

BBSAG

BULLETIN

110

1995 November 15

143. LIST OF MINIMA OF ECLIPSING BINARIES

The following table lists 26 electronically recorded (pe and CCD; underlined) and 329 visual timings of minima of eclipsing binaries obtained primarily between July and October of 1995 by the following observers:

FAC	Francesco Acerbi, Codogno, Italy
MBi	Michele Bigi, Massa, Italy
EBI	Ernst Blättler, Wald, Switzerland
JBo	Jiri Borovicka, Praha, Czech Republic
DDa	Davide Dalmazio, Formia, Italy
AD	Antonin Dedoch, Praha, Czech Republic
RD	Roger Diethelm, R. Szafraniec Observatory, Metzerlen, Switzerland
TGf	Tanya Graf, Henggart, Switzerland
PHe	Philipp Heck, Geneva, Switzerland
MKo	Michael Kohl, Laupen, Switzerland
KL	Kurt Locher, Gröyt, Switzerland
MMa	Massimiliano Martignoni, Busto Arsizio, Italy
HP	Hermann Peter, Otelfingen, Switzerland
APs	Anton Paschke, Rýti, Switzerland
JVb	Jacqueline Vandenbroere, Bruxelles, Belgium

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MWo Marek Wolf, Praha, Czech Republic

The O-C values 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.

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Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32422	2311+458	TT And	p	49990.406	0.005	-0.021	7	HP	
32423	0041+306	UU And	p	49924.574	0.005	+0.024	6	KL	
32424			p	49933.477	0.006	+0.010	11	HP	
32425			p	50006.307	0.005	+0.011	10	HP	
32426	0042+284	WX And	p	49987.362	0.005	-0.004	5	KL	
32427			p	49990.398	0.007	+0.031	6	HP	
32428	0058+378	WZ And	p	50006.283	0.004	+0.009	8	HP	
32429	0153+418	XZ And	p	49940.609	0.003	+0.047	7	KL	
32430	2309+366	AB And	p	49984.315	0.003	-0.016	8	MKo	
32431			p	49984.321	0.004	-0.009	8	RD	
32432			p	49984.323	0.002	-0.007	8	TGf	
32433			p	49984.327	0.003	-0.003	8	PHe	
32434	2334+483	AD And	p	49928.479	0.005	-0.036	12	HP	
32435			p	49933.422	0.005	-0.024	8	HP	
32436			s	49970.395	0.005	-0.033	11	HP	
32437	2308+516	BL And	p	49929.440	0.004	-0.007	6	HP	
32438			p	50010.350	0.005	-0.003	6	HP	
32439			p	50015.4104	0.0019	+0.0004	25	MW _o CCD	
32440	2337+474	EX And	p	49945.404	0.008	-0.009	6	KL	
32441	0209+444	GZ And	p	49945.608	0.004	+0.012	8	KL	
32442	2324+452	LO And	s	50006.296	0.005	+0.064	6	HP	elem. GEOS No. 11
32443	0930-284	S Ant	p	49783.460	0.004	+0.010	25	MMa	
32444			s	49797.419	0.005	+0.031	18	MMa	
32445	2117-110	RY Aqr	p	<u>50014.299:</u>	<u>0.002</u>	<u>-0.008</u>	16	EBI	pe, no filter
32446	2233-009	CX Aqr	p	50001.273	0.003	+0.003	5	KL	
32447			p	50006.277	0.005	+0.003	6	HP	
32448	2319-162	CZ Aqr	p	49984.464	0.004	-0.014	7	KL	
32449	1936+084	LT Aql	p	49976.406	0.005	+0.012	5	KL	
32450	1914+092	V342 Aql	p	49935.386	0.005	-0.047	9	HP	
32451			p	49952.350	0.005	-0.037	8	HP	
32452	1936+126	V343 Aql	p	50001.291	0.006	-0.001	7	HP	
32453	2007+102	V346 Aql	p	49907.437	0.004	+0.006	7	HP	
32454	1931+004	V416 Aql	p	49945.378	0.009	-0.026	6	KL	
32455	1948+163	V602 Aql	p	49929.434	0.005	+0.178	12	HP	
32456			p	49935.434	0.005	+0.153	10	HP	

