

BBSAG Bulletin 117

No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
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1998 May 15

150. LIST OF MINIMA OF ECLIPSING BINARIES

The following table lists 85 electronically recorded (CCD; underlined) and 219 visual timings of minima of eclipsing binaries obtained primarily between September 1997 and April 1998 by the following observers:

EBI	Ernst Bišttler, Wald, Switzerland
DDa	Davide Dalmazio, Formia, Italy
RD	Roger Diethelm, R. Szafraniec Observatory, Metzerlen, Switzerland
BK	Bruce Krobusek, Farmington NY, USA
KL	Kurt Locher, Grÿt, Switzerland
APs	Anton Paschke, Rÿti, Switzerland
HP	Hermann Peter, Otelfingen, Switzerland

The O-C values given in the table below generally refer to the linear elements of the GCVS 1985, with the remarked exceptions. For the reduction of the minima the tracing paper method was employed. For the reduction of some of the electronic observations the Kwee-van Woerden algorithm was used. All times are UTC.

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
34946	2309+366	AB And	s	50690.416	0.017	-0.015	15	DDa	
34947			s	50717.291	0.006	-0.023	12	DDa	
34948			s	50721.280	0.006	-0.017	8	DDa	
34949	2347+455	AP And	p	<u>50725.622</u>	0.005	+0.004	42	APs	CCD; elem. GEOS C. EB 22
34950	0209+453	CP And	p	50859.289	0.009	+0.248	11	HP	
34951	0008+418	DO And	p	<u>50831.3412</u>	0.0012	-0.0101	13	RD	CCD; elem. MVS 11, 106
34952	0139+445	EP And	p	50844.382	0.004	+0.052	6	KL	
34953	2351+453	GK And	p	<u>50721.489</u>	0.007	-0.014	24	APs	CCD; elem. BAV Rdb. 43, 108
34954	0209+444	GZ And	p	50925.323	0.005	+0.010	8	KL	
34955	2233-009	CX Aqr	p	50825.236	0.004	-0.006	6	KL	
34956	2126-072	EI Aqr	p	<u>50726.338</u>	0.003	-0.021	29	APs	CCD
34957	0546+316	RZ Aur	p	50898.340	0.005	-0.058	6	KL	
34958	0542+411	ZZ Aur	p	50825.295	0.006	+0.016	9	HP	
34959			p	<u>50825.2952</u>	0.0009	+0.0164	33	EBI	CCD
34960	0509+334	CL Aur	p	50846.391	0.004	+0.100	6	KL	
34961			p	50902.386	0.007	+0.098	7	HP	
34962	0500+326	EI Aur	s	<u>50846.3065</u>	0.0012	-0.1200	14	RD	CCD
34963	0540+308	FP Aur	p	<u>50848.2985</u>	0.0003	-0.0623	37	EBI	CCD
34964	0615+497	HL Aur	p	50855.308	0.006	-0.002	7	HP	elem. AJ 113, 2270
34965			p	50883.333	0.007	+0.010	7	HP	
34966	0647+477	HS Aur	p	<u>50856.2849</u>	0.0003	-0.0005	31	EBI	CCD
34967	0549+523	IZ Aur	s	<u>50844.342</u>	0.002	-0.003	7	RD	CCD; elem. IBVS No. 4586
34968			p	<u>50846.2738</u>	0.0007	+0.0003	7	RD	CCD
34969			p	<u>50859.3837</u>	0.0008	-0.0019	12	RD	CCD
34970			s	<u>50871.3363</u>	0.0008	-0.0045	32	EBI	CCD
34971			s	<u>50871.338</u>	0.003	-0.003	8	RD	CCD
34972	0554+306	MT Aur	p	<u>50904.384</u>	0.002	+0.022	9	RD	CCD
34973	1402+302	TU Boo	p	50822.646	0.004	-0.005	6	KL	elem. A&A Suppl. S. 117, 105
34974	1458+353	TY Boo	p	50902.408	0.007	0.000	7	HP	elem. BAV Mitt. 68, 21
34975	1345+251	AR Boo	p	<u>50923.4410</u>	0.0017	-0.0607	14	RD	CCD; elem. PASP 98, 461
34976			p	<u>50925.5099</u>	0.0014	-0.0599	14	RD	CCD
34977			s	<u>50926.3730</u>	0.0006	-0.0586	22	EBI	CCD
34978	1358+253	BG Boo	s	<u>50902.484</u>	0.003	0.000	14	RD	CCD; see note p. 9
34979	0734+761	Y Cam	p	50882.388	0.004	+0.185	6	KL	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
34980	1137+805	AL Cam	p	50903.307	0.006	-0.025	6	HP	
34981	0447+548	AQ Cam	p	<u>50823.3867</u>	<u>0.0005</u>	<u>+0.0290</u>	15	RD	CCD

