

COMMISSIONS 27 AND 42 OF THE IAU  
INFORMATION BULLETIN ON VARIABLE STARS

Number 5484

Konkoly Observatory  
Budapest

4 December 2003

*HU ISSN 0374 – 0676*

**PHOTOELECTRIC MINIMA OF SELECTED ECLIPSING BINARIES**

(BAV MITTEILUNGEN NO. 158)

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In this 49th compilation of BAV results, photoelectric observations obtained in the years 2002 till 2003 are presented on 247 variable stars giving 581 minima. All moments of the minima are heliocentric. The errors are tabulated in column ‘ $\pm$ ’. The values in column ‘ $O - C$ ’ are determined without incorporation of nonlinear terms. The references are given in the section ‘Remarks’. All information about photometers and filters are specified in the column ‘Rem’. The observations were made at private observatories. The photoelectric measurements and all the light curves with evaluations can be obtained from the office of the BAV for inspection.

**Table 1: Eclipsing binaries**

Variable	Min JD 24...	$\pm$	Obs	$O - C$		Fil	Rem
XZ And	52321.3483	.0007	ATB	+0.1203	GCVS 85		1)
	52530.3718		SIR	+0.1230	GCVS 85	-Ir	10)
AP And	52530.3705	.0002	RAT RCR				1)
BL And	52188.3156	.0001	MS FR	-0.0013	GCVS 85		9)
OT And	51853.3856	.0070	HSR			V	17)
KP Aql	52093.4192	.0010	QU	-0.0124	s GCVS 85	V	14)
OO Aql	52121.4337	.0002	QU	+0.0180	s GCVS 85	V	14)
V418 Aql	52503.4095	.0003	AG				1)
V1355 Aql	52427.4208	.0006	AG				1)
V1542 Aql	52137.4040	.0007	QU	+0.0020	s BAVM 138	V	14)
	52476.4430	.0003	QU	+0.0017	s BAVM 138	V	14)
GSC0471.2133 Aql	52464.5607	.0011	FR	+0.0028	BAVM 156	-Ir	6)
	52475.4268	.0011	FR	-0.0055	s BAVM 156	-Ir	6)
	52476.6038	.0013	FR	-0.0040	s BAVM 156	-Ir	6)
	52484.5433	.0011	FR	+0.0000	BAVM 156	-Ir	6)
	52489.5389	.0028	FR	-0.0007	s BAVM 156	-Ir	6)
	52504.5328	.0006	FR	+0.0042	BAVM 156	-Ir	6) red
	52535.3878	.0030	PRK FR	-0.0005	s BAVM 156		6)
	52556.2603	.0004	FR	+0.0050	BAVM 156		6) red
	52322.2640	.0008	MON	+0.0145	GCVS 85	V	1)
SS Ari	52535.4050	.0002	QU	+0.0089	GCVS 85	V	14)
	52576.4098	.0005	QU	+0.0084	GCVS 85	V	14)
	52617.4140	.0007	QU	+0.0072	GCVS 85	V	14)
	52677.2976	.0017	ATB	+0.0068	s GCVS 85		1)
RY Aur	52344.4266	.0001	RAT RCR	+0.0222	GCVS 85	-Ir	1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
AP Aur	52321.5294	.0003	RAT RCR	+0.0298	s	BAVM 67	1)
	52345.4442	.0047	PC	+0.0311	s	BAVM 67	-Ir 12)
	52361.3865	.0003	RAT RCR	+0.0311	s	BAVM 67	23) 1)
	52367.3638	.0003	AG	+0.0300		BAVM 67	-Ir 1)
AP Aur	52712.4110	.0047	PC	+0.0399		BAVM 67	-Ir 20)
EM Aur	52290.2885	.0008	MON	+0.0079	s	SAC 73	-Ir 1)
	52290.2928	.0020	JU	+0.0122	s	SAC 73	4)
	52310.3337	.0012	MON	+0.0118	s	SAC 73	-Ir 1)
	52371.3813	.0020	JU	+0.0249		SAC 73	4)
	52533.5283	.0001	MS FR	+0.0203		SAC 73	9)
	52628.2682	.0003	FR	+0.0199		SAC 73	6)
	52648.3135	.0014	MON	+0.0240		SAC 73	V 1)
	52280.5166	.0006	RAT RCR	-0.0650		GCVS 85	1)
GI Aur	52376.3673	.0010	RAT RCR			23)	1)
GX Aur	52306.5387	.0007	RAT RCR	+0.0066		BAVM 69	1)
HL Aur	52279.5971	.0001	RAT RCR	-0.0111		GCVS 85	1)
	52349.3176	.0003	RAT RCR	-0.0112		GCVS 85	23) 1)
	52372.3504	.0004	RAT RCR	-0.0112		GCVS 85	23) 1)
	52692.3230	.0002	WTR	-0.0066		GCVS 85	13)
HU Aur	52620.3610	.0003	RAT RCR	-0.0250		GCVS 85	-Ir 1)
IM Aur	52680.3421	.0001	DIE	-0.0823		GCVS 85	8)
IU Aur	52688.4045	.0005	FR	-0.0096		GCVS 85	21)
	52697.4643	.0005	FR	-0.0072		GCVS 85	21)
	52698.3692:	.0010	FR	-0.0080	s	GCVS 85	21)
KU Aur	52344.3752	.0002	JU	+0.0273		GCVS 85	4)
	52344.3754	.0010	MON	+0.0275		GCVS 85	V 1)
	52617.5265	.0010	JU	+0.0262		GCVS 85	4)
	52697.3621	.0090	JU	+0.0274	s	GCVS 85	4)
MO Aur	52617.4086	.0008	FR	+0.0865		BAVM 68	6)
V364 Aur	52619.4394	.0003	AG			-Ir	1)
SS Boo	52744.4272	.0015	AG	+0.0260		GCVS 85	1) red
TY Boo	52362.4000	.0003	AG	-0.0114	s	BAVM 68	1)
	52362.5587	.0001	AG	-0.0113		BAVM 68	1)
	52721.5738	.0001	AG	-0.0109		BAVM 68	1)
	52722.3656	.0016	AG	-0.0120	s	BAVM 68	1)
	52722.5250	.0014	AG	-0.0111		BAVM 68	1)
	52723.4767	.0007	AG	-0.0109		BAVM 68	1)
	52724.4277	.0007	AG	-0.0113		BAVM 68	1)
	52725.3788	.0006	AG	-0.0117		BAVM 68	1)
	52725.5374	.0011	AG	-0.0117	s	BAVM 68	1)
	52726.4882	.0009	AG	-0.0123	s	BAVM 68	1)
	52730.4535	.0003	PRK	-0.0114		BAVM 68	1)
	52730.4537	.0013	AG	-0.0112		BAVM 68	1)
	52743.4569	.0002	AG	-0.0112		BAVM 68	1)
	52746.4698	.0004	AG	-0.0112	s	BAVM 68	1)
	52747.4212	.0004	AG	-0.0113	s	BAVM 68	1)
	52747.5801	.0009	AG	-0.0109		BAVM 68	1)
	52764.3889	.0004	AG	-0.0111		BAVM 68	1)
52764.5473	.0007	AG	-0.0113	s	BAVM 68	1)	
TZ Boo	51879.7205	.0044	HSR PC	-0.0767	s	BAVM 68	17)
	52362.4515	.0013	AG	-0.0766		BAVM 68	1)
	52362.6012	.0006	AG	-0.0755	s	BAVM 68	1)
	52363.4880	.0006	RAT RCR	-0.0802	s	BAVM 68	23) 1)
	52715.4813	.0004	AG	-0.0689		BAVM 68	-Ir 1)
	52721.5731	.0009	AG	-0.0689	s	BAVM 68	1)
	52722.3135	.0022	AG	-0.0714		BAVM 68	1)
	52722.4634	.0015	AG	-0.0700	s	BAVM 68	1)
	52723.3531	.0013	AG	-0.0718	s	BAVM 68	1)
	52723.5044	.0011	AG	-0.0691		BAVM 68	1)
52724.3955	.0011	AG	-0.0694		BAVM 68	1)	

