

BBSAG

BULLETIN

125

July 15th, 2001

158. LIST OF MINIMA OF ECLIPSING BINARIES

The following table lists 154 electronically recorded (CCD; underlined) and 139 visual timings of minima of eclipsing binaries obtained primarily between March and June 2001 by the following observers:

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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 now available in the PDF-format at <http://www.astroinfo.org/bbsag/bulletins.html>.

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Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
36844	0139+445	EP And	s	<u>51811.616</u>	<u>0.003</u>	<u>+0.055</u>	26	APs	CCD
36845	2337+474	EX And	p	52072.555	0.004	-0.018	8	KL	
36846	1953+157	V340 Aql	p	52049.55	0.005	+0.011	8	KL	
36847	1908+010	V407 Aql	p	<u>52086.4995</u>	<u>0.0014</u>	<u>+0.4089</u>	14	RD	CCD
36848	1911+046	V408 Aql	p	<u>52085.478</u>	<u>0.002</u>	<u>+0.775</u>	13	RD	CCD; see note p. 8
36849	1858-075	V803 Aql	s	52072.524	0.003	-0.039	7	KL	
36850	1857+103	V1184 Aql	p	<u>52086.38:</u>	<u>0.01</u>	<u>-0.09</u>	15	RD	CCD
36851	1912+010	V1197 Aql	p	<u>52085.485</u>	<u>0.002</u>	<u>-0.007</u>	11	RD	CCD; see note p. 8
36852	0528+304	T Aur	p	<u>51565.278</u>	<u>0.003</u>	<u>-0.017</u>	35	APs	CCD
36853			p	<u>51565.485</u>	<u>0.005</u>	<u>-0.014</u>	42	APs	CCD
36854	1427+323	SU Boo	p	<u>52032.521</u>	<u>0.003</u>	<u>+0.015</u>	9	RD	CCD
36855	1402+302	TU Boo	p	51984.557	0.005	+0.004	5	KL	elem. A&A 117, 105
36856	1415+127	VW Boo	s	<u>51999.5353</u>	<u>0.0017</u>	<u>-0.0861</u>	18	RD	CCD; assym. min., Delta Sct?
36857	1346+204	XY Boo	p	<u>52049.4798</u>	<u>0.0013</u>	<u>-0.0575</u>	13	RD	CCD; nm, elem. AJ 76, 923
36858			s	<u>52051.522</u>	<u>0.003</u>	<u>-0.053</u>	10	RD	CCD
36859	1345+175	AQ Boo	p	<u>52039.4706</u>	<u>0.0007</u>	<u>-0.0027</u>	11	RD	CCD; elem. IBVS No. 4871
36860	1358+253	BG Boo	s	<u>52001.4972</u>	<u>0.0019</u>	<u>-0.0076</u>	12	RD	CCD
36861			p	<u>52032.504:</u>	<u>0.005</u>	<u>-0.045</u>	5	RD	CCD
36862	1445+229	GSC2016:830	s	<u>51996.5287</u>	<u>0.0008</u>		30	EBI	CCD
36863		Boo	p	<u>52001.4034</u>	<u>0.0006</u>		15	EBI	CCD
36864			s	<u>52001.5836</u>	<u>0.0013</u>		16	EBI	CCD
36865			p	<u>52022.3507</u>	<u>0.0008</u>		14	EBI	CCD
36866			s	<u>52022.5291</u>	<u>0.0003</u>		25	EBI	CCD
36867			s	<u>52033.3584</u>	<u>0.0004</u>		13	EBI	CCD
36868			p	<u>52041.4856</u>	<u>0.0011</u>		25	EBI	CCD
36869	1448+298	GSC2022:79	p	<u>51996.4143</u>	<u>0.0008</u>		16	EBI	CCD
36870		Boo	s	<u>51996.5649</u>	<u>0.0005</u>		22	EBI	CCD
36871			s	<u>52001.3904</u>	<u>0.0006</u>		17	EBI	CCD
36872			p	<u>52001.5417</u>	<u>0.0008</u>		19	EBI	CCD
36873			p	<u>52022.3510</u>	<u>0.0008</u>		14	EBI	CCD
36874			s	<u>52022.5021</u>	<u>0.0004</u>		24	EBI	CCD
36875			s	<u>52033.3595</u>	<u>0.0005</u>		14	EBI	CCD
36876			s	<u>52041.5030</u>	<u>0.0008</u>		34	EBI	CCD
36877	1457+252	GSC2020:736	s	<u>51996.5626</u>	<u>0.0011</u>		19	EBI	CCD
36878		Boo	p	<u>52001.3714</u>	<u>0.0006</u>		14	EBI	CCD
36879			s	<u>52001.5659</u>	<u>0.0010</u>		16	EBI	CCD
36880			s	<u>52022.346</u>	<u>0.003</u>		7	EBI	CCD
36881			p	<u>52022.5294</u>	<u>0.0017</u>		27	EBI	CCD
36882			s	<u>52041.5649</u>	<u>0.0009</u>		20	EBI	CCD

