BBSAG Bulletin 69

1983 December 5

102nd List of Minima of Eclipsing Binaries

The following table lists 366 visual minima obtained mainly during 1983 October and November by the observers

RB	Roland Boninsegna, Dourbes, Belgium
JBu	Jaime Busquets, Valencia, Spain
CDa	Christos Daratsakis, Chania, Greece
RD	Roger Diethelm, Rodersdorf, Switzerland
DE	Demetrius P.Elias, Penteli, Greece
SFe	Stéphane Ferrand, Bougival, France
RG	Robert Germann, Wald, Switzerland
MKo	Michael Kohl, Uster, Switzerland
BK	Bruce A.Krobusek, Mayfield, Ohio USA
RLe	Robert Leyman, Leval-Trahegnies, Belgium
KL	Kurt Locher, Grüt, Switzerland
SM	Salvatore Mammoliti, Reggio Calabria, Italy
AMa	Antonio Maraziti, Catanzaro, Italy
GM	George Mavrofridis, Nikea, Greece
APa	Aristos Parris, Larisa, Greece
HP	Hermann Peter, Otelfingen, Switzerland
TS	Thomas Schildknecht, Evilard, Switzerland
NS	Nikolaos Stoikidis, Larisa, Greece
PWi	Patrick Wils, Niel, Belgium

The O-C values refer to the linear elements of the GCVS 1969, disregarding improved elements in the 1971, 1974, and 1976 supplements to the GCVS. Reductions were made mainly using the tracing paper method.

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(footnotes to page 2 :)

* GCVS 1969 period erroneous, O-C according to the GCVS 1976 : +.025 +.021 +.022 +.016 +.028 +.024

** O-C according to the GCVS would amount to one whole period, O-C according to the elements of BBSAG Bulletin 57, page 6 : +.001

*** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.109

**** no period given by the GCVS 1969, O-C according to the GCVS 1974: +.117

***** O-C according to the GCVS would amount to several entire periods, O-C according to the elements of BBSAG Bulletin 38, page 6 : +.005 +.003

****** not contained in the GCVS, O-C according to the elements of BBSAG Bulletin 65, page 6 : +.129 +.138

§ §§ ambiguous minimum orders due to the lack of pre-recent observations : Judged from the O-C, § should be secondary and §§ primary, but judged from the observed brightness, reversely.

§§§ GCVS period erroneous, O-C according to the elements in BBSAG Bulletin 53, page 5 : -.007

§§§§ not contained in the GCVS, O-C according to the elements in BBSAG Bulletin 67, page 4 : .000