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem	
TZ Boo	52725.4339	.0012	AG	-0.0711	s	BAVM 68	1)	
	52726.4758	.0014	AG	-0.0692		BAVM 68	1)	
	52730.4872	.0008	AG	-0.0695	s	BAVM 68	1)	
	52743.4138	.0011	AG	-0.0692		BAVM 68	1)	
	52743.5619	.0004	AG	-0.0697	s	BAVM 68	1)	
	52746.3852	.0009	AG	-0.0693		BAVM 68	1)	
	52746.5323	.0005	AG	-0.0708	s	BAVM 68	1)	
	52747.4237	.0003	PRK	-0.0709	s	BAVM 68	1)	
	52747.4260	.0008	AG	-0.0686	s	BAVM 68	1)	
	52747.5737	.0023	AG	-0.0695		BAVM 68	1)	
	52764.3617	.0036	AG	-0.0708	s	BAVM 68	1)	
	52764.5132	.0004	AG	-0.0679		BAVM 68	1)	
	UW Boo	52352.3448	.0001	DIE	-0.0098		GCVS 85	8)
52361.3942		.0007	DIE	-0.0028		GCVS 85	8)	
52362.3942		.0013	DIE	-0.0075		GCVS 85	8)	
52364.4092		.0002	AG	-0.0020		GCVS 85	1)	
VW Boo	52411.5187	.0005	AG	-0.0291	s	BAVR 32)	BV 1)	
	52716.5208	.0004	AG	-0.0340	s	BAVR 32)	-Ir 1)	
XY Boo	52395.4142	.0005	AG	-0.0215		GCVS 85	-Ir 1)	
	52717.4439	.0019	AG	+0.0031		GCVS 85	1)	
AC Boo	52073.4985	.0015	QU	+0.0169	s	GCVS 85	V 14)	
	52367.4370	.0005	MS	+0.0293	s	GCVS 85	9)	
	52372.3719	.0004	MS	+0.0302	s	GCVS 85	9)	
	52410.4352	.0004	QU	+0.0311	s	GCVS 85	V 14)	
AQ Boo	52784.3776	.0007	WTR	+0.0459	s	GCVS 85	13)	
	51262.5888	.0012	AG				BV 1)	
	51278.4144	.0004	AG				1)	
	51278.5804	.0004	AG				1)	
	51301.4008	.0002	AG				1)	
	51301.5657	.0005	AG				1)	
	52031.4740	.0004	AG				1)	
	52371.4443	.0018	AG				-Ir 1)	
	52716.4051	.0013	AG				1)	
	52717.4065	.0007	AG				1)	
	CV Boo	51626.4623	.0018	HSR	-0.0119		BAVR 38)	16)
		52094.4274	.0005	QU	-0.0107	s	BAVR 38)	V 14)
		52363.3483	.0007	DIE	-0.0103		BAVR 38)	8)
52407.3919		.0004	QU	-0.0103		BAVR 38)	V 14)	
52415.4377		.0004	JU	-0.0110	s	BAVR 38)	4)	
52415.4386		.0004	QU	-0.0101	s	BAVR 38)	V 14)	
52423.4844		.0035	JU	-0.0107		BAVR 38)	4)	
52685.6268		.0003	MON	-0.0128	s	BAVR 38)	V 1)	
52722.4733		.0004	AG	-0.0105		BAVR 38)	1)	
52723.3218		.0054	AG	-0.0090		BAVR 38)	1)	
52725.4379		.0005	AG	-0.0104	s	BAVR 38)	1)	
52730.5197		.0008	AG	-0.0105	s	BAVR 38)	1)	
52744.4952		.0007	AG	-0.0104		BAVR 38)	-Ir 1)	
52764.3992		.0001	AG	-0.0108	s	BAVR 38)	1)	
52767.3640	.0007	JU	-0.0105		BAVR 38)	14)		
EW Boo	52362.4537	.0015	AG				1)	
GN Boo	52370.4040	.0003	MS				9)	
	52370.5560	.0003	MS				9)	
SV Cam	52327.5277	.0011	JU	+0.0416		GCVS 85	4)	
	52368.4530	.0009	JU	+0.0450		GCVS 85	4)	
	52683.3713	.0013	JU	+0.0432		GCVS 85	4)	
	52694.3391	.0025	JU	+0.0392	s	GCVS 85	4)	
AL Cam	52344.5512	.0004	RAT RCR	-0.0238		GCVS 85	-Ir 1)	
	52619.5178	.0006	RAT RCR	-0.0222		GCVS 85	-Ir 1)	
	52680.6202	.0024	PC	-0.0231		GCVS 85	-Ir 19)	
	52696.5602	.0001	AG	-0.0231		GCVS 85	-Ir 1)	

