

BBSAG Bulletin 41

1

1979 February 5

74th List of Minima of Eclipsing Binaries

The following table lists 162 minima obtained visually mainly during 1978 December and 1979 January by the observers

CA	Claudio Agnesoni, Siena, Italy
RBe	Renaud Berquet, Reims, France
RB	Roland Boninsegna, Marcinelle, Belgium
AB	Alberto Buzzoni, Ferrara, Italy
JC	Jean-Pierre Clovin, Marcinelle, Belgium
GC	Giuseppe Cutispoto, Catania, Italy
PDa	Philippe Danthine, Montignies-sur-Sambre, Belgium
RD	Roger Diethelm, Reinach, Switzerland
RG	Robert Germann, Wald, Switzerland
RLe	Robert Leyman, Laval-Trahegnies, Belgium
KL	Kurt Locher, Grüt, Switzerland
ELo	Eric van Loo, Montignies-le-Tilleul, Belgium
CPa	Carlo Pampaloni, Firenze, Italy
HP	Hermann Peter, Otelfingen, Switzerland
EP	Ennio Poretti, Arconate, Italy
PR	Philippe Ralincourt, Tunis, Tunisia
GS	Γεώργιος Στεφανόπουλος, Άγία Παρασκευή, Greece
GT	Gilles Troisoux, Fleury-les-Aubrais, France
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.

(footnotes to page 2 :)

- * GCVS 1969 period erroneous, O-C according to the GCVS 1976:
-.001: +.002
- ** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.058 +.048 +.050
- *** no period given by the GCVS, O-C according to the elements of BBSAG Bulletin 27, p.7: +.040
- **** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.001
- ***** GCVS 1969 period erroneous, O-C according to the GCVS 1976:
-.003 -.011
- ***** not contained in the GCVS 1969, O-C according to the GCVS 1974: -.026
- ***** cf. page 4 of this issue

