

BBSAG

BULLETIN

126

November 15th, 2001

159. LIST OF MINIMA OF ECLIPSING BINARIES

The following table lists 274 electronically recorded (CCD; underlined) and 78 visual timings of minima of eclipsing binaries obtained primarily between July and October 2001 by the following observers:

EBl	Ernst Blaettler, Wald, Switzerland, blaettler-wald@bluewin.ch
RD	Roger Diethelm, R. Szafraniec Observatory, Metzerlen, Switzerland, diethelm@astro.unibas.ch
PG	Peter Guilbault, Chepachet, R.I., USA, Pete1199@aol.com
KL	Kurt Locher, Grüt, Switzerland, locher@tommasi.ch
APs	Anton Paschke, Rüti, Switzerland, Anton@Paschke.com
WW	Walter Weilenmann, Wetzikon, 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 determination of the time of the minima, the tracing paper method was employed. For the reduction of some of the electronic observations, software based on the Kwee-van Woerden algorithm was used. All times are UTC. The complete set of BBSAG Bulletins is available in the PDF-format at <http://www.astroinfo.org/bbsag/bulletins.html>.

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Nr.	Star	Type	O	e.	O-C	n	Obs	Remarks
37137	UU And	p	52179.295	0.007	+0.034	6	KL	
37138	XZ And	p	52120.462	0.003	+0.111	10	KL	
37139	AB And	p	<u>52195.3800</u>	<u>0.0003</u>	<u>-0.0161</u>	35	EBI	CCD
37140	AP And	p	<u>52195.4518</u>	<u>0.0009</u>	<u>+0.0029</u>	22	EBI	CCD; elem. GEOS Circ. EB 22
37141	BD And	p	<u>52195.3368</u>	<u>0.0005</u>	<u>+0.0100</u>	21	EBI	CCD
37142	BL And	p	<u>52190.4830</u>	<u>0.0011</u>	<u>-0.0011</u>	16	RD	CCD
37143	DS And	p	<u>52193.484</u>	<u>0.005</u>	<u>-0.001</u>	12	RD	CCD
37144	EP And	s	52094.483	0.006	+0.046	5	KL	
37145	KN And	p	<u>52133.518</u>	<u>0.003</u>	<u>+0.002</u>	11	RD	CCD; elem. BAV 36, 11
37146	LO And	s	<u>52195.3255</u>	<u>0.0004</u>	<u>+0.0843</u>	16	EBI	CCD; elem. GEOS Circ. EB 11
37147	QW And	s	<u>52194.283</u>	<u>0.005</u>	<u>-0.052</u>	9	RD	CCD; elem. IBVS No. 4324
37148	V412 And	p	<u>52205.3654</u>	<u>0.0007</u>	<u>+0.0509</u>	26	EBI	CCD; elem. IBVS No. 4674
37149	XZ Aqr	p	52204.295	0.007	+0.083	6	KL	
37150	CX Aqr	p	52094.551	0.005	-0.008	6	KL	
37151	CZ Aqr	p	52165.501	0.007	-0.019	5	KL	
37152	EX Aqr	p	<u>52147.386</u>	<u>0.005</u>	<u>+0.032</u>	8	RD	CCD
37153	GK Aqr	s	52092.594	0.009	-0.095	7	KL	elem. P.Zv. 22, 327
37154	V640 Aql	p	<u>52093.4958</u>	<u>0.0014</u>	<u>+0.0021</u>	14	RD	CCD; elem. BAV
37155	V761 Aql	p	<u>52094.502</u>	<u>0.002</u>	<u>+0.092</u>	12	RD	CCD
37156	V770 Aql	s	<u>52094.509</u>	<u>0.005</u>	<u>+0.316</u>	12	RD	CCD
37157	V1168 Aql	p	<u>52147.419</u>	<u>0.003</u>	<u>+0.001</u>	8	RD	CCD
37158	V1243 Aql	p	<u>52120.4114</u>	<u>0.0018</u>	<u>+0.0261</u>	14	RD	CCD
37159	V1355 Aql	s	<u>52093.4481</u>	<u>0.0005</u>	<u>+0.0766</u>	11	RD	CCD
37160	V1490 Aql	p	<u>52150.314</u>	<u>0.010</u>	<u>-0.053</u>	17	RD	CCD; elem. IBVS No. 4540
37161	RY Aur	p	52194.526	0.008	+0.018	6	KL	
37162	CL Aur	p	<u>52196.5200</u>	<u>0.0003</u>	<u>+0.0934</u>	18	RD	CCD
37163	KU Aur	p	52200.548	0.005	+0.034	6	KL	
37164	TU Boo	s	52212.688	0.004	+0.002	4	KL	elem. A&AS 117, 105
37165	Y Cam	p	52148.492	0.008	+0.235	7	KL	
37166	AK CMi	p	52208.656	0.004	-0.004	6	KL	