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
AZ Cam	52722.4622	.0002	AG	+0.0228	GCVS 85	-Ir	1)
WW Cnc	52693.5093	.0021	ATB	-0.0560	BAVR 31)		1)
WX Cnc	52322.5460	.0002	RAT RCR	+0.0102	GCVS 85	-Ir	1)
WY Cnc	52371.4026	.0021	ATB	-0.0208	GCVS 85		1)
	52376.3817	.0010	MZ	-0.0179	GCVS 85	-Ir	11)
FF Cnc	52339.5178	.0002	FR	-0.1028	BAVM 65	-Ir	6)
	52591.5708	.0019	FR	-0.1093	s BAVM 65		6)
	52703.3726	.0011	PRK	-0.1135	BAVM 65		1)
GSC1377.0969 Cnc	51955.3906	.0002	MS FR	+0.0002	s BAVM 150		9) 26)
	51956.3789	.0001	MS FR	-0.0005	s BAVM 150		9) 26)
	51968.4933	.0005	FR	-0.0017	BAVM 150		6)
	52000.3928	.0010	FR	+0.0017	s BAVM 150		6)
	52001.3793	.0010	FR	-0.0009	s BAVM 150		6)
	52321.3295	.0003	MS	-0.0012	s BAVM 150		9)
GSC1377.0969 Cnc	52338.3913	.0008	FR	-0.0002	BAVM 150	-Ir	6)
	52727.3253	.0006	FR	-0.0015	s BAVM 150		21)
GSC1927.0862 Cnc	52704.2904	.0019	FR				21)
	52707.5122	.0006	FR				21)
RV CVn	52373.3897	.0005	AG				1)
	52373.5248	.0014	AG				1)
	52715.4699	.0015	AG				1)
BI CVn	52373.4775	.0003	AG	+0.0284	GCVS 85	-Ir	1)
GSC0766.1248 CMi	51924.4336	.0001	MS FR	+0.0003	BAVM 156		9) 26)
	51951.3623	.0020	MS FR	+0.0018	BAVM 156		9) 26)
	51955.2877	.0002	MS FR	+0.0003	s BAVM 156		9) 26)
GSC0763.0572 CMi	52336.3877	.0001	MS FR	+0.0000	BAVM 156		9)
	52361.3322	.0001	MS FR	+0.0008	s BAVM 156		9)
	52362.3947	.0015	MS FR	-0.0027	BAVM 156		9)
AB Cas	52140.4882	.0002	QU	+0.0638	GCVS 85	V	14)
	52535.5197	.0002	QU	+0.0687	GCVS 85	V	14)
BZ Cas	52505.5302	.0001	RAT RCR			-Ir	1)
CW Cas	52505.4286	.0001	RAT RCR	-0.0058	GCVS 85	-Ir	1)
	52698.3393	.0004	AG	+0.0038	GCVS 85		1)
	52698.4995	.0003	AG	+0.0045	s GCVS 85		1)
IL Cas	52484.4868	.0019	MON	-0.0598	GCVS 85	V	1)
	52567.3305	.0033	JU	-0.0580	GCVS 85		4)
IT Cas	52483.4700	.0007	MON	+0.0019	s SAC 69	V	1)
	52555.3605	.0009	JU	-0.0001	SAC 69		4)
MN Cas	52618.4604	.0006	AG	+0.0092	GCVS 85	-Ir	1)
OX Cas	52531.4146	.0024	MON	-0.0073	GCVS 85	V	1)
PV Cas	52489.4147	.0009	MON	+0.0009	SAC 73	V	1)
	52532.3272	.0011	MON	-0.0010	s SAC 73	V	1)
V344 Cas	49643.2783	.0011	MS	-0.0844	GCVS 85		1)
	49644.2773	.0004	MS	-0.0862	GCVS 85		1)
	49645.2790	.0007	MS	-0.0852	GCVS 85		1)
	49690.353 :	.010	AG	-0.045	GCVS 85		1)
V359 Cas	52146.5333	.0002	MS FR	-0.0043	BAVM 132		9)
V361 Cas	52228.2872	.0002	MS FR	-0.1724	GCVS 85		9)
V473 Cas	52618.4293	.0011	AG	-0.0061	s BAVM 115	-Ir	1)
	52618.6347	.0010	AG	-0.0084	BAVM 115	-Ir	1)
WW Cep	52556.3769	.0050	AG	+0.0013	BAVM 71	-Ir	1)
AV Cep	52368.5258	.0002	AG			-Ir	1)
CW Cep	52549.2981	.0009	MON	-1.3587	GCVS 85	V	1)
GW Cep	52502.5070	.0003	RAT RCR	-0.0175	BAVR 34)	-Ir	1)
NR Cep	52483.4502	.0008	RAT RCR	-0.0291	GCVS 85	-Ir	1)
NS Cep	52719.6031	.0005	AG	+0.1114	s GCVS 85		1)
OT Cep	52718.5156	.0001	AG	-0.0014	BAVM 142		1)
RZ Com	52367.3278	.0003	RAT RCR	+0.0342	GCVS 85	23)	1)
	52370.3756	.0002	RAT RCR	+0.0355	GCVS 85	23)	1)
	52371.3908	.0002	RAT RCR	+0.0351	GCVS 85	23)	1)

Table 1: (cont.)

