

BAV Mitteilungen

Beobachtungsergebnisse der
Berliner Arbeitsgemeinschaft für Veränderliche Sterne e.V. (B A V)

(B A V - M I T T E I L U N G E N N R . 5 0)

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In this 21th compilation of BAV results of observations are given from the years 1987 and 1988 for 740 observed minima and maxima on 295 variables stars including 70 photoelectric results.

Die vorliegenden Ergebnisse wurden überwiegend in den Jahren 1987 und 1988 gewonnen. Insgesamt wurden 740 Ergebnisse aus rund 13.100 Einzelschätzungen bzw. -messungen von 44 Beobachtern abgeleitet. Es werden 199 beobachtete Minima an 85 Bedeckungssternen, 158 Maxima von 51 RR Lyrae- und Delta Cephei Sternen, 264 Ergebnisse von 129 Mirasternen, 86 Ergebnisse von 23 Halbbregelmäßigen und RV Tauri Sternen sowie 33 Ergebnisse von 7 Eruptiven mitgeteilt.

B E O B A C H T E R :

AG F. Agerer	Zweikirchen	MO M. Moeller	Timmendf. Strd.
AI C. Aigner	Liezen <AU>	MS W. Moschner	Lennebstadt
AW D. Altweier	Leverkusen	MX H. Marx	Kornthal
BD W. Blendin	Wächtersbach	OT M. Ott	Kiedrich
BK C. Birkner	Hagen	PI J. Pietz	Erfststadt
BR W. Braune	Berlin	PS A. Paschke	Rueti < CH >
EP A. Epple	Stuttgart	QU W. Quester	Esslingen
FD M. Fernandes	Berlin	RI P. Ringe	Dortmund
FR P. Frank	Velden	RZ W. Renz	Grafenhausen
GB R. Gröbel	Eckental	SC E. Schröder	Bremen
GE R. Geckeler	Saulgau	SF K. Seifert	Hamburg
GG O. Grögel	Straubing	SG P. Sterzinger	Wien < AU >
HF K. Hopf	Hof	SH O. Schall	Dortmund
HO P. Hoffmann	Hannover	SK C. Schambeck	Nassenhausen
HU T. Hulvershorn	Hagen	SM A. Sturm	Köln
KB W. Kriebel	Moosburg	SN J. Schoen	Wien < AU >
KM G. Keim	Konstanz	SO R. Schertler	St. Peter <AU>
KO B. Koch	Neu-Ulm	SU H. Schubert	Grosshansdorf
KR G. Krisch	Bockenem	TH A. Thomas	Mainz
KT S. Korth	Monheim	VI H. Vielmetter	Darmstadt
MK G. Marekcia	Riegelsberg	WU E. Wunder	Rückersdorf
MN S. Malinowski	Saulgau	ZE B. Zellin	Berlin

Neben Privatinstrumenten wurden Instrumente von Volkssternwarten sowie der BAV eingesetzt. Alle angegebenen Zeiten sind heliozentrisch korrigiert. Die 70 lichtelektrischen Beobachtungen wurden von 4 Beobachtern gewonnen, die Geräte und Filter hierfür sind in den jeweiligen Bemerkungen angegeben. Die Berechnungen für die Kurzperiodischen wurden von Joachim Hübscher vorgenommen. Der BAV

liegen die Lichtkurven mit Einzelschätzungen und der Auswertung vor.

Für die Unterstützung unserer Arbeit danken wir besonders der AKADEMIE DER WISSENSCHAFTEN DER UdSSR, dem OBSERVATORIUM ASTRONOMICZNE KRAKOW der Universiteyt Jagiellonski, sowie der IAU - Kommission 27.