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Nr.	Star	Type	O	e.	O-C	n	Obs	Remarks
37167	AB Cas	p	<u>52185.594</u>	0.002	+0.063	5	KL	
37168	AH Cas	p	<u>52190.5172</u>	<u>0.0002</u>	<u>-0.1936</u>	19	RD	CCD
37169	AT Cas	p	<u>52144.521</u>	<u>0.004</u>	<u>-0.075</u>	15	RD	CCD; minimum asymmetric
37170	BZ Cas	p	<u>52118.5151</u>	<u>0.0004</u>	<u>+0.0385</u>	22	RD	CCD
37171	DP Cas	p	<u>52136.592</u>	<u>0.005</u>	<u>+0.088</u>	26	RD	CCD
37172	LQ Cas	p	<u>52146.406</u>	<u>0.002</u>	<u>-0.158</u>	10	RD	CCD
37173	LU Cas	p	<u>52136.535</u>	<u>0.002</u>	<u>+0.120</u>	20	RD	CCD
37174	MS Cas	p	<u>52136.5215</u>	<u>0.0006</u>	<u>+0.0348</u>	14	RD	CCD
37175	MT Cas	p	<u>52190.2867</u>	<u>0.0016</u>	<u>+0.0031</u>	13	EBI	CCD
37176	MY Cas	p	<u>52193.599</u>	<u>0.003</u>	<u>+0.024</u>	11	RD	CCD
37177	NU Cas	s	<u>52190.2945</u>	<u>0.0010</u>	<u>-0.1720</u>	12	EBI	CCD
37178	OR Cas	p	52094.488	0.004	-0.009	6	KL	
37179		p	<u>52150.5394</u>	<u>0.0005</u>	<u>-0.0154</u>	20	RD	CCD
37180	PV Cas	p	<u>52195.3379</u>	<u>0.0004</u>	<u>-0.0290</u>	21	EBI	CCD
37181	V355 Cas	p	52150.416	0.004	-0.086	10	KL	
37182	V366 Cas	s	<u>52150.5634</u>	<u>0.0015</u>	<u>+0.0211</u>	19	RD	CCD; elem. IBVS No. 4798
37183	V374 Cas	s	<u>52190.345</u>	<u>0.004</u>	<u>+0.020</u>	11	EBI	CCD
37184	V384 Cas	p	<u>52194.3214</u>	<u>0.0007</u>	<u>-0.1336</u>	15	RD	CCD
37185	V411 Cas	p	<u>52147.567</u>	<u>0.008</u>	<u>+0.235</u>	13	RD	CCD
37186	V448 Cas	p	<u>52118.480</u>	<u>0.002</u>	<u>+0.034</u>	16	RD	CCD
37187	V520 Cas	p	<u>52195.3505</u>	<u>0.0007</u>	<u>+0.0523</u>	24	EBI	CCD; elem. BBSAG Bull. 117, 9
37188	V523 Cas	p	52116.413	0.006	+0.008	6	KL	elem. MNRAS 317, 111
37189	V608 Cas	s	<u>51926.4397</u>	<u>0.0009</u>	<u>+0.0001</u>	21	EBI	CCD; elem. IBVS No. 5151
37190		s	<u>52001.3790</u>	<u>0.0008</u>	<u>+0.0004</u>	38	EBI	CCD
37191		p	<u>52041.5100</u>	<u>0.0008</u>	<u>-0.0009</u>	32	EBI	CCD
37192		s	<u>52058.4387</u>	<u>0.0007</u>	<u>0.0000</u>	6	EBI	CCD
37193		p	<u>52065.4768</u>	<u>0.0009</u>	<u>+0.0006</u>	31	EBI	CCD
37194	V651 Cas	s	<u>52146.523</u>	<u>0.003</u>	<u>+0.004</u>	8	RD	CCD; elem. IBVS No. 3554
37195	V860 Cas	p	52118.543	0.005	+0.007	10	KL	elem. BBSAG Bull. 123, 10
37196	SY Cep	p	<u>52112.4321</u>	<u>0.0009</u>	<u>-0.0801</u>	18	RD	CCD
37197	TV Cep	p	<u>52196.338</u>	<u>0.002</u>	<u>+0.058</u>	19	RD	CCD; see note p. 11
37198	WY Cep	s	<u>52144.5446</u>	<u>0.0008</u>	<u>+0.0116</u>	21	RD	CCD

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37199	WZ Cep	s	<u>52197.3474</u>	<u>0.0007</u>	<u>-0.0274</u>	31	EBI	CCD; elem. A&AS 131, 7
37200	XY Cep	p	<u>52120.4195</u>	<u>0.0018</u>	<u>-0.0266</u>	16	RD	CCD
37201	BR Cep	p	<u>52147.400</u>	<u>0.003</u>	<u>-0.002</u>	9	RD	CCD
37202		p	<u>52150.567</u>	<u>0.005</u>	<u>-0.002</u>	7	KL	
37203	CM Cep	p	<u>52115.530</u>	<u>0.003</u>	<u>-0.026</u>	6	KL	
37204		p	<u>52143.4092</u>	<u>0.0005</u>	<u>-0.0309</u>	12	RD	CCD
37205		p	<u>52197.3172</u>	<u>0.0005</u>	<u>-0.0318</u>	31	EBI	CCD
37206	DE Cep	p	<u>52094.4846</u>	<u>0.0010</u>	<u>-0.0210</u>	12	RD	CCD
37207		p	<u>52195.3037</u>	<u>0.0009</u>	<u>-0.0206</u>	15	RD	CCD
37208	DN Cep	p	<u>52196.442</u>	<u>0.005</u>	<u>-0.019</u>	7	RD	CCD
37209	DP Cep	s	<u>52197.3662</u>	<u>0.0012</u>	<u>-0.7090</u>	22	EBI	CCD
37210	EO Cep	p	<u>52133.492</u>	<u>0.005</u>	<u>+0.125</u>	19	RD	CCD
37211	GS Cep	s	<u>52093.4658</u>	<u>0.0005</u>	<u>-0.0009</u>	17	RD	CCD; elem. IBVS No. 3596
37212	IO Cep	p	<u>52117.392</u>	<u>0.003</u>	<u>-0.005</u>	6	KL	
37213	KP Cep	p	<u>52135.523</u>	<u>0.003</u>	<u>+0.039</u>	22	RD	CCD
37214	LL Cep	p	<u>52197.4083</u>	<u>0.0007</u>	<u>+0.0024</u>	20	EBI	CCD
37215	LP Cep	p	<u>52135.4733</u>	<u>0.0012</u>	<u>+0.0017</u>	15	RD	CCD; elem. IBVS No. 4829
37216	NR Cep	s	<u>52135.4309</u>	<u>0.0008</u>	<u>-0.0376</u>	17	RD	CCD
37217		s	<u>52190.507</u>	<u>0.004</u>	<u>-0.036</u>	18	RD	CCD
37218	V357 Cep	p	<u>52197.413</u>	<u>0.004</u>	<u>-0.155</u>	7	KL	elem. Brno Contr. 28, 34
37219	V358 Cep	p	<u>52122.580</u>	<u>0.003</u>	<u>+0.030</u>	8	KL	elem. BBSAG Bull. 96, 10
37220	V489 Cep	s	<u>52112.438</u>	<u>0.007</u>	<u>+0.044</u>	18	RD	CCD; elem. IBVS No. 4406; note p. 11
37221	TW Cet	s	<u>52118.616</u>	<u>0.007</u>	<u>-0.017</u>	4	KL	
37222	UW Cyg	p	<u>52113.416</u>	<u>0.005</u>	<u>+0.025</u>	10	WW	
37223		p	<u>52113.417</u>	<u>0.005</u>	<u>+0.026</u>	10	KL	
37224	WW Cyg	p	<u>52202.444</u>	<u>0.006</u>	<u>+0.029</u>	7	KL	
37225	WZ Cyg	p	<u>52155.393</u>	<u>0.006</u>	<u>+0.046</u>	4	KL	
37226	ZZ Cyg	p	<u>52187.292</u>	<u>0.004</u>	<u>-0.037</u>	6	KL	
37227	BO Cyg	p	<u>52133.46</u>	<u>0.01</u>	<u>+0.03</u>	16	RD	CCD, elem. P. Zv. 23, 266
37228	BR Cyg	p	<u>52181.313</u>	<u>0.005</u>	<u>-0.010</u>	5	KL	
37229	HK Cyg	p	<u>52112.3974</u>	<u>0.0009</u>	<u>-0.1339</u>	11	RD	CCD
37230		p	<u>52204.341</u>	<u>0.006</u>	<u>-0.118</u>	4	KL	
37231	PQ Cyg	p	<u>52100.454</u>	<u>0.002</u>	<u>+0.045</u>	18	EBI	CCD

