BBSAG

BULLETIN

100

1992 May 15

133. List of Minima of Eclipsing Binaries

The following table lists 26 photoelectric (underlined), 23 CCD-measured and 218 visual heliocentric minima of eclipsing binaries obtained primarily from December 1991 to March 1992 by the following observers:

FAc	Francesco Acerbi, Codogno, Italy
EBl	Ernst Blättler, Wald, Switzerland
MD	Michael Dahm, Bremen, Germany
RD	Roger Diethelm, R. Szafraniec Observatory, Metzerlen, Switzerland
MFr	Michel Frangeul, Cesson, France
MKo	Michael Kohl, Wald, Switzerland
KL	Kurt Locher, Grüt, Switzerland
APs	Anton Paschke, Rüti, Switzerland
HP	Hermann Peter, Otelfingen, Switzerland
JVb	Jacqueline Vandenbroere, Bruxelles, Belgium

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.

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29570	0058+378	**WZ And**	p	48623.329	0.006	+0.022	6	HP	
29571	0153+418	**XZ And**	p	48564.299		+0.016	8	MKo	
29572			p	48587.375		+0.019	7	MKo	
29573			p	48598.236	0.004	+0.021	8	HP	
29574			p	48621.311		+0.023	10	MKo	
29575			p	48625.379	0.005	+0.018	7	HP	
29576	2309+366	**AB And**	s	48645.3044	0.0014	-0.0073	20	RD	pe, B
29577	2334+483	**AD And**	s	48620.312	0.007	-0.014	7	HP	
29578			s	48623.280	0.005	-0.004	8	HP	
29579	2308+516	**BL And**	p	48652.284	0.005	-0.003	8	HP	
29580	2319-162	**CZ Aqr**	p	48564.374		-0.011	7	MKo	
29581	0212+223	**RX Ari**	s	48625.337	0.010	+0.007	24	RD	pe, B
29582			p	48676.3178	0.0004	+0.0214	32	EBI	pe
29583	0546+316	**RZ Aur**	p	48628.331	0.006	-0.042	8	HP	
29584	0629+324	**WW Aur**	s	48556.489	0.008	+0.017	15	MD	
29585	0542+411	**ZZ Aur**	p	48636.270	0.005	+0.017	8	HP	
29586	0515+337	**AR Aur**	s	48509.446	0.004	+0.001	9	FAc	
29587			p	48602.438	0.004	-0.037	16	MD	
29588	0501+412	**BF Aur**	s	48651.3389	0.0012	+0.0031	20	RD	pe, B
29589	0509+334	**CL Aur**	p	48651.329	0.006	+0.097	8	HP	
29590	0615+497	**HL Aur**	p	48619.273	0.007	-0.001	6	HP	
29591			p	48652.264	0.004	-0.003	6	HP	
29592	0507+357	**HP Aur**	p	48628.334	0.005	+0.036	9	HP	
29593			p	48665.332	0.005	+0.040	8	HP	
29594	0511+463	**IM Aur**	p	48509.444		-0.023	10	FAc	
29595			p	48645.378	0.003	-0.044	22	RD	pe, B
29596	0524+347	**IU Aur**	s	48682.3428	0.0016	+0.0064	22	EBI	pe
29597	0544+430	**IY Aur**	p	48686.3431	0.0022	-0.0725	20	RD	pe, B
29598	0602+483	**KO Aur**	p	48686.3465	0.0017	-0.0012	20	RD	pe, B; elem. IBVS No. 3410
29599	1402+302	**TU Boo**	p	48636.660	0.002	-0.050	6	KL	
29600	0734+761	**Y Cam**	p	48330.357	0.005	+0.095	12	HP	
29601			p	48624.573	0.004	+0.111	12	MKo	
29602			p	48624.583	0.009	+0.121	4	KL	
29603			p	48677.450	0.005	+0.098	9	HP	
29604			p	48700.604	0.012	+0.112	9	KL	
29605	0630+823	**SV Cam**	p	48665.304	0.004	+0.024	11	HP	
29606	0837+200	**RY Cnc**	p	48712.397	0.005	+0..030	7	KL	
29607	0844+085	**TY Cnc**	p	48624.495	0.012	-0.151	6	KL	
29608	0759+153	**UU Cnc**	s	48659.45	0.19	-4.32	22	RD	pe, BV
29609	0858+268	**WY Cnc**	p	48653.347	0.004	-0.006	11	HP	
29610	1329+288	**VZ CVn**	p	48623.6508	0.0020	+0.0016	22	EBI	pe