1. BEDECKUNGSVERÄNDERLICHE

Stern		Min JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
RT	And	47212.315		HO	-0.002	85		
TW	And	47014.446		BR	-0.023	85		
AA	And	47060.3455		LV AG	-0.0590	85		2)
AB	And	47064.347		BR	+0.004	85		
BX	And	47153.299	:	PI	-0.027	85		
CN	And	47029.4722		LV AG	-0.0233	85		2)
ST	Aqr	47030.5127		LV AG	-0.0071	85		2)
KO	Aql	45911.479		HU	+0.009	85		
KO	Aql	47028.4729		LV AG	+0.0218	85		2)
OO	Aql	47024.3908		LV AW	+0.0002	85		1)
OO	Aql	47028.4462		LV AW	+0.0013	85		1)
OO	Aql	47039.347	/	F MS	+0.006	85		6)
OO	Aql	47042.382	/	BD	+0.000	85		
OO	Aql	47059.3597		LB AW	+0.0007	85		1)
OO	Aql	47059.3625		LV AW	+0.0035	85		1)
V417	Aql	46977.4543		LV AG	-0.0681	85	-0.0221 9)	2)
V417	Aql	46982.4565	/	LV AG	-0.0627	85	-0.0192 9)	2)
V889	Aql	46705.337		RI	+0.014	85		
SS	Ari	47068.441	/	BR	-0.048	85		
SS	Ari	47077.366	/	BR	-0.055	85		
SS	Ari	47207.275	/:	BD	-0.064	85		
AP	Aur	47170.4263	/	LB AG	+0.1003	85	+0.0296 11)	2)
AP	Aur	47170.4277	/	LV AG	+0.1017	85	+0.0310 11)	2)
AP	Aur	47207.4349	/	LB AG	+0.1036	85	+0.0301 11)	2)
AP	Aur	47207.4349	/	LV AG	+0.1036	85	+0.0301 11)	2)
IM	Aur	47138.6469		LB AG	-0.0414	85		2)
IM	Aur	47138.6469		LV AG	-0.0414	85		2)
IM	Aur	47172.319		PI	-0.046	85		
IY	Aur	47077.375		BR	-0.042	85		
IY	Aur	47239.379		SF	-0.055	85		
TY	Boo	46925.498	/	F VI	+0.039	85		6)
TY	Boo	47205.5406	/	LB AG	+0.0399	85		2)
TY	Boo	47263.5774	/	LV AG	+0.0386	85		2)
TY	Boo	47263.5781	/	LB AG	+0.0393	85		2)
i	Boo	45116.421		F FR	+0.009	85		5)
AS	Cam	47138.4942		LV AG	-0.0127	85		2)
AS	Cam	47138.4970		LB AG	-0.0099	85		2)
S	Cnc	46858.417		F VI	-0.030	85		6)
WY	Cnc	47263.327		GG	+0.001	85		
R	CMa	47205.336		HO	+0.016	85		
R	CMa	47205.348		RZ	+0.028	85		
RZ	Cas	46005.548		SH	-0.003	85		
RZ	Cas	46824.309		RI	+0.014	85		
RZ	Cas	47039.449		AI	+0.009	85		
RZ	Cas	47039.449		SO	+0.009	85		
RZ	Cas	47069.338		AW	+0.017	85		
TV	Cas	46991.452		SO	-0.002	85		
TV	Cas	47029.500	:	RZ	-0.019	85		
TV	Cas	47069.380		PI	-0.016	85		
TV	Cas	47069.396		K SU	+0.000	85		
TV	Cas	47205.331		HO	-0.010	85		
TW	Cas	47070.3566		LB AW	-0.0110	85		2)