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37232	V445 Cyg	p	<u>52196.3486</u>	<u>0.0007</u>	<u>+0.2273</u>	17	RD	CCD
37233	V477 Cyg	s	<u>52120.430</u>	<u>0.005</u>	<u>-0.489</u>	18	RD	CCD; displ. secondary
37234	V484 Cyg	p	<u>52100.531</u>	<u>0.005</u>	<u>+0.114</u>	18	EBI	CCD
37235		p	<u>52135.4556</u>	<u>0.0009</u>	<u>+0.1049</u>	18	RD	CCD
37236	V494 Cyg	p	<u>52094.487</u>	<u>0.005</u>	<u>+0.066</u>	9	RD	CCD; min. asymmetric
37237		p	<u>52146.5170</u>	<u>0.0008</u>	<u>+0.061</u>	13	RD	CCD
37238	V502 Cyg	p	<u>52093.5000</u>	<u>0.0004</u>	<u>+0.1029</u>	11	RD	CCD
37239	V525 Cyg	p	<u>52187.332</u>	<u>0.003</u>	<u>-0.025</u>	14	RD	CCD
37240	V548 Cyg	p	<u>52150.414</u>	<u>0.003</u>	<u>+0.015</u>	17	RD	CCD
37241	V616 Cyg	p	<u>52196.2978</u>	<u>0.0016</u>	<u>-0.2920</u>	13	RD	CCD
37242	V725 Cyg	p	<u>52113.448</u>	<u>0.005</u>	<u>+0.233</u>	16	RD	CCD
37243	V726 Cyg	p	52115.520	0.004	+0.042	7	KL	
37244	V728 Cyg	p	52171.432	0.007	-0.008	7	KL	
37245	V753 Cyg	p	<u>52113.4401</u>	<u>0.0008</u>	<u>+0.0022</u>	16	RD	CCD; elem. BAV M. 69
37246		p	<u>52196.2968</u>	<u>0.0009</u>	<u>+0.0021</u>	15	RD	CCD
37247	V869 Cyg	p	<u>52084.5035</u>	<u>0.0009</u>	<u>+0.0818</u>	21	EBI	CCD
37248		p	<u>52093.456</u>	<u>0.003</u>	<u>+0.083</u>	19	RD	CCD
37249	V809 Cyg	p	<u>52144.4076</u>	<u>0.0004</u>	<u>+0.0316</u>	12	RD	CCD
37250	V910 Cyg	p	<u>52187.321</u>	<u>0.008</u>	<u>-0.010</u>	13	RD	CCD
37251	V965 Cyg	s	<u>52133.5202</u>	<u>0.0009</u>	<u>-0.0879</u>	16	RD	CCD
37252	V974 Cyg	s	<u>52116.4638</u>	<u>0.0006</u>	<u>-0.2288</u>	22	RD	CCD; displ. secondary
37253	V975 Cyg	p	<u>52116.4282</u>	<u>0.0012</u>	<u>-0.1034</u>	14	RD	CCD
37254	V981 Cyg	p	<u>52133.504</u>	<u>0.003</u>	<u>-0.140</u>	10	RD	CCD
37255		s	<u>52143.4184</u>	<u>0.0017</u>	<u>-0.1250</u>	9	RD	CCD
37256	V1188 Cyg	p	<u>52100.485</u>	<u>0.0013</u>	<u>-0.0145</u>	19	EBI	CCD
37257	V1256 Cyg	p	<u>52084.4783</u>	<u>0.0017</u>	<u>-0.0265</u>	21	EBI	CCD
37258	V1355 Cyg	p	<u>52135.518</u>	<u>0.003</u>	<u>+0.037</u>	22	RD	CCD
37259	V1414 Cyg	p	<u>52100.417</u>	<u>0.002</u>	<u>+0.035</u>	12	EBI	CCD
37260	V1416 Cyg	s	<u>52118.51</u>	<u>0.01</u>	<u>+0.13</u>	22	RD	CCD
37261	GSC3547 :216 Cyg	p	<u>52112.5044</u>	<u>0.0010</u>	<u>+0.0093</u>	18	EBI	CCD; elem. IBVS No. 4996
37262	GSC3551 :81 Cyg	p	<u>52112.4335</u>	<u>0.0004</u>	<u>+0.0020</u>	28	EBI	CCD; elem. IBVS No. 4985
37263	GSC3564 :3059 Cyg	s	<u>52112.4986</u>	<u>0.0011</u>	<u>-0.0557</u>	18	EBI	CCD; elem. IBVS No. 4995

