

BBSAG Bulletin 75

1

1985 February 11

108th List of Minima of Eclipsing Binaries

The following table lists 123 visual minima obtained mainly during 1984 December and 1985 January by the observers

ABo	Andreas Boller, Hittnau, Switzerland
JE	Jean Eyraud, Villeneuve - St. Georges, France
RG	Robert Germann, Wald, Switzerland
MKo	Michael Kohl, Uster, Switzerland
MLa	Martin Laternser, Hombrechtikon, Switzerland
KL	Kurt Locher, Grüt, Switzerland
AMa	Antonio Maraziti, Catanzaro, Italy
EN	Edmond Nezry, Toulouse, France
CPa	Carlo Pampaloni, Firenze, Italy
APs	Anton Paschke, Rüti, Switzerland
HP	Hermann Peter, Otelfingen, Switzerland
MR	Monika Rufener, Fehraltorf, Switzerland
TS	Thomas Schildknecht, Lyss, Switzerland
LV	Lukas Vogt, Wetzikon, Switzerland
HV	Hansruedi Vonder Mühl, Hinwil, Switzerland
HZ	Hansjörg Zehnder, Wolfhausen, Switzerland

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 using mainly the tracing paper method.

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(footnotes to page 2 :)

- * GCVS 1969 period erroneous, O-C according to the GCVS 1976: +.024 +.015
- ** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.111
- *** not contained in the GCVS, O-C according to the elements BBSAG Bulletin 65, page 6: +.420
- **** no period given by the GCVS, O-C according to the elements in BBSAG Bulletin 27, page 7: +.155
- ***** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.005
- ***** not contained in the GCVS, O-C according to the elements BBSAG Bulletin 63, page 5: +.221 +.226 +.223 +.216 +.209 +.222 +.238
- § not contained in the GCVS, O-C according to the elements BBSAG Bulletin 68, page 7: -.060
- §§ not contained in the GCVS, O-C according to the elements BBSAG Bulletin 68, page 6: -.9 +.4
- §§§ GCVS 1969 elements incomplete, O-C according to Martins' elements PASP 87, page 168, 1975: -.710
- §§§§ not contained in the GCVS, O-C according to the elements BBSAG Bulletin 72, page 4: -.214 -.230
- §§§§§ O-C according to the GCVS would amount to several entire periods, O-C according to the elements in BBSAG Bulletin 50, page 5: -.017
- {n} not
{s} slightly) disturbed according to the criteria by Crawford and

cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n	ob- ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n	ob- ser- ver
22133	UU And	I	6054.244	+.137	7	KL	22179			6053.1	§§	5	KL
22134	XZ And	I	6057.394	-.060	9	MKo	22180	FZ Del	I	6039.303	-.026	7	RG
22135	EP And	I	6054.456	*	7	MKo	22181	Z Dra	I	6054.459	+.024	7	MKo
22136		II	6072.429	*	6	KL	22182		I	6096.538	+.022	7	KL
22137	GZ And	II	6046.402	**	6	KL	22183	RZ Dra	I	6036.214	-.021	9	APs
22138	CX Aqr	I	6039.310	+.013	8	RG	22184	AI Dra	I	5901.449	+.010	16	AMa
22139	RS Ari	I	6072.270	-.144	5	KL	22185		I	5931.425	+.016	16	EN
22140	CL Aur	I	6065.492	+.049	8	HP	22186		I	5967.382	+.017	15	AMa
22141	FN Aur ^{new}	I	6055.308	-.503	8	KL	22187	CM Dra	I	6096.608	§§§§	6	KL
22142	TU Boo	I	6056.689	+.005	6	KL	22188	NSV 11987 Dra	I	6039.530	§§§§§	6	KL
22143		II	6086.669	-.012	6	KL	22189		I	6054.250	§§§§§	6	KL
22144	WW Cnc	I	6090.423	-.317	9	MKo	22190	TZ Eri	I	6065.389	-.080	9	HP
22145	NSV 4187 Cnc	II	6054.589	***	7	KL	22191	VK Eri	I	6049.508	+.009	6	MKo
22146	YZ CVn	I	6060.698	****	8	KL	22192	AM Eri	I	6046.484	§§§§§	6	KL
22147	RZ Cas	I	5294.381	+.002	12	JE	22193	BT Gem	I	6046.578	-.060	6	KL
22148		I	5582.437	+.003	25	EN	22194	BL Leo	I	6056.722	-.010	6	KL
22149		I	5931.444	-.002	28	EN	22195	T LMi	I	6046.650	-.145	6	KL
22150		I	6077.275	+.009	18	CPa	22196	Z Lep	I	6039.444	-.130	7	KL
22151	EY Cas ^{new}	I	6039.386	-.112	6	KL	22197		I	6046.401	-.129	6	KL
22152	IR Cas	I	6057.432	-.129	11	MKo	22198		I	6054.353	-.127	6	KL
22153	OR Cas	I	6070.249	+.054	7	KL	22199		I	6055.347	-.127	6	KL
22154	V 523 Cas	I	6046.251	*****	8	MKo	22200	RW Mon	I	6083.405	-.003	7	KL
22155	U Cep (s)	I	6057.389	+.064	24	APs	22201	BO Mon	I	6046.570	+.194	7	KL
22156	(s)	I	6057.390	+.065	16	MKo	22202	HM Mon	I	6054.456	+.095	6	KL
22157	(n)	I	6072.354	+.071	10	KL	22203	V 396 Mon ^{new}	I	6039.503	+.016	7	KL
22158	(n)	I	6077.342	+.073	15	APs	22204	V 1010 Oph	I	5883.401	-.116	15	AMa
22159	(n)	I	6077.342	+.073	8	KL	22205		I	5885.384	-.118	16	AMa
22160	WY Cep	II	6055.394	+.017	12	APs	22206	FL Ori	I	6090.372	+.082	6	HZ
22161		I	6057.292	+.033	12	APs	22207		I	6090.372	+.083	5	MLa
22162	WZ Cep	II	6054.438	-.004	18	APs	22208		I	6090.372	+.083	6	KL
22163		II	6057.350	-.014	10	APs	22209		I	6090.374	+.085	6	ABo
22164	XY Cep ^{new}	I	6055.342	+.008	18	APs	22210		I	6090.377	+.088	6	TS
22165	XZ Cep	I	6055.389	+.006	10	APs	22211	OS Ori	I	6046.594	-.034	5	KL
22166	CM Cep	I	6057.288	-.134	7	KL	22212	QT Ori	I	6049.449	-.315	4	KL
22167	NSV 817 Cep	I	6036.305	*****	4	KL	22213	V 640 Ori	I	6057.454	-.011	6	KL
22168		I	6039.618	*****	6	KL	22214	U Peg	II	6046.280	-.028	25	APs
22169		I	6046.706	*****	7	KL	22215		I	6054.334	-.032	17	APs
22170		I	6049.535	*****	5	KL	22216		II	6076.252	-.039	15	APs
22171		I	6057.564	*****	8	KL	22217	UX Peg	I	6077.223	-.036	6	RG
22172		II	6076.249	*****	7	KL	22218	RT Per	I	6054.213	-.079	7	KL
22173		II	6096.590	*****	4	KL	22219		I	6065.260	-.075	9	HP
22174	TW Cet	II	6054.242	-.031	8	RG	22220	RY Per	I	6055.308	-.024	5	MKo
22175		I	6057.249	-.033	7	RG	22221	ST Per	I	6083.327	-.033	6	KL
22176		I	6057.257	-.025	5	MKo	22222	XZ Per	I	6050.284	+.009	6	KL
22177	NSV 13198 Cyg	I	6075.241	§	5	KL							
22178	NSV 13250 Cvo		6037.8	§§	4	KL							

cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n	ob- ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	O-C	n	ob- ser- ver
22223	KW Per	I	604 7 .418	+0.050	7	MKo	22241	RV Tri	I	6076.260	-0.038	5	KL
22224		I	6050.213	+0.051	7	KL	22242	RW Tri	I	6046.451	-0.002	7	KL
22225	β Per	I	6054.412	-0.160	13	APs	22243	W UMa	I	6090.366	-0.200	12	APs
22226		I	6057.277	-0.162	9	RG	22244	UX UMa	I	6090.485	-0.002	5	HV
22227	UV Psc	I	6054.244	+0.024	7	RG	22245		I	6090.486	-0.002	5	MR
22228	LX Ser	I	6046.714	*	6	KL	22246		I	6090.488	+0.001	5	LV
22229	RW Tau	I	6052.461	-0.096	6	KL	22247	VV UMa	I	6054.522	+0.118	4	MKo
22230		I	6055.233	-0.093	6	KL	22248	ZZ UMa	I	6054.436	+0.003	5	MKo
22231	AC Tau	I	6057.522	+0.064	6	KL	22249	AC UMa	I	6072.466	+0.324	7	KL
22232	AM Tau	I	6083.242	-0.200	7	RG	22250	BM UMa	II	6039.692	***	7	KL
22233		I	6083.254	-0.188	6	KL	22251	RZ UMi	I	6057.403	****	6	KL
22234	AS Tau	I	6054.505	+0.192	6	KL	22252	BF Vir	I	6070.684	-0.039	6	KL
22235	EQ Tau	II	6023.249	**	6	RG	22253	AW Vul	I	6036.273	-0.020	6	KL
22236		II	6095.267	**	7	RG	22254	BE Vul	I	6057.266	+0.005	8	MKo
22237	V Tri	I	6057.277	+0.019	9	MKo	22255		I	6071.219	-0.010	6	KL
22238		I	6057.277	+0.019	9	RG							
22239	X Tri	I	5998.298	-0.052	14	RG							
22240		I	6066.313	-0.045	13	HP							

* not contained in the GCVS, O - C according to the elements by Africano, Horne, and Margon IAUC 3466 : +0.034

** GCVS 1969 period erroneous, O-C according to the GCVS 1976 : +0.002 -0.004

*** GCVS 1969 type and period erroneous, O-C according to the GCVS 1976 : +0.021

**** not contained in the GCVS, O - C according to the elements by Горанский , Переменные Звёзды Приложение 4, page 169 , 1982 : -0.015

E R R A T A

(5th list after the general one in BBSAG Bulletin 54, pages 4 - 6)
 (4th " see BBSAG Bulletin 65, page 7)
 (3rd " " " " 63, " 4)
 (2nd " " " " 60, " 7)
 (1st " " " " 58, " 5)

Corrections are underlined

Bulletin no.	minimum no.						
49	15704	IO Cep	I	4476.409	*	7	RD *GCVS 1976
68	20447	RW Com	I	5518.383	-0.070	6	RG
72	21366	WW Aur	I	5747.389	+0.002	18	PRo
	21484	W UMa	I	5749.391	-0.188	15	PRo

N S V 3 7 7 2 M o n o c e r o t i s
 Detection of the Period

This star had been suspected of EA variability over a photographic range of 2.5 magnitudes by Morgenroth ASTRONOMISCHE NACHRICHTEN 251, page 325, 1934. My visual survey during 58 nights 1982 to 1985 confirms type and amplitude and yields the elements

