

BBSAG

BULLETIN

107

1994 October 20

140. LIST OF MINIMA OF ECLIPSING BINARIES

The following table lists 21 photoelectric (underlined), 6 CCD-measured and 319 visual heliocentric minima of eclipsing binaries obtained primarily from May 1994 to September 1994 by the following observers:

FAc	Franco Acerbi, Codogno, Italy
EBl	Ernst Blöchl, Wald, Switzerland
AD	Antonin Dedoch, Praha, Czech Republic
MD	Micheael Dahm, Bremen, Germany
RD	Roger Diethelm, R. Szafraniec Observatory, Metzerlen, 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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The O-C values generally refer to the linear elements of the GCVS 1985, with the remarked exceptions. For the reduction of the visual minima, the tracing paper method was employed, while most of the photoelectric observations were reduced with the Kwee-van Woerden algorithm.

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Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31502	0153+418	XZ And	p	49560.562	0.003	+0.037	9	KL	
31503			p	49605.349	0.004	+0.034	10	HP	
31504			p	49624.356	0.003	+0.040	8	KL	
31505	2309+366	AB And	p	49543.584		+0.006	8	FAC	
31506			p	49550.537		-0.010	10	FAC	
31507			p	49599.324	0.013	-0.012	14	FAC	
31508	2347+455	AP And	p	49311.337	0.005	-0.005	14	JVb	elem. GEOS Circ. EB 22
31509	2308+516	BL And	p	49544.415	0.006	-0.006	10	HP	
31510	0139+445	EP And	p	49567.398	0.007	+0.049	6	KL	
31511	2202-090	XZ Aqr	p	49605.503	0.009	+0.020	4	KL	
31512	2217-203	AT Aqr	s	49568.545	0.008	+0.001	6	KL	
31513	2233-009	CX Aqr	p	49609.303	0.003	+0.003	6	KL	
31514	2319-162	CZ Aqr	p	49600.537	0.005	-0.016	6	KL	
31515	2019-075	XZ Aql	p	49600.322	0.003	+0.088	6	KL	
31516	1901+027	FK Aql	p	49574.487	0.006	-0.037	5	KL	
31517	1844+107	KO Aql	p	49537.388	0.005	+0.024	9	RD	
31518	1936+064	LT Aql	p	49544.415	0.004	+0.032	6	KL	
31519	1945+091	OO Aql	s	49544.392	0.004	-0.005	11	RD	
31520			s	49550.480		+0.002	10	FAC	
31521	1953+157	V340 Aql	p	49541.441	0.008	+0.019	5	KL	
31522	1936+126	V343 Aql	p	49536.436	0.004	-0.016	9	HP	
31523			p	49560.419	0.006	-0.013	7	HP	
31524	2007+102	V346 Aql	p	49564.466	0.004	+0.007	7	HP	
31525	1847+106	V479 Aql	p	49574.421	0.005	-0.009	6	KL	
31526	1946+154	V688 Aql	p	49549.414	0.005	-0.067	9	HP	
31527	1944+033	V829 Aql	p	49549.456	0.006	-0.043	7	HP	
31528			p	49600.339	0.007	-0.039	8	HP	
31529	1841-016	V1331 Aql	s	<u>49569.499</u>	0.003	-0.001	10	RD	pe, B; elem. IBVS No. 3599
31530	0506+395	TT Aur	s	49599.548	0.005	+0.022	15	FAC	
31531	0629+324	WW Aur	p	49378.364	0.004	0.000	11	MD	
31532	0509+334	CL Aur	p	49630.640	0.004	+0.093	6	KL	
31533	1402+302	TU Boo	s	49488.385	0.005	-0.065	10	APs	CCD