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29611	1354+289	**YZ CVn**	p	48683.367	0.009	0.000	6	KL	
29612	0751+037	**XZ CMi**	p	48628.399	0.004	-0.004	7	HP	
29613	0737+040	**AK CMi**	p	48659.346	0.003	-0.005	6	KL	
29614	0727+046	**BF CMi**	p	48651.352	0.006	-0.105	7	HP	
29615			p	48677.355	0.005	-0.077	9	HP	
29616	0244+694	**RZ Cas**	p	48472.551	0.004	+0.010	9	FAc	
29617			p	48508.408	0.002	+0.010	12	FAc	
29618			p	48509.599	0.003	+0.006	14	FAc	
29619			p	48526.334	0.002	+0.007	9	FAc	
29620			p	48599.256	0.004	+0.019	7	MFr	
29621			p	48618.369	0.003	+0.008	14	MFr	
29622			p	48685.303	0.002	+0.008	13	JVb	
29623	0016+588	**TV Cas**	p	48508.601	0.002	+0.004	16	FAc	
29624			p	48510.427	0.004	+0.017	14	FAc	
29625	0232+710	**AB Cas**	p	48619.392	0.004	+0.034	7	HP	
29626			p	48645.354	0.003	+0.026	7	KL	
29627	0051+638	**BM Cas**	p	48657.68	0.35	+0.30	60	RD	pe, B
29628	2350+572	**EP Cas**	p	48619.248	0.004	-0.039	7	HP	
29629	2304+538	**IR Cas**	s	48625.358	0.005	+0.019	6	HP	
29630	2326+602	**IS Cas**	p	48598.328	0.006	+0.026	9	HP	
29631	0045+605	**OR Cas**	p	48651.344	0.004	-0.007	6	HP	
29632	0049+501	**V364 Cas**	p	48628.285	0.005	+0.005	8	HP	
29633			p	48665.312	0.004	-0.002	11	HP	
29634	2354+627	**V375 Cas**	p	48670.365	0.004	+0.018	11	JVb	
29635	0028+734	**V380 Cas**	p	48598.292	0.006	-0.057	11	HP	
29636			p	48636.302	0.007	-0.051	9	HP	
29637	0111+487	**V389 Cas**	p	48620.285	0.005	+0.039	9	HP	
29638	0037+499	**V523 Cas**	p	48619.440		+0.022	5	MKo	
29639			p	48653.325	0.004	+0.022	7	HP	
29640			s	48662.318	0.005	+0.018	6	KL	
29641	2145+570	**SU Cep**	p	48625.242	0.004	+0.015	7	HP	
29642	2038+754	**VW Cep**	s	48472.478	0.009	-0.064	10	FAc	
29643			p	48500.453	0.004	-0.059	11	FAc	
29644			s	48506.434	0.008	-0.062	14	FAc	
29645			p	48507.410	0.004	-0.060	18	FAc	
29646			s	48507.540	0.007	-0.069	15	FAc	
29647			s	48508.381	0.008	-0.063	11	FAc	
29648			p	48508.516	0.005	-0.068	16	FAc	
29649			p	48509.361	0.009	-0.058	17	FAc	
29650			s	48509.499	0.003	-0.059	17	FAc	
29651			p	48509.646	0.008	-0.051	11	FAc	
29652			s	48510.327	0.003	-0.066	13	FAc	
29653			p	48510.462	0.006	-0.070	17	FAc	
29654			p	48526.319	0.006	-0.077	13	FAc	
29655	2217+696	**WW Cep**	p	48619.267	0.006	-0.063	7	HP	
29656	2244+674	**WY Cep**	p	48620.327	0.008	+0.005	7	HP	
