

# BBSAG Bulletin 40

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1978 December 4

## 73<sup>rd</sup> List of Minima of Eclipsing Binaries

The following table lists 181 minima obtained visually mainly during 1978 November by the observers

CA	Claudio Agnesoni, Siena, Italy
MA	Μαρία Άνδρακάκου, Άθήνα, Greece
MFi	Maurizio Franchini, Cerro Maggiore, Italy
RG	Robert Germann, Wald, Switzerland
KL	Kurt Locher, Grüt, Switzerland
GM	Γεώργιος Μαυροφρύδης, Άθήνα, Greece
DM	Δημοσθένης Μουρίκης, Πειραιάς, Greece
EN	Edmond Nezry, Toulouse, France
CPa	Carlo Pampaloni, Firenze, Italy
MP	Maurizio Penna, Asti, Italy
HP	Hermann Peter, Stelfingen, Switzerland
CP	Cosimo Plasmati, Matera, Italy
EP	Ennio Poretti, Arconate, Italy
GS	Γεώργιος Στεφανόπουλος, Άγία Παρασκευή, Greece
NZ	Nicola Zaccaria, Pisa, Italy

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: +.014 -.001
- \*\* not contained in the GCVS 1969, O-C according to the GCVS 1976: +.046 +.044 +.054: +.050 +.049 +.045
- \*\*\* O-C according to the GCVS 1969 exceeds 1 period, O-C according to the elements of BBSAG Bulletin 30, page 6: +.002 +.015
- \*\*\*\* not contained in the GCVS 1969, O-C according to the GCVS 1974: -.007 -.011 -.012 +.001 -.009 -.005
- \*\*\*\*\* not contained in the GCVS 1969, O-C according to the GCVS 1976: -.006 +.005 +.004
- § GCVS 1969 period erroneous, O-C according to the GCVS 1976: -.015 -.021 -.006
- §§ not contained in the GCVS 1969, O-C according to the GCVS 1974: -.013 -.017
- §§§ GCVS elements incomplete, O-C according to Martins' elements PASP 87, p.168, 1975: -.320

cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n ser- ver	ob- ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n ser- ver	ob- ser- ver
13645	RT And	I	3790.318	-.008	9	MP	13700		I	3770.461	-.037	20	EN
13646		I	3824.273	-.015	16	RG	13701		I	3781.364	-.009	8	MP
13647	TT And	I	3821.384	-.066	10	KL	13702		I	3830.309	-.005	12	EP
13648	XZ And	I	3823.310	-.035	6	KL	13703	AB Cas	I	3835.299	+.002	8	HP
13649		I	3831.451	-.037	6	KL	13704	V 523 Cas	II	3823.259	*****	8	KL
13650		I	3838.239	-.036	7	KL	13705		II	3831.450	*****	10	KL
13651	AB And	II	3815.297	+.035	7	RG	13706		I	3836.239	*****	6	KL
13652		II	3823.250	+.022	8	RG	13707	U Cep	I	3828.593	+.047	12	KL
13653		II	3824.251	+.027	8	RG	13708	EG Cep	I	3831.227	+.026	10	KL
13654	BX And	I	3837.346	-.004	8	HP	13709		I	3832.312	+.021	7	RG
13655	EP And	I	3831.453	*	7	KL	13710	TW Cet	I	3831.372	-.021	10	RG
13656		II	3832.448	*	6	KL	13711		I	3832.326	-.018	7	RG
13657	GZ And	I	3814.579	**	11	KL	13712		II	3836.286	-.018	8	RG
13658		II	3821.287	**	6	KL	13713		II	3841.348	-.026	7	KL
13659		II	3822.212	**	6	KL	13714	VY Cet	II	3822.302		10	KL
13660		II	3828.308	**	11	KL	13715		II	3828.430		10	KL
13661		I	3828.460	**	7	KL	13716		I	3833.387		10	KL
13662		II	3828.608	**	10	KL	13717	AA Cet	I	3814.425		8	KL
13663	RY Aqr	I	3835.289	-.099	8	HP	13718		I	3828.362		9	KL
13664		I	3837.254	-.101	6	HP	13719	RW Com	II	3831.700	-.046	6	KL
13665		I	3837.262	-.092	7	KL	13720	Y Cyg	I	3812.366	-.004	12	EP
13666	CZ Aqr	I	3831.314	+.010	10	KL	13721		I	3833.325	-.020	8	EP
13667		I	3837.353	+.010	8	KL	13722		I	3836.329	-.012	5	HP
13668		I	3838.224	+.018	5	KL	13723		I	3836.338	-.003	9	EP
13669	OO Aql	II	3823.269	-.040	10	RG	13724	WW Cyg	I	3828.358	+.021	10	KL
13670		II	3834.278	-.045	10	RG	13725	ZZ Cyg	I	3827.362	-.029	6	KL
13671	V 346 Aql	I	3831.282	-.016	9	RG	13726	V 382 Cyg	I	3836.276	-.096	8	HP
13672	V 803 Aql	II	3815.232	***	9	KL	13727	V 401 Cyg	I	3835.252	+.042	7	HP
13673		II	3815.245	***	6	GS	13728	V 477 Cyg	I	3811.403	-.014	28	CPa
13674	TT Aur	I	3821.437	+.014	11	KL	13729	V 548 Cyg	I	3828.279	-.066	7	RG
13675	WW Aur	I	3828.372	.000	17	CA	13730	TW Dra	I	3827.548	-.031	10	KL
13676	AR Aur	II	3812.379	-.001	12	EP	13731	AI Dra	I	3754.368	+.004	11	EP
13677		II	3812.381	+.001	21	CA	13732		I	3754.368	+.004	14	MFi
13678		II	3812.388	+.007	30	CPa	13733		I	3772.349	+.003	11	EP
13679	LY Aur	I	3808.416	****	10	EP	13734		I	3790.331	+.003	10	MP
13680		II	3810.413	****	12	EP	13735		I	3832.296	+.010	8	EP
13681		I	3812.413	****	12	EP	13736	CM Dra	I	3831.270	§§§	10	KL
13682		I	3832.439	****	11	EP	13737	S Equ	I	3830.307	+.023	13	HP
13683		II	3834.430	****	10	EP	13738	TZ Eri	I	3821.538	-.068	6	KL
13685		I	3836.436	****	12	EP	13739	WX Eri	I	3832.439	+.007	10	KL
13686	SV Cam	I	3781.355	-.004	7	MP	13740		I	3837.387	+.015	10	HP
13687	TY Cap	I	3811.270	-.095	9	HP	13741		I	3837.388	+.016	12	KL
13688	RZ Cas	I	3770.443	+.004	22	EN	13742	YY Eri	I	3776.633	-.006	5	KL
13689		I	3788.366	-.002	9	MP	13743		I	3821.481	-.007	12	KL
13690		I	3806.306	+.010	22	CA	13744		I	3831.446	-.008	7	KL
13691		I	3812.277	+.005	16	EP	13745		I	3832.410	-.009	7	KL
13692		I	3812.281	+.008	12	NZ	13746		II	3837.396	-.006	9	HP
13693		I	3812.281	+.008	15	CP	13747	ZZ Eri	II	3814.416	+.018	9	KL
13694		I	3812.286	+.013	13	CA	13748		I	3821.645	+.014	10	KL
13695		I	3818.253	+.003	11	NZ	13749	RW Gem	I	3828.501	-.001	10	KL
13696		I	3824.224	-.001	11	RG	13750	BT Gem	I	3837.410	-.053	11	KL
13697		I	3824.232	+.007	9	EP	13751	HR Gem	I	3832.410	-.009	7	KL
13698		I	3824.235	+.010	18	CA	13752	UX Her	I	3792.325	-.044	8	RG
13699	TV Cas	I	3752.368	-.003	11	MP	13753	u Her	I	3821.222	+.019	7	RG