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36883	1457+261	GSC2020:873	s	<u>51996.3952</u>	<u>0.0006</u>		13	EBl	CCD
36884		Boo	p	<u>51996.5841</u>	<u>0.0010</u>		22	EBl	CCD
36885			p	<u>52001.4812</u>	<u>0.0003</u>		24	EBl	CCD
36886			s	<u>52022.3866</u>	<u>0.0006</u>		21	EBl	CCD
36887			p	<u>52022.5747</u>	<u>0.0004</u>		21	EBl	CCD
36888			p	<u>52041.4079</u>	<u>0.0007</u>		9	EBl	CCD
36889			s	<u>52041.5946</u>	<u>0.0010</u>		9	EBl	CCD
36890	0832+770	AK Cam	p	<u>52001.3733</u>	<u>0.0009</u>	<u>+0.0079</u>	17	RD	CCD; elem. BAV Mitt. 69
36891	1137+805	AL Cam	p	<u>52032.3925</u>	<u>0.0009</u>	<u>-0.0242</u>	10	RD	CCD
36892	0849+092	TU Cnc	p	52022.340	0.007	-0.076	7	KL	
36893	0909+270	GQ Cnc	p	<u>51984.494</u>	<u>0.003</u>	<u>+0.123</u>	13	RD	CCD; elem. IBVS No. 4393
36894	1223+362	GSC2530:488	s	<u>51951.4176</u>	<u>0.0016</u>		19	EBl	CCD
36895		CVn	p	<u>51951.5965</u>	<u>0.0022</u>		30	EBl	CCD
36896			s	<u>51955.4379</u>	<u>0.0022</u>		18	EBl	CCD
36897			s	<u>51959.4522</u>	<u>0.0016</u>		22	EBl	CCD
36898			p	<u>51967.328</u>	<u>0.001</u>		11	EBl	CCD
36899			s	<u>51967.5094</u>	<u>0.0009</u>		21	EBl	CCD
36900			p	<u>51984.5213</u>	<u>0.0009</u>		18	EBl	CCD
36901	1241+389	NSV5904 CVn	p	50571.547	0.003	+0.001	8	JVb	elem. IBVS No. 5021
36902			p	50594.415	0.006	-0.013	9	JVb	
36903			s	50599.499	0.003	+0.004	11	JVb	
36904			s	50600.486	0.006	+0.010	6	JVb	
36905			p	50608.484	0.003	0.000	10	JVb	
36906			p	50629.395	0.008	-0.010	4	JVb	
36907			s	50636.442	0.004	+0.008	4	JVb	
36908			s	50637.395	0.008	-0.019	4	JVb	
36909			s	50639.394	0.008	+0.018	5	JVb	
36910			p	50951.410	0.007	+0.018	9	JVb	
36911			s	50957.446	0.003	+0.006	13	JVe	
36912			p	51249.502	0.006	-0.014	8	JVb	
36913			s	51255.558	0.004	-0.006	8	JVb	
36914			p	51258.348	0.003	+0.006	7	JVe	
36915			s	51262.427	0.003	-0.001	10	JVb	
36916			p	51274.362	0.003	+0.002	11	JVe	
36917			s	51278.448	0.003	+0.002	18	JVe	
36918			s	51285.317	0.004	+0.006	11	JVe	
36919			p	51285.448	0.008	-0.026	12	JVb	
36920			p	51288.413	0.003	-0.003	12	JVb	
36921			s	51317.361	0.008	+0.015	9	JVe	
36922			p	51338.421	0.005	-0.009	15	JVe	
36923			p	51340.398	0.003	+0.006	10	JVe	
36924			s	51346.417	0.008	-0.022	15	JVe	
36925			s	51346.439	0.003	0.000	13	JVb	
36926			s	51347.422	0.003	+0.002	13	JVe	
36927			s	51348.400	0.003	-0.001	10	JVe	
36928			s	51555.644	0.003	-0.005	10	JVb	
36929			s	51608.610	0.003	+0.005	11	JVb	
36930			p	51611.390	0.004	+0.006	11	JVe	
36931			s	51656.339	0.005	+0.008	13	JVe	
36932			p	51660.409	0.005	-0.008	6	JVb	
36933			s	51668.431	0.003	+0.005	9	JVe	
36934			s	51670.394	0.003	+0.006	9	JVe	
36935			p	51694.423	0.005	+0.009	9	JVb	
36936			p	51708.483	0.006	+0.013	13	JVb	