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
34982	0837+191	TX Cnc	p	<u>50926.3897</u>	0.0009	+0.0217	14	RD	CCD
34983	0844+085	TY Cnc	p	50894.457	0.007	-0.186	6	KL	
34984	0906+306	WW Cnc	p	50902.402	0.007	-0.407	10	HP	
34985	0843+330	WX Cnc	p	<u>50850.5881</u>	0.0007	+0.0080	12	RD	CCD
34986			p	50860.374	0.007	-0.002	10	HP	
34987			p	50898.349	0.007	+0.010	7	HP	
34988	0848+120	AH Cnc	p	<u>50904.288</u>	0.002	+0.080	20	RD	CCD; normal minimum
34989	0711-180	RX CMa	p	50865.292	0.006	-0.090	4	KL	
34990	0656-187	UU CMa	p	50831.336	0.008	-0.051	5	KL	
34991	0738+029	TY CMi	p	<u>50904.3817</u>	0.0014	+0.6951	12	RD	CCD
34992	0751+037	XZ CMi	p	50871.288	0.006	-0.001	7	HP	
34993	0705+063	AG CMi	p	50871.344	0.008	-0.041	9	HP	
34994	0737+040	AK CMi	p	50862.378	0.007	-0.013	9	HP	
34995			p	50862.383	0.005	-0.007	5	KL	
34996	0123+698	AE Cas	p	50863.317	0.005	+0.075	5	KL	
34997	0118+589	BS Cas	p	<u>50824.2972</u>	0.0013	-0.1267	12	RD	CCD; see note p. 9
34998			p	<u>50824.2978</u>	0.0004	-0.1261	31	EBI	CCD
34999	0135+631	BW Cas	p	<u>50854.2673</u>	0.0008	+0.0020	28	EBI	CCD; elem. see page 9
35000			p	<u>50859.3150</u>	0.0007	-0.0018	15	RD	CCD
35001			p	50859.326	0.007	+0.009	6	KL	
35002	0042+628	CW Cas	p	50855.317	0.007	-0.012	8	HP	elem. JAAVSO 21, 34
35003			p	50862.341	0.007	-0.003	9	HP	
35004	2350+572	EP Cas	p	50825.311	0.007	-0.024	7	HP	
35005			p	50860.287	0.008	-0.026	7	HP	
35006	2304+538	IR Cas	p	50824.308	0.006	+0.015	7	HP	
35007			s	50855.290	0.008	+0.026	6	HP	
35008	2326+602	IS Cas	p	<u>50841.3030</u>	0.0011	+0.0384	12	RD	CCD
35009	2339+514	IT Cas	p	50825.256	0.007	+0.007	10	HP	elem. AJ 114, 1206
35010	0018+636	MY Cas	p	<u>50853.338</u>	0.004	+0.025	8	RD	CCD
35011	0049+501	V364 Cas	s	50860.299	0.007	-0.029	6	HP	
35012	0105+584	V366 Cas	p	<u>50863.3481</u>	0.0008	-0.1711	15	RD	CCD
35013	2354+558	V374 Cas	p	50824.264	0.007	+0.028	7	HP	
35014	2339+556	V520 Cas	s	<u>50858.3495</u>	0.0006		36	EBI	CCD; elem. see page 9