cur- rent no.	star	minimum or- der	JD hel 244...	0-C	ob- n ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	0-C	ob- n ser- ver
13826	RT And	I	3846.285	-.016	11 RG	13879		I	3880.411	+.009	8 EP
13827		I	3863.266	-.015	10 RG	13880		I	3886.378	.000	8 EP
13828		I	3878.360	-.016	8 HP	13881	TV Cas	I	3888.297	-.020	10 EP
13829	UU And	I	3869.364	+.103	7 KL	13882	CW Cas	I	3789.287	-.017	8 RD
13830		I	3878.292	+.114	11 KL	13883		I	3791.364	-.013	8 RD
13831	WZ And	I	3889.347	-.033	10 KL	13884	PV Cas	I	3868.390	+.083	8 RD
13832		I	3903.263	-.030	11 KL	13885	V 523 Cas	I	3854.231	****	6 KL
13833	XZ And	I	3888.461	-.035	11 KL	13886	U Cep	I	3838.556	+.038	22 GS
13834		I	3899.315	-.039	9 RG	13887		I	3848.539	+.049	11 KL
13835	AB And	I	3863.252	+.031	8 RG	13888		I	3863.494	+.045	17 GS
13836		II	3889.303	+.028	7 RG	13889		I	3873.468	+.048	26 GS
13837		II	3899.258	+.027	7 RG	13890		I	3878.460	+.054	5 KL
13838	BX And	I	3845.285	+.004	8 RG	13891		I	3888.421	+.042	11 KL
13839	EP And	II	3868.413:	*	8 RD	13892	EG Cep	I	3852.464	+.022	6 KL
13840		I	3870.235	*	10 KL	13893	TW Cet	I	3845.306	-.029	11 RG
13841	GZ And	I	3888.251	**	7 KL	13894		I	3845.320	-.015	10 KL
13842		II	3888.394	**	12 KL	13895		I	3846.267	-.018	8 RG
13843		I	3888.548	**	6 KL	13896	VY Cet	I	3845.319	*****	10 KL
13844	CZ Aqr	I	3863.235	+.010	7 KL	13897		I	3903.248	*****	5 KL
13845		I	3888.258	+.012	4 KL	13898	AA Cet	II	3905.295	*****	7 KL
13846	TX Ari	I	3903.317	-.132	6 KL	13899	W Crv	I	3888.713	-.004	13 KL
13847	WW Aur	I	3828.383	+.011	24 CPa	13900		I	3904.629	.000	11 KL
13848		I	3833.424	+.001	18 CA	13901	Y Cyg	I	3770.413	-.008	12 PR
13849		I	3876.354	+.007	10 EP	13902		I	3773.400	-.018	18 PR
13850		II	3890.240	+.005	10 EP	13903		I	3842.325	-.009	7 EP
13851	AR Aur	II	3812.382	+.002	17 AB	13904	UW Cyg	I	3845.326	-.004	10 KL
13852		II	3841.322	.000	8 EP	13905	ZZ Cyg	I	3878.275	-.035	11 KL
13853		I	3843.405:	+.015:	47 AB	13906	DO Cyg	I	3863.218	-.032	7 KL
13854	CL Aur	I	3890.339	+.045	7 KL	13907	V 548 Cyg	I	3846.318	-.080	7 RG
13855	IM Aur	I	3833.348	-.021	10 EP	13908	TW Dra	I	3889.294	-.036	7 KL
13856		I	3848.311	-.026	8 EP	13909	AI Dra	I	3888.638	+.007	11 KL
13857		I	3873.265:	-.018:	7 EP	13910	TY Del	I	3837.309	+.014	12 HP
13858	SV Cam	I	3889.282	-.017	7 RG	13911	FZ Del	I	3832.232	-.003	7 HP
13859		I	3904.725	+.006	5 KL	13912	TZ Eri	I	3889.304	-.061	6 KL
13860	YZ CVn	I	3904.716	***	6 KL	13913	WX Eri	I	3888.442	+.027	10 KL
13861	R CMa	I	3880.424	+.013	9 EP	13914	YY Eri	I	3889.316	-.007	8 RG
13862	RX CMa	I	3890.389	-.016	12 KL	13915		I	3899.288	-.002	7 RG
13863	AG CMi	I	3905.272	-.151	6 KL	13916	ZZ Eri	I	3899.412	+.027	6 KL
13864	AK CMi	I	3905.244	+.017	6 KL	13917	AM Eri	II	3852.468	*****	7 KL
13865	RZ Cas	I	3654.502	+.002	19 GT	13918		II	3888.240	*****	7 KL
13866		I	3715.461	+.003	19 RLe	13919		I	3890.302	*****	12 KL
13867		I	3746.540	+.006	14 JC	13920		I	3899.495	*****	6 KL
13868		I	3770.437	-.002	18 RLe	13921	RW Gem	I	3848.564	+.004	12 KL
13869		I	3770.440	+.001	13 PR	13922	SZ Her	I	3852.281	+.030	5 KL
13870		I	3776.414	-.002	11 PDa	13923		I	3899.737:	+.038:	6 KL
13871		I	3776.420	+.004	29 RLe	13924	VY Hya	I	3851.724	-.010	6 KL
13872		I	3812.283	+.010	15 AB	13925	W XZ Hya	I	3868.640	+.088	5 KL
13873		I	3819.443	-.001	11 PDa	13926	ER Hya	II	3899.710	-.067	11 KL
13874		I	3819.449	+.004	30 RLe	13927	SW Lac	I	3845.256	-.116	6 RG
13875		I	3831.413	+.016	21 NZ	13928		II	3899.295	-.120	7 RG
13876		I	3843.362	+.013	36 AB	13929	DG Lac	I	3878.325	+.206	12 HP
13877		I	3849.327	+.002	10 EP	13930	Y Leo	I	3888.607	+.109	11 KL
13878		I	3849.337	+.011	33 AB	13931		I	3905.467	+.108	7 KL