current no.	star	order	minimum JD hel 244...	O-C	n	observer
20597	RT And	I	5579.617	-.018	15	BK
20598	TT And	I	5621.496	-.072	12	HP
20599		I	5635.337	-.057	11	HP
20600	UU And	I	5611.318	+.125	7	KL
20601	WZ And	I	5614.596	-.025	10	BK
20602		II	5641.381	-.023	7	HP
20603		I	5646.583	-.038	7	MKo
20604		I	5647.290	-.027	6	KL
20605		I	5649.362	-.042	5	MKo
20606	XZ And	I	5609.495	-.051	11	MKo
20607		I	5617.631	-.059	6	KL
20608		I	5635.279	-.056	5	NS
20609		I	5635.280	-.055	8	HP
20610		I	5635.281	-.054	9	MKo
20611		I	5635.291	-.044	8	RG
20612	AB And	I	5603.353	+.026	10	PWi
20613		I	5614.636	+.025	15	BK
20614		I	5615.635	+.029	10	BK
20615	EP And	II	5611.354	*	4	MKo
20616		I	5611.551	*	7	MKo
20617		I	5612.361	*	6	MKo
20618		I	5630.539	*	8	KL
20619		II	5636.411	*	7	MKo
20620		II	5649.340	*	8	MKo
20621	EX And	I	5635.587	**	6	KL
20622	GZ And	I	5595.443	***	10	PWi
20623	XZ Aqr	I	5635.336	****	9	KL
20624	AT Aqr	§§	5610.289	+.049	6	KL
20625	AU Aqr	I	5612.296	-.003	4	KL
20626	AY Aqr	§§	5610.309	-.011	5	KL
20627		§§	5611.302	-.005	6	KL
20628		§§	5612.292	-.003	6	KL
20629	CX Aqr	I	5585.634	+.020	8	BK
20630		I	5603.424	+.019	8	PWi
20631		I	5612.315	+.014	6	NS
20632		I	5612.319	+.019	7	RG
20633		I	5613.429	+.016	7	HP
20634		I	5622.319	+.010	6	NS
20635		I	5622.331	+.023	4	GM
20636		I	5632.334	+.017	6	KL
20637		I	5637.340	+.020	8	NS
20638	CZ Aqr	I	5622.381	.000	5	NS
20639		I	5635.329	+.006	8	MKo
20640		I	5635.331	+.009	8	HP
20641	OO Aql	I	5585.622	-.062	11	BK
20642		I	5587.649	-.062	13	BK
20643		I	5603.357	-.065	13	PWi
20644	V 343 Aql	I	5609.266	-.026	6	KL
20645		I	5644.328	-.012	11	HP
20646	V 346 Aql	I	5611.423	-.016	9	HP
20647	V 479 Aql	I	5612.331	+.014	6	KL
20648	V 803 Aql	II	5612.323	*****	7	KL
20649		II	5621.280	*****	5	KL
20650	SS Ari	II	5621.289	-.106	7	RG
20651		I	5635.294	-.107	7	RG
20652		I	5641.381	-.110	7	HP
20653	TX Ari	I	5617.688	-.134	5	KL
20654	WW Aur	I	4689.402	-.002	14	SM
20655		I	4732.324:	-.005:	12	SM
20656		I	5434.306	+.012	11	SM
20657		I	5642.592:	-.007:	22	SFe
20658	CL Aur	I	5647.388	+.052	6	KL
20659	HL Aur	I	5649.299	.000	6	MKo
20660	Y Cam	I	5649.412	+.187	10	MKo
20661		I	5659.357	+.216	6	KL
20662	RY Cnc	I	5644.507	-.031	6	KL
20663	NSV 4187 Cnc	I	5617.695	******	4	KL
20664		II	5660.566	******	7	KL
20665	EG CMa	I	5635.534	§§§	4	KL
20666	AK CMi	I	5625.570	+.021	6	KL
20667		I	5629.530	+.020	10	KL
20668	TY Cap	I	5613.346	-.126	5	NS
20669		I	5613.364	-.108	10	HP
20670	NSV 13478 Cap	II	5641.353	§§§§	7	KL
20671	RZ Cas	I	4468.466	+.003	33	JBu
20672		I	4645.370	+.010	15	SM
20673		I	4651.345	+.009	15	SM
20674		I	4694.371:	+.006:	14	SM
20675		I	4811.500	+.001	30	JBu
20676		I	4914.293	+.002	22	SM
20677		I	5215.487	-.006	11	SFe
20678		I	5251.360	+.010	11	SM
20679		I	5257.335	+.008	27	SM
20680		I	5282.432	+.005	14	SFe
20681		I	5287.218	+.010	12	SM
20682		I	5294.383	+.004	11	SFe
20683		I	5294.389	+.010	30	SM
20684		I	5312.318	+.010	25	SM
20685		I	5343.381	-.003	4	RLe
20686		I	5416.302	+.007	28	SM
20687		I	5459.328	+.005	13	SM
20688		I	5527.452	-.001	22	JBu
20689		I	5558.528	-.001	23	SFe
20690		I	5577.648	-.004	14	SFe
20691		I	5588.411	+.001	20	AMa
20692		I	5595.580	-.001	13	SFe
20693		I	5600.364	+.002	16	RLe
20694		I	5607.533	-.001	15	SFe
20695		I	5612.310	-.005	5	NS
20696		I	5638.611	.000	15	BK
20697		I	5643.387	-.004	13	SFe
20698		I	5649.372:	+.004:	6	SFe