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37264	GSC3921	s	<u>52112.4856</u>	<u>0.0008</u>	<u>-0.0091</u>	24	EBI	CCD; elem. IBVS No. 4996
37265	:1531 Cyg	p	52137.629	0.001	-0.003	14	PG	elem. IBVS No. 5018
37266	LD355 Cyg	p	52197.315	0.004	+0.008	6	KL	
37267	AL Del	p	<u>52118.470</u>	<u>0.003</u>	<u>+0.040</u>	22	RD	CCD
37268	CR Del	p	<u>52143.404</u>	<u>0.005</u>	<u>+0.138</u>	16	RD	CCD
37269	EQ Del	p	<u>52113.4216</u>	<u>0.0006</u>	<u>-0.0550</u>	17	RD	CCD
37270	ET Del	s	<u>52093.4704</u>	<u>0.0010</u>	<u>-0.0190</u>	22	RD	CCD
37271	EX Del	p	<u>52116.449</u>	<u>0.004</u>	<u>+0.006</u>	34	APs	CCD; elem. BBSAG Bull. 114, 11
37272	FZ Del	p	52180.456	0.005	-0.041	7	KL	
37273	Z Dra	p	52123.514	0.004	-0.140	10	KL	
37274	RR Dra	p	52190.302	0.004	+0.054	7	KL	
37275	BF Dra	s	<u>52147.40</u>	<u>0.02</u>	<u>-0.21</u>	18	RD	CCD; elem. IBVS No. 3867; displ. sec.
37276	DW Dra	p	52150.513	0.005	+0.013	8	KL	elem. BBSAG Bull. 118, 7
37277	GSC3549	s	<u>52121.5054</u>	<u>0.0002</u>		25	EBI	CCD
37278	:929 Dra	s	<u>52135.4915</u>	<u>0.0010</u>		27	EBI	CCD
37279		p	<u>52143.3595</u>	<u>0.0007</u>		12	EBI	CCD
37280		s	<u>52146.3321</u>	<u>0.0018</u>		11	EBI	CCD
37281		p	<u>52146.5054</u>	<u>0.0006</u>		15	EBI	CCD
37282		p	<u>52171.3344</u>	<u>0.0017</u>		16	EBI	CCD
37283		p	<u>52179.3735</u>	<u>0.0004</u>		22	EBI	CCD
37284		s	<u>52181.2972</u>	<u>0.0014</u>		9	EBI	CCD
37285		p	<u>52181.4720</u>	<u>0.0022</u>		6	EBI	CCD
37286		p	<u>52187.4128</u>	<u>0.0014</u>		15	EBI	CCD
37287	RZ Equ	p	<u>52115.517</u>	<u>0.006</u>	<u>0.000</u>	10	RD	CCD; elem. BBSAG B. 110, 9
37288	TZ Eri	p	52184.605	0.003	+0.203	7	KL	
37289	BD Gem	p	52200.550	0.003	-0.023	7	KL	
37290	CX Gem	p	52202.637	0.005	0.000	8	KL	
37291	SZ Her	p	52208.321	0.007	-0.019	8	KL	
37292	DQ Her	p	52202.309	0.001	+0.004	11	KL	
37293	IT Her	p	<u>52143.3906</u>	<u>0.0005</u>	<u>+0.0837</u>	16	EBI	CCD; elem. IBVS No. 4663
37294	KL Her	p	<u>52146.3420</u>	<u>0.0018</u>	<u>+0.0211</u>	9	EBI	CCD
37295	MS Her	p	<u>52143.364</u>	<u>0.004</u>		15	EBI	CCD; elem. in need of revision
37296		s	<u>52146.4054</u>	<u>0.0018</u>		15	EBI	CCD
37297	MT Her	s	<u>52146.4346</u>	<u>0.0015</u>	<u>+0.0114</u>	14	EBI	CCD
37298		p	52179.362	0.005	+0.018	5	KL	