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31534	p	49488.553	0.005	-0.059	24	APs	CCD
31535	s	49534.448	0.006	-0.051	8	HP	
31536	s	49535.421	0.005	-0.050	8	HP	
31537	s	49560.399	0.006	-0.042	8	HP	
31538	p	49592.326	0.006	-0.058	6	KL	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31539	1458+353	TY Boo	p	49536.433	0.005	+0.055	10	HP	
31540			p	49549.441	0.006	+0.060	10	HP	
31541			p	49569.419	0.005	+0.058	8	HP	
31542	1419+473	UW Boo	p	49587.386	0.006	-0.004	9	HP	
31543	1346+204	XY Boo	p	<u>49511.4497</u>	<u>0.0010</u>	<u>-0.0217</u>	18	RD	pe, B
31544	1435+361	BW Boo	p	<u>49511.4935</u>	<u>0.0008</u>	<u>-0.0027</u>	26	EBI	pe, B
31545	1524+371	CV Boo	p	49567.424		-0.009	7	AD	
31546	0620+778	AV Cam	p	49296.337	0.005	-0.054	14	JVb	
31547	0823+210	EH Cnc	p	49393.422	0.004	+0.025	19	MMa	elem. IBVS No. 2755
31548			s	49394.441	0.009	-0.001	21	MMa	
31549			p	49429.372	0.006	+0.024	16	MMa	
31550	1327+291	VW CVn		49422.491	0.003		14	JVb	GCVS per. inexact
31551				49425.465	0.007		7	JVb	
31552				49473.466	0.009		12	JVb	
31553	1300+568	BI CVn	s	49516.508	0.003		51	APs	CCD; GCVS per. inexact
31554	0232+710	AB Cas	p	49607.640	0.004	+0.033	6	KL	
31555	0123+698	AE Cas	p	49561.422	0.009	+0.070	6	KL	
31556	0028+714	CV Cas	p	49568.490	0.009	+0.443	8	KL	
31557	2304+538	IR Cas	s	49567.426	0.006	+0.019	6	HP	
31558			p	49600.433	0.006	+0.013	6	KL	
31559			p	49600.449	0.006	+0.029	8	HP	
31560	2326+602	IS Cas	p	49561.443	0.006	+0.030	12	HP	
31561	0045+605	OR Cas	p	49564.447	0.005	-0.011	6	HP	
31562			p	49569.424	0.005	-0.017	10	HP	
31563			p	49569.434	0.004	-0.006	7	KL	
31564	2307+589	PV Cas	p	49543.392		-0.012	8	FAC	
31565			p	49550.390		-0.019	11	FAC	
31566	2332+560	V359 Cas	p	49310.395	0.006	-0.072	11	JVb	
31567	0049+501	V364 Cas	p	49600.410	0.005	-0.003	7	HP	
31568	2354+558	V374 Cas	p	49546.446	0.005	+0.012	7	HP	
31569			p	49569.434	0.005	+0.014	10	HP	

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31570	0037+499	V523 Cas	s	49550.578	0.006	+0.020	5	KL
31571			p	49558.417	0.005	+0.029	7	HP
31572			s	49567.414	0.005	+0.029	7	HP
31573	0057+816	U Cep	p	49587.597	0.005	+0.067	7	KL
31574	2145+570	SU Cep	p	49546.469	0.006	+0.011	6	HP
31575			p	49621.284	0.005	+0.009	6	KL

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31576	2038+754	VW Cep	s	49393.401	0.007	-0.084	18	MMa	
31577			p	49394.366	0.005	-0.093	16	MMa	
31578			p	49395.487	0.007	-0.085	21	MMa	
31579			s	49415.388	0.006	-0.083	15	MMa	
31580			s	49420.396	0.008	-0.086	18	MMa	
31581			p	49429.427	0.009	-0.100	18	MMa	
31582			s	49536.462		-0.076	10	FAC	
31583			s	49543.394		-0.102	8	FAC	
31584			p	49543.549		-0.086	11	FAC	
31585			p	49550.505		-0.088	17	FAC	
31586			s	49599.355	0.008	-0.082	12	FAC	
31587			p	49599.483	0.013	-0.093	13	FAC	
31588			p	49606.427	0.008	-0.108	7	FAC	
31589	2244+674	WY Cep	p	49568.381	0.004	+0.026	7	HP	
31590			p	49599.584	0.009	+0.003	16	FAC	
31591	2320+726	WZ Cep	s	49599.405	0.017	+0.002	11	FAC	
31592			p	49599.599	0.015	-0.012	13	FAC	
31593	2320+650	CM Cep	p	49546.500	0.003	-0.020	7	KL	
31594	2157+607	DK Cep	p	49607.634	0.004	+0.036	7	KL	
31595	2017+766	EG Cep	p	49569.362	0.006	+0.007	8	HP	
31596	2127+649	GI Cep	p	49544.448	0.005	-0.011	12	HP	
31597	2249+567	GS Cep	p	49567.427	0.006	+0.004	12	HP	elem. IBVS No. 3596
31598	2024+614	HI Cep	p	49605.531	0.005	+0.259	5	KL	elem. BBSAG Bull. 81, 6
31599			p	49621.318	0.008	+0.271	6	KL	
31600	2109+575	IO Cep	p	49549.406	0.006	+0.017	7	HP	
31601			p	49560.512	0.004	+0.001	7	KL	
31602	0220+809	V358 Cep	p	49567.402	0.007	+0.019	6	KL	elem. BBSAG Bull. 96, 10
31603	0146-211	TW Cet	p	49605.511	0.003	-0.012	6	KL	
31604	0147-198	VY Cet	s	49605.508	0.004	-0.004	6	KL	
31605	1230+269	RW Com	s	49520.396	0.006	-0.010	7	HP	