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35015	0037+499	V523 Cas	p	50824.330	0.006	+0.040	7	HP	
35016			p	50825.257	0.004	+0.033	6	KL	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35017	2038+754	VW Cep	s	50664.430	0.003	+0.005	13	DDa	elem. IBVS No. 4117
35018			p	50670.410	0.007	+0.002	12	DDa	
35019			s	50683.352	0.012	+0.003	10	DDa	
35020			s	50686.407	0.009	-0.004	12	DDa	
35021			s	50693.374	0.019	+0.005	13	DDa	
35022			s	50700.325	0.006	-0.001	15	DDa	
35023			s	50717.297	0.001	-0.006	11	DDa	
35024			p	50723.292	0.011	+0.005	13	DDa	
35025			p	50770.318	0.010	-0.003	12	DDa	
35026			p	50774.211	0.003	-0.006	8	DDa	
35027			s	50781.308	0.008	-0.006	10	DDa	
35028			p	50807.335	0.006	-0.001	12	DDa	
35029	2320+650	CM Cep	p	50853.324	0.004	-0.022	6	KL	
35030	2024+614	HI Cep	p	50925.503	0.008	+0.020	7	KL	elem. BBSAG Bull. 114, 12
35031	0220+809	V358 Cep	p	50831.281	0.007	+0.026	6	KL	elem. BBSAG Bull. 96, 10
35032	0144-100	TT Cet	p	<u>50702.587</u>	<u>0.004</u>	<u>-0.036</u>	33	APs	CCD
35033	0146-211	TW Cet	p	<u>50706.565</u>	<u>0.004</u>	<u>-0.018</u>	21	APs	CCD
35034			s	50831.237	0.006	-0.028	6	KL	
35035	0156-231	AA Cet	p	50823.231	0.006	-0.007	8	KL	
35036	1230+269	RW Com	p	50900.431	0.007	-0.023	8	HP	
35037			p	50902.341	0.006	-0.011	6	HP	
35038	1209+228	CC Com	p	50900.345	0.006	-0.016	8	HP	
35039	1205-128	W Crv	p	50846.625	0.003	+0.010	6	KL	
35040	1121-164	V Cr1	p	50918.349	0.005	+0.004	8	KL	
35041	1941+326	V370 Cyg	p	50923.534	0.004	-0.008	5	KL	
35042	2113+372	V387 Cyg	p	50825.293	0.008	+0.008	9	HP	
35043	2040+531	V749 Cyg	p	50864.674	0.004	-0.010	8	KL	
35044	2021+523	V1048 Cyg	p	50934.532	0.008	+0.014	4	KL	
35045	1142+725	Z Dra	p	50851.615	0.003	-0.103	6	KL	
35046	1841+626	RR Dra	p	50862.420	0.005	+0.062	11	KL	
35047	1926+688	UZ Dra	s	<u>50902.5025</u>	<u>0.0010</u>	<u>+0.0027</u>	16	RD	CCD
35048	1214+651	AR Dra	p	50855.285	0.004	+0.002	6	KL	
35049	1735+686	AU Dra	p	<u>50822.3520</u>	<u>0.0011</u>	<u>-0.0011</u>	32	EBI	CCD; elem. IBVS No. 4587
35050			s	<u>50823.6397</u>	<u>0.0002</u>	<u>-0.0016</u>	71	EBI	
35051	1922+698	DW Dra	p	50925.377	0.003	+0.025	6	KL	elem. BBSAG Bull. 84, 6
35052	0419-061	TZ Eri	p	50863.284	0.004	+0.158	8	KL	