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36937	1241+389	NSV5904 CVn	s	<u>51951.5170</u>	<u>0.0007</u>	<u>+0.0050</u>	29	EBl	CCD
36938			p	<u>51951.6798</u>	<u>0.0013</u>	<u>+0.0043</u>	22	EBl	CCD
36939			s	<u>51955.4414</u>	<u>0.0018</u>	<u>+0.0067</u>	19	EBl	CCD
36940			s	<u>51959.3646</u>	<u>0.0015</u>	<u>+0.0072</u>	21	EBl	CCD
36941			p	<u>51967.3713</u>	<u>0.0008</u>	<u>+0.0051</u>	20	EBl	CCD
36942			s	<u>51967.5360</u>	<u>0.0005</u>	<u>+0.0064</u>	21	EBl	CCD
36943			s	<u>51984.5359</u>	<u>0.0014</u>	<u>+0.0080</u>	19	EBl	CCD
36944	0736+031	RS CMi	p	<u>51957.34</u>	<u>0.02</u>	<u>-0.02</u>	20	APs	CCD; el. BBSAG Bull. 112, 11
36945	0720+070	RX CMi	s	<u>51926.582</u>	<u>0.010</u>		36	APs	CCD; displaced secondary
36946	0737+048	TX CMi	p	<u>51925.598</u>	<u>0.005</u>	<u>-0.001</u>	15	APs	CCD; el. BBSAG Bull. 106, 7
36947	0748+037	UZ CMi		<u>51925.421</u>	<u>0.005</u>		44	APs	CCD
36948	0751+037	XZ CMi	p	<u>51879.565</u>	<u>0.007</u>	<u>-0.010</u>	57	APs	CCD
36949	0706+017	AN CMi	p	<u>51956.330</u>	<u>0.007</u>	<u>-0.609</u>	15	APs	CCD
36950	0244+694	RZ Cas	p	51912.499	0.003	+0.037	11	KT	
36951			p	51924.450	0.003	+0.036	10	KT	
36952			p	51930.425	0.002	+0.035	12	KT	
36953			p	51941.183	0.003	+0.035	6	KT	
36954			p	51942.380	0.002	+0.037	13	KT	
36955			p	51973.457	0.002	+0.038	15	KT	
36956			p	51991.385	0.003	+0.037	10	KT	
36957			p	51992.582	0.003	+0.039	9	KT	
36958			p	51997.362	0.002	+0.038	18	KT	
36959	0030+622	ZZ Cas	p	<u>52065.5499</u>	<u>0.0017</u>	<u>+0.0205</u>	29	EBl	CCD
36960	0123+698	AE Cas	p	<u>52041.4595</u>	<u>0.0012</u>	<u>+0.0651</u>	17	EBl	CCD
36961	0130+707	AH Cas	p	52075.512	0.008	-0.213	4	KL	
36962	0209+699	AL Cas	s	<u>52041.490</u>	<u>0.002</u>	<u>-0.011</u>	15	EBl	CCD
36963			s	<u>52065.5218</u>	<u>0.0003</u>	<u>-0.0058</u>	25	EBl	CCD
36964	0118+589	BS Cas	p	<u>52026.3329</u>	<u>0.0015</u>	<u>-0.0070</u>	14	EBl	CCD; elem. BBSAG B. 117, 9
36965	0042+628	CW Cas	s	<u>52026.3385</u>	<u>0.0010</u>	<u>-0.0190</u>	12	EBl	CCD; elem. JAAVSO 21, 34
36966			p	<u>52065.399</u>	<u>0.002</u>	<u>-0.020</u>	11	EBl	CCD
36967			s	<u>52065.5593</u>	<u>0.0005</u>	<u>-0.0185</u>	17	EBl	CCD
36968	2304+538	IR Cas	p	52081.519	0.005	0.000	10	KL	
36969	0048+585	KL Cas	s	<u>52041.437</u>	<u>0.002</u>	<u>-0.021</u>	22	EBl	CCD
36970	0037+499	V523 Cas	s	52065.582	0.006	+0.005	7	KL	elem. MNRAS 371, 111
36971	2157+607	DK Cep	p	52072.402	0.004	+0.037	9	KL	
36972	2109+575	IO Cep	p	52081.553	0.005	-0.005	7	KL	
36973	0220+809	V358 Cep	p	51984.514	0.004	+0.030	6	KL	elem. BBSAG Bull. 96, 10
36974	0236-145	DY Cet	p	<u>51810.615</u>	<u>0.003</u>	<u>+0.001</u>	26	APs	CCD; elem. Hipparcos Cat.