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32457	1935+106	V640 Aql	p	<u>49933.371</u>	0.003	-0.159	17	RD	CCD
32458	1903-117	V805 Aql	p	<u>49999.3127</u>	0.0002	+0.0038	20	EBI	pe, B
32459	1944+033	V829 Aql	p	49933.493	0.006	-0.021	8	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32460	1956+116	V1168 Aql	p	49934.411	0.006	-0.013	10	HP	
32461			p	49948.414	0.006	-0.009	8	HP	
32462			p	49990.405	0.005	-0.012	7	HP	
32463			p	50013.312	0.005	-0.012	10	HP	
32464	1922+159	V1353 Aql	p	49905.481	0.004	+0.018	9	HP	
32465	1931+158	V1355 Aql	p	<u>49935.3886</u>	0.0015	-0.1483	10	RD	CCD
32466	0511+463	IM Aur	p	49750.453	0.003	-0.073	21	MMa	
32467	1402+302	TU Boo	s	49917.421	0.004	-0.060	6	HP	
32468	1458+353	TY Boo	p	49928.427	0.005	-0.011	9	HP	elem. BAV Mitt. 68. 21
32469			p	49935.412	0.006	-0.003	6	HP	
32470	0630+823	SV Cam	p	49768.424	0.001	+0.035	20	MMa	
32471	0524+694	AS Cam	s	<u>50008.3056</u>	0.0011	-0.2089	32	EBI	pe, B; displ. secondary
32472	0717-163	R CMa	p	<u>50015.6841</u>	0.0025	+0.0471	32	EBI	pe, B
32473	0734+056	TT CMi	p	<u>49685.492</u>	0.008	-0.102	12	APs	CCD
32474	0737+048	TX CMi	p	<u>49698.501</u>	0.003	+0.003	14	APs	CCD; elem. BBSAG B. 106, 7
32475	0727+107	AC CMi	s	<u>49677.590</u>	0.005	+0.015	24	APs	CCD, elem. PASP 98. 960
32476	0737+040	AK CMi	p	49750.409	0.013	+0.007	20	MMa	
32477			p	49776.419	0.004	-0.014	13	MMa	
32478	0727+046	BF CMi	p	<u>49704.530</u>	0.006	-0.100	43	APs	CCD
32479	0244+694	RZ Cas	p	49751.473	0.003	+0.018	20	MMa	
32480	0016+584	TV Cas	p	49777.398	0.006	-0.016	20	MMa	
32481			p	49797.357	0.005	+0.004	18	MMa	
32482	0232+710	AB Cas	p	49990.378	0.005	+0.046	8	HP	
32483			p	50001.309	0.005	+0.041	6	HP	
32484	0123+698	AE Cas	p	49948.580	0.009	+0.077	6	KL	
32485	0130+707	AH Cas	p	49990.356	0.003	-0.201	5	KL	
32486	0028+714	CV Cas	p	50008.374	0.007	+0.441	8	KL	
32487	0042+628	CW Cas		50011.298	0.004		7	HP	
32488	2350+572	EP Cas	p	49935.410	0.004	-0.022	6	HP	

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32489			p	49948.420	0.005	-0.027	8	HP
32490			p	49970.382	0.006	-0.028	11	HP
32491			p	50001.297	0.005	-0.023	7	HP
32492	2304+538	IR Cas	p	49907.437	0.004	+0.028	6	HP
32493			p	49924.452	0.005	+0.025	8	HP
32494			p	49952.360	0.005	+0.025	6	HP
32495			p	49967.329	0.005	+0.019	7	HP
32496			p	49983.665	0.004	+0.021	6	KL
32497	2326+602	IS Cas	p	49933.436	0.005	+0.037	10	HP