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35053	0502-076	WW Eri	p	<u>50853.316</u>	<u>0.002</u>	<u>+0.054</u>	14	RD	CCD; see note p. 9
35054	0321-008	WX Eri	p	50862.347	0.009	+0.001	5	HP	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35055	0558+231	RW Gem	p	50860.429	0.005	-0.005	6	KL	
35056			p	50883.350	0.007	-0.009	13	HP	
35057	0557+244	SV Gem	p	<u>50397.39</u>	<u>0.02</u>	<u>-1.59</u>	72	APs	CCD; normal min., note p. 10
35058	0625+205	SX Gem	p	50860.310	0.008	-0.057	8	HP	
35059	0733+170	TX Gem	p	50875.357	0.007	-0.010	7	HP	
35060			p	50903.358	0.006	-0.009	10	HP	
35061	0609+235	WW Gem	s	50898.313	0.008	+0.015	6	HP	
35062	0647+214	AF Gem	p	50883.330	0.006	-0.052	10	HP	
35063			p	50883.332	0.005	-0.050	5	KL	
35064	0639+134	AV Gem	s	<u>50844.286</u>	<u>0.003</u>	<u>-0.024</u>	32	EBI	CCD
35065	0631+145	AZ Gem	p	<u>50859.3949</u>	<u>0.0005</u>	<u>0.0737</u>	25	EBI	CCD
35066	0631+155	BD Gem	p	50860.287	0.008	-0.020	8	HP	
35067			p	50902.316	0.009	-0.026	8	HP	
35068	0559+276	DP Gem	s	<u>50859.559</u>	<u>0.003</u>	<u>-0.072</u>	13	BK	CCD
35069			s	<u>50900.324</u>	<u>0.002</u>	<u>-0.070</u>	43	EBI	CCD
35070	0655+132	EG Gem	p	50859.313	0.008	+0.222	10	HP	
35071	0706+130	GP Gem	p	<u>50901.453</u>	<u>0.002</u>	<u>+0.068</u>	9	RD	CCD
35072	0749+272	GW Gem	p	50871.306	0.007	+0.015	7	HP	
35073			p	50898.356	0.007	+0.027	8	HP	
35074	0609+247	HR Gem	p	<u>50851.2769</u>	<u>0.0005</u>	<u>+0.0165</u>	31	EBI	CCD
35075			p	50898.312	0.007	+0.017	8	HP	
35076	0604+159	KQ Gem	p	<u>50859.553</u>	<u>0.002</u>	<u>-0.052</u>	13	BK	CCD; see note page 9
35077	0737+329	SZ Her	p	50857.640	0.003	-0.019	6	KL	
35078	1615+090	CC Her	p	50925.596	0.003	+0.088	8	KL	
35079	1732+151	DP Her	p	50923.578	0.004	+0.061	7	KL	
35080	1806+458	DQ Her	p	50925.570	0.002	+0.001	8	KL	
35081	1819+144	MT Her	p	50876.654	0.004	+0.004	6	KL	
35082	1714+209	V381 Her	p	50851.686	0.004	+0.140	6	KL	
35083	1341-265	SX Hya	p	50894.532	0.006	-0.076	8	KL	
35084	0827-092	SY Hya	p	50898.353	0.007	-0.034	6	KL	
35085	0839+028	UW Hya	p	<u>50904.3153</u>	<u>0.0010</u>	<u>+0.0204</u>	21	EBI	CCD; elem. MVS 12, 48
35086	0811+006	WY Hya	s	50898.323	0.009	+0.028	6	HP	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35087	0912+030	AL Hya	p	50923.426	0.008	+0.351	5	KL	
35088	0852+062	FG Hya	s	<u>50897.393</u>	<u>0.003</u>	<u>-0.010</u>	10	RD	CCD; elem. IBVS No. 2811