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31606	1232+236	RZ Com	p	49516.414	0.003	+0.018	29	APs	CCD
31607			p	49537.391	0.005	+0.008	8	HP	
31608	1209+228	CC Com	s	49520.411	0.005	+0.001	7	HP	
31609			p	49536.398	0.006	-0.011	8	HP	
31610	1604+274	TW CrB	p	49550.419	0.005	+0.016	7	HP	
31611			p	49560.426	0.004	+0.011	7	HP	
31612			p	49580.448	0.005	+0.013	7	HP	
31613	2005+461	SW Cyg	p	49605.414	0.005	-0.146	12	HP	
31614	2021+430	UW Cyg	p	49549.491	0.003	+0.030	6	KL	
31615			p	49587.449	0.007	+0.029	9	HP	
31616	2104+455	VV Cyg	p	49511.545	0.007	-0.005	8	KL	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31617	2002+414	WW Cyg	p	49561.478	0.007	+0.007	8	KL	
31618			p	49561.479	0.005	+0.009	16	HP	
31619			p	49581.395	0.006	+0.018	11	HP	
31620	2051+386	WZ Cyg	p	49550.422	0.005	+0.040	8	HP	
31621			p	49564.455	0.004	+0.046	7	HP	
31622			p	49581.396	0.004	+0.037	7	HP	
31623	2022+467	ZZ Cyg	p	49536.430	0.005	-0.023	7	HP	
31624			p	49556.544	0.005	-0.025	5	KL	
31625			p	49558.434	0.004	-0.021	8	HP	
31626			p	49580.444	0.004	-0.013	9	HP	
31627			p	49609.355	0.006	-0.017	9	HP	
31628	2111+305	AE Cyg	p	49549.432	0.006	-0.005	11	HP	
31629			p	49580.462	0.006	+0.011	9	HP	
31630			p	49581.424	0.006	+0.005	6	HP	
31631	2056+349	CG Cyg	p	49535.400	0.004	+0.030	8	HP	
31632			p	49564.442	0.004	+0.039	7	HP	
31633			p	49600.413	0.005	+0.036	8	HP	
31634	2156+523	DO Cyg	p	49605.432	0.005	-0.003	9	HP	
31635	1928+342	HK Cyg	p	49561.443	0.005	-0.087	6	KL	
31636	2013+366	KV Cyg	p	49534.430	0.006	+0.034	9	HP	
31637			p	49605.403	0.006	+0.032	10	HP	
31638	2016+361	V382 Cyg	s	<u>49518.4527</u>	<u>0.0013</u>	<u>+0.0274</u>	15	RD	pe, B
31639			s	<u>49550.5029</u>	<u>0.0035</u>	<u>+0.0239</u>	14	RD	pe, B
31640			s	<u>49567.4771</u>	<u>0.0009</u>	<u>+0.0285</u>	44	EBI	pe, B
31641			p	<u>49568.4222</u>	<u>0.0013</u>	<u>+0.0309</u>	22	EBI	pe, B
31642	2113+372	V387 Cyg	p	49536.419	0.006	+0.014	8	HP	
31643			p	49561.390	0.005	+0.002	6	HP	
31644			p	49568.440	0.006	+0.005	7	HP	