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36975	1230+269	RW Com	p	<u>52039.4476</u>	<u>0.0004</u>	<u>-0.0290</u>	9	RD	CCD
36976	1226+220	DD Com	p	<u>52026.3945</u>	<u>0.0014</u>	<u>+0.0593</u>	11	RD	CCD
36977	1227+212	DG Com	p	<u>52026.396</u>	<u>0.006</u>	<u>-0.039</u>	9	RD	CCD
36978	1248+275	EK Com	p	<u>52001.316</u>	<u>0.003</u>	<u>-0.020</u>	7	RD	CCD; elem. IBVS No. 4167
36979			p	<u>52026.3842</u>	<u>0.0008</u>	<u>-0.0209</u>	13	RD	CCD
36980	1256+182	EQ Com	p	<u>51974.416</u>	<u>0.005</u>	<u>+0.055</u>	8	RD	CCD
36981	1315+303	LL Com	p	<u>51984.550</u>	<u>0.003</u>	<u>+0.072</u>	13	RD	CCD; elem. IBVS No. 4386
36982	1229+266	GSC1991:	s	<u>51951.4541</u>	<u>0.0012</u>		24	EBI	CCD
36983		1390 Com	p	<u>51951.5975</u>	<u>0.0011</u>		23	EBI	CCD
36984			s	<u>51955.4635</u>	<u>0.0006</u>		20	EBI	CCD
36985			s	<u>51959.4727</u>	<u>0.0015</u>		15	EBI	CCD
36986			p	<u>51967.3487</u>	<u>0.0009</u>		14	EBI	CCD
36987			s	<u>51967.4914</u>	<u>0.0006</u>		17	EBI	CCD
36988			p	<u>51984.5312</u>	<u>0.0012</u>		15	EBI	CCD
36989			s	<u>51984.6721</u>	<u>0.0004</u>		11	EBI	CCD
36990	1230+274	GSC1991:	s	<u>51951.4409</u>	<u>0.0016</u>		16	EBI	CCD
36991		1633Com	p	<u>51951.6138</u>	<u>0.0020</u>		16	EBI	CCD
36992			p	<u>51959.3850</u>	<u>0.0020</u>		18	EBI	CCD
36993			s	<u>51967.3285</u>	<u>0.0013</u>		10	EBI	CCD
36994			p	<u>51967.4993</u>	<u>0.0007</u>		18	EBI	CCD
36995			s	<u>51984.5609</u>	<u>0.0005</u>		21	EBI	CCD
36996	1536+296	RT CrB	p	<u>52001.502</u>	<u>0.007</u>	<u>-0.007</u>	12	RD	CCD
36997	2021+430	UW Cyg	p	52075.464	0.004	+0.032	8	KL	
36998	2104+455	VV Cyg	p	<u>52090.4748</u>	<u>0.0012</u>	<u>+0.0014</u>	15	RD	CCD
36999	2002+414	WW Cyg	p	52056.463	0.003	+0.030	9	KL	
37000	2051+386	WZ Cyg	p	52045.519	0.004	+0.052	8	KL	
37001	1939+464	BR Cyg	p	52029.413	0.003	+0.003	6	KL	
37002	2156+467	GV Cyg	p	<u>52085.4726</u>	<u>0.0004</u>	<u>-0.2956</u>	14	RD	CCD
37003	1941+326	V370 Cyg	p	52074.507	0.006	-0.007	5	KL	
37004	2012+345	V469 Cyg	p	<u>52090.4745</u>	<u>0.0011</u>	<u>-0.0803</u>	15	RD	CCD
37005	2108+457	V526 Cyg	p	<u>52090.4613</u>	<u>0.0004</u>	<u>+0.6069</u>	16	RD	CCD
37006	2040+531	V749 Cyg	p	52072.405	0.003	-0.016	8	KL	
37007	1945+361	V809 Cyg	p	<u>52085.4737</u>	<u>0.0007</u>	<u>+0.0313</u>	15	RD	CCD
37008	1942+327	V961 Cyg	p	<u>52084.4450</u>	<u>0.0005</u>	<u>+0.0014</u>	13	RD	CCD; elem IBVS No. 4278
37009	2010+344	V1823 Cyg	p	52049.531	0.006	0.000	6	KL	elem. IBVS No. 4997
37010	1933+479	LD355 Cyg	p	52041.494	0.006	+0.006	6	KL	elem. IBVS No. 5018