29657	2157+607	**DK Cep**	p	48651.300	0.007	+0.031	7	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29658	2130+706	**GK Cep**	s	48472.500	0.002	+0.102	11	FAc	
29659			p	48507.575	0.005	+0.071	15	FAc	
29660			p	48508.515	0.006	+0.075	9	FAc	
29661	0140+798	**GW Cep**	p	48628.413	0.006	+0.052	6	HP	
29662	2024+614	**HI Cep**	p	48683.496	0.004	+0.187	6	KL	elem. BBSAG Bull. 81, p. 6
29663	0158+786	**V357 Cep**	p	48683.427	0.003	-0.049	6	KL	elem. Brno Contr. 28, p. 34
29664	0220+809	**V358 Cep**	p	48647.273	0.010	+0.016	7	KL	elem. BBSAG Bull. 96, p. 10
29665	0246+015	**SS Cet**	p	48619.326		-0.029	10	MKo	
29666			p	48619.334	0.005	-0.021	8	HP	
29667	0144-100	**TT Cet**	p	48521.63	0.008	-0.02	33	APs	CCD
29668	0053-023	**VV Cet**	p	48623.310	0.007	+0.061	8	HP	
29669	0237-004	**VX Cet**	p	48533.53	0.04	-0.99	63	APs	CCD
29670	0256+033	**XY Cet**	p	48625.4378	0.0014	+0.0037	28	EBl	pe
29671	1536+296	**RT CrB**	p	48685.5835	0.0012	-0.0067	28	RD	pe, B
29672	1205-128	**W Crv**	p	48655.517	0.002	+0.007	6	KL	
29673	2002+414	**WW Cyg**	p	48619.237	0.005	+0.013	7	HP	
29674	2051+386	**WZ Cyg**	p	48598.324	0.005	+0.037	8	HP	
29675	2022+467	**ZZ Cyg**	p	48619.294	0.006	-0.008	6	HP	
29676	1939+466	**BR Cyg**	p	48688.674	0.003	+0.002	8	KL	
29677	2056+349	**CG Cyg**	p	48620.248	0.004	+0.033	7	HP	
29678	2156+523	**DO Cyg**	p	48598.222	0.005	-0.017	8	HP	
29679	2027+389	**V456 Cyg**	p	48598.234	0.005	+0.019	8	HP	
29680			s	48688.684	0.005	+0.013	7	KL	
29681	2151+535	**V680 Cyg**	p	48619.328	0.005	+0.030	8	HP	
29682			p	48625.319	0.005	+0.025	7	HP	
29683	1952+362	**V822 Cyg**	p	48683.615	0.012	-0.076	5	KL	
29684	2101+130	**TY Del**	p	48598.273	0.006	+0.033	9	HP	
29685	2027+138	**YY Del**	p	48521.465	0.008	-0.003	18	APs	CCD
29686			p	48533.360	0.005	-0.004	46	APs	CCD
29687	2025+135	**BH Del**	p	48506.452	0.005	+0.059	15	APs	CCD
29688	2031+149	**BL Del**	p	48503.44	0.01	-0.35	47	APs	CCD, see note on page 7
29689	2050+158	**BS Del**	s	48497.535	0.01	+0.134	36	APs	CCD, normal minimum
29690	2051+155	**BT Del**	p	48497.43	0.02	-0.07	9	APs	CCD
29691	2037+142	**DM Del**	p	48508.513	0.005	-0.021	12	FAc	
29692			p	48509.346	0.001	-0.032	14	FAc	
29693	2037+122	**EQ Del**	p	48532.330	0.005	-0.042	11	APs	CCD
29694			p	48586.269	0.008	-0.056	9	APs	CCD
29695	2052+082	**ET Del**	p	48488.515	0.005	-0.013	50	APs	CCD