Stern	Min	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
TW	Cas	47070.3566	LV	AW	-0.0110	85		1)
TW	Cas	47090.341		PI	-0.023	85		
EP	Cas	47139.598	F	FR	-0.043	85		5)
V368	Cas	47082.4101	LB	AG	-0.0506	85		2)
V368	Cas	47082.4261	LV	AG	-0.0346	85		2)
V375	Cas	47139.4761	LV	AG	-0.0246	85	+0.0204 8)	2)
V381	Cas	47205.3643	LV	AG	-0.0077	85	+0.0126 8)	2)
V520	Cas	47139.295	F	FR	+0.001	85		5)
V520	Cas	47139.533	F	FR	-0.006	85		5)
V541	Cas	47070.5018	LV	AG	-0.0113	85		2)
V541	Cas	47070.5025	LB	AG	-0.0106	85		2)
U	Cep	47089.5282	LB	AG	+0.0306	85		2)
U	Cep	47089.5282	LV	AG	+0.0306	85		2)
SU	Cep	46769.243	F	FR	+0.001	85		5)
VW	Cep	45914.409		HU	-0.004	85		
VZ	Cep	47140.3390	LB	AG	-0.0053	85		2)
VZ	Cep	47140.3466	LV	AG	+0.0023	85		2)
V338	Cep	46769.313	F	FR	+0.012	85		5)
RW	Com	46112.465	F	FR	-0.010	85		5)
RW	Com	46112.583	F	FR	-0.010	85		5)
U	CrB	46975.463		GE	+0.016	85		
Y	Cyg	47024.531		RZ	+0.095	85		
Y	Cyg	47078.484		RZ	+0.114	85		
DK	Cyg	47051.4561	LB	AG	+0.0223	85	+0.0075 10)	2)
V367	Cyg	47042.70		RZ	-0.38	85		7)
V477	Cyg	47024.433		PI	+0.004	85		
V787	Cyg	47139.3104	LB	AG	+0.0028	85		2)
V891	Cyg	46982.433		BR	+0.006	85		
V909	Cyg	47069.3642	LV	AG	-0.0179	85	-0.0169 8)	2)
V909	Cyg	47076.3748	LV	AG	-0.0209	85	-0.0199 8)	2)
V1425	Cyg	46320.369	F	FR	+0.018	85		5)
TW	Dra	46982.451		BD	+0.013	85		
TZ	Dra	46987.480		BD	-0.001	85		
AI	Dra	46914.450		RZ	+0.005	85		
YY	Gem	47182.380		PI	-0.006	85		
AK	Her	46941.444		MO	+0.005	85		
AK	Her	46975.381		SN	+0.009	85		
AK	Her	46991.3855	LV	AG	-0.0039	85		2)
LT	Her	47266.5049	LB	AG	-0.0336	85		2)
LT	Her	47266.5091	LV	AG	-0.0294	85		2)
V450	Her	47239.5883	LB	AG	+0.2098	85		2)
V450	Her	47239.5904	LV	AG	+0.2119	85		2)
SW	Lac	46005.313		SH	+0.005	85		
SW	Lac	46005.472		SH	+0.003	85		
SW	Lac	47025.3535	L	SG	-0.0078	85		3)
SW	Lac	47028.4022	L	SG	-0.0059	85		3)
SW	Lac	47029.513		RZ	-0.018	85		
SW	Lac	47059.354		PI	-0.004	85		
SW	Lac	47068.324		SC	-0.014	85		
SW	Lac	47070.413		PI	-0.010	85		
SW	Lac	47070.420	F	BK	-0.003	85		6)
SW	Lac	47071.376	F	BK	-0.009	85		6)
SW	Lac	47072.338	F	BK	-0.009	85		6)
SW	Lac	47083.394		SN	-0.018	85		
SW	Lac	47086.453	F	BK	-0.006	85		6)
SW	Lac	47087.4116	LV	AG	-0.0092	85		2)
SW	Lac	47087.4123	LB	AG	-0.0085	85		2)
SW	Lac	47087.5707	LV	AG	-0.0104	85		2)
SW	Lac	47087.5721	LB	AG	-0.0090	85		2)
SW	Lac	47115.3153	L	SG	-0.0082	85		3)
AW	Lac	46706.468	F	FR	+0.089	85	-0.005 10)	5)