* * * * * see preceding page

cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n ser- ver	ob- serv	cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n ser- ver	ob- serv
13932	UV Leo	I	3848.693	-.005	7	KL	13960	GK Pup	I	3899.531	+.032	8	KL
13933		I	3899.699	-.006	8	KL	13961	RZ Pyx	II	3848.682	+.199	8	KL
13934	T LMi	I	3878.374	-.109	9	KL	13962		I	3899.534	+.190	11	KL
13935	TZ Lyr	I	3846.272	+.031	7	RG	13963		I	3905.445	+.194	7	KL
13936		I	3854.209	+.036	7	KL	13964	U Sge	I	3749.413	+.013	9	ELo
13937	TV Mon	I	3899.449	-.022	6	KL	13965		I	3749.415	+.015	11	RB
13938	BO Mon	I	3852.496	+.143	10	KL	13966	AU Ser	I	3904.634	**	8	KL
13939	U Oph	I	3777.306	-.008	8	GC	13967	RW Tau	I	3848.471	-.085	11	KL
13940	V 1010 Oph	I	3905.712	-.112	4	KL	13968	RZ Tau	I	3868.463	+.020	10	RD
13941	ER Ori	II	3889.277	-.020	6	RG	13969	AC Tau	I	3877.279	+.075	8	KL
13942	FL Ori	I	3852.330	+.092	10	KL	13970	AH Tau	I	3848.532	-.037	8	KL
13943		I	3869.382	+.083	5	KL	13971	CD Tau	I	3876.286	-.068	12	EP
13944	V 640 Ori	I	3903.349	-.007	7	KL	13972		II	3888.297	-.080	10	EP
13945		I	3905.366	-.011	6	KL	13973	V Tri	I	3832.334	+.026	8	RG
13946	BY Peg	I	3845.230	+.071	6	KL	13974	X Tri	I	3848.295	-.041	14	KL
13947	DI Peg	I	3863.256	-.017	7	RG	13975		I	3878.415	-.039	6	KL
13948		I	3878.202	-.019	6	KL	13976		I	3878.416	-.038	8	HP
13949	RV Per	I	3878.325	+.022	12	HP	13977	RW Tri	I	3852.368	-.005	4	KL
13950	ST Per	I	3869.325	-.014	7	KL	13978		I	3888.312	-.003	10	KL
13951	XZ Per	I	3870.241	+.008	7	KL	13979	K3Π 5959 Tri	I	3868.449	***	11	RD
13952		I	3878.302	+.007	9	HP	13980	W UMA	I	3605.440	-.125	7	RB
13953	QU Per	I	3890.445	*	7	KL	13981		I	3606.437	-.129	10	JC
13954	β Per	I	3740.483	-.106	16	RB	13982		I	3606.442	-.124	9	RB
13955		I	3852.306	-.109	9	RG	13983	UX UMa	I	3852.563	-.002	6	KL
13956	UV Psc	I	3848.241	+.020	12	KL	13984		I	3888.555	.000	5	KL
13957	UZ Pup	I	3878.468	-.027	6	KL	13985	AC UMa	I	3899.446	+.285	7	KL
13958	AY Pup	I	3905.400	+.053	8	KL	13986	VV Vir	I	3881.653	****	7	KL
13959	DF Pup	I	3888.566	+.123	10	KL	13987	BH Vir	I	3881.654	+.003	6	KL

* no period given by the GCVS, O - C according to the elements of BBSAG Bulletin 39, p.6: -.318

** GCVS 1969 period too inaccurate for reasonable reduction, O - C according to the GCVS 1974: -.008

*** period unknown

**** O - C according to the GCVS exceeds 2 periods, O - C according to the elements of BBSAG Bulletin 31, p.5: -.006

H I P e g a s i :

E r r o n e o u s G C V S C o o r d i n a t e

This EA binary is not contained in the GCVS issues prior to 1976, and in the latter the data are based on GCVS Reference no. 7474, where also a finder chart is published. After unsuccessful attempts to identify the star in the sky, I once found by chance the charted field 1 degree aside. Communication with one of the authors of the reference paper, G. Romano, then yielded the detection of a misprint even there, namely, as in the GCVS, +7° 42' instead of +6° 42' which is the correct 1900.0 declination.

K. Locher

A M E r i d a n i :

Evidence for Unequal Secondary Amplitude
Possible Improvement of the Period

Since this binary is classified EW without further remarks by the GCVS (1969-71-74-76), equality of both amplitudes is understood tacitly as usual. To show the contrary, figure 44 plots all my visual observation against phase.

As an accessory, some doubts are caused with respect to the exactitude of the GCVS period (.31643 day) by figure 44 left, and a slightly improved value (.3167 day) is used for the alternative plot figure 44 right to get a closer fitting. However, the material is too poor for a decision, and its enlargement is not possible before next winter.

The horizontal line in figure 44 denotes the fainter one of the two used comparison magnitudes (star 2' west-northwest from AM), whereas the brighter one (star 2' east-northeast from AM) must be imagined 53 mm above it.

K. Locher

figure 44

o	JD 2443852
+	888
x	890
z	899
s	903