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29696	2014+157	**EX Del**	p	48504.378	0.003	-0.130	12	APs	CCD
29697			s	48534.328	0.003	-0.134	14	APs	CCD
29698	1142+725	**Z Dra**	p	48686.505	0.002	-0.070	6	KL	
29699	1926+688	**UZ Dra**	p	48699.490	0.007	0.000	6	KL	
29700	1214+651	**AR Dra**	p	48680.436	0.003	-0.002	8	KL	
29701	1731+572	**CV Dra**	p	48510.403	0.001	-0.005	12	FAc	elem. IBVS No. 3213
29702	1922+698	**DW Dra**	p	48683.568	0.003	0.000	6	KL	elem. BBSAG Bull. 84, p. 6
29703	2115+096	**RZ Equ**	p	48562.285	0.005	-0.881	22	APs	CCD, normal minimum
29704	0419-061	**TZ Eri**	p	48538.596	0.003	+0.080	46	APs	CCD
29705			p	48619.386	0.006	+0.082	11	HP	
29706			p	48653.272	0.003	+0.089	6	KL	
29707	0319-104	**VV Eri**	p	48597.445	0.003	+0.104	16	APs	CCD
29708	0502-076	**WW Eri**	p	48662.15	0.01	+0.05	41	APs	CCD, normal minimum
29709	0321-008	**WX Eri**	p	48598.357	0.004	+0.004	10	HP	
29710			p	48621.410	0.002	+0.005	6	MKo	
29711	0409-105	**YY Eri**	s	48637.338	0.005	+0.043	72	APs	CCD
29712	0410-108	**ZZ Eri**	p	48598.554	0.007	-0.011	26	APs	CCD
29713	0409-119	**BL Eri**	p	48652.342	0.005	+0.010	17	APs	CCD, elem. IBVS No. 2850
29714	0558+231	**RW Gem**	p	48625.351	0.004	+0.004	12	HP	
29715			p	48665.458	0.004	-0.005	6	KL	
29716	0646+332	**RX Gem**	p	48662.365	0.005	+0.034	9	HP	
29717	0629+198	**AC Gem**	p	48652.303	0.006	+0.040	8	HP	
29718	0647+214	**AF Gem**	p	48677.348	0.005	-0.058	9	HP	
29719	0654+209	**AL Gem**	p	48676.3292	0.0030	+0.0295	16	RD	pe, B
29720	0622+180	**BO Gem**	p	48647.445	0.012	+0.255	10	KL	
29721	0644+168	**FG Gem**	p	48628.296	0.008	+0.005	10	HP	
29722			p	48677.438	0.004	-0.001	10	HP	
29723	0749+272	**GW Gem**	p	48677.338	0.005	+0.016	8	HP	
29724	0609+247	**HR Gem**	p	48651.352	0.005	+0.017	8	HP	
29725	1737+329	**SZ Her**	p	48699.495	0.006	-0.022	5	KL	
29726	1615+090	**CC Her**	p	48636.666	0.002	+0.046	10	KL	
29727	1819+144	**MT Her**	p	48691.676	0.008	+0.001	7	KL	
29728	1017-229	**VY Hya**	p	48628.541	0.002	-0.047	8	KL	
29729	0928-187	**AS Hya**	p	48647.449	0.003	-0.015	6	KL	elem. BBSAG Bull. 83, p. 5
29730	0932+055	**AV Hya**	p	48677.387	0.005	-0.019	7	HP	
29731	0825+058	**DE Hya**	p	48647.549	0.011	+0.039	8	KL	
29732	2228+543	**TW Lac**	p	48620.294	0.006	+0.055	8	HP	
29733			p	48623.332	0.005	+0.055	10	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29734	2247+447	**VY Lac**	p	48606.240	0.004	-0.131	7	HP	
29735			p	48636.300	0.005	-0.122	7	HP	
29736	2244+565	**CO Lac**	p	48628.3816	0.0010	-0.0054	32	RD	pe, B
29737	0933+264	**Y Leo**	p	48621.493	0.002	-0.005	7	MKo	
29738			p	48665.332	0.005	-0.004	11	HP	
29739	1035+145	**UV Leo**	p	48700.3886	0.0017	+0.0128	23	RD	pe, B
29740	0959+172	**XZ Leo**	p	48680.4545	0.0012	+0.0097	18	RD	pe, B
29741	1142+250	**BL Leo**	p	48628.485	0.003	-0.003	6	KL	
29742	0557-202	**RS Lep**	p	48682.304	0.006	+0.011	7	KL	
29743	0851+466	**RY Lyn**	p	48624.492	0.006	-0.033	11	MKo	
29744	0900+382	**UV Lyn**	s	48700.4016	0.0017	+0.0143	24	RD	pe, B
29745	0632+088	**RW Mon**	p	48620.414	0.002	0.000	6	MKo	
29746			p	48662.333	0.003	-0.015	10	KL	
29747			p	48662.334	0.005	-0.014	10	HP	
29748	0706+007	**BM Mon**	p	48700.362	0.003	+0.018	10	KL	
29749	0757-033	**BO Mon**	p	48663.388	0.004	-0.042	7	KL	
29750	0700+003	**HM Mon**	p	48712.357	0.007	-0.009	5	KL	
29751	0643+025	**V505 Mon**	p	48668.26	0.05	-0.60	18	MD	
29752	0749-011	**V681 Mon**	p	48712.384	0.009	+0.240	7	KL	elem. BBSAG Bull. 75, p. 4
29753	1756+135	**V508 Oph**	s	48691.659	0.003	+0.004	6	KL	
29754	1754+049	**V566 Oph**	p	48500.405	0.007	+0.018	15	FAc	
29755			p	48507.361	0.008	+0.010	16	FAc	
29756			s	48508.386		+0.010	14	FAc	
29757			p	48509.430	0.002	+0.030	10	FAc	
29758			s	48510.466		+0.042	14	FAc	
29759	0620+139	**CQ Ori**	p	48651.360	0.007	+0.015	24	APs	CCD
29760	0454-036	**EQ Ori**	p	48651.347	0.006	-0.026	8	HP	
29761	0508-086	**ER Ori**	s	48661.4086	0.0015	+0.0124	24	EBI	pe
29762			s	48667.333	0.002	+0.009	21	APs	CCD
29763	0452+013	**ET Ori**	p	48662.313	0.005	+0.007	8	HP	
29764	0532+029	**FF Ori**	p	48652.330	0.005	0.026	8	HP	
29765	0502+092	**FK Ori**	p	48619.344	0.005	+0.011	9	HP	
29766	0548+094	**FR Ori**	p	48655.325	0.003	-0.004	25	APs	CCD
29767	0538+025	**FZ Ori**	s	48651.295	0.007	-0.008	8	HP	
29768	0544+058	**QT Ori**	p	48627.439	0.006	+0.474	6	KL	
29769	0552-093	**V640 Ori**	p	48682.367	0.004	-0.039	7	KL	
29770	2220+160	**BB Peg**	p	48623.287	0.004	+0.004	8	HP	
29771	2137+089	**EE Peg**	p	48507.508	0.002	+0.016	16	FAc	
29772	2312+164	**EY Peg**	p	48628.241	0.006	+1.031	5	KL	elem. BBSAG Bull. 85, p. 5