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Nr.	Star	Type	O	e.	O-C	n	Obs	Remarks
37299	V643 Her	p	<u>52171.3431</u>	<u>0.0010</u>	<u>-0.2860</u>	16	EBI	CCD
37300	GSC1522	p	<u>52065.4901</u>	<u>0.0006</u>	<u>+0.0011</u>	19	EBI	CCD; elem IBVS No. 5146
37301	:599 Her	s	<u>52075.3932</u>	<u>0.0012</u>	<u>-0.0003</u>	10	EBI	CCD
37302	GSC2056	p	52117.407	0.003		6	KL	
	:117 Her							
37303	GSC2063	p	<u>52056.5335</u>	<u>0.0006</u>	<u>-0.0005</u>	20	EBI	CCD; elem IBVS No. 5146
37304	:902 Her	p	<u>52058.4904</u>	<u>0.0008</u>	<u>-0.0020</u>	15	EBI	CCD
37305		p	<u>52065.5426</u>	<u>0.0010</u>	<u>+0.0000</u>	14	EBI	CCD
37306		p	<u>52073.3775</u>	<u>0.0009</u>	<u>+0.0014</u>	10	EBI	CCD
37307		s	<u>52073.5724</u>	<u>0.0006</u>	<u>-0.0009</u>	12	EBI	CCD
37308		s	<u>52075.530</u>	<u>0.004</u>	<u>-0.002</u>	6	EBI	CCD
37309		p	<u>52082.3853</u>	<u>0.0022</u>	<u>+0.0007</u>	7	EBI	CCD
37310	GSC2066	p	<u>52056.4124</u>	<u>0.0012</u>	<u>-0.0023</u>	17	EBI	CCD; elem IBVS No. 5146
37311	:1210 Her	s	<u>52056.5648</u>	<u>0.0007</u>	<u>+0.0011</u>	10	EBI	CCD
37312		p	<u>52058.5009</u>	<u>0.0010</u>	<u>-0.0002</u>	17	EBI	CCD
37313		s	<u>52065.5059</u>	<u>0.0010</u>	<u>+0.0006</u>	22	EBI	CCD
37314		p	<u>52073.4019</u>	<u>0.0010</u>	<u>-0.0018</u>	9	EBI	CCD
37315		s	<u>52073.5545</u>	<u>0.0018</u>	<u>+0.0018</u>	13	EBI	CCD
37316		p	<u>52075.4910</u>	<u>0.0016</u>	<u>+0.0010</u>	16	EBI	CCD
37317	GSC2594	p	<u>52056.4352</u>	<u>0.0006</u>	<u>+0.0019</u>	14	EBI	CCD; elem IBVS No. 5146
37318	:1289 Her	s	<u>52056.5664</u>	<u>0.0002</u>	<u>-0.0010</u>	10	EBI	CCD
37319		s	<u>52058.4444</u>	<u>0.0026</u>	<u>-0.0002</u>	9	EBI	CCD
37320		p	<u>52058.5797</u>	<u>0.0003</u>	<u>+0.0010</u>	11	EBI	CCD
37321		s	<u>52065.4171</u>	<u>0.0004</u>	<u>-0.0002</u>	15	EBI	CCD
37322		p	<u>52065.5528</u>	<u>0.0009</u>	<u>+0.0014</u>	12	EBI	CCD
37323		s	<u>52073.4593</u>	<u>0.0021</u>	<u>-0.0034</u>	14	EBI	CCD
37324		p	<u>52075.4748</u>	<u>0.0001</u>	<u>+0.0008</u>	15	EBI	CCD
0								
37325	GSC2604	p	<u>52056.3944</u>	<u>0.0013</u>		12	EBI	CCD
37326	:1671 Her	s	<u>52056.5398</u>	<u>0.0009</u>		13	EBI	CCD
37327		s	<u>52058.5548</u>	<u>0.0012</u>		11	EBI	CCD
37328		s	<u>52065.4626</u>	<u>0.0010</u>		23	EBI	CCD
37329		p	<u>52073.3767</u>	<u>0.0007</u>		9	EBI	CCD
37330		s	<u>52073.5201</u>	<u>0.0011</u>		16	EBI	CCD
37331		p	<u>52075.3936</u>	<u>0.0012</u>		10	EBI	CCD
37332		s	<u>52075.5357</u>	<u>0.0021</u>		8	EBI	CCD
37333	GSC2625	p	<u>52116.4220</u>	<u>0.0014</u>	<u>-0.0007</u>	21	EBI	CCD; elem. IBVS No. 4975
	:1563 Her							
37334	GSC3073	p	<u>52056.3571</u>	<u>0.0018</u>		6	EBI	CCD
37335	:837 Her	s	<u>52056.4756</u>	<u>0.0008</u>		12	EBI	CCD
37336		p	<u>52058.5234</u>	<u>0.0006</u>		18	EBI	CCD
37337		s	<u>52065.3794</u>	<u>0.0004</u>		10	EBI	CCD
37338		p	<u>52065.5020</u>	<u>0.0006</u>		14	EBI	CCD
37339		p	<u>52073.4423</u>	<u>0.0004</u>		15	EBI	CCD
37340		s	<u>52073.5601</u>	<u>0.0022</u>		11	EBI	CCD
37341		p	<u>52075.3681</u>	<u>0.0008</u>		8	EBI	CCD
37342		s	<u>52075.4846</u>	<u>0.0010</u>		14	EBI	CCD