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32498	0048+585	KL Cas	p	49935.431	0.005	-0.017	8	HP	
32499			p	50006.409	0.006	-0.014	6	KL	
32500			p	50011.347	0.004	+0.029	10	HP	
32501	0045+605	OR Cas	p	49924.459	0.004	-0.009	6	HP	
32502			p	49934.423	0.004	-0.011	8	HP	
32503	0105+612	OX Cas	p	<u>49987.318</u>	<u>0.004</u>	<u>+0.004</u>	20	RD	CCD
32504	0049+501	V364 Cas	p	49924.436	0.005	-0.021	8	HP	
32505			s	49999.303	0.005	+0.008	6	HP	
32506	2354+558	V374 Cas	p	49918.389	0.005	+0.003	7	HP	
32507			p	50010.354	0.006	+0.024	5	HP	
32508	2354+627	V375 Cas	p	50002.322	0.005	+0.036	10	HP	
32509	0111+487	V389 Cas	p	50017.364	0.005	+0.053	9	HP	
32510	0037+499	V523 Cas	s	49918.418	0.005	+0.030	6	HP	
32511			p	49967.374	0.005	+0.028	7	HP	
32512			s	50006.284	0.004	+0.028	7	HP	
32513	0230+631	V541 Cas	p	49947.458	0.005	+0.023	9	HP	elem. Chin. AA 11, 237
32514	0057+816	U Cep	p	49976.520	0.006	+0.074	7	KL	
32515	2145+570	SU Cep	p	49967.412	0.004	-0.001	10	HP	
32516			p	49995.364	0.005	+0.007	7	HP	
32517			p	50014.304	0.004	+0.018	8	HP	
32518	2038+754	VW Cep	s	49750.450	0.007	-0.006	15	MMa	elem. IBVS No. 3965
32519			p	49751.431	0.003	+0.001	19	MMa	
32520			p	49765.346	0.006	+0.001	13	MMa	
32521			p	49768.420	0.005	+0.014	20	MMa	
32522			s	49776.334	0.002	-0.004	15	MMa	
32523			s	49777.440	0.002	-0.011	13	MMa	
32524			p	49783.433	0.006	-0.002	20	MMa	
32525			s	49858.456	0.010	+0.018	7	FAc	
32526			s	49958.353	0.015	+0.004	11	FAc	
32527			p	49958.482	0.011	-0.006	8	FAc	
32528			p	49963.480	0.011	-0.017	6	FAc	
32529	2244+674	WY Cep	p	50014.290	0.005	+0.022	7	HP	