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29773	0236+419	**Z Per**	p	48651.294	0.010	-0.076	6	KL	
29774			p	48651.304	0.005	-0.065	9	HP	
29775	0320+463	**RT Per**	p	48619.421		+0.025	10	MKo	
29776			p	48620.272	0.005	+0.026	7	HP	
29777			p	48625.376	0.004	+0.034	7	HP	
29778			p	48653.400	0.006	+0.027	8	HP	
29779			p	48659.341	0.002	+0.023	6	KL	
29780	0407+341	**RV Per**	p	48644.291	0.006	-0.016	9	HP	
29781	0256+389	**ST Per**	p	48628.400	0.005	+0.052	12	HP	
29782			p	48644.288	0.005	+0.050	11	HP	
29783			p	48644.292	0.006	+0.053	8	KL	
29784	0335+425	**WY Per**	p	48677.394	0.009	-0.004	7	HP	
29785	0405+464	**XZ Per**	p	48625.322	0.004	-0.017	9	HP	
29786			p	48686.346	0.005	-0.030	8	KL	
29787	0356+480	**IQ Per**	p	48682.4023	0.0016	+0.0031	20	RD	pe, B
29788	0256+437	**IU Per**	p	48621.337	0.008	+0.029	9	MKo	
29789			p	48651.325	0.005	+0.021	7	HP	
29790	0433+441	**KR Per**	s	48606.245	0.006	-0.009	6	HP	
29791	0156+529	**KW Per**	p	48621.418	0.003	+0.002	9	MKo	
29792			p	48623.293	0.007	+0.015	8	HP	
29793			p	48636.323	0.004	+0.007	7	HP	
29794			p	48677.301	0.004	+0.010	7	HP	
29795	0217+542	**DHK 11 Per**	s	48507.351		+0.008	10	FAc	
29796			p	48509.454	0.004	0.000	12	FAc	
29797			p	48602.350	0.003	+0.011	21	MD	elem. IBVS No. 3479
29798			s	48680.4531	0.0015	+0.0070	16	RD	pe, B
29799	0811-238	**XZ Pup**	p	48627.592	0.001	+0.048	14	KL	
29800	0828-229	**SW Pyx**	p	48700.315	0.006	+0.159	7	KL	elem. BBSAG Bull. 91, p. 14
29801	1916+195	**U Sge**	p	48509.335	0.004	+0.015	12	FAc	
29802	1554+224	**AU Ser**	p	48639.643	0.005	-0.017	6	KL	
29803	0400+279	**RW Tau**	p	48652.334	0.004	-0.062	8	HP	
29804			p	48652.338	0.002	-0.058	6	KL	
29805			p	48677.269	0.006	-0.047	8	HP	
29806	0433+186	**RZ Tau**	p	48628.367	0.005	+0.019	9	HP	
29807			p	48653.316	0.004	+0.027	8	HP	
29808	0548+281	**SV Tau**	p	48621.287	0.004	-0.024	9	MKo	
29809	0344+249	**AH Tau**	p	48625.374	0.006	-0.066	7	HP	
29810	0549+162	**AM Tau**	p	48644.286	0.007	-0.004	9	HP	
29811			p	48644.293	0.003	+0.003	5	KL	
29812	0514+200	**CD Tau**	s	48625.374	0.003	+0.005	24	RD	pe, B
29813			p	48661.4407	0.0011	+0.0023	26	EBl	pe
29814	0553+252	**EN Tau**	p	48588.444	0.003	-0.012	12	JVb	
29815			p	48604.551	0.001	-0.012	20	JVb	
29816	0427+254	**GW Tau**	s	48619.382	0.006	-0.024	6	HP	
29817			s	48628.364	0.007	-0.020	9	HP	
29818			s	48653.379	0.007	-0.017	8	HP	