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37011	1920+479	GSC3547:216 Cyg	s	52080.538	0.009	+0.022	6	KL	elem. IBVS No. 4996
37012	1841+626	RR Dra	p	52000.614	0.003	+0.064	6	KL	
37013	1822+588	RZ Dra	p	<u>52042.4161</u>	<u>0.0003</u>	<u>+0.0354</u>	17	RD	CCD
37014	1850+477	WX Dra	p	<u>52000.5090</u>	<u>0.0015</u>	<u>+0.0148</u>	13	RD	CCD
37015	1214+651	AR Dra	p	51999.481	0.003	+0.005	6	KL	
37016			p	<u>52001.5094</u>	<u>0.0016</u>	<u>+0.0058</u>	13	RD	CCD
37017	1238+665	AX Dra	p	<u>52000.3708</u>	<u>0.0006</u>	<u>-0.0534</u>	18	RD	CCD
37018	1826+689	BE Dra	p	51708.502	0.009	+0.113	15	JVb	
37019	1731+572	CV Dra	s	<u>51999.497</u>	<u>0.002</u>	<u>-0.001</u>	10	RD	CCD; elem. BAV Mitt. 69
37020	1922+698	DW Dra	p	52074.473	0.007	+0.008	5	KL	elem. BBSAG Bull. 118, 7
37021	1806+697	EF Dra	p	<u>52041.504</u>	<u>0.002</u>	<u>-0.078</u>	16	RD	CCD; elem. AAc 41, 291
37022	1533+624	FU Dra	p	<u>52039.4675</u>	<u>0.0014</u>	<u>-0.0145</u>	10	RD	CCD; elem. Hipparcos Cat.
37023	1535+534	IV Dra	p	<u>52049.385</u>	<u>0.002</u>	<u>-0.048</u>	10	RD	CCD; elem. IBVS No. 4610
37024	1906+593	KK Dra	p	52040.508	0.002	+0.002	11	KL	elem. JAAVSO 28, 81
37025	0601+253	LO Gem	p	48226.705	0.010	-0.037	8	JVb	elem. IBVS No. 5020
37026			p	48271.452	0.012	-0.045	15	JVb	
37027			p	48345.337	0.005	-0.007	11	JVb	
37028			p	48600.462	0.006	+0.010	10	JVb	
37029			p	48958.498	0.002	+0.002	20	JVb	
37030			s	49004.364	0.004	-0.007	18	JVb	
37031			p	49390.374	0.003	-0.015	12	RB	
37032			p	49636.516	0.009	-0.028	13	JVb	
37033			p	49701.448	0.006	+0.008	16	JVb	
37034			s	49776.421	0.004	+0.015	15	AMa	
37035			p	50050.526	0.006	-0.008	15	JVb	
37036			s	50510.405	0.004	+0.006	20	AMa	
37037			s	50519.347	0.004	-0.003	17	JVb	
37038			p	50538.375	0.005	+0.004	9	JVb	
37039			p	50849.416	0.003	-0.007	16	JVb	
37040			s	51555.452	0.008	+0.009	16	JVb	
37041	1737+329	SZ Her	p	51986.608	0.005	-0.027	8	KL	
37042	1711+307	TU Her	p	51984.526	0.003	-0.103	7	KL	
37043	1615+090	CC Her	p	52040.592	0.003	+0.119	7	KL	
37044	1754+329	ES Her	p	<u>52082.4770</u>	<u>0.0019</u>	<u>-0.0192</u>	11	RD	CCD
37045	1843+252	IT Her	p	<u>52000.507</u>	<u>0.005</u>	<u>+0.073</u>	8	RD	CCD; elem. IBVS No. 4663
37046	1853+121	LP Her	p	<u>52086.4532</u>	<u>0.0019</u>	<u>+0.1964</u>	16	RD	CCD
37047	1819+144	MT Her	p	52056.453	0.004	+0.014	6	KL	
37048	1749+500	MX Her	p	<u>52053.391</u>	<u>0.003</u>	<u>-0.435</u>	11	RD	CCD