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32530	2225+659	BR Cep	p	49999.656	0.006	-0.036	6	KL	
32531	2050+626	DW Cep	p	49939.451	0.008	-0.026	12	JVb	elem. MVS 12, 4
32532	2017+766	EG Cep	p	49905.399	0.004	+0.013	6	HP	
32533	2140+694	EK Cep	p	<u>49970.3722</u>	<u>0.0001</u>	<u>+0.0060</u>	38	EBI	pe, B
32534	2127+649	GI Cep	p	49928.393	0.006	-0.009	9	HP	
32535			p	49929.425	0.004	-0.015	8	HP	
32536	2249+567	GS Cep	p	49929.450	0.006	+0.008	8	HP	elem. IBVS No. 3596
32537			p	50013.324	0.005	-0.001	9	HP	
32538	2109+575	IO Cep	p	49984.389	0.005	-0.004	5	KL	
32539	0220+809	V358 Cep	p	49976.412	0.004	+0.033	6	KL	elem. BBSAG Bull. 96, 10
Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32540	0147-198	VY Cet	s	49999.492	0.007	+0.004	8	KL	
32541	0156-231	AACet	p	49983.584	0.005	-0.012	5	KL	
32542	1604+274	TW CrB	p	49918.466	0.005	+0.017	8	HP	
32543	2005+461	SW Cyg	p	49948.399	0.005	-0.146	10	HP	
32544	2021+430	UW Cyg	p	50008.442	0.005	+0.027	6	KL	
32545	2104+455	VV Cyg	p	50006.350	0.008	-0.010	7	KL	
32546	2002+414	WW Cyg	p	49999.428	0.002	+0.012	8	KL	
32547	2051+386	WZ Cyg	p	49917.472	0.004	+0.045	6	HP	
32548			p	49934.422	0.004	+0.046	8	HP	
32549			p	49934.432	0.002	+0.056	9	MKo	
32550			p	49993.458	0.004	+0.051	9	HP	
32551			p	50006.309	0.004	+0.045	5	KL	
32552	2022+467	ZZ Cyg	p	49993.438	0.005	-0.020	9	HP	
32553			p	50017.325	0.006	-0.020	6	HP	
32554	2056+349	CG Cyg	p	49920.400	0.004	+0.035	8	HP	
32555			p	49999.302	0.005	+0.044	6	HP	
32556	2156+523	DO Cyg	p	49935.475	0.005	+0.009	7	HP	
32557			p	49947.443	0.005	+0.007	11	HP	
32558	1941+326	V370 Cyg	p	49934.440	0.005	-0.010	9	HP	
32559	2113+372	V387 Cyg	p	49928.455	0.005	+0.005	7	HP	
32560			p	50014.295	0.005	+0.005	8	HP	
32561	2026+381	V445 Cyg	p	49917.452	0.007	+0.184	13	HP	
32562			p	49993.416	0.005	+0.186	9	HP	
32563	2027+389	V456 Cyg	p	49947.509	0.005	+0.029	5	HP	

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32564			p	50006.320	0.004	+0.021	8	HP	
32565			p	50014.353	0.004	+0.033	8	HP	
32566	1952+328	V466 Cyg	p	50008.307	0.006	+0.008	7	HP	
32567	2012+345	V469 Cyg	p	<u>49931.4007</u>	<u>0.024</u>	<u>-0.0653</u>	17	RD	CCD
32568	2021+390	V498 Cyg	s	<u>49932.537</u>	<u>0.010</u>	<u>+0.143</u>	41	RD	CCD; norm. min.; displ. sec.
32569	1940+312	V541 Cyg	s	<u>49935.3974</u>	<u>0.0012</u>	<u>-0.6264</u>	11	RD	CCD; displ. secondary
32570	2025+586	V728 Cyg	p	50008.282	0.006	-0.004	5	KL	
32571			p	50008.288	0.005	+0.003	7	HP	
32572	2014+478	V787 Cyg	p	50008.337	0.005	+0.006	8	HP	
32573	1923+471	V850 Cyg	p	49543.568	0.014	+0.465	15	JVb	
32574			s	49842.520	0.003	+0.457	8	JVb	
32575	1941+302	V959 Cyg	p	49279.355	0.002	-0.036	8	JVb	
32576			p	49658.347	0.004	-0.047	8	JVb	
32577	2003+308	V1034 Cyg	p	49928.400	0.006	0.000	8	HP	
32578			p	50013.393	0.006	-0.001	7	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32579	2021+523	V1048 Cyg	p	49999.327	0.002	+0.011	10	KL	
32580	1924+523	V1918 Cyg	p	49877.439	0.002	-0.037	7	JVb	elem. IBVS No. 3090
32581			p	49896.449	0.009	-0.033	12	JVb	
32582			s	49897.478	0.004	-0.037	12	JVb	
32583	2035+181	W Del	p	49898.477	0.003	-0.012	9	JVb	
32584			p	49922.518	0.003	0.000	13	JVb	
32585			p	49999.398	0.009	-0.018	13	KL	
32586	2033+082	TT Del	p	49978.329	0.007	-0.050	5	KL	
32587			p	50001.299	0.006	-0.049	7	HP	
32588	2101+130	TY Del	p	49945.454	0.006	+0.050	11	HP	
32589			p	50013.344	0.005	+0.046	9	HP	
32590	2027+138	YY Del	p	49928.424	0.006	+0.011	7	HP	
32591			p	49947.450	0.004	+0.003	7	HP	
32592			p	50013.284	0.006	+0.010	6	HP	
32593	2051+044	FZ Del	p	49933.434	0.004	-0.027	7	HP	
32594			p	50002.347	0.004	-0.036	6	KL	
32595			p	50013.317	0.005	-0.031	8	HP	
32596	1142+725	Z Dra	p	49920.420	0.006	-0.083	7	HP	
32597			p	49947.564	0.002	-0.088	6	KL	
32598	1841+626	RR Dra	p	49905.434	0.006	+0.063	11	HP	
32599			p	49990.369	0.003	+0.058	7	KL	
32600			p	49990.375	0.006	+0.064	10	HP	
32601	1822+588	RZ Dra	p	49920.442	0.005	+0.028	9	HP	