Stern	Min	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
AW	Lac	46769.326		F	FR	+0.091	85	-0.004 10) 5)
CM	Lac	46977.447			SO	+0.000	85	
CM	Lac	47038.423			EP	-0.002	85	
CM	Lac	47083.353			SN	-0.003	85	
CO	Lac	46704.480	/	F	FR	-0.003	85	5)
CO	Lac	46708.3441		LV	AG	+0.0055	85	2)
CO	Lac	47024.495		F	VI	+0.004	85	6)
PP	Lac	45622.500	/	F	FR	-0.017	85	5)
PP	Lac	46704.433	/	F	FR	-0.020	85	5)
PP	Lac	46706.438	/	F	FR	-0.021	85	5)
PP	Lac	46769.421	/	F	FR	-0.021	85	5)
UV	Leo	47270.381			SO	+0.007	85	
UZ	Leo	46914.387	/:		BD	+0.032	85	
UZ	Leo	47265.4428		LV	AW	+0.0398	85	1)
AM	Leo	47235.396	/		SF	-0.008	85	
AM	Leo	47263.371	:		PI	-0.016	85	
AM	Leo	47263.3837		LB	AW	-0.0034	85	1)
AM	Leo	47263.3837		LV	AW	-0.0034	85	1)
AM	Leo	47263.385			SO	-0.002	85	
AM	Leo	47263.385			SN	-0.002	85	
AM	Leo	47265.381	/:		PI	-0.018	85	
AM	Leo	47274.354			PI	-0.007	85	
FL	Lyr	47071.388	:		RI	-0.006	85	
FL	Lyr	47071.391			SH	-0.003	85	
beta	Lyr	47023.80	/		AW	+2.07	85	
beta	Lyr	47024.0500	/	LB	AW	+2.3134	85	7)
beta	Lyr	47024.1500	/	LV	AW	+2.4134	85	7)
beta	Lyr	47037.02	/		RZ	+2.37	85	7)
beta	Lyr	47062.75	/		PI	+2.27	85	7)
V448	Mon	47176.365	/	F	FR	-0.004	85	5)
FT	Ori	47205.314			HO	+0.009	85	
U	Peg	47094.343			PI	-0.029	87	
AT	Peg	47068.462			KO	-0.015	87	
BX	Peg	47039.548	/	F	VI	+0.003	87	6)
DI	Peg	47014.466			WU	-0.002	87	
DK	Peg	47064.369			BR	+0.000	87	
ST	Per	47137.378			BD	+0.111	87	
IQ	Per	47029.490			RZ	-0.005	87	
IQ	Per	47057.388	/:		RZ	-0.004	87	
IQ	Per	47064.348			BR	-0.018	87	
IQ	Per	47151.551			RZ	+0.006	87	
IQ	Per	47207.328			SF	-0.011	87	
IQ	Per	47207.334	:		BD	-0.005	87	
IQ	Per	47207.345			HO	+0.006	87	
LX	Per	47104.4791		LB	AG	-0.0438	87	2)
LX	Per	47104.4798		LV	AG	-0.0431	87	2)
beta	Per	46005.656			SH	-0.005	87	
beta	Per	47069.4431		LV	AW	+0.0121	87	1)
beta	Per	47069.4431		LB	AW	+0.0121	87	1)
beta	Per	47069.448			WU	+0.017	87	
beta	Per	47115.334			SN	+0.026	87	
beta	Per	47138.272			SN	+0.026	87	
U	Sge	47018.452			WU	-0.015	87	
RZ	Sct	47059.65			AW	+0.47	87	
Y	Sex	46862.400	/	F	VI	+0.093	87	+0.093 8) 6)
Y	Sex	47214.411		F	VI	+0.083	87	+0.083 8) 6)
Y	Sex	47239.3926	/	LB	AG	+0.0847	87	+0.0847 8) 2)
Y	Sex	47239.3926	/	LV	AG	+0.0847	87	+0.0847 8) 2)
SV	Tau	47206.3309		LB	AG	+0.0086	87	2)
SV	Tau	47206.3309		LV	AG	+0.0086	87	2)
CD	Tau	47153.396			PI	-0.017	87	