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37343	GSC3094	p	<u>52056.3744</u>	<u>0.0026</u>		9	EBI	CCD
37344	.:120 Her	s	<u>52056.5355</u>	<u>0.0012</u>		16	EBI	CCD
37345		s	<u>52058.4294</u>	<u>0.0017</u>		9	EBI	CCD
37346		p	<u>52058.5846</u>	<u>0.0028</u>		10	EBI	CCD
37347		p	<u>52065.5231</u>	<u>0.0001</u>		23	EBI	CCD
37348		p	<u>52073.4094</u>	<u>0.0011</u>		13	EBI	CCD
37349		s	<u>52073.5690</u>	<u>0.0002</u>		12	EBI	CCD
37350		s	<u>52075.4594</u>	<u>0.0011</u>		16	EBI	CCD
37351		s	<u>52082.3999</u>	<u>0.0004</u>		10	EBI	CCD
37352	GSC3099	s	<u>52116.462</u>	<u>0.002</u>	<u>-0.003</u>	6	EBI	CCD; elem. IBVS No. 4965
37353	:905 Her	s	<u>52116.416</u>	<u>0.003</u>	<u>+0.003</u>	13	EBI	CCD; elem. IBVS No. 4966
37354	GSC3100	s	<u>52116.416</u>	<u>0.003</u>	<u>+0.003</u>	13	EBI	CCD; elem. IBVS No. 4966
37354	:1616 Her	p	<u>52056.368:</u>	<u>0.004</u>		6	EBI	CCD
37355	J1712+331	s	<u>52056.5245</u>	<u>0.0018</u>		16	EBI	CCD
37355	Her	s	<u>52056.5245</u>	<u>0.0018</u>		16	EBI	CCD
37356		s	<u>52058.4521</u>	<u>0.0006</u>		13	EBI	CCD
37357		s	<u>52065.5062</u>	<u>0.0008</u>		24	EBI	CCD
37358		p	<u>52073.3594</u>	<u>0.0030</u>		7	EBI	CCD
37359		s	<u>52073.5256</u>	<u>0.0016</u>		12	EBI	CCD
37360		s	<u>52075.4479</u>	<u>0.0017</u>		14	EBI	CCD
37361	AS Hya	p	52213.687	0.004	-0.028	5	KL	elem. BBSAG Bull. 83, 5
37362	CG Lac	p	<u>52146.5244</u>	<u>0.0011</u>	<u>-0.1304</u>	15	RD	CCD
37363	CO Lac	s	<u>52094.5110</u>	<u>0.0008</u>	<u>+0.0127</u>	18	RD	CCD; displ. secondary
37364	DG Lac	p	52181.309	0.005	-0.196	5	KL	
37365	EL Lac	p	<u>52133.5491</u>	<u>0.0010</u>	<u>+0.1286</u>	18	RD	CCD
37366	HX Lac	s	<u>52113.487</u>	<u>0.003</u>	<u>-0.060</u>	10	RD	CCD
37367	MZ Lac	s	<u>52136.5274</u>	<u>0.0015</u>	<u>+0.2224</u>	22	RD	CCD; elem. JAAVSO 19, 12; displ. sec.
37368	OO Lac	p	<u>52094.5114</u>	<u>0.0005</u>	<u>+0.1279</u>	19	RD	CCD
37369		p	<u>52196.3542</u>	<u>0.0009</u>	<u>+0.1264</u>	17	RD	CCD
37370	V339 Lac	p	<u>52115.57</u>	<u>0.01</u>	<u>+0.17</u>	12	RD	CCD
37371	AH Lyr	p	<u>52146.3719</u>	<u>0.0008</u>	<u>-0.1161</u>	18	EBI	CCD
37372	DF Lyr	s	<u>52086.551</u>	<u>0.002</u>	<u>+0.030</u>	8	EBI	CCD
37373		p	<u>52121.4700</u>	<u>0.0009</u>	<u>+0.0332</u>	18	EBI	CCD
37374	DU Lyr	p	<u>52143.4052</u>	<u>0.0008</u>	<u>+0.1542</u>	13	RD	CCD
37375		p	<u>52179.3964</u>	<u>0.0004</u>	<u>+0.1544</u>	25	EBI	CCD
37376	EW Lyr	p	<u>52055.488</u>	<u>0.002</u>	<u>+0.238</u>	48	APs	CCD
37377		p	<u>52092.511</u>	<u>0.003</u>	<u>+0.235</u>	9	KL	
37378		p	<u>52135.3877</u>	<u>0.0007</u>	<u>+0.2396</u>	14	EBI	CCD
37379	EX Lyr	p	<u>52146.4019</u>	<u>0.0018</u>		12	RD	CCD
37380	IP Lyr	p	<u>52135.5173</u>	<u>0.0010</u>	<u>-0.0030</u>	19	EBI	CCD