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32602			p	49947.435	0.004	+0.027	8	HP	
32603			p	49995.373	0.005	+0.039	7	HP	
32604	1533+640	TW Dra	p	49918.416	0.004	+0.017	10	HP	
32605	1820+475	TZ Dra	p	49929.403	0.004	+0.002	6	HP	
32606			p	50014.281	0.005	+0.009	7	HP	
32607	1922+698	DW Dra	p	49983.515	0.005	+0.007	6	KL	elem. BBSAG Bull. 84, 6
32608	2115+096	RZ Equ	p	48156.36	0.02	-0.015	6	JBo	elem. see this Bull., p. 9
32609			p	48562.28	0.02	-0.01	7	JBo	
32610			p	49207.448	0.003	+0.008	15	JBo	CCD
32611			p	49907.518	0.008	+0.022	37	APs	CCD
32612	0419-061	TZ Eri	p	50008.467	0.003	+0.130	8	KL	
32613	0409-105	YY Eri	s	49768.368	0.008	+0.056	14	MMa	
32614			s	49777.363	0.002	+0.049	9	MMa	
32615	0409-119	BL Eri	p	49698.392	0.003	+0.010	23	APs	CCD; elem. IBVS No. 4104
32616	0558+231	RW Gem	p	49983.595	0.004	+0.003	11	KL	
32617	1737+329	SZ Her	p	49918.468	0.004	-0.015	8	HP	
32618			p	49945.470	0.005	-0.010	7	HP	
32619			p	49995.366	0.006	-0.018	7	HP	
32620	1848+124	BC Her	p	49990.318	0.005	-0.262	7	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32621	1838+248	BO Her	p	49947.468	0.006	0.000	11	HP	
32622	1618+185	CT Her	p	49970.326	0.005	-0.002	11	HP	
32623	1819+144	MT Her	p	49933.419	0.006	+0.015	7	HP	
32624	1749+500	MX Her	p	50006.320	0.006	-0.352	7	HP	
32625			p	50013.357	0.007	-0.358	6	HP	
32626	1751+437	V338 Her	p	49906.462	0.004	+0.020	8	HP	
32627			p	50008.310	0.006	+0.020	6	HP	
32628	1604+503	NSV7457 Her	p	49780.662	0.002	+0.008	12	JVb	elem. IBVS No. 3946
32629			p	49799.508	0.004	-0.002	12	JVb	
32630	1710+489	NSV8316 Her	p	49923.494	0.008	0.000	19	AD	elem. Brno Contr. 31
32631			p	49929.374	0.001	+0.005	14	AD	
32632			s	49929.487	0.005	-0.009	13	AD	
32633	2251+376	SW Lac	p	49935.394	0.005	-0.028	7	AD	
32634	2228+543	TW Lac	p	49929.470	0.006	+0.104	11	HP	
32635			p	49999.345	0.007	+0.118	7	HP	
32636	2238+380	VX Lac	p	49917.492	0.005	+0.019	7	HP	
32637			p	49945.430	0.005	+0.020	12	HP	