current no.	star	minimum order	JD hel 244...	O-C	n	observer
20699	TV Cas	I	5597.575	-.033	15	SFe
20700	XX Cas	I	5603.417	+.020	7	PWi
20701	AB Cas	I	5609.508	+.006	10	MKo
20702		I	5646.419	+.010	7	MKo
20703	IR Cas	I	5644.279	-.102	7	HP
20704		I	5661.297	-.101	6	KL
20705	IV Cas	I	5646.519	+.135	8	MKo
20706	KT Cas	I	5644.276	-.085	5	KL
20707	OR Cas	I	5614.310	+.044	8	PWi
20708	V 389 Cas	I	5636.498	+.288	7	KL
20709		I	5646.486	+.297	9	MKo
20710	V 442 Cas	I	5644.276	*	5	KL
20711	V 523 Cas	I	5603.412	**	12	PWi
20712		I	5604.344	**	10	PWi
20713		II	5609.370	**	9	MKo
20714		I	5609.489	**	7	MKo
20715		I	5611.353	**	7	MKo
20716		II	5611.470	**	6	MKo
20717		II	5613.343	**	6	MKo
20718		I	5613.457	**	8	MKo
20719		I	5625.611	**	6	KL
20720		I	5634.259	**	6	KL
20721		II	5635.307	**	7	MKo
20722		II	5649.328	**	7	MKo
20723	U Cep (n)	I	5588.694	+.061	16	BK
20724	(n)	I	5613.630	+.066	5	KL
20725	SU Cep	II	5612.299	+.005	6	RG
20726	TV Cep	I	5635.480	+.097	8	KL
20727	CW Cep	I	5621.308	-.016	9	RD
20728	EG Cep	I	5587.626	+.025	14	BK
20729		I	5588.716	+.025	16	BK
20730		I	5603.423	+.028	8	PWi
20731	NSV 817 Cep	II	5603.430	***	6	PWi
20732		II	5604.351	***	6	PWi
20733		II	5617.629	***	6	KL
20734		I	5629.653	***	5	KL
20735		I	5634.395	***	10	KL
20736		I	5641.489	***	7	KL
20737		I	5644.334	***	7	KL
20738		II	5647.396	***	6	KL
20739		I	5649.500	***	7	KL
20740		I	5659.464	***	4	KL
20741	SS Cet	I	5636.467	-.055	10	KL
20742	TW Cet	II	5625.541	-.030	8	KL
20743	VY Cet	II	5618.376	****	6	KL
20744		II	5618.378	****	5	NS
20745		II	5618.385	****	5	APa
20746		II	5647.340	****	6	KL
20747	AA Cet	I	5624.537	*****	5	KL
20748		II	5634.450	*****	6	KL
20749		I	5659.388	*****	6	KL
20750	UW Cyg	I	5636.297	+.027	7	KL
20751	WW Cyg	I	5613.327	+.036	5	NS
20752		I	5613.328	+.037	6	MKo
20753		I	5613.331	+.039	13	HP
20754	WZ Cyg	I	5609.347	+.028	8	MKo
20755		I	5613.439	+.029	7	MKo
20756		I	5623.369	+.023	6	HP
20757	ZZ Cyg	I	5611.374	-.035	7	HP
20758		I	5635.254	-.042	8	HP
20759	AE Cyg	I	5621.330	+.018	10	RG
20760	BR Cyg	I	5610.447	+.012	6	KL
20761		I	5634.439	+.018	6	KL
20762		I	5646.421	+.007	10	MKo
20763	CG Cyg	I	5610.295	-.045	8	RG
20764		I	5634.305	-.018	9	HP
20765	KR Cyg	I	5644.334	-.024	10	HP
20766	V 387 Cyg	I	5640.296	+.064	7	KL
20767	V 388 Cyg	I	5603.383	-.148	14	PWi
20768	V 456 Cyg	I	5632.347	+.042	10	HP
20769	V 525 Cyg	I	5621.472	+.415	21	KL
20770		I	5621.479	+.422	21	DE
20771	V 616 Cyg	I	5641.410	-.178	7	KL
20772	V 687 Cyg	I	5642.270	+.014	10	HP
20773	V 698 Cyg	I	5650.6	-.4	4	KL
20774	NSV 13198 Cyg	I	5640.397	******	5	KL
20775	NSV 13250 Cyg		5642.4	*******	7	KL
20776	W Del	I	5611.433	+.157	12	MKo
20777		I	5611.443	+.167	6	KL

* not contained in the GCVS 1969, O-C according to the GCVS 1974: -.251

** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.009 +.007 +.008 +.011 +.005 +.005 +.008 +.006 +.008 +.009 +.006 +.006

*** not conteined in the GCVS, O-C according to the elements of BBSAG Bulletin 63 p.6: +.103 +.079 +.121 +.091 +.106 +.110 +.119 +.108 +.085 +.122