Stern		Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
SW	And	47172.344			WU	-0.074	85	+0.009 9)	
SW	And	47173.242			BK	-0.061	85	+0.023 9)	
+400060	And	47123.295			WU	+0.000			
+400060	And	47138.353			WU	+0.000			
+400060	And	47139.287			WU	+0.000			
+400060	And	47170.339			WU	+0.000			
SW	Aqr	47014.401			WU	-0.005	85		
AA	Aql	47014.442			WU	+0.012	85		
AA	Aql	47014.446			BR	+0.016	85		
AA	Aql	47055.322			WU	+0.010	85		
AA	Aql	47059.308			WU	+0.016	85		
X	Ari	47172.352	:		WU	+0.056	85	-0.004 10)	
RS	Boo	46940.426			WU	+0.015	85	+0.021 14)	
RS	Boo	47270.579			KB	-0.004	85	+0.003 14)	
RS	Boo	47275.488			BD	+0.000	85	+0.006 14)	
RS	Boo	47283.413			KB	+0.001	85	+0.007 14)	
RS	Boo	47295.488			KB	+0.001	85	+0.007 14)	
TW	Boo	46940.395			WU	-0.006	85		
TW	Boo	47294.344			WU	-0.018	85		
TW	Boo	47295.408			WU	-0.019	85		
UY	Boo	47288.405			PS	+0.003	85		
YZ	Boo	47271.367	/		WU	+0.012	85		8)
YZ	Boo	47271.386	:		WU	-0.021	85		
CM	Boo	47294.380			WU	-0.001	85		
VZ	Cnc	46904.430			RZ	-0.013	85		
VZ	Cnc	46914.420			RZ	-0.011	85		
VZ	Cnc	47205.337			RZ	-0.005	85		
VZ	Cnc	47205.5221		LV	QU	+0.0015	85		3)
VZ	Cnc	47206.417			WU	+0.005	85		
VZ	Cnc	47207.303			RZ	-0.001	85		
VZ	Cnc	47207.469			RZ	-0.014	85		
VZ	Cnc	47213.361			RZ	-0.008	85		
VZ	Cnc	47213.3708		LV	QU	+0.0022	85		3)
VZ	Cnc	47240.2974		LV	SG	-0.0042	85		4)
RR	Cet	47123.226			WU	-0.017	85		
RR	Cet	47139.273			WU	-0.008	85		
RR	Cet	47170.236			WU	-0.015	85		
S	Com	45056.381		F	FR	-0.037	85		5)
S	Com	45812.497		F	FR	-0.036	85		5)
U	Com	45820.538		F	FR	+0.033	85		5)
UY	Cyg	47018.389			WU	+0.000	85		
XZ	Cyg	46914.552			RZ	+0.179	85	-0.003 14)	
XZ	Cyg	47014.407			WU	+0.161	85	-0.005 14)	
XZ	Cyg	47029.339			WU	+0.158	85	-0.004 14)	
XZ	Cyg	47029.356			SK	+0.175	85	+0.013 14)	
XZ	Cyg	47114.276			HO	+0.156	85	+0.008 14)	
XZ	Cyg	47114.281			PI	+0.161	85	+0.013 14)	
XZ	Cyg	47285.509			KB	+0.110	85	-0.008 14)	
XZ	Cyg	47307.452			KB	+0.118	85	+0.004 14)	
XZ	Cyg	47308.384			KB	+0.117	85	+0.002 14)	
SU	Dra	47285.385			KB	+0.007	85		
XZ	Dra	47107.438			BK	+0.018	85	+0.048 9)	
XZ	Dra	47180.334			BK	+0.010	85	+0.040 9)	
SV	Eri	47176.304			PS	+0.021	85	-0.220 9)	
RS	Gru	47037.638			WU	-0.017	85		
TW	Her	47029.334			WU	+0.003	85		
TW	Her	47059.295			WU	-0.006	85		
VX	Her	47288.470			KB	+0.224	85		
VX	Her	47293.484			KB	-0.226	85		
VX	Her	47294.374			WU	+0.208	85		
VX	Her	47304.400			KB	+0.216	85		