Nr	Design.	Star	Type	O	e.	O-C	n	Obs	Remarks
29819	0404+291	**IL Tau**	p	48628.490	0.006	-0.019	11	KL	
29820	0455+244	**DHK 14 Tau**	p	48628.3395	0.0009	-0.0341	36	RD	pe, B; elem. IBVS No. 3481
29821	0128+301	**V Tri**	p	48564.291		-0.007	6	MKo	
29822			p	48598.236	0.005	-0.004	8	HP	
29823			p	48653.248	0.003	-0.001	6	KL	
29824	0157+276	**X Tri**	p	48623.374	0.004	-0.019	6	HP	
29825	0210+367	**RV Tri**	p	48652.285	0.004	-0.014	7	HP	
29826	1042+458	**TX UMa**	p	48686.3809	0.0007	+0.0946	38	EBI	pe
29827	1334+521	**UX UMa**	p	48686.548	0.001	+0.001	6	KL	
29828	0928+496	**XZ UMa**	p	48587.381		-0.016	6	MKo	
29829			p	48653.385	0.005	-0.017	7	HP	
29830	0943+459	**AA UMa**	p	48677.333	0.004	+0.004	8	HP	
29831	1402-099	**VV Vir**	p	48686.527	0.006	-0.014	7	KL	
29832	1211+120	**AH Vir**	s	48623.6919	0.0022	+0.0609	22	EBI	pe
29833	2033+224	**AY Vul**	p	48598.293	0.006	+0.009	8	HP	
29834	2023+272	**BE Vul**	p	48621.257	0.003	+0.019	8	MKo	
29835	2023+263	**CD Vul**	p	48623.243	0.004	+0.005	7	HP	
29836	2100+276	**ER Vul**	s	48507.375	0.003	-0.007	14	FAc	