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31645	2026+381	V445 Cyg	p	49504.519	0.004	+0.172	7	KL	
31646			p	49545.422	0.007	+0.172	6	HP	
31647	2027+389	V456 Cyg	p	49522.414	0.005	+0.032	8	HP	
31648			p	49530.428	0.005	+0.026	7	HP	
31649			p	49587.461	0.004	+0.022	7	HP	
31650	1952+328	V466 Cyg	p	49525.435	0.006	+0.009	9	HP	
31651			p	49550.471	0.005	-0.003	6	HP	
31652	2003+318	V477 Cyg	s	<u>49550.4946</u>	<u>0.0028</u>	<u>-0.4693</u>	14	RD	pe, B; displ. secondary
31653	2017+381	V478 Cyg	p	<u>49568.431</u>	<u>0.002</u>	<u>+0.020</u>	16	RD	pe, B
31654	2011+404	V726 Cyg	p	49546.482	0.004	+0.036	7	KL	
31655	2025+586	V728 Cyg	p	49534.436	0.004	-0.016	9	HP	
31656			p	49536.509	0.005	-0.003	6	KL	
31657			p	49567.403	0.005	-0.012	10	HP	
31658			p	49600.369	0.006	-0.007	10	HP	
31659	2040+531	V749 Cyg	p	49568.407	0.009	+0.005	5	KL	
31660	2014+478	V787 Cyg	p	49609.384	0.006	-0.004	9	HP	
Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31661	1952+362	V822 Cyg	p	49511.461	0.008	-0.087	6	KL	
31662	1930+299	V885 Cyg	s	<u>49568.405</u>	<u>0.003</u>	<u>-0.057</u>	18	RD	pe, B
31663	1956+332	V1018 Cyg	p	49296.325	0.011	-0.053	10	JVb	
31664	2136+357	V1729 Cyg	p	49561.508	0.012	+0.055	8	KL	
31665	2035+181	W Del	p	49600.479	0.007	-0.031	6	KL	
31666	2101+130	TY Del	p	49546.426	0.006	+0.049	8	HP	
31667	2027+138	YY Del	p	49560.421	0.006	+0.003	7	HP	
31668	2051+044	FZ Del	p	49543.399	0.005	-0.022	8	FAC	
31669			p	49550.449		-0.020	8	FAC	
31670			p	49561.403	0.006	-0.031	6	HP	
31671	1142+725	Z Dra	p	49525.405	0.006	-0.079	9	HP	
31672			p	49567.484	0.003	-0.080	7	KL	
31673			p	49631.290	0.009	-0.075	7	KL	
31674	1822+588	RZ Dra	p	49519.405	0.004	+0.026	8	HP	
31675			p	49530.424	0.005	+0.028	7	HP	
31676			p	49546.405	0.004	+0.034	8	HP	
31677			p	49568.433	0.004	+0.026	9	HP	
31678			p	49605.344	0.006	+0.029	8	HP	
31679	1820+475	TZ Dra	p	49560.470	0.005	0.000	7	HP	
31680			p	49567.408	0.004	+0.009	10	HP	
31681	1638+607	WW Dra	p	<u>49534.4580</u>	<u>0.0020</u>	<u>+0.2276</u>	28	EBl	pe, B