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32638			p	50001.300	0.005	+0.017	7	HP	
32639	2247+447	VY Lac	p	50008.289	0.005	-0.128	7	HP	
32640	2216+542	AW Lac	p	49906.454	0.005	+0.096	8	HP	
32641			p	50001.334	0.005	+0.119	6	HP	
32642	2226+535	DG Lac	p	49906.444	0.005	-0.125	8	HP	
32643			p	50001.315	0.009	-0.135	6	KL	
32644			p	50001.342	0.004	-0.108	6	HP	
32645	2231+558	OO Lac	p	49978.593	0.003	+0.113	6	KL	
32646	0945+132	UU Leo	p	<u>49734.599</u>	0.005	<u>+0.052</u>	31	APs	CCD
32647	1035+145	UV Leo	p	49795.545	0.002	+0.014	22	MBi	
32648			p	49806.344	0.002	+0.012	18	MBi	
32649			p	49812.348	0.002	+0.015	20	DDa	
32650			s	49841.465	0.002	+0.028	18	DDa	
32651			p	49842.352	0.002	+0.015	22	DDa	
32652			p	49848.379	0.002	+0.041	24	MBi	
32653			p	49854.353	0.002	+0.014	22	MBi	
32654			p	49857.354	0.002	+0.015	24	DDa	
32655			p	49863.352	0.002	+0.012	18	DDa	
32656			p	49869.355	0.001	+0.014	20	DDa	
32657			p	49875.355	0.001	+0.013	20	DDa	
32658	0924+168	VZ Leo	p	<u>49787.503</u>	0.005	<u>-0.037</u>	31	APs	CCD
32659	0959+172	XZ Leo	p	49797.378	0.007	+0.020	17	MMa	
32660	0804+419	SW Lyn	p	49751.379	0.013	+0.028	19	MMa	
32661	1914+323	RV Lyr	p	49924.433	0.005	-0.038	8	HP	
32662	1925+415	TT Lyr	p	49947.442	0.005	-0.004	12	HP	
Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32663	1814+410	TZ Lyr	p	49948.410	0.005	+0.006	8	HP	
32664			p	49993.351	0.005	-0.003	6	HP	
32665	1919+378	UZ Lyr	p	50014.347	0.006	-0.011	8	HP	
32666	1831+377	EW Lyr	p	49929.440	0.005	+0.247	8	HP	
32667			p	49970.367	0.006	+0.251	11	HP	
32668			p	50011.291	0.006	+0.251	7	HP	
32669	1916+271	PS Lyr	p	49929.421	0.005	+0.008	8	HP	
32670			p	50013.335	0.004	-0.003	8	HP	
32671	0635+050	BZ Mon	p	49999.528	0.009	-0.093	6	KL	
32672	0700+003	HM Mon	p	49993.600	0.006	-0.028	5	KL	
32673	1732+072	RV Oph	p	49947.349	0.004	-0.001	6	KL	
32674	1816+142	V501 Oph	p	49906.454	0.005	+0.001	8	HP	
32675			p	49907.421	0.004	0.000	7	HP	