On the duration of the minimum and its amplitude of BL Delphini

BL Delphini is an EA type eclipsing binary with a photographic amplitude of one magnitude (15.2 - 16.2; GCVS 1985). The time of minimum given in the table above is based on observations obtained on August 30, September 3 and 7 1991. Due to favourable weather conditions and the period of 3.8 days, a complete coverage of the minimum was possible. The minimum turns out to last 15% of the whole period. All images within $\pm$0.01 of the phase of the minimum were added together, representing about 30 minutes of exposure time. The resulting image shows BL Delphini, but it can not be measured with any reliability. The amplitude must therefore exceed two magnitudes.

A. Paschke

Errata

F. Agerer, the new curator of the BAV data base on eclipsing binaries has asked us to check a number of published timings of minima by the BBSAG, which do not fit the general trend of the O-C values of these stars for printing errors. While some of the discrepancies could not be resolved (they are very probably due to observational errors), in the cases given in the following table, we were able to find the source of error. We would like to thank Mr. Agerer very much for his helpfull cooperation.

The following list is a continuaton of listes of errata given in BBSAG Bulletins No. 54, 58, 60, 63, 65, 75, 82, 85, 89, 96, 97 and 98.

Bulletin	No.	Star	Value in error (O)	Correct value
39	13283	XZ Aql	43767.416	43777.416
39	13444	FZ Del	43777.484	43777.404
45	14689	AR Aur	43821.641	43820.641
55	17226	GP Vul	44761.501	44767.501
56	17641	UX UMa	44791.491	44791.471
58	18134	EW Lyr	44965.242	44956.242
66	20060	W Crv	45460.403	45460.445
68	20374	AK CMi	45337.336	45337.556
69	20862	BN Peg	45648.380	45649.380

Bulletin	No.	Star	Value in error (O)	Correct value
72	21360	V346 Aql	45882.8411	45882.4811
72	21492	RU UMi	45792.445	45792.595
73	21666	FZ Del	45915.510	45915.590
75	22223	KW Per	46049.418	46047.418
83	23892	CC Com	46910.390	46910.359
88	25068	TU Boo	47239.538	47239.496
89	25533	V477 Cyg	47362.483	47362.383
89	25650	FH Lyr	47415.473	47415.373
95	27867	ZZ UMa	48015.401	48013.401
96	27920	BL And	48112.408	48126.408
96	28213	GL Her	48081.432	48089.432
99	29281	OO Aql	48564.215	48564.265
99	29345	DP Cep	Obs: -	Obs: KL

Furthermore, we would like to point out to the reader, that the minima No. 27187 (Bulletin 93) and 28369 (Bulletin 96) of DL Sge by the observer HP must be discarded. The error is due to a misidentification of the two close variables DL and DM Sge.

Period Change of TY Delphini

An exhaustive analysis of 164 times of minimum of the EA/SD type eclipsing binary TY Delphini shows that the elements given by GCVS 1985 are rather correct until September 1979. In September/October 1979 a sudden lengthening of the period of about 0.78 seconds took place.