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31682	1655+527	Al Dra	p	<u>49525.4708</u>	0.0003	+0.0078	40	EBI	pe, B
31683	1815+532	AK Dra	p	49474.565	0.004	+0.053	14	JVb	
31684	1214+651	AR Dra	p	49537.398	0.005	-0.002	8	HP	
31685			p	49564.434	0.005	0.000	7	HP	
31686			p	49630.646	0.009	-0.020	6	KL	
31687	1457+569	BU Dra	p	49536.381		+0.085	14	FAc	
31688	1510+620	BV Dra	s	49480.442	0.005	-0.020	10	MD	
31689	1922+698	DW Dra	p	49604.561	0.005	-0.002	7	KL	elem. BBSAG Bull. 84, 6
31690	0558+231	RW Gem	p	49599.619	0.004	+0.004	6	KL	
31691	1737+329	SZ Her	p	49536.416	0.005	-0.015	8	HP	
31692			p	49545.415	0.005	-0.014	6	HP	
31693	1652+169	TT Her	s	<u>49549.469</u>	0.006	+0.027	16	RD	pe, B
31694	1717+419	TX Her	p	<u>49459.4082</u>	0.0020	+0.0066	14	RD	pe, B
31695	1751+169	UX Her	p	<u>49504.4901</u>	0.0005	+0.0251	26	EBI	pe, B
31696	1711+164	AK Her	s	<u>49511.4625</u>	0.0007	+0.0038	32	EBI	pe, B
31697	1615+090	CC Her	p	49550.497	0.003	+0.056	6	KL	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31698	1618+185	CT Her	p	49534.459	0.006	+0.006	7	HP	
31699			p	49550.522	0.004	-0.009	6	KL	
31700			p	49568.406	0.005	+0.012	10	HP	
31701	1732+151	DP Her	p	49569.468	0.006	+0.040	7	KL	
31702	1806+458	DQ Her	p	49568.481	0.002	+0.001	6	KL	
31703	1622+114	FN Her	p	49605.347	0.006	+0.113	8	HP	
31704	1848+246	HS Her	s	<u>49518.454</u>	0.002	-0.013	14	RD	pe, B
31705	1756+221	MM Her	p	<u>49579.357</u>	0.002	+0.013	16	RD	pe, B
31706	1819+144	MT Her	p	49534.463	0.005	+0.012	7	HP	
31707			p	49535.438	0.005	+0.012	8	HP	
31708			p	49549.581	0.004	+0.011	6	KL	
31709	1749+500	MX Her	p	49581.417	0.006	-0.329	7	HP	
31710	1654+377	V359 Her	p	49546.444	0.005	+0.087	10	HP	
31711	1604+503	NSV7457 Her	p	49296.265	0.003	+0.010	9	JVb	elem. IBVS No. 3946
31712	2247+447	VY Lac	p	49609.332	0.005	-0.128	9	HP	

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31713	2213+484	AU Lac	p	49516.469	0.004	0.000	6	KL	
31714	2216+542	AW Lac	p	49522.454	0.006	+0.093	10	HP	
31715			p	49546.468	0.006	+0.108	6	HP	
31716	2226+535	DG Lac	p	49564.449	0.006	-0.107	7	HP	
31717	2231+558	OO Lac	p	49511.505	0.007	+0.103	6	KL	
31718	1141+236	CE Leo	p	49415.600	0.003	+0.003	20	JVb	
31719			p	49422.571	0.003	-0.005	11	JVb	
31720	0507-149	Z Lep	p	49631.683	0.003	-0.004	6	KL	elem. JAAVSO 21, 111
31721	1814+410	TZ Lyr	p	49536.446	0.007	-0.002	9	HP	
31722			p	49545.439	0.006	+0.001	6	HP	
31723			p	49581.396	0.004	-0.002	8	HP	
31724			p	49600.441	0.005	+0.005	9	HP	
31725	1919+378	UZ Lyr	p	49560.460	0.004	+0.007	9	HP	
31726			p	49615.275	0.005	-0.024	6	KL	
31727	1915+328	BV Lyr	p	49536.523	0.020	+0.005	7	KL	
31728	1831+377	EW Lyr	p	49549.443	0.004	+0.250	6	KL	
31729			p	49549.444	0.004	+0.252	12	HP	
31730	1916+271	PS Lyr	p	49560.423	0.006	-0.010	6	HP	
31731	0632+088	RW Mon	p	49630.625	0.005	-0.019	6	KL	
31732	1732+072	RV Oph	p	49545.443	0.006	-0.009	12	HP	
31733	1704+078	WZ Oph	p	<u>49504.5461</u>	<u>0.0012</u>	<u>-0.0008</u>	20	EBl	pe, B
31734	1755+046	V391 Oph	p	49511.528	0.009	+0.019	9	KL	
Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31735	1728+106	V449 Oph	p	49545.448	0.005	+0.032	7	HP	
31736			p	49550.422	0.005	+0.034	6	HP	
31737	1840+087	V456 Oph	p	<u>49511.4510</u>	<u>0.0014</u>	<u>+0.0180</u>	16	RD	pe, B
31738	1816+142	V501 Oph	p	49544.432	0.004	-0.009	11	HP	
31739			p	49605.413	0.004	-0.008	8	HP	
31740	1738+078	V506 Oph	s	49537.413	0.005	+0.020	8	HP	
31741			p	49580.362	0.005	+0.022	7	HP	
31742	1756+135	V508 Oph	p	49522.446	0.006	+0.015	7	HP	
31743			p	49561.407	0.004	+0.014	7	HP	
31744			p	49580.372	0.004	+0.015	6	HP	
31745			p	49600.364	0.004	+0.010	9	HP	
31746	1754+049	V566 Oph	s	49544.385	0.006	+0.015	9	RD	
31747	1824+042	V586 Oph	p	49511.488	0.005	-0.026	29	APs	CCD