**** GCVS 1969 period erroneous, O-C according to the GCVS 1976 : -.009 -.007 .000 -.014

***** not contained in the GCVS 1969, O-C according to the GCVS 1974: -.024 -.029 -.024

****** not contained in the GCVS, O-C according to the elements BBSAG Bull. 68, p.7: -.020

******* " " " " " " " " " " " " " " 68, 6: -.2.0

current no.	star	minimum order	JD hel 244...	O-C	n	observer
20778	TT Del	I	5611.396	+.065	15	HP
20779		I	5611.406	+.076	12	MKo
20780		I	5614.276	+.074	7	NS
20781		I	5634.363	+.064	10	HP
20782	TY Del	I	5613.286	+.030	8	HP
20783		I	5613.287	+.031	6	NS
20784		I	5613.294	+.038	6	MKo
20785		I	5644.258	+.033	9	HP
20786	YY Del	I	5647.296	+.030	7	RG
20787	FZ Del	I	5615.601	-.010	15	BK
20788		I	5642.231	-.009	6	KL
20789	Z Dra	I	5659.443	+.022	8	KL
20790	RZ Dra	II	5588.622	-.025	8	BK
20791		I	5604.324	-.023	10	HP
20792		I	5647.289	-.027	8	RG
20793	AI Dra	I	5177.356	+.001	22	SM
20794		I	5219.314	.000	16	SM
20795		I	5231.301	-.001	20	SM
20796		I	5575.383	+.021	9	RB
20797		I	5641.305	+.009	11	RB
20798	S Equ	I	5603.344	+.047	9	PWi
20799	WX Eri	I	5611.517	-.002	11	MKo
20800		I	5611.527	+.009	6	KL
20801		I	5625.527	+.012	6	KL
20802		I	5649.386	-.003	6	MKo
20803	AM Eri	I	5621.636	*	7	KL
20804		I	5635.572	*	6	KL
20805		I	5641.574	*	6	KL
20806	AF Gem	I	5649.438	-.024	8	MKo
20807	BT Gem	I	5649.521	-.059	7	KL
20808	CK Gem	I	5644.567	-.022	7	KL
20809	SZ Her	I	5615.284	+.041	7	NS
20810		I	5624.281	+.039	6	NS
20811		I	5642.276	+.036	10	HP
20812	BO Her	I	5623.333	+.021	6	HP
20813	DQ Her	I	5610.290	+.011	7	KL
20814		I	5621.326	+.011	12	KL
20815		I	5621.327	+.011	14	DE
20816	GL Her	I	5641.259	+.091	6	KL
20817	MT Her	I	5610.272	+.036	6	KL
20818	DE Hya	I	5641.644	+.012	8	KL
20819		I	5641.644	+.013	8	TS
20820	SW Lac	II	5610.663	-.157	10	BK
20821	VX Lac	I	5603.381	-.081	15	PWi
20822	VY Lac	II	5621.354	-.007	12	RD
20823	AU Lac	I	5634.338	-.079	6	KL
20824	DG Lac	I	5621.449	+.246	9	HP
20825		I	5641.301	+.240	6	KL
20826		I	5641.321	+.260	8	HP
20827	PP Lac	§	5603.452	**	6	PWi
20828		§	5614.294	**	6	PWi
20829	Y Leo	I	5623.604	+.138	10	CDa
20830		I	5623.604	+.138	10	KL
20831	RS Lep	I	5624.581	-.007	7	CDa
20832		I	5624.583	-.005	7	KL
20833	RY Lyn	I	5635.446	***	6	KL
20834	TT Lyr	I	5621.365	.000	15	HP
20835	TZ Lyr	I	5644.282	+.040	11	HP
20836	UZ Lyr	I	5611.479	+.027	9	MKo
20837		I	5613.369	+.026	12	HP
20838		I	5613.370	+.027	10	MKo
20839		I	5632.283	+.027	9	HP
20840		I	5649.310	+.033	7	MKo
20841	EW Lyr	I	5640.263	+.089	6	KL
20842	GZ Lyr	I	5644.315	****	7	KL
20843	AY Mon	I	5641.501	-.281	6	KL
20844	CE Mon	new I	5641.680	+.237	10	KL
20845	FN Mon	I	5649.562	+.132	6	KL
20846	RV Oph	I	5611.294	.000	5	MKo
20847	RZ Oph	I	5608.9:	+.2:	9	RG
20848	V 449 Oph	I	5622.261	+.046	5	GM
20849	V 508 Oph	II	5632.310	+.008	5	KL

* O - C according to the GCVS amounts to several entire periods, O - C according to the elements of BBSAG Bulletin 50, page 5: -.024 -.014 -.027