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35089	0933+264	Y Leo	p	50862.335	0.005	+0.008	7	KL	
35090			p	50862.340	0.007	+0.012	11	HP	
35091			p	<u>50926.4074</u>	<u>0.0009</u>	<u>+0.0083</u>	15	RD	CCD
35092	0945+132	UU Leo	p	50900.358	0.007	+0.071	10	HP	
35093	0924+168	VZ Leo	p	<u>50901.3785</u>	<u>0.0010</u>	<u>-0.0452</u>	14	RD	CCD
35094	0956+140	XX Leo	s	<u>50849.485</u>	<u>0.003</u>	<u>-0.113</u>	13	RD	CCD; el. BBSAG Bull. 105, 8
35095	0959+172	XZ Leo	p	50871.370	0.006	+0.019	8	HP	
35096	1142+250	BL Leo	s	50848.546	0.006	-0.005	6	KL	
35097	0945+335	T LMi	p	50860.294	0.007	-0.047	9	HP	
35098	0557-202	RS Lep	p	50848.341	0.005	+0.006	6	KL	
35099	1519-080	TY Lib	p	50871.632	0.005	-0.005	7	KL	
35100	0851+466	RY Lyn	p	50897.516	0.005	-0.030	6	KL	
35101			p	50900.390	0.006	-0.026	8	HP	
35102	0912+429	UU Lyn	p	50871.315	0.006	+0.007	8	HP	
35103			p	50900.351	0.007	-0.001	9	HP	
35104	0651-075	RU Mon	p	<u>50841.2557</u>	<u>0.0020</u>	<u>-0.0320</u>	10	RD	CCD
35105	0632+088	RW Mon	p	50875.290	0.007	-0.033	12	HP	
35106			p	50894.347	0.007	-0.037	5	KL	
35107	0657-105	AN Mon	p	50846.359	0.009	-0.008	5	KL	
35108	0757-033	BO Mon	p	50848.518	0.005	-0.077	6	KL	
35109	0657+042	CP Mon	p	<u>50859.3527</u>	<u>0.0009</u>	<u>+0.0146</u>	9	RD	CCD
35110	0643-002	DD Mon	p	50860.357	0.006	-0.020	8	HP	elem. IBVS No. 4378
35111	0654-052	EP Mon	p	50871.307	0.007	+0.052	10	HP	
35112	0722-050	FS Mon	s	50871.348	0.007	-0.016	9	HP	
35113	0642+002	GU Mon	p	<u>50871.3867</u>	<u>0.0008</u>	<u>+0.1037</u>	20	RD	CCD
35114	0642+101	IS Mon	p	50883.331	0.007	+0.315	11	HP	
35115	0654+118	IX Mon	p	<u>50849.379:</u>	<u>0.005</u>	<u>-0.028</u>	5	RD	CCD; see note page 9
35116	0635+036	V396 Mon	p	<u>50852.6602</u>	<u>0.0014</u>	<u>-0.0403</u>	20	BK	CCD
35117	0655+022	V458 Mon	p	<u>50852.5868</u>	<u>0.0014</u>	<u>+0.0374</u>	21	BK	CCD
35118	0656+022	V524 Mon	s	<u>50852.5430</u>	<u>0.0014</u>	<u>+0.1260</u>	7	BK	CCD
35119			p	<u>50852.685</u>	<u>0.003</u>	<u>+0.126</u>	6	BK	CCD
35120	0700+033	V530 Mon	p	<u>50854.568</u>	<u>0.003</u>	<u>+0.110</u>	37	BK	CCD

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35121			p	<u>50860.3479</u>	<u>0.0007</u>	<u>+0.1094</u>	14	RD	CCD
35122	0749-011	V681 Mon	p	50894.440	0.008	+0.469	9	KL	elem. BBSAG Bull. 75, 4

