	94	α And
46	1014	180	AD Cet
193	4180	622	o Cas
284	5820	W	WW Psc
373	7672	W	AY Cet
401	8511	W	AV Cet
423	8879	W	R Scl
546	11502/3	1507	γ Ari
587	12292	W	AR Cet
710	15144	1849	AB Cet

HR	HD	ADS or Other_D	VAR	
976	20210	2433	V423	Per
985	20336	W	BK	Cam (optical?)
1003	20720	2472	τ^4	Eri
1099	22468	2644	V711	Tau
1122	22928	W	δ	Per
1131	23180	2726	\circ	Per
1231	25025	2904	γ	Eri
1325	26965	3093	DY	Eri
1351	27397	W	V483	Tau
1441	28843	W	DZ	Eri
1457	29139	3321	α	Tau
1496	29755	3380	DM	Eri
1505	30020	3409	DW	Eri
1547	30780	W	V480	Tau
1706	33959	3824	KW	Aur
1893	37020	4186	V1016	Ori
1903	37128	W	ϵ	Eri
1932	37479	4241	V1030	Ori
2095	40312	4566	θ	Aur
2100	40372	4555	V1004	Ori
2284	44458	4978	FR	CMa
2286	44478	4990	μ	Gem
2294	44743	W	β	CMa
2492	48917	W	FT	CMa
2539	50018	5534	OX	Aur
2628	52437	5687	FU	CMa
2646	52877	5719	σ	CMa
2745	56014	W	EW	CMa
2787	57150	W	NV	Pup
2845	58715	W	β	CMi
2973	62044	W	σ	Gem
3207	68273	W	γ^2	Vel
3240	69081	W	OS	Pup
3327/8	71487/8	W	NO	Pup
3457	74375	W	V343	Car
3521	75716	W	BO	Cnc
3588	77140	W	FZ	Vel
3634	78647	W	λ	Vel
3724	81009	7334	KU	Hya
3889	85040	W	DG	Leo
4050	89388	W	V337	Car
4101	90569	7781	CX	Leo
4133	91316	W	ρ	Leo
4184	92620	W	RX	LMi
4369	98088	8115	SV	Crt
4441	100261	W	\circ^1	Cen
4463	100733	W	V763	Cen
4552	103192	W	β	Hya
4621	105435	W	δ	Cen
4752	108662	8568	AI	Com

HR	HD	ADS or Other D	VAR
4824	110377	W	GG Vir
4853	111123	W	β Cru
4952	113904	W	θ Mus
5034	116072	W	V790 Cen
5082	117360	W	S Cha
5132	118716	W	ε Cen
5171	119796	W	V766 Cen
5223	120991	W	V767 Cen
5226	121130	9039	CU Dra
5267	122451	W	β Cen
5300	123782	W	CF Boo
5316	124367	W	V795 Cen
5440	127972	I	η Cen
5469	129056	W	α Lup
5527	130701	I	AX Cir
5551	131492	W	θ Cir
5597	133029	9477	BX Boo
5654	134943	W	FL Ser
5730	137387	W	κ^1 Aps
5747	137909	W	β CrB
5789	138918	9701	δ Ser
5849	140436	9757	γ CrB
5999	144668	W	V856 Sco
6020	145366	W	δ^1 Aps
6117	148112	10054	ω Her
6254	152107	10227	V637 Her
6326	153882	10310	V451 Her
6392	155603	W	V915 Sco
6495	157967	W	V640 Her
6527	158926	W	λ Sco
6622	161783	W	V539 Ara
6662	162724	W	V906 Sco
6773	165814	W	V3792 Sgr
6832	167618	W	η Sgr
6920	170000	11311	ϕ Dra
7074	173948	W	λ Pav
7287	179761	12182	V1288 Aql
7536	187076	W	δ Sge
7566	187849	13014	V1509 Cyg
7736	192640	W	V1644 Cyg
7924	197345	14172	α Cyg
7977	198478	14337	V1661 Cyg
8097	201601	14702	γ Equ
8130	202444	14787	τ Cyg
8146	202904	14831	ν Cyg
8260	205637	W	ε Cap
8308	206778	15268	ε Peg
8560	213080	W	δ^2 Gru
8575	213389	W	V350 Lac
8815	218634	16550	GZ Peg
8911	220825	W	κ Psc
9018	223385	17022	V566 Cas