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31748	1705+096	V735 Oph	p	49587.395	0.006	+0.039	12	HP	
31749	0548+094	FR Ori	p	49310.653	0.004	+0.018	9	JVb	
31750			p	49311.531	0.003	+0.013	7	JVb	
31751	0538+025	FZ Ori	p	49395.466	0.005	-0.012	20	MMa	
31752	2226+177	UX Peg	p	49546.430	0.006	-0.012	8	HP	
31753			p	49580.412	0.006	-0.012	7	HP	
31754	2254+329	VW Peg	p	49624.394	0.004	-0.013	7	HP	
31755	2220+160	BB Peg	p	49549.451	0.006	0.000	6	HP	
31756			p	49561.381	0.006	0.000	7	HP	
31757			p	49605.474	0.006	-0.010	7	HP	
31758	2125+047	BN Peg	p	49615.323	0.003	+0.009	5	KL	
31759	2136+264	BX Peg	s	49568.394	0.006	+0.014	6	HP	
31760	2146+278	CW Peg	p	49621.359	0.005	+0.018	6	KL	
31761	2152+143	DF Peg	p	49615.451	0.009	+0.056	7	KL	
31762	2329+146	DI Peg	p	49543.550		-0.003	9	FAC	
31763	2205+059	DO Peg	p	49550.576	0.008	-0.003	7	KL	
31764	2312+165	EY Peg	p	49549.521	0.009	+0.019	6	KL	elem. BBSAG Bull. 105. 8
31765	0320+463	RT Per	p	49599.636	0.002	+0.032	6	KL	
31766	0256+389	ST Per	p	49592.416	0.004	+0.081	8	KL	
31767	0405+464	XZ Per	p	49561.586	0.003	-0.032	10	KL	
31768	0220+577	DK Per	p	49567.448	0.009	-0.007	5	KL	elem. IBVS No. 3875
31769	0356+480	IQ Per	p	49395.518	0.015	-0.002	27	MMa	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31770	0156+529	KW Per	p	49569.442	0.006	+0.004	6	KL	
31771			p	49569.441	0.004	+0.004	8	HP	
31772			p	49624.383	0.003	+0.001	8	KL	
31773			p	49624.385	0.005	+0.003	7	HP	
31774	0253+376	LS Per	p	49311.463	0.004	-0.329	17	JVb	
31775	0236+454	PS Per	p	49546.575	0.006	+0.039	5	KL	
31776	0217+542	V505 Per	p	49400.304	0.004	+0.004	11	MD	elem. IBVS No. 3479
31777	2331+076	Y Psc	p	49536.557	0.009	-0.019	6	KL	
31778	1916+195	U Sge	p	49550.531		-0.020	16	FAC	