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35123	1756+135	V508 Oph	p	50823.687	0.003	+0.011	5	KL	
35124	0606+156	DZ Ori	p	<u>50857.423</u>	0.005	+1.576	17	RD	CCD; see note p. 9
35125	0454-036	EQ Ori	p	50844.404	0.003	-0.016	6	KL	
35126	0452+013	ET Ori	p	50871.339	0.008	+0.009	8	HP	
35127			p	50891.317	0.006	+0.018	6	HP	
35128	0517+019	EW Ori	p	<u>50823.3998</u>	0.0012	-0.0239	15	RD	CCD
35129	0532+029	FF Ori	p	<u>50859.3486</u>	0.0013	+0.0160	16	RD	CCD
35130			p	50859.362	0.008	+0.029	11	HP	
35131	0505-028	FL Ori	p	50864.284	0.003	+0.016	9	KL	
35132	0548+094	FR Ori	p	<u>50855.3038</u>	0.0001	+0.0177	27	EBI	CCD
35133			p	50862.369	0.008	+0.018	11	HP	
35134	0610+214	FT Ori	s	<u>50849.4177</u>	0.0008	+0.6577	12	RD	CCD; displaced secondary
35135	0612+155	V645 Ori	p	<u>50863.2900</u>	0.0004	+0.0360	31	EBI	CCD
35136	0449+062	V648 Ori	s	<u>50860.3470</u>	0.0006	+0.0340	14	RD	CCD
35137	2254+329	VW Peg	p	50824.278	0.006	-0.043	8	HP	
35138	2339+099	DK Peg	p	<u>50716.414</u>	0.004	+0.050	52	APs	CCD
35139	0236+419	Z Per	p	50824.296	0.009	-0.107	10	HP	
35140	0320+463	RT Per	p	50853.362	0.003	+0.043	6	KL	
35141			p	50859.304	0.007	+0.039	9	HP	
35142	0335+425	WY Per	p	<u>50863.3231</u>	0.0007	-0.0198	13	RD	CCD; see note p. 9
35143	0310+459	BE Per	p	<u>50844.410</u>	0.002	+0.025	8	RD	CCD; elem. MVS 11, 38
35144	0256+437	IU Per	p	50875.287	0.008	+0.003	8	HP	
35145	0433+441	KR Per	s	50860.370	0.008	-0.010	7	HP	
35146			s	50862.362	0.008	-0.011	7	HP	
35147			s	50883.294	0.007	+0.004	7	HP	
35148	0156+529	KW Per	p	50871.348	0.005	+0.010	10	HP	
35149			p	50871.350	0.005	+0.013	6	KL	
35150	0424+377	NZ Per	p	<u>50850.302</u>	0.002	+0.039	31	EBI	CCD
35151	0240+406	V365 Per	p	<u>50831.351</u>	0.002	+0.019	8	RD	CCD
35152	0241+363	V366 Per	p	<u>50823.3802</u>	0.0007	+0.0650	13	RD	CCD
35153	0811-238	XZ Pup	p	50848.479	0.003	+0.071	7	KL	
35154	1556+173	AO Ser	p	50851.633	0.007	+0.015	5	KL	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35155	1554+224	AU Ser	s	50821.610	0.007	-0.041	4	KL	
35156	1535+190	LX Ser	p	50864.486	0.003	+0.001	7	KL	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35157	0400+279	RW Tau	p	50831.339	0.005	-0.130	8	KL	
35158	0433+186	RZ Tau	p	50859.298	0.008	+0.024	8	HP	
35159	0553+263	WY Tau	s	<u>50854.6323</u>	<u>0.0011</u>	<u>+0.0454</u>	37	BK	CCD
35160	0434+015	AC Tau	p	50898.317	0.005	+0.085	6	KL	
35161	0344+249	AH Tau	p	50855.275	0.008	-0.089	6	HP	
35162	0549+162	AM Tau	p	50882.360	0.005	-0.029	5	KL	
35163	0548+240	CR Tau	p	<u>50864.3710</u>	<u>0.0008</u>	<u>-0.2505</u>	15	RD	CCD
35164	0555+270	CT Tau	s	50859.335	0.008	-0.029	8	HP	
35165	0344+252	CU Tau	s	<u>50883.3463</u>	<u>0.0018</u>	<u>+0.1267</u>	34	EBI	CCD
35166	0526+287	ES Tau	p	50864.418	0.006	+0.011	8	KL	
35167	0538+259	GQ Tau	p	<u>50895.3699</u>	<u>0.0009</u>	<u>+0.1778</u>	15	RD	CCD; see note p. 9
35168	0547+269	V781 Tau	s	<u>50859.5248</u>	<u>0.0008</u>	<u>-0.0291</u>	24	BK	CCD
35169	0128+301	V Tri	p	50824.349	0.007	-0.013	11	HP	
35170	0222+278	RW Tri	p	50864.285	0.002	-0.004	8	KL	
35171	0238+355	ST Tri	p	<u>50841.2888</u>	<u>0.0014</u>	<u>-0.0363</u>	18	EBI	CCD
35172			s	<u>50846.3100</u>	<u>0.0010</u>	<u>-0.0450</u>	37	EBI	CCD
35173	1339+596	TW UMa	p	50864.475	0.009	-0.122	7	KL	
35174	1206+563	TY UMa	s	50891.338	0.008	+0.016	6	HP	elem. JAAVSO 21, 111
35175	1334+521	UX UMa	p	50821.613	0.002	+0.002	5	KL	
35176	1342+554	UY UMa	p	<u>50901.3973</u>	<u>0.0009</u>	<u>+0.0593</u>	14	RD	CCD; see note p. 9
35177	0934+562	VV UMa	p	50859.292	0.008	-0.039	7	HP	
35178	0906+546	XY UMa	p	50862.397	0.008	+0.016	7	HP	
35179			p	50875.328	0.007	+0.015	7	HP	
35180	0928+496	XZ UMa	p	50902.420	0.008	-0.051	7	HP	
35181			p	50918.323	0.003	-0.038	7	KL	
35182	0943+459	AA UMa	p	50902.347	0.006	+0.018	9	HP	
35183	0851+651	AC UMa	p	50891.363	0.004	-0.125	7	KL	
35184	1402-099	VV Vir	p	50876.597	0.003	-0.025	6	KL	
35185	1402-181	AK Vir	p	50876.637	0.004	-0.052	6	KL	
35186	1325+033	AW Vir	p	50900.427	0.006	+0.017	9	HP	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35187	1340+048	AZ Vir	p	<u>50850.5899</u>	<u>0.0006</u>	<u>-0.0165</u>	13	RD	CCD
35188	1216+096	DY Vir	p	<u>50926.4916</u>	<u>0.0014</u>	<u>-0.1030</u>	11	RD	CCD