Variable	Min JD 24. ..	$\pm$	Obs	$O - C$		Fil	Rem
RZ Com	52747.4729	.0011	AG	+0.0370	GCVS 85	-Ir	1)
SS Com	52401.451	.001	AG	+0.082	BAVR 33)		1)
	52704.4616	.0006	AG	+0.0904	BAVR 33)		1)
	52743.4739	.0008	AG	+0.0923	s BAVR 33)	-Ir	1)
CC Com	52721.3429	.0003	DIE	-0.0108	GCVS 85		8)
EQ Com	52704.5050	.0006	AG				1)
LL Com	52373.3572	.0022	AG				1)
	52373.5626	.0010	AG				1)
	52723.5088	.0014	AG			-Ir	1)
RW CrB	52721.5237	.0003	PRK	-0.0135	GCVS 85		1)
TW CrB	52373.4913	.0001	RAT RCR			-Ir	1)
WZ Cyg	52546.4087	.0007	WTR	+0.0546	GCVS 85		13)
ZZ Cyg	52520.4563	.0002	RAT RCR	-0.0392	GCVS 85	-Ir	1)
BR Cyg	52442.5056	.0002	QU	+0.0003	GCVS 85	V	14)
CV Cyg	52548.3739	.0025	JU	-0.0078	s SAC 68		4)
KR Cyg	52411.4782	.0007	FR	+0.0071	GCVS 85	-Ir	6)
	52427.533	.001	QU	+0.004	GCVS 85	V	14)
	52531.4839	.0003	PRK FR	+0.0012	GCVS 85		6)
	52576.2812	.0005	FR	+0.0055	GCVS 85		6)
NZ Cyg	52530.5692	.0009	RAT RCR			-Ir	1)
V346 Cyg	52456.5073	.0043	PC	+0.0745	GCVS 85	-Ir	12)
V454 Cyg	52428.4463	.0016	AG				1)
V488 Cyg	52451.4659	.0005	FR	+0.0903	s GCVS 85	-Ir	6)
	52509.4803	.0005	FR	+0.0916	GCVS 85		9)
	52511.4417	.0018	FR	+0.0911	s GCVS 85		9)
V493 Cyg	50314.5607	.0002	AG				1)
	50712.3876	.0003	AG				1)
	52112.4347	.0009	AG				1)
V501 Cyg	52557.3452	.0018	AG	-0.1912	GCVS 85		1)
V505 Cyg	52557.3589	.0006	AG	+0.1060	s GCVS 85		1)
V628 Cyg	52476.4366	.0003	AG	-0.0019	BAVM 89		1)
V651 Cyg	52476.3843	.0017	AG				1)
V704 Cyg	52476.4124	.0008	AG	+0.0311	GCVS 85		1)
V940 Cyg	52416.4064	.0003	AG				1)
V981 Cyg	52416.3853	.0007	AG				1)
V1196 Cyg	52455.4633	.0007	AG			-Ir	1)
V1411 Cyg	52503.4722	.0012	AG	+0.1941	GCVS 85	-Ir	1)
V2181 Cyg	50751.1944	.0004	FR	+0.0011	BAVR 46)		6) red
	50751.4748	.0013	FR	-0.0052	s BAVR 46)		6) red
	50753.4875	.0003	FR	+0.0003	BAVR 46)		6) red
	50755.2083	.0003	FR	+0.0006	BAVR 46)		6)
	52095.4373	.0010	QU	+0.0036	BAVR 46)	V	14)
	52411.4263	.0012	FR	+0.0043	BAVR 46)	-Ir	6)
	52427.4843	.0004	QU	+0.0048	BAVR 46)	V	14)
	52448.4117	.0009	FR	+0.0002	s BAVR 46)	-Ir	6)
	52495.4448	.0021	FR	+0.0078	s BAVR 46)	-Ir	6)
	52509.4936	.0002	FR	+0.0063	BAVR 46)		9)
	52510.3574	.0019	FR	+0.0098	s BAVR 46)		9)
	52524.4045	.0032	PRK FR	+0.0066	BAVR 46)		6)
	52526.4044	.0036	PRK FR	-0.0006	s BAVR 46)		6)
	52536.4468	.0012	PRK FR	+0.0059	BAVR 46)		6)
	52576.3036	.0012	FR	+0.0057	s BAVR 46)		6)
YY Del	52531.3496	.0006	DIE	+0.0078	GCVS 85		8)
TW Dra	52652.3007	.0028	SCI	+0.0319	GCVS 85		4)
TZ Dra	52747.4622	.0017	SCI	-0.0157	GCVS 85		4)
AI Dra	52366.660	.001	SCI	+0.007	GCVS 85		18)
	52721.5200	.0015	SCI	+0.0174	GCVS 85		4)
AR Dra	52409.3817	.0005	AG			-Ir	1)
	52689.5163	.0001	AG			-Ir	1)
AU Dra	52375.3631	.0005	MS				9)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
AU Dra	52375.6206	.0004	MS				9)
AX Dra	52409.4489	.0007	AG	-0.0040	BAVR 31)	-Ir	1)
	52722.5070	.0022	PC	-0.0039	BAVR 31)	-Ir	20)
	52726.4851	.0002	AG	-0.0029	BAVR 31)	-Ir	1)
BE Dra	52369.4544	.0003	AG	+0.1148	GCVS 85		1)
	52718.4818	.0003	AG	+0.1182	GCVS 85	-Ir	1)
BU Dra	52411.5144	.0001	AG	+0.0183	MVS 12,4	-Ir	1)
BX Dra	52401.4508	.0008	AG	+0.0087	s BAVM 82	-Ir	1)
EF Dra	52369.4948	.0003	AG	+0.0205	s BAVM 63		1)
	52718.4702	.0004	AG	+0.0242	s BAVM 63	-Ir	1)
AH Gem	51901.3494	.0022	FR				6)
	51901.5217	.0015	FR				6)
	51901.6874	.0007	FR				6)
	51925.4319	.0004	FR				6)
	52672.3632	.0018	FR				21)
	52672.5344	.0009	FR				21)
	52680.2756	.0004	FR				21)
	52680.4470	.0009	FR				21)
	52691.3886	.0010	AG			-Ir	1)
	52692.3998	.0007	AG			-Ir	1)
	52716.3097:	.0020	AG			-Ir	1)
	52721.3612	.0004	AG				1)
AI Gem	51901.6658	.0015	FR				6)
	51925.5639	.0001	FR				6)
	52371.3208	.0008	FR			-Ir	6)
	52680.5519	.0004	FR				21)
	52691.4154	.0018	AG			-Ir	1)
	52707.3515	.0022	AG			-Ir	1)
	52716.4005	.0012	AG			-Ir	1)
AZ Gem	49398.4122		MS	+0.0687	GCVS 85		1)
	49723.4101		MS	+0.0695	GCVS 85		1)
	49793.3414	.0002	AG	+0.0711	s GCVS 85		1)
	50105.2568		MS	+0.0698	s GCVS 85		1)
	50845.3083	.0001	MS	+0.0737	GCVS 85		1)
	50848.3261	.0004	AG	+0.0729	GCVS 85		1)
	51176.3420	.0003	AG	+0.0732	GCVS 85		1)
	52313.3328	.0007	AG	+0.0772	GCVS 85	V	1)
EY Gem	52721.3213	.0011	AG	-0.2073	s GCVS 85		1)
FG Gem	52690.3194	.0007	AG	-0.0323	GCVS 85	-Ir	1)
	52692.3728	.0016	AG	-0.0267	s GCVS 85	-Ir	1)
	52694.4152	.0003	AG	-0.0321	GCVS 85	-Ir	1)
GX Gem	52722.3877	.0007	PRK	+0.0577	GCVS 85		1)
	52726.4250	.0030	JU	+0.0449	GCVS 85		4)
HR Gem	52308.2715	.0001	RAT RCR			-Ir	1)
KQ Gem	52690.4070	.0024	AG			-Ir	1)
	52691.4227	.0019	AG			-Ir	1)
	52692.4453	.0010	AG			-Ir	1)
	52694.2792	.0003	AG			-Ir	1)
	52694.4871	.0005	AG			-Ir	1)
	52707.3375	.0009	AG			-Ir	1)
	52716.3128:	.0034	AG			-Ir	1)
	52690.3810	.0005	AG	-0.0405	s GCVS 85	-Ir	1)
	52690.5576	.0013	AG	+0.0268	GCVS 85	-Ir	1)
	52691.2757	.0009	AG	-0.0200	s GCVS 85	-Ir	1)
	52691.4562	.0001	AG	+0.0512	GCVS 85	-Ir	1)
	52692.3516	.0009	AG	-0.0369	s GCVS 85	-Ir	1)
	52692.5310	.0019	AG	+0.0333	GCVS 85	-Ir	1)
	52694.3242	.0012	AG	-0.0312	s GCVS 85	-Ir	1)
	52694.5028	.0006	AG	+0.0381	GCVS 85	-Ir	1)
	52697.3714	.0022	AG	-0.0436	s GCVS 85	-Ir	1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
KV Gem	52707.4094	.0006	AG	+0.0505	GCVS 85	-Ir	1)