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current no.	star	minimum or-der	JD hel 244...	G-C	n	ob-serve	current no.	star	minimum or-der	JD hel	G-C	n	ob-serve
13754		I	3823.264	+.010	8	RG	13791	RW PsA	II	3832.274	-.062	6	KL
13755	VW Hya	I	3837.642	-.126	11	KL	13792	AY Pup	II	3837.645	+.063	6	KL
13756	VY Hya	I	3821.703	-.013	8	KL	13793	DF Pup	I	3837.640	+.113	11	KL
13757		I	3827.708	-.012	8	KL	13794	RZ Pyx	I	3832.600	+.196	6	KL
13758		I	3831.704	-.019	10	KL	13795	U Sge	I	3837.301	+.004	7	KL
13759		I	3837.706	-.020	13	KL	13796		I	3837.305	+.008	9	HP
13760	SW Lac	II	3823.286	-.117	8	RG	13797	V 505 Sgr	I	3774.343	-.030	10	EP
13761		II	3824.249	-.116	8	RG	13798	RT Scl	I	3832.264	-.135	6	KL
13762		II	3831.306	-.115	7	RG	13799		I	3833.285	-.137	10	KL
13763		II	3832.264	-.119	7	RG	13800		I	3837.371	-.143	10	KL
13764		II	3833.230	-.115	7	RG	13801	RW Tau	I	3837.397	-.083	13	HP
13765		I	3836.278	-.114	6	RG	13802	AH Tau	II	3832.404	-.031	7	KL
13766	CM Lac	I	3822.250	-.001	12	RG	13803	AP Tau	II	3837.406	**	6	KL
13767	PP Lac	II	3823.292	*	6	KL	13804	BN Tau	I	3828.436	+.046	8	KL
13768	TZ Lyr	I	3827.241	+.038	11	KL	13805	HU Tau	I	3831.294	+.006	10	RG
13769		I	3836.224	+.031	6	KL	13806		I	3835.395	-.006	14	EP
13770		I	3837.279	+.028	7	HP	13807	V Tri	I	3815.347	+.010	7	RG
13771	UZ Lyr	I	3788.290	+.022	8	RG	13808	X Tri	I	3814.290	-.042	10	KL
13772	EW Lyr	I	3814.271	+.063	11	KL	13809		I	3815.264	-.040	5	MA
13773	FL Lyr	I	3830.296	-.004	11	HP	13810		I	3815.265	-.039	5	DM
13774	LZ Lyr	I	3837.325	+.203	8	KL	13811		I	3815.267	-.036	8	RG
13775	RW Mon	I	3828.495	-.002	9	KL	13812		I	3815.268	-.036	4	GM
13776	EQ Gri	I	3837.486	-.077	11	KL	13813	RW Tri	I	3821.299	-.002	6	KL
13777	FK Gri	I	3828.435	+.292	9	KL	13814	XZ Uma	I	3827.701	-.064	6	KL
13778	BN Peg	I	3833.328	-.203	9	RG	13815	Z Vul	I	3772.329	+.009	12	HP
13779	BY Peg	I	3833.257	+.065	9	KL	13816		I	3831.249	+.011	10	RG
13780	EE Peg	I	3771.458	+.062	20	EN	13817		I	3831.251	+.013	9	HP
13781	Z Per	I	3828.518	+.027	11	KL	13818	XZ Vul	I	3822.303	+.244	10	KL
13782	RT Per	I	3837.273	-.066	10	KL	13819	AY Vul	I	3831.208	+.024	12	KL
13783	ST Per	I	3832.248	-.015	6	KL	13820	BG Vul	I	3831.203	-.076	10	KL
13784	IZ Per	I	3836.356	-.011	12	EP	13821		I	3831.284	-.075	9	HP
13785	β Per	I	3832.241	-.104	23	RG	13822		I	3833.224	-.081	10	KL
13786		I	3832.258	-.087	8	EP	13823	BU Vul	I	3831.314	+.002	7	HP
13787	Y Psc	I	3831.434	+.158	11	KL	13824	CD Vul	I	3832.234	-.018	7	HP
13788	UV Psc	I	3821.548	+.019	7	KL	13825	NG Vul	I	3837.312	***	10	KL
13789		I	3835.324	+.019	7	HP							
13790		I	3841.345	+.013	11	KL							