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31779	2009+191	CK Sge	p	49568.498	0.009	-0.048	7	KL	
31780	1922+163	CU Sge	p	49546.385	0.005	+0.007	7	HP	
31781			p	49561.437	0.004	+0.017	7	HP	
31782			p	49580.432	0.005	+0.012	9	HP	
31783	2011+212	DK Sge	p	49537.474		+0.097	18	AD	
31784			p	49565.451		+0.092	8	AD	
31785	1905+188	DL Sge	p	49545.426	0.004	+0.092	7	HP	
31786			p	49569.418	0.005	+0.081	9	HP	
31787			p	49581.424	0.006	+0.085	6	HP	
31788			p	49605.416	0.006	+0.074	7	HP	
31789	1756-173	WX Sgr	p	49504.464	0.006	-0.071	6	KL	
31790	1836-227	DV Sgr	p	49544.402	0.009	-0.155	6	KL	
31791	1851-126	U Sct	p	49544.430	0.006	+0.015	10	HP	
31792	1846-102	RS Sct	p	49564.437	0.006	+0.015	6	HP	
31793	1849-063	BS Sct	p	49544.528	0.006	+0.044	7	KL	
31794			p	49567.444	0.005	+0.034	18	HP	
31795	1556+173	AO Ser	p	49504.472	0.009	+0.015	6	KL	
31796			p	49519.426	0.006	+0.020	8	HP	
31797			p	49600.332	0.005	+0.025	9	HP	
31798	1519+026	AQ Ser	p	49472.507	0.007	-0.347	54	APs	CCD
31799	1536+024	AS Ser	p	49520.434	0.007	+0.021	12	HP	
31800			p	49534.429	0.006	+0.038	9	HP	
31801			s	49544.416	0.004	+0.007	12	RD	
31802			p	49569.374	0.006	+0.037	6	HP	
31803	1554+224	AU Ser	p	49520.461	0.004	-0.035	10	HP	
31804			p	49544.421	0.005	-0.038	13	RD	
31805			p	49544.423	0.006	-0.036	10	HP	
31806			p	49549.447	0.005	-0.037	6	KL	
31807			s	49567.422	0.006	-0.034	8	HP	
31808			p	49609.348	0.006	-0.044	8	HP	
31809	1553+176	BI Ser	p	49568.418	0.006	-0.511	9	HP	
31810	1535+190	LX Ser	p	49561.376	0.002	-0.002	6	KL	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
31811	0344+249	AH Tau	s	49615.567	0.003	-0.081	6	KL	
31812	0514+200	CD Tau	s	49415.437	0.011	-0.014	19	MMa	
31813	0128+301	V Tri	p	49632.304	0.006	+0.006	5	KL	
31814	0222+278	RW Tri	p	49568.527	0.002	+0.002	8	KL	

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31815	0200+324	TY Tri	p	49309.367	0.009	-0.055	16	JVb	elem. MVS 11, 1
31816	0940+561	W UMa	p	49393.364	0.010	-0.015	18	MMa	
31817			p	49394.370	0.006	-0.010	16	MMa	
31818			s	49395.534	0.005	-0.008	18	MMa	
31819			p	49415.382	0.005	-0.017	15	MMa	
31820			p	49420.390	0.006	-0.013	18	MMa	
31821			p	49429.398	0.006	-0.013	19	MMa	
31822	1042+458	TX UMa	p	49415.425	0.006	+0.088	20	MMa	
31823	1206+563	TY UMa	p	49522.426	0.007	+0.002	11	HP	elem. JAAVSO 21, 111
31824			s	49525.438	0.006	0.000	11	HP	
31825			s	49536.428	0.007	-0.002	9	HP	
31826			p	49550.427	0.006	-0.007	9	HP	
31827			s	49569.385	0.006	-0.016	8	HP	
31828	1026+620	ZZ UMa	p	49519.414	0.005	-0.004	8	HP	
31829	1402-099	VV Vir	p	49511.433	0.004	-0.013	6	KL	
31830	1919+254	Z Vul	p	<u>49568.4306</u>	<u>0.0015</u>	<u>-0.0042</u>	22	EBl	pe, B
31831	1927+273	XZ Vul	p	49516.573	0.009	+0.051	9	KL	1 hour later than expected
31832	2026+246	AW Vul	p	49535.462	0.006	-0.002	7	HP	
31833	2030+246	AX Vul	p	49587.443	0.006	-0.019	7	HP	
31834	2033+224	AY Vul	p	49587.395	0.006	+0.007	7	HP	
31835	2023+272	BE Vul	p	49535.407	0.006	+0.015	8	HP	
31836			p	49580.418	0.004	+0.017	9	HP	
31837	1954+237	BO Vul	p	49544.381	0.003	+0.026	6	KL	
31838			p	49581.355	0.004	+0.029	9	HP	
31839	1935+218	BS Vul	p	49534.414	0.005	+0.004	8	HP	
31840			p	49544.416	0.005	+0.010	10	HP	
31841	2044+280	BU Vul	p	49580.436	0.005	+0.013	9	HP	
31842			p	49600.355	0.005	+0.016	9	HP	
31843	2023+263	CD Vul	p	49537.415	0.005	+0.010	8	HP	
31844			p	49550.407	0.005	+0.011	7	HP	
31845			p	49580.490	0.005	+0.009	7	HP	
31846			p	49619.456	0.007	+0.001	4	KL	
31847	1944+287	GP Vul	p	49624.357	0.006	-0.029	7	HP	