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37049	1704+277	V366 Her	p	<u>52051.4994</u>	<u>0.0007</u>	<u>-0.1000</u>	17	RD	CCD
37050	1831+233	V643 Her	p	<u>52051.4793</u>	<u>0.0017</u>	<u>-0.2850</u>	16	RD	CCD
37051	1706+465	V718 Her	p	<u>52026.421</u>	<u>0.004</u>	<u>+0.114</u>	21	RD	CCD; min. asymm., Delta sct?
37052	1716+418	V728 Her	s	<u>52065.444</u>	<u>0.003</u>	<u>+0.042</u>	10	RD	CCD; elem. IBVS No. 3234
37053	1719+479	V733 Her	p	<u>52000.609</u>	<u>0.003</u>		7	RD	CCD; GCVS period erron.
37054			s	<u>52053.4196</u>	<u>0.0015</u>		15	RD	CCD
37055	1736+441	V742 Her	s	<u>52053.435</u>	<u>0.003</u>	<u>+0.030</u>	9	RD	CCD
37056	1653+352	V829 Her	p	<u>52041.547</u>	<u>0.002</u>	<u>+0.065</u>	14	RD	CCD; elem. IBVS No. 3346
37057	1631+345	V848 Her	p	<u>52053.440</u>	<u>0.004</u>		11	RD	CCD
37058	1645+387	V857 Her	s	<u>52053.456</u>	<u>0.004</u>	<u>-0.009</u>	13	RD	CCD; elem IBVS No. 4364
37059	1631+503	V1005 Her	s	<u>52053.4336</u>	<u>0.0004</u>	<u>+0.0064</u>	9	RD	CCD; elem. IBVS No. 4611
37060	1631+284	GSC2056:117	s	51984.618	0.004		8	KL	
37061		Her	s	52022.448	0.006		6	KL	
37062			p	52022.575	0.005		5	KL	
37063			p	52023.625	0.005		5	KL	
37064			p	52041.490	0.004		6	KL	
37065			p	52048.584	0.002		6	KL	
37066			p	52049.373	0.004		6	KL	
37067			s	52049.498	0.006		6	KL	
37068			s	52059.477	0.003		6	KL	
37069			p	52072.481	0.007		7	KL	
37070			s	52074.459	0.005		5	KL	
37071			s	52075.509	0.005		6	KL	
37072			s	52080.449	0.003		6	KL	
37073	0852+062	FG Hya	s	<u>52000.3797</u>	<u>0.0005</u>	<u>-0.0228</u>	12	RD	CCD; elem. IBVS No. 2811
37074	2226+535	DG Lac	p	52055.547	0.003	-0.186	8	KL	
37075	0933+264	Y Leo	p	52000.461	0.002	+0.015	10	KL	
37076	0950+162	AG Leo	p	<u>52000.46</u>	<u>0.02</u>	<u>+0.08</u>	19	RD	CCD
37077	1142+250	BL Leo	p	52049.423	0.004	-0.011	6	KL	
37078	1141+236	CE Leo	p	51608.471	0.003	-0.007	11	JVb	
37079	1914+323	RV Lyr	p	<u>52051.40</u>	<u>0.01</u>	<u>-0.11</u>	25	RD	CCD; see note p. 8
37080	1919+378	UZ Lyr	p	52081.505	0.006	-0.013	6	KL	
37081	1911+271	AH Lyr	p	<u>52082.465</u>	<u>0.004</u>	<u>-0.119</u>	11	RD	CCD
37082	1920+347	ET Lyr	p	<u>52065.413</u>	<u>0.005</u>	<u>-0.097</u>	15	RD	CCD
37083	1835+261	EX Lyr	s	<u>52086.5101</u>	<u>0.0015</u>		11	RD	CCD
37084	1813+382	HT Lyr	p	<u>52082.429</u>	<u>0.003</u>	<u>-0.024</u>	9	RD	CCD

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37085	1826+389	IW Lyr	p	<u>52084.4962</u>	<u>0.0015</u>	<u>+0.2914</u>	14	RD	CCD
37086	1852+268	MZ Lyr	p	<u>52082.472</u>	<u>0.003</u>	<u>-0.007</u>	10	RD	CCD
37087	1904+292	V412 Lyr	p	<u>52084.4624</u>	<u>0.0012</u>	<u>+0.1380</u>	18	RD	CCD
37088	1829+268	V477 Lyr	p	<u>52082.456</u>	<u>0.003</u>	<u>-0.006</u>	11	RD	CCD; elem. IBVS No. 4962
37089	1904+456	V512 Lyr	p	<u>52085.434</u>	<u>0.003</u>	<u>-0.047</u>	10	RD	CCD; elem. MVS 12, 156
37090	1854+409	GSC3123:1618s		52049.487	0.008	+0.004	6	KL	elem. IBVS No. 4985
37091	1724+130	Lyr AL Oph	p	<u>52082.467</u>	<u>0.003</u>	<u>-0.013</u>	8	RD	CCD; elem. IBVS No. 4452
37092	1728+106	V449 Oph	p	52041.566	0.003	+0.056	6	KL	
37093			p	<u>52051.5065</u>	<u>0.0004</u>	<u>+0.0520</u>	15	RD	CCD
37094	1756+135	V508 Oph	p	52052.521	0.003	+0.005	6	KL	
37095	1825+091	V590 Oph	p	<u>52086.469</u>	<u>0.003</u>	<u>-0.136</u>	19	RD	CCD
37096	1746+114	V981 Oph	p	<u>52051.4433</u>	<u>0.0007</u>	<u>-0.0225</u>	18	RD	CCD
37097	0508-086	ER Ori	s	<u>51926.250</u>	<u>0.003</u>	<u>+0.027</u>	18	APs	CCD
37098	0033+212	NSV223 Psc	p	50749.266	0.007	+0.004	6	JVe	elem. IBVS No. 4910
37099			p	50753.284	0.006	-0.005	8	JVe	
37100			s	51076.413	0.006	+0.015	9	JVe	
37101			p	51125.289	0.006	+0.013	18	JVe	
37102			p	51129.314	0.004	+0.011	17	JVe	
37103			s	51135.325	0.007	-0.020	19	JVe	
37104			p	51140.293	0.009	+0.006	19	JVe	
37105			p	51155.298	0.004	+0.000	18	JVe	
37106			p	51162.246	0.003	-0.008	11	JVe	
37107			p	51166.287	0.005	+0.004	13	JVe	
37108			p	51170.319	0.007	+0.009	20	JVe	
37109			p	51377.533	0.007	-0.005	8	JVb	
37110			s	51464.479	0.008	-0.015	5	JVb	
37111			p	51469.438	0.003	+0.002	11	JVb	
37112			p	51495.439	0.006	+0.007	10	JVb	
37113	1756-173	WX Sgr	p	52059.563	0.006	-0.096	10	KL	
37114	1556+173	AO Ser	p	52040.507	0.003	+0.012	7	KL	
37115	1536+024	AS Ser		<u>52001.506</u>	<u>0.006</u>	<u>-0.022</u>	10	RD	CCD
37116	1554+224	AU Ser	p	51986.694	0.006	-0.064	4	KL	
37117	1535+190	LX Ser	p	52072.534	0.002	+0.002	5	KL	
37118	1000+013	Y Sex	p	<u>52001.3695</u>	<u>0.0014</u>	<u>-0.1984</u>	16	RD	CCD
37119	1334+521	UX UMa	p	51984.528	0.001	-0.001	5	KL	
37120	0906+546	XY UMa	p	<u>51999.5313</u>	<u>0.0016</u>	<u>+0.0179</u>	9	RD	CCD
37121	0943+459	AA UMa	p	<u>52032.400</u>	<u>0.002</u>	<u>+0.015</u>	14	RD	CCD