Stern	Max	JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
RR	Leo	47172.408		WU	-0.005	85	+0.001 13)	
RR	Leo	47239.371		HO	+0.004	85	+0.010 13)	
RR	Leo	47262.434		KB	-0.005	85	+0.001 13)	
RR	Leo	47263.347		KB	+0.003	85	+0.009 13)	
RR	Leo	47263.348		GG	+0.004	85	+0.010 13)	
ST	Leo	46914.382		TH	-0.008	85		
ST	Leo	47270.480		PS	-0.009	85		
ST	Leo	47271.427		KB	-0.017	85		
ST	Leo	47294.376		KB	-0.012	85		
ST	Leo	47304.412		PS	-0.013	85		
AA	Leo	47271.409	:	KB	-0.012	85		
SZ	Lyn	46005.594		SH	+0.020	85		
SZ	Lyn	47207.317		PI	+0.010	85		
SZ	Lyn	47207.323		BD	+0.016	85		
SZ	Lyn	47255.405		BD	+0.004	85		
SZ	Lyn	47266.368		PI	-0.001	85		
SZ	Lyn	47267.3411		SG	+0.0076	85		4)
RR	Lyr	45645.408		HU	-0.110	85	-0.010 11)	
RR	Lyr	46005.343		SH	-0.136	85	-0.018 11)	
RR	Lyr	46914.558		RZ	-0.177	85	-0.013 11)	
RR	Lyr	46998.451		OT	-0.181	85	-0.012 11)	
RR	Lyr	47024.521		RZ	-0.187	85	-0.017 11)	
RR	Lyr	47024.5337		AW	-0.1738	85	-0.0039 11)	1)
RR	Lyr	47053.403	:	RZ	-0.215	85	-0.043 11)	
RR	Lyr	47057.380	:	RZ	-0.206	85	-0.034 11)	
RR	Lyr	47061.335		SO	-0.219	85	-0.047 11)	
RR	Lyr	47070.423		RZ	-0.201	85	-0.029 11)	
RR	Lyr	47078.358		RZ	-0.202	85	-0.029 11)	
RR	Lyr	47107.281		RZ	-0.189	85	-0.015 11)	
RR	Lyr	47115.230		SN	-0.176	85	-0.002 11)	
RR	Lyr	47295.450		KB	-0.220	85	-0.037 11)	
RR	Lyr	47308.489		WU	-0.219	85	-0.035 11)	
RR	Lyr	47308.491		KB	-0.217	85	-0.033 11)	
EZ	Lyr	47014.416	:	BR	-0.096	85	-0.003 12)	
VV	Peg	47137.241		BD	-0.006	87		
VV	Peg	47138.205	:	WU	-0.019	87		
VV	Peg	47139.190		WU	-0.011	87		
AV	Peg	47039.415		AI	+0.010	87	+0.054 9)	
AV	Peg	47059.328		WU	+0.014	87	+0.058 9)	
AV	Peg	47107.348		MS	+0.018	87	+0.062 9)	6)
BP	Peg	47056.407		PS	+0.006	87		
BP	Peg	47057.391		PS	+0.005	87		
BP	Peg	47059.362		PS	+0.004	87		
DH	Peg	47041.430	:	TH	+0.015	87		
DY	Peg	47088.329		MS	+0.000	87		6)
DY	Peg	47088.401		MS	-0.001	87		6)
DY	Peg	47138.208		WU	-0.002	87		
DY	Peg	47139.234		WU	+0.003	87		
DY	Peg	47170.223		WU	-0.002	87		
DY	Peg	47172.335		WU	-0.005	87		
U	Tri	47170.257		WU	-0.016	87		
RV	UMa	47266.519	:	KB	+0.019	87		
RV	UMa	47268.389		KB	+0.017	87		
RV	UMa	47275.411		BD	+0.018	87		
RV	UMa	47276.351	:	BD	+0.022	87		
RV	UMa	47288.510		KB	+0.011	87		
RV	UMa	47304.426		KB	+0.013	87		
TU	UMa	47255.386		PI	-0.015	87		
TU	UMa	47255.398		BD	-0.003	87		
TU	UMa	47265.416	:	BD	-0.023	87		
TU	UMa	47265.443	:	KB	+0.004	87		

Stern		Max JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
TU	UMA	47270.451		KB	-0.007	87		
TU	UMA	47275.466	:	BD	-0.011	87		
TU	UMA	47294.418	:	KB	-0.019	87		

B e m e r k u n g e n :

- : = unsicher
 L = Lichtelektrische Beobachtung Filter: ohne
 LV = Lichtelektrische Beobachtung Filter: V
 LB = Lichtelektrische Beobachtung Filter: B
 F = Fotografische Beobachtung
 1) = Photometer: 1P21 Filter: V = GG12
 2) = Photometer: Schnitzer
 3) = Photometer: Mueller
 4) = Photometer: SSP3
 5) = Auswertung: Messung mit Mikrophotometer
 6) = Auswertung: Schaetzung auf Kleinbild
 7) = reduzierte Ergebnisse
 8) = Minimumzeitpunkt! nach TSESEVICH - strange star -
 Minima werden in der Literatur daher ebenfalls publiziert
 9) = Krakauer Katalog (SAC) 1988
 10) = BAV - Rundbrief 31, 84 f
 11) = BAV - Rundbrief 34, 1 ff
 12) = BAV - Rundbrief 34, 145 ff
 13) = BAV - Rundbrief 36, 109 ff
 14) = BAV - Rundbrief 36, 157 ff