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32676			p	49970.335	0.004	-0.003	10	HP	
32677	1738+078	V506 Oph	s	49906.450	0.004	+0.029	8	HP	
32678			s	49924.475	0.005	+0.026	6	HP	
32679	1756+135	V508 Oph	p	49924.466	0.005	+0.007	6	HP	
32680			s	49995.316	0.007	+0.002	6	KL	
32681	1752+141	V913 Oph	p	49920.444	0.007	+0.098	10	HP	
32682	0505-028	FL Ori	p	49992.636	0.005	+0.014	6	KL	
32683	2355+156	U Peg	s	<u>50008.4239</u>	<u>0.0003</u>	<u>-0.0609</u>	34	EBI	pe, B
32684	2226+177	UX Peg	p	49929.497	0.005	-0.010	9	HP	
32685	2254+329	VW Peg	p	49967.418	0.007	+0.011	11	HP	
32686	2220+160	BB Peg	p	49917.466	0.004	+0.006	7	HP	
32687			p	49934.447	0.005	-0.004	6	HP	
32688			p	50014.349	0.005	+0.006	7	HP	
32689	2250+153	BG Peg	p	50011.267	0.004	-0.791	7	HP	
32690	2125+047	BN Peg	p	49918.476	0.004	+0.011	10	HP	
32691			p	49948.435	0.004	+0.011	6	HP	
32692			p	50008.347	0.005	+0.006	7	HP	
32693	2128+117	BO Peg	p	50014.305	0.005	0.000	8	HP	
32694	2329+143	DI Peg	p	<u>50008.3603</u>	<u>0.0001</u>	<u>-0.0093</u>	59	MW _o CCD	
32695	2312+165	EY Peg	p	49976.439	0.008	-0.037	6	KL	elem. BBSAG Bull. 105, 8
32696	0236+419	Z Per	p	50008.283	0.004	-0.086	7	KL	
32697			p	50014.379	0.006	-0.103	11	HP	
32698			p	50017.419	0.006	-0.119	11	HP	
32699	0405+464	XZ Per	p	49948.534	0.003	-0.033	6	KL	
32700	0222+558	DM Per	p	49776.332	0.002	-0.021	17	MMa	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32701	0355+445	HW Per	p	<u>50013.3509</u>	<u>0.0006</u>	<u>+0.0168</u>	27	MW _o CCD	
32702	0356+480	IQ Per	p	49777.360	0.011	-0.001	20	MMa	
32703	0256+437	IU Per	p	49993.416	0.006	+0.011	10	HP	
32704			p	50017.406	0.005	+0.004	8	HP	
32705	0156+529	KW Per	p	49934.497	0.002	+0.006	9	MK _o	
32706			p	49990.380	0.006	+0.013	10	HP	
32707			p	50017.383	0.005	+0.010	6	HP	
32708	0236+454	PS Per	p	49945.401	0.005	+0.028	6	KL	
32709	1756-173	WX Sgr	p	49947.347	0.003	-0.076	6	KL	

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32710	2010+191	UZ Sge	p	49929.505	0.007	+0.006	8	HP	
32711	1922+163	CU Sge	p	49907.397	0.005	+0.015	9	HP	
32712			p	49945.390	0.005	+0.008	8	HP	
32713			p	50010.324	0.004	+0.025	6	HP	
32714	1905+188	DL Sge	p	49905.468	0.006	+0.081	10	HP	
32715			p	49917.486	0.005	+0.097	10	HP	
32716			p	49929.477	0.005	+0.086	6	HP	
32717			p	49990.350	0.005	+0.092	8	HP	
32718			p	50008.348	0.005	+0.088	9	HP	
32719	1851-126	U Sct	p	49947.431	0.006	+0.012	6	HP	
32720	1846-102	RS Sct	p	49924.450	0.004	+0.011	7	HP	
32721			p	49934.417	0.004	+0.015	6	HP	
32722	1556+173	AO Ser	p	49905.457	0.005	+0.017	8	HP	
32723			p	49920.408	0.004	+0.019	9	HP	
32724	1554+224	AU Ser	p	49917.394	0.005	-0.038	6	HP	
32725			s	49928.407	0.005	-0.041	7	HP	
32726			s	49952.363	0.005	-0.048	7	HP	
32727			p	49970.345	0.004	-0.038	8	HP	
32728	1534+156	CC Ser	p	49917.436	0.005	+0.116	6	HP	
32729			p	49933.423	0.005	+0.107	6	HP	
32730			p	49947.374	0.005	+0.126	6	HP	
32731	0400+279	RW Tau	p	49978.575	0.003	-0.093	10	KL	
32732	0128+301	V Tri	p	49979.337	0.005	+0.012	5	KL	
32733			p	49993.379	0.004	+0.009	7	HP	
32734			p	50017.369	0.005	+0.006	7	HP	
32735	0157+276	X Tri	p	<u>49641.540</u>	<u>0.004</u>	<u>-0.022</u>	46	APs	CCD
32736			p	49990.316	0.005	-0.027	6	HP	
32737	0132+293	RS Tri	p	<u>50014.4268</u>	<u>0.0002</u>	<u>-0.0037</u>	58	MW _o	CCD
32738			p	50014.429	0.005	-0.002	7	HP	
32739	0210+367	RV Tri	p	49948.598	0.004	-0.008	7	KL	
32740			p	49995.326	0.004	-0.007	7	HP	
32741			p	50013.414	0.005	-0.007	6	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
32742	0940+561	W UMa	p	49750.346	0.004	-0.025	18	MMa	
32743			p	49751.349	0.004	-0.022	21	MMa	
32744			p	49765.366	0.009	-0.018	17	MMa	
32745			p	49768.372	0.002	-0.015	20	MMa	
32746			p	49776.381	0.009	-0.014	20	MMa	
32747			p	49777.376	0.004	-0.019	20	MMa	
32748			p	49783.385	0.005	-0.016	25	MMa	