	52716.3731	.0009	AG	-0.0555	s GCVS 85	-Ir	1)
	52721.3934	.0003	AG	+0.0475	GCVS 85		1)
MR Gem	52680.3852	.0023	FR				21)
TX Her	52100.4770	.0010	QU	+0.0014	s GCVS 85	V	14)
AK Her	52513.3343	.0032	SG	+0.0066	GCVS 85	V	5)
DK Her	52425.3867	.0002	AG	-0.0854	GCVS 85	-Ir	1)
LT Her	52426.5059	.0011	AG	-0.0129	BAVM 69	-Ir	1)
MS Her	51323.5057	.0012	AG	-0.1272	GCVS 85		1)
	51386.4357	.0017	AG	-0.1445	GCVS 85		1)
	51389.4753	.0005	AG	-0.1313	GCVS 85		1)
	51675.4954	.0012	AG	-0.0977	s GCVS 85		1)
	51705.4404	.0005	AG	-0.1132	GCVS 85		1)
	52119.4954	.0009	AG	-0.0579	GCVS 85		1)
	52763.4638	.0004	PRK	+0.0641	GCVS 85		1)
V502 Her	52410.4754	.0005	RAT RCR			23)	1)
	52489.5014	.0004	RAT RCR			-Ir	1)
V718 Her	52408.4615	.0017	AG			-Ir	1)
V728 Her	52100.5578	.0010	QU	+0.0274	BAVM 51	V	14)
	52366.5992	.0003	AG	+0.0274	s BAVM 51		1)
	52741.5110	.0010	AG	+0.0305	BAVM 51	-Ir	1)
V733 Her	52371.5551	.0005	RAT RCR			23)	1)
	52408.4989	.0029	AG			-Ir	1)
V842 Her	51326.4894	.0004	AG	-0.0030	BAVR 45)	BV	2)
	51430.419 :	.008	MZ	+0.005	BAVR 45)		7)
	51433.355 :	.005	MZ	+0.007	BAVR 45)		7)
	51786.387 :	.002	AG	-0.003	s BAVR 45)	BV	2)
	52426.4670	.0006	JU	-0.0072	BAVR 45)		4)
	52452.4460	.0005	JU	-0.0088	BAVR 45)		4)
WY Hya	52306.3428	.0002	RAT RCR	+0.0208	GCVS 85	23)	1)
SW Lac	52584.4911	.0014	ATB	-0.0859	GCVS 85		1)
TW Lac	52195.4558	.0005	FR	+0.1765	GCVS 85	-Ir	6) red
	52368.5965	.0004	FR	+0.1845	GCVS 85	-Ir	6)
ZZ Lac	52197.5271	.0008	FR			-Ir	6)
	52483.6023	.0008	FR			-Ir	6)
	52486.4895	.0012	FR			-Ir	6)
AG Lac	52506.4428	.0042	AG			-Ir	1)
CO Lac	52485.4330	.0004	MON	-0.0024	SAC 73	V	1)
	52536.3248	.0011	MON	-0.0035	SAC 73	V	1)
	52546.3770	.0003	MON	+0.0243	s SAC 73	V	1)
EM Lac	51385.4470	.0009	AG	+0.0432	GCVS 85		1)
	51780.4193	.0002	RAT RCR	+0.0451	GCVS 85		1)
	51926.3457	.0005	AG	+0.0465	GCVS 85		1)
	52146.4017	.0017	AG	+0.0475	s GCVS 85		1)
	52146.594 :	.007	AG	+0.045	GCVS 85		1)
	52148.5412	.0036	AG	+0.0468	GCVS 85		1)
	52150.4857	.0005	AG	+0.0456	GCVS 85		1)
	52267.4212	.0009	AG	+0.0465	s GCVS 85	-Ir	1)
HR Lac	52456.5173	.0070	AG			-Ir	1)
	52503.4985	.0023	AG			-Ir	1)
IM Lac	49606.358 :	.003	AG	-0.143	GCVS 85		1)
	51393.4507	.0004	AG	-0.1527	GCVS 85		1)
	51771.4184	.0011	AG	-0.1527	GCVS 85		1)
IM Lac	51814.5377	.0007	AG	-0.1572	GCVS 85		1)
	51816.4420	.0012	AG	-0.1554	s GCVS 85		1)
	52133.5247	.0009	AG	-0.1597	s GCVS 85		1)
	52194.4048	.0021	AG	-0.1603	s GCVS 85		1)
IP Lac	52503.5797	.0116	AG			-Ir	1)
IU Lac	52621.3002	.0026	AG			-Ir	1)
IZ Lac	52503.4622	.0019	AG			-Ir	1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
IZ Lac	52621.3090	.0036	AG			-Ir	1)
NR Lac	52280.2952	.0003	RAT RCR			-Ir	1)
V342 Lac	52505.4797	.0018	AG			-Ir	1)
	52621.4295	.0040	AG			-Ir	1)
V344 Lac	51786.4683	.0007	AG				1)
	51806.4738	.0002	RAT RCR				1)
	51817.4552	.0009	AG				1)
	51817.651 :	.005	AG				1)
	52123.4064	.0007	AG				1)
	52134.3950	.0022	AG				1)
	52134.586 :	.003	AG				1)
	52194.4006	.0018	AG				1)
	52194.5965	.0013	AG				1)
	52228.3320	.0018	AG				1)
	52228.5257	.0001	AG				1)
	52505.4496	.0007	AG			-Ir	1)
	52621.3567	.0010	AG			-Ir	1)
V441 Lac	52505.4952	.0020	AG	+0.0388	BAVM 135	-Ir	1)
	52617.3218	.0038	AG	+0.0457	BAVM 135	-Ir	1)
	52621.3363	.0023	AG	+0.0446	BAVM 135	-Ir	1)
Y Leo	52339.3704	.0001	RAT RCR	+0.0178	GCVS 85	-Ir	1)
	52371.4061	.0004	QU	+0.0176	GCVS 85		14)
	52693.4490	.0003	JU	+0.0150	GCVS 85		4)
	52720.4264	.0004	MON	+0.0148	GCVS 85	V	1)
UV Leo	52333.3112	.0005	DIE	+0.0001	BAVM 77		8)
	52339.3126	.0004	DIE	+0.0005	BAVM 77		8)
	52639.3610	.0003	DIE	+0.0058	BAVM 77		8)
	52696.3643	.0002	DIE	+0.0008	BAVM 77		8)
	52723.3672	.0005	DIE	-0.0002	BAVM 77		8)
WZ Leo	52703.3329	.0003	AG	-0.2301	s GCVS 85	-Ir	1)
XX Leo	52703.3700	.0012	AG	-0.0408	s GCVS 85	V	1)
	52719.3908	.0008	AG	-0.0405	GCVS 85	-Ir	1)
XY Leo	52721.3989	.0007	AG	+0.0141	s GCVS 85	-Ir	1)
	52721.5408	.0005	AG	+0.0139	GCVS 85	-Ir	1)
XZ Leo	52322.3948	.0001	RAT RCR	+0.0320	GCVS 85	-Ir	1)
	52721.3633	.0004	AG	+0.0332	GCVS 85	-Ir	1)
	52721.6096	.0003	AG	+0.0356	s GCVS 85	-Ir	1)
AL Leo	52721.4439	.0005	AG	+0.0102	BAVM 53	-Ir	1)
AM Leo	52322.3645	.0004	DIE	-0.0006	GCVS 85		8)
	52344.3147	.0005	DIE	+0.0017	GCVS 85		8)
	52373.3957	.0002	MZ	+0.0018	s GCVS 85	-Ir	11)
	52683.4106	.0004	DIE	+0.0034	GCVS 85		8)
	52719.4402	.0022	SCI	+0.0020	s GCVS 85		4)
	52724.3811	.0004	DIE	+0.0046	GCVS 85		8)
	52730.4154		BRN STK	+0.0032	s GCVS 85	-Ir	14)
	52736.4516		BRN STK	+0.0038	GCVS 85	-Ir	14)
	52750.3516	.0003	DIE	+0.0035	GCVS 85		8)
CE Leo	52745.4189	.0009	AG			-Ir	1)
	52745.5708	.0010	AG			-Ir	1)
T LMi	52693.3436	.0005	AG	-0.0666	GCVS 85	-Ir	1)
RT LMi	52339.5564	.0003	RAT RCR	-0.0036	GCVS 85	-Ir	1)
	52693.4768	.0001	AG	-0.0058	GCVS 85	-Ir	1)
	52693.6635	.0005	AG	-0.0065	s GCVS 85	-Ir	1)
	52744.4651	.0002	PRK	-0.0063	GCVS 85		1)
KQ Lib	52395.4616	.0017	FR	-0.0002	s BAVM 137	-Ir	6)
SW Lyn	52280.6190	.0001	RAT RCR	+0.0315	GCVS 85	-Ir	1)
	52364.3487	.0005	DIE	+0.0329	GCVS 85		8)
SX Lyn	52368.4002	.0001	AG	-0.0112	GCVS 85		1)
	52372.4445	.0001	RAT RCR	-0.0118	GCVS 85	23)	1)
	52730.4242	.0004	AG	-0.0096	GCVS 85	-Ir	1)



Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
TY Lyn	52369.5219	.0005	AG	+0.0712		GCVS 85	-Ir 1)
	52746.3687	.0002	PRK	+0.0640		GCVS 85	1)
CD Lyn	52698.3853	.0010	JU	-0.0002		IBVS 4911	4)
	52723.4078	.0017	JU	+0.0002	s	IBVS 4911	4)
DE Lyn	52368.3574	.0004	AG				1)
	52368.5600	.0003	AG				1)
	52695.6163	.0003	AG				-Ir 1)
	52730.3656	.0006	AG				-Ir 1)
TZ Lyr	52363.5572	.0007	RAT RCR	+0.0008		GCVS 85	23) 1)
	52416.4408	.0009	AG	+0.0017		GCVS 85	-Ir 1)
	52526.4347	.0001	RAT RCR	-0.0004		GCVS 85	-Ir 1)
	52720.5171	.0002	PRK	+0.0025		GCVS 85	1)
EW Lyr	52513.4333	.0004	RAT RCR	+0.2330		GCVS 85	-Ir 1)
FL Lyr	52806.4725	.0002	QU	-0.0019		GCVS 85	V 14)
V406 Lyr	52416.4024	.0004	AG	-0.0188		BAVM 72	-Ir 1)
RW Mon	52680.3475	.0001	AG	-0.0468		GCVS 85	-Ir 1)
HM Mon	52683.3404	.0002	AG	-0.0013		GCVS 85	-Ir 1)
IZ Mon	52688.3091	.0002	AG				-Ir 1)
NS Mon	52680.3465	.0003	AG	+0.0068		BAVM 76	-Ir 1)
V395 Mon	52308.3600	.0032	MS FR				9)
V496 Mon	52695.3848	.0017	AG	-0.0280		GCVS 85	-Ir 1)
V714 Mon	52308.2734	.0001	MS FR				9)
	52695.3295	.0011	AG				-Ir 1)
U Oph	52489.4547		SG	+0.0012		GCVS 85	V 5)
V449 Oph	52483.5022	.0016	AG	+0.0791	s	GCVS 85	-Ir 1)
V2357 Oph	52426.5320	.0013	AG				-Ir 1)
EF Ori	52619.4200	.0006	FR				6)
EW Ori	52689.4144	.0005	QU	+0.0032		SAC 70	V 14)
FT Ori	52296.3852	.0004	JU	+0.0096		GCVS 85	4)
	52692.3848	.0019	MON	-0.0924	s	GCVS 85	V 1)
	52693.3383	.0003	MON	+0.0104		GCVS 85	V 1)
	52715.3913	.0001	QU	+0.0105		GCVS 85	V 14)
GU Ori	52619.5214	.0004	FR				6)
V648 Ori	52619.3879	.0002	RAT RCR	+0.0497		GCVS 85	-Ir 1)
V1633 Ori	52258.4868	.0004	MS	-0.2045		BAVM 125	9)
U Peg	52501.4415	.0005	QU	-0.0894	s	GCVS 87	V 14)
VW Peg	52547.5689	.0004	FR	-4.7739	s	BAVM 129	6)
BX Peg	52505.4453	.0021	AG	-0.0620	s	GCVS 87	1)
	52505.5859	.0009	AG	-0.0616		GCVS 87	1)
	52510.4923	.0008	AG	-0.0626	s	GCVS 87	1)
BY Peg	52505.4339	.0015	AG				1)
	52510.3941	.0014	AG				1)
	52510.5644	.0011	AG				1)
CC Peg	52505.3409	.0005	AG	-0.0018		BAVM 133	1)
	52510.4911	.0020	AG	+0.0008	s	BAVM 133	1)
CF Peg	52505.5070	.0034	AG				1)
	52510.4627	.0013	AG				1)
DI Peg	52530.3191	.0005	DIE	-0.0174		GCVS 87	8)
	52567.3312	.0021	SCI	-0.0198		GCVS 87	4)
DK Peg	52555.4779	.0003	QU	+0.0625		GCVS 87	V 14)
EU Peg	52150.4268	.0002	MS FR	+0.0346		GCVS 87	9)
KW Peg	52505.4998	.0012	AG				1)
	52510.3966	.0018	AG				1)
ST Per	52619.5239	.0006	SCI	+0.1647		GCVS 87	4)
AG Per	52685.3134	.0035	JU	+0.0006		SAC 69	4)
	52688.4111	.0005	JU	+0.0552	s	SAC 69	4)
	52689.3706	.0040	JU	+0.0004		SAC 69	4)
HW Per	52542.5111	.0001	MS FR	+0.0222		GCVS 87	9)
II Per	52696.4272	.0007	AG				-Ir 1)
IK Per	52696.3836	.0006	AG	-0.1213	s	GCVS 87	-Ir 1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
IQ Per	52694.3605	.0003	QU	+0.0065		GCVS 87	V 14)
KW Per	52618.3890	.0002	RAT RCR	+0.0100		GCVS 87	-Ir 1)
PS Per	52531.5507	.0002	MS FR				9)
V462 Per	52279.4433	.0008	RAT RCR				-Ir 1)
V482 Per	52724.3527	.0005	AG	+0.1728		BAVM 68	-Ir 1)
AU Ser	52365.4503	.0005	RAT RCR				23) 1)
	52365.6449	.0005	RAT RCR				23) 1)
CC Ser	52410.4018	.0006	AG	-0.0016	s	GCVS 87	-Ir 1)
LX Ser	52410.4707	.0002	AG				1)
VY Sex	52309.4066	.0005	RAT RCR				1)
AH Tau	52689.2896	.0003	AG				-Ir 1)
AL Tau	52685.458	.002	QU				V 14)
AM Tau	52321.2627	.0006	DIE	-0.0504		GCVS 87	8)
	52695.3012	.0015	DIE	-0.0503		GCVS 87	8)
CU Tau	52319.3834	.0035	HSR	+0.0851		GCVS 87	15)
EN Tau	51569.552	.001	QU	-0.007		GCVS 87	-Ir 14)
	52279.5166	.0006	JU	-0.0064		GCVS 87	4)
	52652.4661	.0030	JU	-0.0046		GCVS 87	4)
	52688.3985	.0005	QU	-0.0041		GCVS 87	V 14)
	52693.3539	.0004	PRK FR	-0.0048		GCVS 87	1)
	52693.3543	.0005	QU	-0.0044		GCVS 87	V 14)
EQ Tau	52338.3396	.0003	MZ	-0.0247		GCVS 87	-Ir 11)
	52620.2916	.0002	RAT RCR	-0.0266		GCVS 87	-Ir 1)
GR Tau	52320.3132	.0001	DIE	-0.0255		BAVR 35)	8)
GSC0669.0674 Tau	52307.3134	.0006	FR	-0.0079	s	BAVM 150	-Ir 6)
	52320.3137	.0005	MS	-0.0010		BAVM 150	9)
GSC1830.1432 Tau	52717.3328	.0012	PRK				1)
RV Tri	52280.4293	.0001	RAT RCR	-0.0202		GCVS 87	-Ir 1)
W UMa	52009.3922		PTT	-0.0383		GCVS 87	-Ir 22)
	52032.4221		PTT	-0.0294		GCVS 87	-Ir 22)
	52041.4206		PTT	-0.0391		GCVS 87	-Ir 22)
	52289.3115		PTT	-0.0408		GCVS 87	-Ir 22)
	52309.3294		PTT	-0.0412		GCVS 87	-Ir 22)
	52310.3307		PTT	-0.0408		GCVS 87	-Ir 22)
	52323.3422		PTT	-0.0412		GCVS 87	-Ir 22)
	52347.3624	.0004	SCI	-0.0429		GCVS 87	18)
	52368.3822		PTT	-0.0422		GCVS 87	-Ir 22)
	52372.3856		PTT	-0.0425		GCVS 87	-Ir 22)
	52440.4476	.0010	SCI	-0.0425		GCVS 87	18)
	52451.4557	.0010	SCI	-0.0445		GCVS 87	18)
	52628.2832	.0025	SCI	-0.0448		GCVS 87	4)
	52628.4524	.0017	SCI	-0.0425	s	GCVS 87	4)
	52651.3044	.0035	SCI	-0.0446		GCVS 87	4)
	52651.4709	.0018	SCI	-0.0449	s	GCVS 87	4)
	52651.6374	.0021	SCI	-0.0453		GCVS 87	4)
	52684.3355	.0006	JU	-0.0436		GCVS 87	4)
	52747.3913	.0001	BRN STK	-0.0453		GCVS 87	-Ir 14)
	52747.5585	.0001	BRN STK	-0.0449	s	GCVS 87	-Ir 14)
TX UMa	52567.5770	.0035	SCI	+0.1679		GCVS 87	4)
TY UMa	52362.5442	.0002	RAT RCR	+0.0045		GCVS 87	-Ir 1)
UY UMa	52369.3812	.0010	RAT RCR	+0.0767		GCVS 87	-Ir 1)
	52408.4874	.0010	AG	+0.0772		GCVS 87	BV 1)
	52717.5758	.0007	AG	+0.0804		GCVS 87	-Ir 1)
	52746.5298	.0015	AG	+0.0812		GCVS 87	-Ir 1)
XY UMa	52368.3594	.0002	RAT RCR	+0.0201		GCVS 87	23) 1)
	52376.5033	.0002	RAT RCR	+0.0211		GCVS 87	23) 1)
XZ UMa	52527.5348	.0021	SCI	+0.6002		GCVS 87	4)
ZZ UMa	52308.4155	.0003	RAT RCR	-0.0041		GCVS 87	-Ir 1)
AA UMa	52361.4994	.0003	RAT RCR	+0.0224		GCVS 87	24) 1)
	52368.5215	.0003	RAT RCR	+0.0226		GCVS 87	23) 1)