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35189	1241-084	HW Vir	p	50818.710	0.001	-0.003	8	KL	
35190			p	50821.747	0.001	0.000	6	KL	
35191			p	50822.563	0.001	-0.002	5	KL	
35192			p	50822.681	0.001	-0.001	5	KL	
35193			p	50823.615	0.001	0.000	5	KL	
35194			p	50824.666	0.001	0.000	6	KL	
35195			p	50825.599	0.001	0.000	6	KL	
35196			p	50825.715	0.001	-0.001	5	KL	
35197			p	50826.649	0.001	-0.001	5	KL	
35198			p	50827.582	0.001	-0.002	6	KL	
35199			p	50827.699	0.001	-0.001	5	KL	
35200			p	50828.748	0.001	-0.003	6	KL	
35201			p	50831.550	0.001	-0.002	6	KL	
35202			p	50831.666	0.001	-0.002	5	KL	
35203			p	50846.607	0.001	-0.002	6	KL	
35204			p	50848.475	0.001	-0.001	5	KL	
35205			p	50848.593	0.001	0.000	6	KL	
35206			p	50848.708	0.001	-0.002	6	KL	
35207			p	50850.575	0.001	-0.002	6	KL	
35208			p	50851.627	0.001	-0.001	6	KL	
35209			p	50851.743	0.001	-0.002	4	KL	
35210			p	50853.610	0.001	-0.002	6	KL	
35211			p	50854.543	0.001	-0.003	6	KL	
35212			p	50855.596	0.001	0.000	7	KL	
35213			p	50855.712	0.001	-0.001	6	KL	
35214			p	50856.527	0.001	-0.003	6	KL	
35215			p	50857.578	0.001	-0.002	6	KL	
35216			p	50857.696	0.001	-0.001	6	KL	
35217			p	50860.497	0.001	-0.001	7	KL	
35218			p	50862.481	0.001	-0.002	5	KL	
35219			p	50863.532	0.001	-0.001	6	KL	
35220			p	50870.418	0.001	-0.002	6	KL	
35221			p	50870.534	0.001	-0.002	5	KL	
35222			p	50871.469	0.001	-0.001	5	KL	
35223			p	50871.585	0.001	-0.001	6	KL	
35224			p	50871.702	0.001	-0.002	6	KL	
35225			p	50872.634	0.001	-0.003	6	KL	
35226			p	50876.605	0.001	-0.001	4	KL	
35227			p	50882.440	0.001	-0.002	6	KL	
35228			p	50882.558	0.001	0.000	4	KL	
35229			p	50891.428	0.001	-0.001	6	KL	
35230			p	50894.344	0.001	-0.003	5	KL	
35231			p	50894.462	0.001	-0.002	6	KL	
35232			p	50894.579	0.001	-0.001	6	KL	
35233			p	50897.381	0.001	-0.001	6	KL	
35234			p	50897.496	0.001	-0.003	5	KL	
35235			p	50897.613	0.001	-0.002	7	KL	
35236			p	50898.431	0.001	-0.002	5	KL	
35237			p	50900.532	0.001	-0.001	5	KL	
35238			p	50912.320	0.001	-0.002	7	KL	
35239			p	<u>50912.3203</u>	<u>0.0002</u>	<u>-0.0016</u>	40	EBI	CCD
35240			s	<u>50912.3785</u>	<u>0.0003</u>	<u>-0.0017</u>	45	EBI	CCD
35241			p	50912.438	0.001	0.000	4	KL	
35242			p	50923.410	0.001	-0.001	6	KL	
35243			p	50923.526	0.001	-0.001	5	KL	
35244			p	50926.326	0.001	-0.002	6	KL	
35245			p	50926.443	0.001	-0.002	6	KL	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
35246			p	50928.427	0.001	-0.002	6	KL	
35247			p	50933.330	0.001	-0.002	5	KL	
35248			p	50933.446	0.001	-0.002	7	KL	
35249			p	50934.497	0.001	-0.002	6	KL	