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37122	0851+651	AC UMa	p	<u>51974.477</u>	<u>0.005</u>	<u>-0.092</u>	13	RD	CCD
37123			p	<u>52022.443</u>	<u>0.008</u>	<u>-0.110</u>	5	KL	
37124	1123+428	BS UMa	p	<u>51974.519</u>	<u>0.005</u>	<u>+0.069</u>	7	RD	CCD
37125	0954+692	ES UMa	p	<u>52042.388</u>	<u>0.002</u>	<u>-0.032</u>	10	RD	CCD; elem. IBVS No. 3914
37126	1145+355	KM UMa	p	<u>52042.4364</u>	<u>0.0009</u>	<u>-0.0001</u>	14	RD	CCD; elem. GEOS C. No. 872
37127	1337+700	RU UMi	p	<u>52000.366</u>	<u>0.003</u>	<u>-0.007</u>	13	RD	CCD
37128	1402-099	VV Vir	p	<u>52023.616</u>	<u>0.006</u>	<u>-0.021</u>	4	KL	
37129	1325+033	AW Vir	s	<u>52001.5306</u>	<u>0.0004</u>	<u>+0.0127</u>	17	RD	CCD
37130	1216+096	DY Vir	p	<u>52049.4226</u>	<u>0.0005</u>	<u>-0.1109</u>	12	RD	CCD
37131	1241-084	HW Vir	p	<u>51996.409</u>	<u>0.001</u>	<u>-0.004</u>	6	KL	elem. IBVS No. 4109
37132	2030+246	AX Vul	p	<u>52041.541</u>	<u>0.004</u>	<u>-0.026</u>	7	KL	
37133	2023+272	BE Vul	p	<u>52001.626</u>	<u>0.004</u>	<u>+0.036</u>	7	KL	
37134	1954+237	BO Vul	p	<u>52056.471</u>	<u>0.003</u>	<u>-0.001</u>	6	KL	
37135	2023+208	BP Vul	p	<u>52045.482</u>	<u>0.008</u>	<u>-0.013</u>	8	KL	
37136	1948+220	EU Vul	p	<u>52085.4748</u>	<u>0.0013</u>	<u>+0.0279</u>	15	RD	CCD

Notes on observations given in table above

V408 Aql

In the GCVS, no information on the duration of totality is given. Our CCD data yield $d = 0.074^d \pm 0.005^d$ ($0.026^p \pm 0.002^p$).

V1197 Aql

The variable is GSC463:1153 (12.8 mag) about 3' north of the GCVS position. The GSC coordinates are: $19^h 14^m 47.3^s +01^\circ 11' 12''$ (J2000.0).

RV Lyr

According to the GCVS, the duration of totality of RV Lyr amounts to 0.054^d (0.015^p). We observed the primary minimum on JD2452051 with our CCD equipment and find the constant phase of minimum to last at least 0.11^d (0.03^p).