Table 1: (cont.)

Variable	Min JD 24. . .	$\pm$	Obs	$O - C$		Fil	Rem
W UMi	52369.4083	.0005	QU	-0.1309		GCVS 87	V 14)
RZ UMi	52308.6428	.0003	RAT RCR				-Ir 1)
	52363.4617	.0001	AG				1)
AH Vir	52386.4117		SIR	-0.0644		GCVS 87	-Ir 10)
AW Vir	52367.3867	.0002	RAT RCR	+0.0130		GCVS 87	23) 1)
BH Vir	52411.4236	.0004	QU	-0.0054		GCVS 87	V 14)
CG Vir	52409.4990	.0002	AG	+0.2008	s	GCVS 87	BV 1)
HW Vir	52764.4840	.0001	PRK				1)
	52764.5419	.0002	PRK				1)
BK Vul	49545.4104		MS	+0.1096		GCVS 87	1)
	49645.3930		MS	+0.1021	s	GCVS 87	1)
	49646.3054		MS	+0.1075	s	GCVS 87	1)
	50653.4538		MS	+0.0991	s	GCVS 87	1)
	51413.4598	.0005	AG	+0.0893	s	GCVS 87	1)
	52448.4886	.0049	PC	+0.0729		GCVS 87	-Ir 12)
FR Vul	52426.494	.003	AG	-0.010		GCVS 87	1)