$$JD_{hel\ min_I} = 2446029.475 + 5.7568 E$$

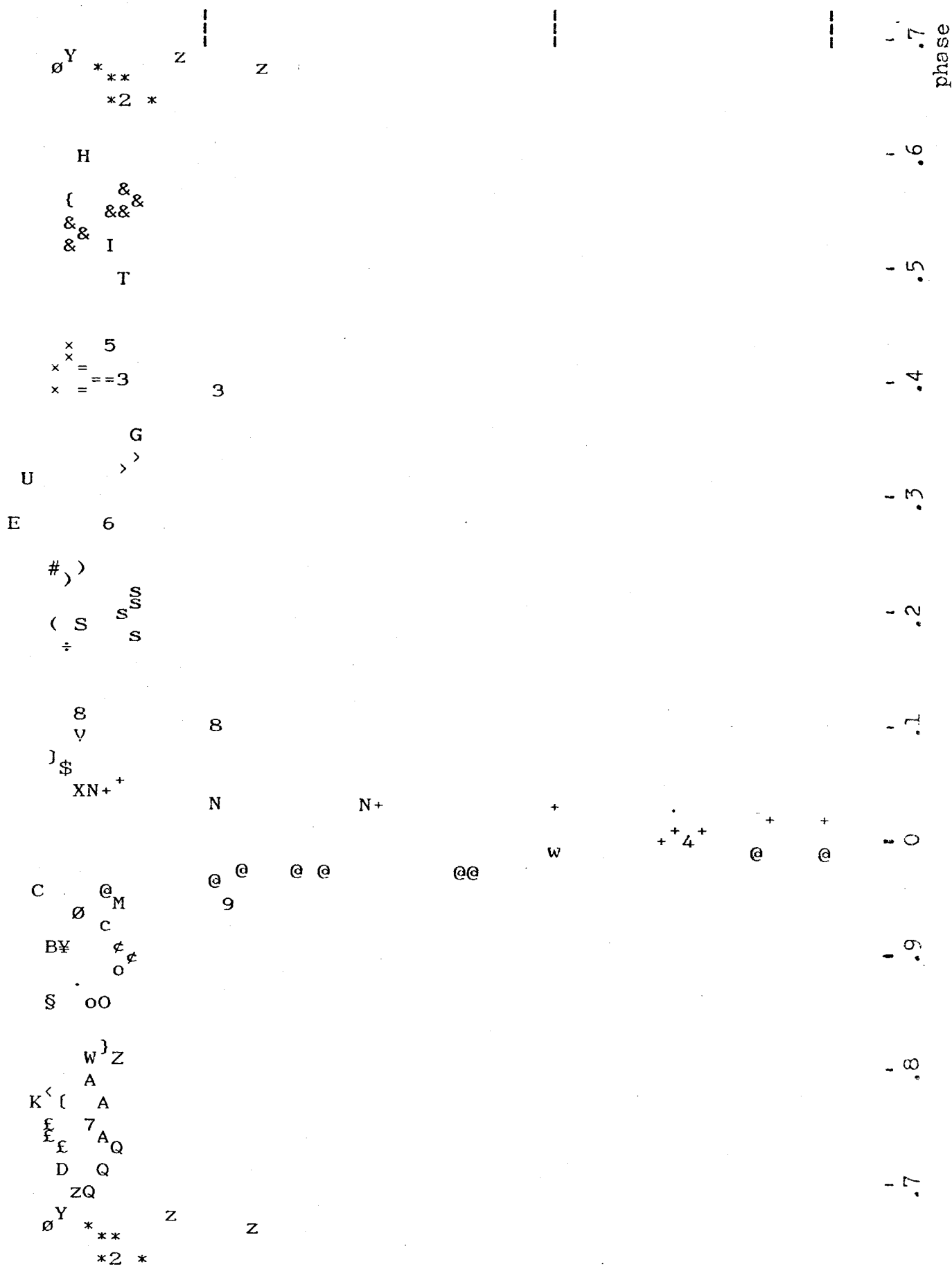
No trace of a secondary eclipse cood be found. Figure 72 plots all my observations against the phase based on these elements.

K. Locher

Plot symbol legend for Figure 72

JD 2440000 +

5325	5352	5368	5383	5397	5399	5400	5401	5402	5403	5407	5424	5625	5670	5680
5691	5694	5697	5698	5700	5702	5705	5710	5711	5728	5730	5764	5765	5776	5781
5810	5985	5995	5999	6000	6004	6005	6007	6011	6012	6013	6022	6025	6029	6032
6033	6034	6039	6046	6049	6054	6057	6060	6065	6086	6091	6096	6104		



mparison
gnitude
south

mparison
gnitude
northwest

mparison
gnitude
east

figure 72

.7
phase
.6
.5
.4
.3
.2
.1
0
.9
.8
.7
.6