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32749	0851+651	AC UMa	p	49945.451	0.006	-0.056	11	KL
32750	1158+132	AG Vir	s	49776.420	0.007	+0.007	14	MMa
32751			p	49777.387	0.002	+0.010	18	MMa
32752	2026+246	AW Vul	p	49906.430	0.005	-0.002	8	HP
32753			p	49935.463	0.004	-0.001	6	HP
32754			p	50011.270	0.005	-0.001	7	HP
32755	2030+246	AX Vul	p	49917.494	0.005	-0.017	8	HP
32756			p	49984.307	0.006	-0.024	6	KL
32757			p	49990.394	0.004	-0.012	8	HP
32758	2033+224	AY Vul	p	50002.321	0.007	-0.007	7	KL
32759			p	50002.330	0.007	+0.002	6	HP
32760			p	50014.393	0.006	+0.003	9	HP
32761	2023+272	BE Vul	p	50010.335	0.004	+0.017	6	HP
32762	1954+237	BO Vul	p	49935.500	0.006	+0.026	7	HP
32763			p	49978.305	0.004	+0.022	6	KL
32764			p	50013.333	0.005	+0.024	11	HP
32765	2023+208	BP Vul	p	49934.390	0.006	-0.005	8	HP
32766			p	49967.380	0.005	-0.001	7	HP
32767			p	50002.313	0.006	+0.006	7	HP
32768	1935+218	BS Vul	p	49920.428	0.004	+0.004	7	HP
32769			p	49970.395	0.004	-0.005	10	HP
32770			p	50002.290	0.005	0.000	7	HP
32771	2044+280	BU Vul	p	49906.468	0.005	+0.011	7	HP
32772			p	49918.414	0.005	+0.008	8	HP
32773			p	49935.480	0.005	+0.005	5	HP
32774			p	49967.337	0.006	-0.002	7	HP
32775	2023+263	CD Vul	p	49924.412	0.004	+0.007	6	HP
32776			p	50002.356	0.005	+0.005	8	HP

RZ Equ

In BBSAG Bulletin No. 56, 57, 61, 100 and 110 (this issue) we published 5 visual and 3 CCD minima of RZ Equ. From these we derive the new elements

$$JD(\text{hel, min}) = 37161.373 + 1.960942 \text{ } \acute{\alpha} \text{ E}.$$

According to the information in the BAV database only five weakenings on photographic plates taken in 1960 have been reported in addition to our minima.

J. Borovicka, A. Paschke