**Remarks:**

AG : Agerer, F., Tiefenbach  
 BRN: Brauner, B., Herford  
 FR : Frank, P., Velden  
 JU : Jungbluth, Dr. H., Karlsruhe  
 MS : Moschner, W., Lennestadt  
 PC : Poschinger, K., Hamburg  
 PTT: Petter, Dr. G., Liegau  
 RAT: Rätz, M. Herges-Hallenberg  
 SCI: Schmidt, U. Karlsruhe  
 SIR: Schirmer, J., Fredenbeck  
 WTR: Walter, F., München

ATB: Achterberg, Dr. H., Norderstedt  
 DIE: Dietrich, M., Radebeul  
 HSR: Husar, Dr. D., Hamburg  
 MON: Monninger, Dr. G., Gemmingen  
 MZ : Maintz, G., Bonn  
 PRK: Proksch, W., Winhöring  
 QU : Quester, W., Esslingen  
 RCR: Rätz, Ch. Herges-Hallenberg  
 SG : Sterzinger, Dr. P, Wien (A)  
 STK: Strunk, J., Leopoldshöhe

: = uncertain

s = secondary minimum

E = CCD- or photoelectric observation

red = reduced results

1) = photometer ST-6 CCD 375 × 242 uncoated, filter V/ B

2) = photometer EMI 9781A, filter V=GG495,1mm B=BB12,1mm+GG385,2mm

3) = photometer Cryocam 80A, without filter

4) = photometer ST-7, filter V / R / -Ir=KG5/2 / Ic / or none

5) = photometer SSP5, without filter

6) = photometer OES-LcCCD11, filter -Ir or without filter

7) = photometer LC14, filter -Ir

8) = photometer pictor 1616XT, without filter

9) = photometer ST-9 chip 512\*512

10) = photometer AlphaMaxi, filter -Ir

11) = photometer AlphaMini, filter -Ir

12) = photometer ST-8E, filter without, -Ir, V/R (Bessel type)

13) = photometer Pictor 416XT filter without

14) = photometer ST-7E filter V; R; -Ir=KG/2; without filter

15) = photometer ST-8E chip: KAF1602E without filter

16) = photometer ST-7 chip: KAF0400 without filter

17) = photometer apogee AP7 chip: S1Te502a filter V; -Ir

18) = photometer ST-5 without filter

19) = photometer ST-10 without filter; filter -Ir

20) = photometer ST-10 XMR without filter; filter -Ir

**Remarks (cont.)**

- 21) = photometer OES-LcCCd12 without filter  
 22) = photometer AlphaMaxi chip: KAF401e  
 23) = filter -Ir and Green  
 24) = filter -Ir and Red  
 26) = double maxima, determination of time is difficult  
 GCVS *yy* = General Catalogue of Variable Stars, 4th ed. 19yy

IBVS *nnnn* = Information Bulletin on Variable Stars No. *nnnn*  
 MVS *vv,ppp* = Mitteilungen über Veränderliche Sterne; volume, page  
 SAC *vv* = Rocznik Astronomiczny No. *vv*, Krakow (SAC)  
 BAVM *nnn* = BAV Mitteilungen No. *nnn*

- BAVM 51 = IBVS No. 3234  
 BAVM 53 = IBVS No. 3401  
 BAVM 63 = IBVS No. 3811  
 BAVM 65 = IBVS No. 3859  
 BAVM 67 = IBVS No. 3942  
 BAVM 71 = IBVS No. 4131  
 BAVM 72 = IBVS No. 4132  
 BAVM 76 = IBVS No. 4143  
 BAVM 82 = IBVS No. 4266  
 BAVM 89 = IBVS No. 4381  
 BAVM 115 = IBVS No. 4669  
 BAVM 132 = IBVS No. 5016  
 BAVM 133 = IBVS No. 5017  
 BAVM 135 = IBVS No. 5024  
 BAVM 137 = IBVS No. 5148  
 BAVM 138 = IBVS No. 5161  
 BAVM 150 = IBVS No. 5260  
 BAVM 156 = IBVS No. 5366  
 BAVR 31 = BAV Rundbrief 32, 36 f
- BAVR 32 = BAV Rundbrief 32,122 f  
 BAVR 33 = BAV Rundbrief 33,152 f  
 BAVR 34 = BAV Rundbrief 33,160 f  
 BAVR 35 = BAV Rundbrief 35, 1 f  
 BAVR 38 = BAV Rundbrief 49,117  
 BAVR 45 = BAV Rundbrief 49,180  
 BAVR 46 = BAV Rundbrief 50, 45f

**ERRATUM FOR IBVS 5484**

(BVM 158)

VW Peg 52547.5689 FR correct time: 52547.5272

KQ Gem 52690.3810 AG correct name: KV Gem

52690.5576 AG

52691.2757 AG

52691.4562 AG

52692.3516 AG

52692.5310 AG

52694.3242 AG

52694.5028 AG

52697.3714 AG