\* no period given by the GCVS, G-C according to Figer's (1<sup>st</sup> set) elements IBVS 1231: +.112

\*\* GCVS 1969 elements incomplete, G-C according to the GCVS 1976: -.077

\*\*\* not contained in the GCVS 1969, G-C according to the GCVS 1976: +.004

E r r a t a

star concerned	bulletin no.	minimum no.	misprinted entry	misprinted value	correct value
SS Ari	39	13308	order	II	I
			G-C	-.081	+.122
		13309	order	II	I
			G-C	-.086	+.117
WW Aur	37	12505	order	I	II
V 498 Cyg	39	13428	G-C	-.07	+.07
DQ Her	39	13492	G-C	+.041	+.010

Contradictory Data on K 3 II 4796 Cygni

This star was suspected to be eclipsing with 13mpg maximum and 15mpg minimum by Morgenroth (Astronomische Nachrichten 256, p. 281, 1935) as a result from a photographic patrol. The author gave a finding chart in the same paper. However, I found it to be a visual binary of about 0<sup>m</sup>.4 difference in brightness, small or moderate difference in colour, and about 10" separation, i.e. inseparable in patrol photography. Therefore the reported 2<sup>m</sup> amplitude is inconsistent with any reasonable interpretation.

K. Locher

Index of Star Names, BBSAG Bulletins 31 to 40 \*

A "0" denotes absence of the star in the minimum list at the head of the bulletin.  
 "1" denotes occurrence of the star in the minimum list at the head of the bulletin.  
 A "-" across 0 or 1 means that the same issue contains a note or paper on one or more of the photometric parameters MAX, MIN, MAX-MIN, p, D, D<sub>n</sub>, d, d<sub>n</sub>.

Andromeda		V 346	10001 11111	AC	00000 01100
RT	11111 10111	V 417	00000 00010	AD	00000 01000
TT	00000 00111	V 479	00010 01100	AR	00000 01000
TW	00000 00010	V 600	00000 00010	Camelopardalis	
UU	00010 11100	V 003	00111 01011	Y	00101 10000
XZ	10111 11111	V 005	00110 00110	SV	10111 11101
AB	11111 10111	V 029	00001 00000	AL	00000 00100
AD	01000 00000	Aries		AQ	00000 00010
BL	00001 10010	RS	00000 00100	Cancer	
BX	10001 10011	SS	00000 00010	RY	10001 00010
CN	01001 00010	TX	00001 00000	TU	00000 10000
GK	00000 00010	Auriga		TX	00100 00000
GZ	00001 00111	RY	00010 10010	WW	00100 00000
Aquarius		TT	11100 10001	WX	01000 00000
RY	00110 00111	WW	11111 11101	WY	00100 10000
XZ	00111 00100	ZZ	00100 00000	Canes Venatici	
CR	00000 00110	AR	11101 11011	YZ	11100 11000
CX	10011 11110	CL	00000 10000	Canis Maior	
CZ	00010 00111	EP	10000 00000	R	01101 11000
EE	00000 00110	HL	11000 11100	TU	00000 11000
Aquila		IM	01000 00000	EG	00000 01000
XZ	00000 00010	LY	00000 11011	Canis Minor	
KP	00000 00100	Bootes		TY	00000 01000
LT	00001 01000	TU	00100 11100	XZ	00000 01000
00	01111 11111	TY	00010 00000	AK	11001 11000
V 337	00001 00010	VW	00010 00000		
V 342	00000 01110	YY	00000 01000		
V 343	00010 01110	ZZ	00000 00110		

\* preceding index see BBSAG Bulletin 30, p. 4-9