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37381	IW Lyr	s	<u>52086.502</u>	<u>0.003</u>	<u>+0.300</u>	18	EBI	CCD
37382	LZ Lyr	p	<u>52146.3932</u>	<u>0.0010</u>	<u>+0.2188</u>	18	EBI	CCD
37383	MN Lyr	p	<u>52121.4253</u>	<u>0.0009</u>	<u>+0.0377</u>	17	EBI	CCD
37384	NV Lyr	p	<u>52144.3895</u>	<u>0.0007</u>	<u>-0.0671</u>	14	RD	CCD
37385	NY Lyr	p	<u>52086.5513</u>	<u>0.0004</u>	<u>+0.0808</u>	18	EBI	CCD
37386	PY Lyr	s	<u>52135.3652</u>	<u>0.0018</u>	<u>-0.0301</u>	12	EBI	CCD
37387		p	<u>52135.555</u>	<u>0.002</u>	<u>-0.033</u>	9	EBI	CCD
37388	QU Lyr	s	<u>52120.4231</u>	<u>0.0009</u>	<u>-0.0002</u>	14	RD	CCD
37389		p	<u>52150.3857</u>	<u>0.0014</u>	<u>-0.0020</u>	15	RD	CCD
37390	V361 Lyr	p	52202.357	0.002	-0.004	8	KL	elem. IBVS No. 4177
37391	V411 Lyr	p	<u>52086.473</u>	<u>0.003</u>	<u>-0.094</u>	23	EBI	CCD; Pulsator?, see note p. 11
37392		s	<u>52179.404</u>	<u>0.002</u>	<u>-0.092</u>	21	EBI	CCD
37393	GSC2632	s	<u>52121.4790</u>	<u>0.0006</u>		28	EBI	CCD
37394	:319 Lyr	s	<u>52135.3487</u>	<u>0.0002</u>		14	EBI	CCD
37395		p	<u>52135.5276</u>	<u>0.0016</u>		15	EBI	CCD
37396		p	<u>52143.3516</u>	<u>0.0014</u>		12	EBI	CCD
37397		s	<u>52146.3771</u>	<u>0.0009</u>		16	EBI	CCD
37398		p	<u>52179.2782</u>	<u>0.0012</u>		13	EBI	CCD
37399		s	<u>52179.4563</u>	<u>0.0005</u>		14	EBI	CCD
37400		p	<u>52181.4077</u>	<u>0.0015</u>		24	EBI	CCD
37401		s	<u>52187.2813</u>	<u>0.0009</u>		14	EBI	CCD
37402		p	<u>52187.4555</u>	<u>0.0028</u>		7	EBI	CCD
37403	GSC2636	p	<u>52116.4516</u>	<u>0.0006</u>	<u>-0.0015</u>	22	EBI	CCD; elem. IBVS No. 4976
	:1753 Lyr							
37404	GSC2646	p	<u>52116.3660</u>	<u>0.0010</u>	<u>-0.0002</u>	9	EBI	CCD; elem. IBVS No. 4982
37405	:1938 Lyr	s	<u>52116.5111</u>	<u>0.0013</u>	<u>+0.0003</u>	9	EBI	CCD
37406	GSC3104	p	<u>52121.3755</u>	<u>0.0007</u>		16	EBI	CCD
37407	:1384 Lyr	s	<u>52121.5253</u>	<u>0.0010</u>		18	EBI	CCD
37408		s	<u>52135.3420</u>	<u>0.0006</u>		8	EBI	CCD
37409		p	<u>52135.4939</u>	<u>0.0009</u>		19	EBI	CCD
37410		s	<u>52146.4590</u>	<u>0.0008</u>		26	EBI	CCD
37411		s	<u>52171.3890</u>	<u>0.0006</u>		11	EBI	CCD
37412		p	<u>52179.3522</u>	<u>0.0009</u>		22	EBI	CCD
37413		s	<u>52181.3045</u>	<u>0.0009</u>		14	EBI	CCD
37414		p	<u>52181.4533</u>	<u>0.0018</u>		11	EBI	CCD
37415		s	<u>52187.3125</u>	<u>0.0006</u>		18	EBI	CCD
37416	V400 Lyr	p	<u>52116.3770</u>	<u>0.0012</u>	<u>-0.0023</u>	11	EBI	CCD; elem. IBVS No. 4995
37417		s	<u>52116.5057</u>	<u>0.0014</u>	<u>-0.0003</u>	10	EBI	CCD
37418	GSC3123	p	<u>52116.4083</u>	<u>0.0009</u>	<u>+0.0077</u>	16	EBI	CCD; elem. IBVS No. 4985
	:1618 Lyr							
37419	GSC3131	s	<u>52116.3887</u>	<u>0.0009</u>	<u>+0.0009</u>	14	EBI	CCD; elem. IBVS No. 4982
37420	:476 Lyr	p	<u>52116.508</u>	<u>0.003</u>	<u>-0.001</u>	10	EBI	CCD

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Nr.	Star	Type	O	e.	O-C	n	Obs	Remarks
37421	GSC3540	s	<u>52121.4906</u>	<u>0.0007</u>		26	EBI	CCD
37422	:85 Lyr	p	<u>52135.4254</u>	<u>0.0008</u>		24	EBI	CCD
37423		s	<u>52143.3650</u>	<u>0.0016</u>		13	EBI	CCD
37424		s	<u>52146.3616</u>	<u>0.0012</u>		16	EBI	CCD
37425		p	<u>52146.5110</u>	<u>0.0011</u>		14	EBI	CCD
37426		p	<u>52171.3810</u>	<u>0.0009</u>		14	EBI	CCD
37427		s	<u>52179.3187</u>	<u>0.0007</u>		18	EBI	CCD
37428		p	<u>52179.4698</u>	<u>0.0005</u>		8	EBI	CCD
37429		s	<u>52181.4200</u>	<u>0.0011</u>		13	EBI	CCD
37430		s	<u>52187.4135</u>	<u>0.0006</u>		16	EBI	CCD
37431	RW Mon	p	52209.550	0.002	-0.039	11	KL	
37432	AL Oph	p	<u>52086.432</u>	<u>0.007</u>	<u>-0.020</u>	30	APs	CCD; elem. IBVS No. 4452
37433	V449 Oph	p	52112.417	0.002	+0.051	7	KL	
37434	V508 Oph	p	52195.259	0.004	-0.001	6	KL	
37435	V509 Oph	p	<u>52083.469</u>	<u>0.007</u>	<u>+0.037</u>	41	APs	CCD
37436	V913 Oph	p	52148.438	0.006	+0.154	8	KL	
37437	V1016 Oph	s	<u>52073.436</u>	<u>0.008</u>	<u>+0.054</u>	22	APs	CCD; elem. BBSAG Bull. 99, 9
37438	FK Ori	p	52208.631	0.006	+0.002	6	KL	
37439	U Peg	p	<u>52195.4346</u>	<u>0.0002</u>	<u>-0.0873</u>	26	EBI	CCD
37440	TY Peg	p	52118.523	0.004	-0.207	6	KL	
37441	UX Peg	p	52195.451	0.006	-0.009	6	KL	
37442	BK Peg	s	<u>52136.580</u>	<u>0.002</u>	<u>-0.006</u>	26	RD	CCD
37443	BN Peg	p	<u>52190.3210</u>	<u>0.0008</u>	<u>+0.0012</u>	14	RD	CCD
37444	BO Peg	p	<u>52194.3776</u>	<u>0.0004</u>	<u>-0.0227</u>	29	EBI	CCD
37445	BX Peg	p	<u>52194.3215</u>	<u>0.0006</u>	<u>-0.0589</u>	19	EBI	CCD
37446	CE Peg	p	<u>52144.5722</u>	<u>0.0013</u>	<u>-0.2159</u>	18	RD	CCD
37447	CW Peg	p	52093.545	0.007	+0.043	5	KL	
37448	DK Peg	p	<u>52147.520</u>	<u>0.008</u>	<u>+0.057</u>	13	RD	CCD
37449	DP Peg	p	<u>52144.575</u>	<u>0.003</u>	<u>+0.007</u>	18	RD	CCD; elem. IBVS No. 5044
37450		p	<u>52194.413</u>	<u>0.006</u>	<u>+0.007</u>	18	EBI	CCD
37451	ER Peg	p	<u>52150.544</u>	<u>0.008</u>	<u>+0.151</u>	23	RD	CCD
37452	HI Peg	p	<u>52118.5522</u>	<u>0.0013</u>	<u>+0.1493</u>	14	RD	CCD
37453	Z Per	p	52184.348	0.008	-0.112	5	KL	
37454	RT Per	p	52149.556	0.002	+0.052	7	KL	