The new elements with the corresponding mean errors are as follows

Min JD = 2'446'195.753890 + E * 1.191135663 days
0.000381 0.000000434

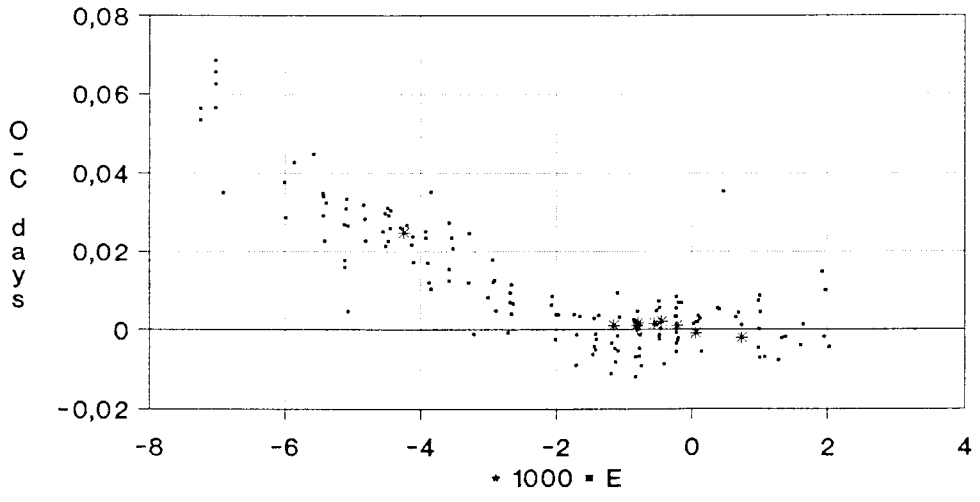
The newly calculated elements before September 1979 with the corresponding mean errors correspond very well with those published in the GCVS 1985.

Min JD = 2'440'858.299698 + E * 1.191126597 days
0.000747 0.000000543

GCVS 1985 2'442'959.4450 + E * 1.19112689 days

The published O-C diagrams refer to the new elements published above and contain the data of all 164 times of minimum.

Niklaus Hasler-Gloor



· Min I vis * Min I pe

2'446'195.753890 + E * 1.191135663

Period Change of AT Pegasi

For this EA/SB type eclipsing variable the 1970 edition of GCVS states a period of 1.146105 days. The 1985 edition of GCVS gives a shorter period of 1.1460764 days.

An exhaustive retrospective analysis of 180 times of minimum shows that the period of AT Pegasi shortened suddenly between March 1974 and August 1979 by 1.54 seconds.

The two sets of elements with the corresponding mean errors found in the analysis are:

until october 1976

Min JD = 2'438'273.423056 + E * 1.146091837
0.001597 0.000000697

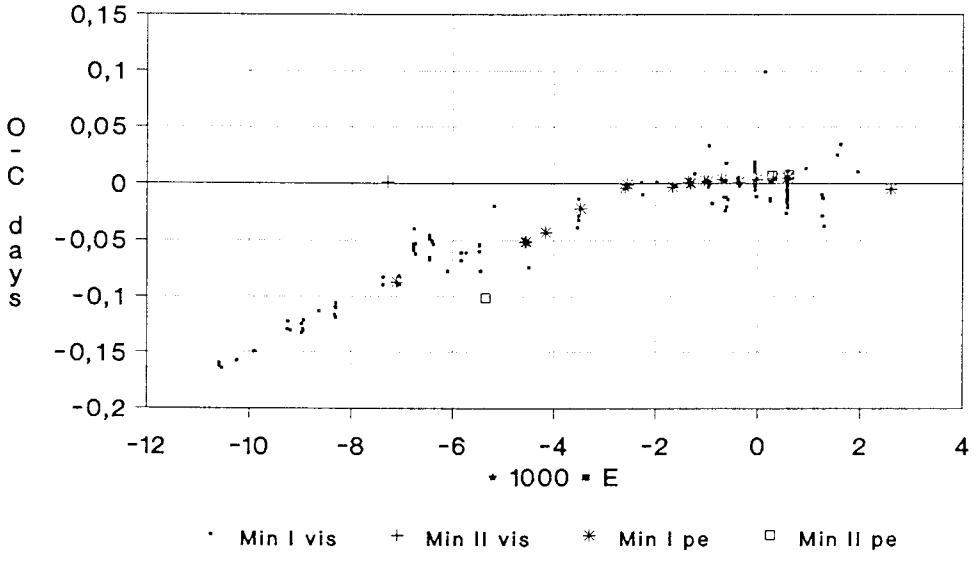
from october 1976 onwards

Min JD = 2'445'640.463906 + E * 1.146074015
0.000633 0.000000602

The period of the second set is very near of the period published in the 1985 edition of the GCVS.

The published O-C diagrams refer to the above published two sets of elements and contain the data of all 180 times of minimum.

Niklaus Hasler-Gloor



2'445'640.463906 + E * 1.146074015