** no period given by the GCVS, O - C according to Figer's (1st set) elements IBVS 1231: +.190 +.203

*** no period given by the GCVS, O - C according to the elements by Samolyk & Wedemayer, JAAVSO 6, page 49, 1977: +.036

**** GCVS 1969 elements incomplete, O - C according to the GCVS 1976: +.006

§ same case as AT and AY Aqr page 2, see footnote page 1

current no.	star	minimum or- der	JD hel 244...	O-C	n	ob- ser- ver
20850	V 752 Oph	I	5612.296	*	6	KL
20851	V 1010 Oph	I	5131.364	-.101	16	SM
20852		I	5172.384	-.090	25	SM
20853		I	5178.341	-.086	14	SM
20854		I	5551.378:	-.098:	20	SM
20855	QT Ori neu	I	5644.439	-.320	7	KL
20856	TY Peg	I	5634.339	-.035	5	HP
20857		I	5634.343	-.032	13	HP
20858	UX Peg	I	5612.301	-.026	7	MKo
20859		I	5649.371	-.027	10	MKo
20860	BN Peg	I	5632.262	-.280	6	HP
20861		I	5647.242	-.280	6	MKo
20862		I	5648.380	-.281	6	MKo
20863	BO Peg	I	5612.323	-.030	5	RG
20864	DI Peg	I	5624.292	-.019	5	NS
20865	EE Peg	I	5603.323	+.071	7	PWi
20866	Z Per	I	5659.246	+.030	6	KL
20867	RT Per	I	5613.375	-.075	8	MKo
20868		I	5613.378	-.072	5	NS
20869		I	5619.322	-.074	6	NS
20870		I	5619.323	-.073	9	KL
20871		I	5619.328	-.068	8	APa
20872		I	5641.403	-.077	9	HP
20873		I	5641.408	-.072	9	MKo
20874		I	5646.495	-.081	11	MKo
20875	RV Per	I	5646.573	+.026	9	MKo
20876	WY Per	I	5649.682	-.023	9	KL
20877	XZ Per	I	5611.504	+.002	9	MKo
20878		I	5640.311	+.018	6	KL
20879		I	5649.510	+.004	7	MKo
20880	IU Per	I	5611.436	+.071	8	MKo
20881		I	5641.431	+.070	8	MKo
20882		I	5642.274	+.056	4	KL
20883		I	5646.564	+.061	9	MKo
20884	KW Per	I	5613.452	+.048	10	MKo
20885		I	5614.376	+.041	7	NS
20886		I	5615.313	+.047	6	NS
20887		I	5640.458	+.048	5	KL
20888		I	5641.382	+.040	6	MKo
20889		I	5641.392	+.051	8	HP
20890	β Per	I	5638.648	-.153	25	BK
20891		I	5647.257	-.146	11	RG
20892	Y Psc	I	5635.241	+.163	5	NS
20893	RV Psc	II	5647.255	**	8	RG
20894	SX Psc	I	5621.471	-.031	9	HP
20895		I	5622.292	-.036	6	GM
20896		I	5636.327	-.041	6	KL
20897		I	5641.282	-.042	7	RG
20898	SZ Psc	I	5604.324	***	6	PWi
20899	UV Psc	I	5613.392	+.029	7	HP
20900		I	5632.332	+.024	7	HP
20901	BT Pup neu	II	5644.647	+.058	6	KL
20902	UZ Sge	I	5604.388	+.047	11	HP
20903		I	5635.407	+.046	7	KL
20904		I	5635.409	+.047	7	TS
20905		I	5644.275	+.050	7	HP
20906	EG Sgr	I	5659.232	****	5	KL
20907	V 505 Sgr	I	4816.462	-.021	22	JBu
20908		I	5560.483	-.026	21	JBu
20909		I	5560.483	-.026	23	SFe
20910		I	5643.284	-.026	8	RB
20911	SV Tau	I	5611.488	-.028	11	MKo
20912	AC Tau	I	5636.590	+.062	4	KL
20913	AH Tau	I	5635.322	-.049	8	RG
20914		I	5641.307	-.051	6	RG
20915		I	5647.290	-.058	7	RG
20916	HU Tau	I	5593.574:	+.040:	9	SFe
20917	V Tri	I	5611.348	+.017	8	MKo
20918		I	5618.368	+.014	7	KL
20919		I	5618.380	+.025	6	NS
20920		I	5621.298	+.018	8	RG
20921		I	5635.339	+.014	8	HP
20922		I	5635.340	+.015	8	RG
20923		I	5635.340	+.015	8	MKo
20924		I	5636.511	+.016	6	KL
20925		I	5646.462	+.018	7	MKo
20926	X Tri	I	5610.663	-.043	15	BK
20927		I	5621.341	-.052	12	RG
20928		I	5621.349	-.043	7	NS
20929		I	622.320	-.045	6	NS
20930		I	5623.290	-.046	5	NS
20931		I	5625.237	-.043	6	KL
20932		I	5655.352	-.045	7	KL
20933		I	5658.268	-.044	5	GM
20934	RV Tri	I	5623.308	-.036	5	NS