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
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Notes

BG Boo

The observed secondary minimum (No. 34978) shows a duration of totality of $0.067^d \pm 0.003^d$.

BS Cas

All the available observations have been used to determine the new ephemerides:
 $JD(\text{min, hel}) = 2450824.2975(4) + 0.4404699(4) * E$.

BW Cas

In IBVS No. 4531 we reported preliminary elements for this star. With the CCD data given here, the value of the period can be refined to $1.262877^d \pm 0.000028^d$.

V520 Cas

Extensive CCD photometry by E. Bišttler yields a new period of 0.48983^d .

WW Eri

From our CCD measurement (No. 35053) we can infer a duration of totality of $d = 0.065^d \pm 0.004^d$.

KQ Gem

B. Krobusek reports that his observations do not show a phase of totality in contradiction to the note given in BBSAG Bulletin 114, page 11.

IX Mon

The amplitude of variation on our unfiltered CCD frames is considerably larger ($A^{30.9^m}$) than the value given in the GCVS.

DZ Ori

From the available minimum timings, the new ephemeris
 $JD(\text{min, hel}) = 2425243.529(4) + 1.8362524(14) * E$ have been computed.

WY Per

The duration of totality in primary minimum amounts to $d = 0.031^d \pm 0.002^d$.

GQ Tau

The previously reported visual times of minimum in the BBSAG Bulletins (No. 11319, BB 32; No. 22416, BB 76; No. 26451, BB 91; No. 32984, BB 111 and No. 34042, BB 114) must be discarded. They are erroneous.

UY UMa

In the primary minimum, this star shows a duration of totality of $d = 0.036^d \pm 0.002^d$.

R. Diethelm

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No	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
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Errata

No.	Bulletin	Star	Correction
33358	113	AC Boo	CCD observation
33389	113	BI CVn	CCD observation
34138	115	FK Aql	O = 506 45 .447 instead of 50654.447
34139	115	FK Aql	O = 506 45 .452 instead of 50654.452
34230	115	V358 Cep	O-C from elements in BBSAG Bull. 96, p. 10
34525	115	HW Vir	O = 5055 5 .394 instead of 50553.394
34633	116	EP Cas	O = 50667. 494 instead of 50667.486
34834	116	V415 Oph	n = 25 (value omitted)
34837	116		Star is EG Ori , not EG Oph
34840	116		Star is V343 Ori , not V343 Oph
34896	116	AU Ser	Observer HP instead of KL

R. Diethelm

Remark concerning SV Gem

Due to the unfavorable period of 4.006^d, only very few observations of minimum have been reported during this century. The minimum given here has an amplitude of less than 0.2^m. In addition, the variable star is not the one identified as SV Gem on the chart published by the BAV. On the other hand, the data obtained in different nights fit nicely together. We publish the result here in order to facilitate the search for the primary minimum as attempted by several observers during the last years.

A. Paschke