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37455	RV Per	p	52194.610	0.006	-0.010	5	KL	
37456	XZ Per	p	52212.634	0.003	-0.046	5	KL	
37457	BY Per	p	52202.531	0.006	+0.014	7	KL	
37458	DK Per	p	<u>52144.5184</u>	<u>0.0006</u>	<u>-0.0247</u>	14	RD	CCD; elem. IBVS No. 3875
37459		p	52170.585	0.004	-0.026	5	KL	
37460	HK Per	p	<u>52193.596</u>	<u>0.009</u>	<u>+0.085</u>	8	RD	CCD
37461	HW Per	p	<u>52193.3520</u>	<u>0.0020</u>	<u>-0.0008</u>	15	EBI	CCD; elem. IBVS No. 4516
37462		p	<u>52196.5301</u>	<u>0.0010</u>	<u>+0.0029</u>	20	RD	CCD
37463	KL Per	p	<u>52144.517</u>	<u>0.002</u>	<u>+0.112</u>	15	RD	CCD
37464	KW Per	p	52212.361	0.003	+0.011	5	KL	
37465	NZ Per	p	<u>52193.388</u>	<u>0.002</u>	<u>+0.025</u>	27	EBI	CCD
37466	PS Per	p	52190.295	0.003	+0.060	6	KL	
37467		p	<u>52204.3365</u>	<u>0.0010</u>	<u>+0.0582</u>	10	EBI	CCD
37468	V432 Per	p	<u>52193.3865</u>	<u>0.0006</u>	<u>+0.0002</u>	26	EBI	CCD; elem. BAV Rb. 43, 104
37469	Y Psc	p	52093.520	0.005	-0.011	8	KL	
37470	SU Psc	p	<u>52150.470</u>	<u>0.005</u>	<u>-0.293</u>	23	RD	CCD
37471	SX Psc	p	52195.483	0.004	+0.004	6	KL	
37472	CP Psc	p	<u>52193.427</u>	<u>0.007</u>	<u>-0.031</u>	14	RD	CCD; elem. Hipparcos catalogue
37473	UZ Sge	p	<u>52116.4619</u>	<u>0.0004</u>	<u>+0.0350</u>	20	RD	CCD
37474	FL Sge	p	<u>52116.4749</u>	<u>0.0015</u>	<u>+0.0790</u>	16	RD	CCD
37475	RW Tau	p	52171.421	0.003	-0.165	7	KL	
37476	AH Tau	p	52193.611	0.004	-0.106	6	KL	
37477	V Tri	p	52171.513	0.004	+0.007	6	KL	
37478	RV Tri	p	52093.517	0.004	-0.023	6	KL	
37479	RW Tri	p	52202.482	0.001	-0.005	6	KL	
37480	XZ UMa	p	52200.513	0.005	-0.062	6	KL	
37481	ZZ UMa	p	52209.550	0.005	-0.002	7	KL	
37482	AB Vul	p	<u>52133.3639</u>	<u>0.0007</u>	<u>+0.0350</u>	10	RD	CCD
37483	AX Vul	p	<u>52116.4609</u>	<u>0.0006</u>	<u>-0.0251</u>	20	RD	CCD
37484		p	52187.336	0.003	-0.019	6	KL	
37485	AY Vul	p	52190.381	0.005	-0.036	7	KL	

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Nr.	Star	Type	O	e.	O-C	n	Obs	Remarks
37486	BO Vul	p	52165.440	0.002	0.000	6	KL	
37487	BP Vul	p	52181.290	0.009	-0.029	6	KL	
37488	NP Vul	p	<u>52194.2762</u>	<u>0.0019</u>	<u>-0.1785</u>	9	RD	CCD

Notes on observations given in table above

TV Cep

This eclipsing binary shows a phase of totality lasting for $d = 0.13^d \pm 0.02^d$ ($= 0.034^p \pm 0.005^p$).

V489 Cep

V489 Cephei is the brighter component of a close double.

R. Diethelm

V411 Lyr

Both minima given in the table are remarkably asymmetric with a faster ascent. This lets us guess that this star is actually a pulsating variable. This same comment can be made vor QW Cygni.

E. Blättler

Errata

Thanks to the attention of M. Wolf, Prague, the following errors in the BBSAG Bulletins have been discovered. The corrected digit is highlighted.

Bulletin No.	Star	Corrected value
109	U Oph	O = 49895.4431
120	V577 Oph	O = 51385.4339

R. Diethelm

Approximate O-C values

We have once more used the photographic plate collection of the Sonneberg Observatory, Germany, to establish approximate current O-C values against the GCVS elements of little studied eclipsing binaries.

AS And:	+0.06 ^d	VV Del:	+0.5 ^d	BO Gem:	+0.2 ^d
EP Lac:	-0.3 ^d (?)	V487 Oph:	-0.16 ^d	CC Per:	-0.2 ^d

These photographic plates also indicate that the GCVS elements for V962 Aql, EX Cep, FS Cep and QZ Cep are probably erroneous. The variables are under investigation by BBSAG observers. We thank the administration of Sonneberg Observatory for the hospitality during our stays there.

R. Diethelm