R. Diethelm

GX Geminorum

The variability of GX Geminorum was discovered by Hoffmeister (S4737 Geminorum = HIP32427). From Sonneberg and Babelsberg Sky Survey plates S. Marx (MVS No. 197, 1955) determined the type of variability (EB) and the elements of variation stated in the GCVS ($P=1.35003708^d$). D.M. Popper (ApJ Suppl. 106(1996), 133) reported spectroscopic data and commented: „Moreover, the lines appear sharp for such a short period.“ - giving indication of substantial doubt concerning the period value. C.H. Lacy (AJ 104 (1992), 801) gives three isolated UBV measurements of GX Gem.

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Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
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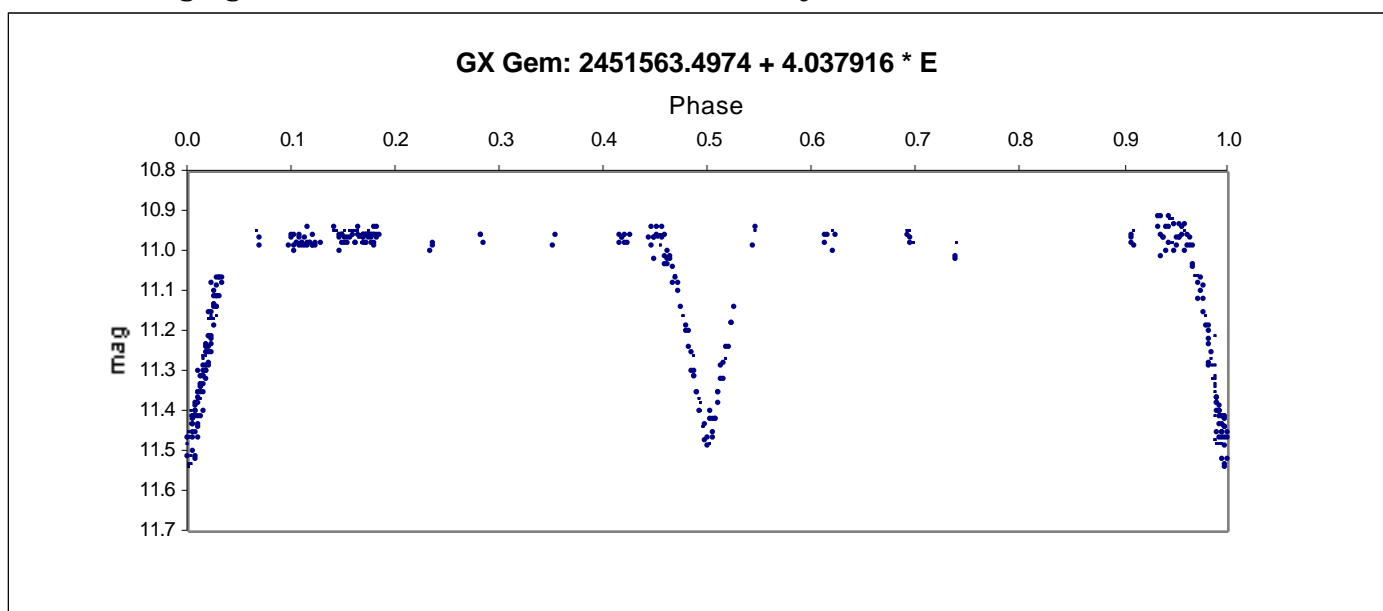
Soon after starting a CCD survey of the star, it became obvious to us that the elements of variation given in the GCVS are spurious. Observations in 31 nights from 1998 to 2001 let us to suspect the true value of the period to be 4.038^d. P.G. checked the AC and Damon photographic plate series at Harvard College for historical fadings, finding the following dates:

2414971.730		2419356.908		2427418.758
2415787.646		2419709.930		2428096.878
2415795.553		2420166.583		2428104.885
2415811.622		2420507.691		2428181.658
2415819.636		2421642.503		2429245.697
2416223.545		2423713.828		2429988.709
2416869.637		2423743.725		2430327.769
2417293.530		2423794.708		2446057.687
2417618.598		2425966.737		2446144.544
2417646.568		2427089.653		2446467.586
2418349.542		2427097.621		

A least square linear fit to these times and the CCD timings published in the BBSAG Bulletin - given appropriate weight - yield the elements:

$$\text{Min (JD, hel)} = 2451563.4974 + 4.037916 * E.$$

The following figure shows the CCD measurements by E. B. folded with these elements.



E. Blättler,
R. Diethelm
P. Guilbault

P.S. We have been informed that W. Moschner and collaborators have also studied GX Gem. Their results will be published shortly in Astronomy and Astrophysics. Their conclusions are in good agreement with ours ($P = 4.0379330^d$). P.G. wishes to acknowledge the support by A. Doane, acting curator of the Astronomical Photograph Collection at HCO.