* no period given by the GCVS, O - C according to the elements in BBSAG Bulletin 27, page 4, footnote 1 : +.071

** GCVS 1969 period erroneous, O - C according to the GCVS 1976 : -.018

*** GCVS period too inaccurate for reasonable reduction, O - C according to the elements in the ROCZNIK ASTRONOMICZNY 54, 1983 : -.053

**** O - C according to the GCVS but with half its period : -.156

current no.	star	minimum or- der	JD hel 244...	O-C	n	ob- ser- ver
20935		I	5623.308	-.036	5	GM
20936		I	5635.372	-.031	9	HP
20937		I	5641.401	-.031	8	HP
20938	RW Tri	I	5621.409	-.002	10	DE
20939		I	5621.409	-.002	9	KL
20940	VV UMa	I	5662.734	+.128	8	RG
20941	XZ UMa	I	5646.499	-.069	10	MKo
20942	NSV 5152 UMa		5649.588	*	6	KL
20943	AW Vul	I	5623.370	-.019	6	HP
20944		I	5636.268	-.024	6	KL
20945		I	5644.336	-.022	8	HP
20946	AX Vul	I	5659.274	-.006	7	KL
20947	AY Vul	I	5621.328	+.043	5	NS
20948		I	5621.328	+.043	9	HP
20949		I	5621.331	+.047	7	KL
20950	BE Vul	I	5613.387	+.012	8	HP
20951		I	5613.390	+.015	9	MKo
20952		I	5641.320	+.008	7	HP
20953		I	5641.328	+.016	9	MKo
20954		I	5655.290	+.010	7	KL
20955	BO Vul	I	5629.272	-.088	7	KL
20956	BP Vul	I	5611.295	+.011	7	RG
20957		I	5611.302	+.018	8	MKo
20958	BU Vul	I	5641.294	+.017	6	RG
20959	CD Vul	I	5611.338	-.019	8	HP
20960		I	5635.270	-.019	10	HP
20961	NO Vul	II	5634.244	**	7	KL
20962		II	5644.258	**	7	KL

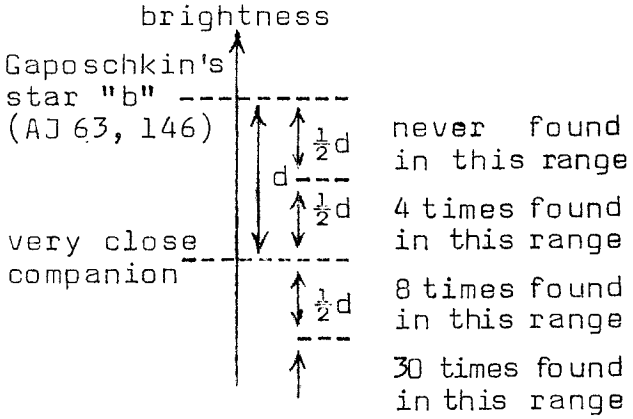
* period unknown

** not contained in the GCVS 1969, O - C according to the GCVS 1976: +.009 +.012

6th Report on Visual Survey of NSV Stars Suspected to be Eclipsing

Improvements with respect to previous reports are underlined.

NSV no.	Constellation	catalogued amplitude	* type	resulting amplitude	* type	number nights surveyed	remarks
588	Cas	1.1p	EA	0.3v	E	25	
817	Cep	1.0p	EA	1.1v	EB	67	see BBSAG Bulletin 63, page 6
1126	Ari	1.0p	S:	0.2v	CST:	26	
1776	Ori	0.9p	E	0.6v	S	4	
2724	Ori	1.7p	S	0.4v	S	4	
4187	Cnc	1.7p	S	0.8v	EW	26	see BBSAG Bulletin 65, page 6
5152	UMa	0.8p	EA:	0.3v	E	2	minimum above, this page
5519	UMa	1.0p	EA	0.1v	CST:	29	
5605	Vir	0.9p	S:	1.0pv	RR:	(41)	investigated on 42 patrol exposures taken 1960-1980 by P.Wild. The classification as a probable RR type is purely based on statistical evidence as follows:



13250	Cyg	1.5p	S	1.1v	EB or CEP	36	