3 . D E L T A - C E P H E I - S T E R N E

Stern		Max JD 24...	Ph	Obs	B-R 1	GCVS	B-R 2	Bem.
eta	Aql	47021.51		AW	-0.35	85		1)
eta	Aql	47036.65		WU	+0.44	85		1)
eta	Aql	47065.42		SM	+0.50	85		1)
RT	Aur	47167.40		AW	+0.70	85		1)
RT	Aur	47174.33		SM	+0.18	85		1)
RT	Aur	47174.47		WU	+0.32	85		1)
SU	Cas	47069.20		AW	+0.37	85		1)
SU	Cas	47090.29		SM	+0.02	85		1)
TU	Cas	47070.33	:	SM	+0.13	85		1)
delta	Cep	46990.55		AW	-0.03	85		1)
delta	Cep	47065.38		SM	-0.33	85		1)
X	Cyg	46977.20		GE	+0.64	85		1)
X	Cyg	47059.33		SM	+0.84	85		1)
SU	Cyg	47028.15		AW	+0.04	85		1)
SU	Cyg	47028.38		SM	+0.27	85		1)
W	Gem	47187.29		SM	+0.38	85		1)
zeta	Gem	47186.10		AW	-0.02	85		1)
zeta	Gem	47196.25		SM	-0.02	85		1)
T	Mon	47192.25		SM	+2.53	85		1)
T	Mon	47193.20		AW	+3.48	85		1)
Y	Oph	47028.00		SM	-0.31	85		1)
AW	Per	47137.25		SM	+0.63	87		1)
S	Sge	47070.33		SM	-0.68	87		1)
T	Vul	46974.45		GE	+0.00	87		1)
T	Vul	47023.42		SM	+0.18	87		1)
T	Vul	47027.80		AW	+0.12	87		1)
SV	Vul	47050.00		SU	+0.00	87		

Bemerkungen :

: = unsicher

1) = reduzierte Ergebnisse

4 . MIRASTERNE

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
V	And	Max	47166	10.0	KB	R	Cas	Max	47052	6.05	AW 1)
W	And	Max	47064	6.9	KB	R	Cas	Max	47058	5.8	KR 1)
Y	And	Max	46844	9.95	MX	R	Cas	Max	47060	6.45	PI 1)
Y	And	Max	47056	8.6	KB	U	Cas	Max	46825	8.25	MX
SX	And	Max	46858	8.9	MX	U	Cas	Max	47096	8.7	MX
BU	And	Max	46780	10.6	MX	V	Cas	Min	46771	12.5	MX
R	Aql	Min	46995	10.9	MX	V	Cas	Max	47124	7.85	KB
R	Aql	Max	47112	6.1	KR	V	Cas	Max	47125	7.9	MX
X	Aql	Max	47046	8.55	KB	RR	Cas	Max	46853	11.2	MX
X	Aql	Max	47046	8.75	MX	RR	Cas	Max	47118	10.9	MX
RV	Aql	Max	47003	9.2	KB	SS	Cas	Min	46784	13.0	MX
TV	Aql	Max	46731	10.0	MX	SS	Cas	Max	46846	9.5	MX
EU	Aql	Max	47002	11.6	MX	VZ	Cas	Min	47144	13.2	MX
R	Ari	Max	47134	8.5	KB	T	Cep	Max	46539	5.5	PI
R	Aur	Max	46779	7.8	RI	T	Cep	Min	46724	10.0	MX
R	Aur	Max	47221	6.7	SF	T	Cep	Max	46929	5.4	MO
R	Aur	Max	47222	6.8	MK	T	Cep	Max	46933	5.55	AW
R	Aur	Max	47229	7.25	AW	T	Cep	Max	46934	5.5	MX 2)
U	Aur	Max	46873	7.8	MX	T	Cep	Max	46940	5.3	KR 1)
X	Aur	Min	46816	12.6	MX	T	Cep	Max	46943	5.3	MX 2)
X	Aur	Max	46912	9.25	MX	T	Cep	Min	47132	10.9	MX
X	Aur	Max	46917	9.4	MO	X	Cep	Max	47067	9.45	MX
X	Aur	Min	47162	12.4	MX	Y	Cep	Max	46782	9.35	MX
RR	Aur	Max	46769	10.0	MX	Y	Cep	Max	47122	9.0	MX
RU	Aur	Max	46824	9.0	MX 1)	Z	Cep	Max	46880	11.7	MX
HT	Aur	Max	46914	10.1	MX	Z	Cep	Max	47158	10.7	MX
R	Boo	Max	46970	7.1	MO	BF	Cep	Max	46764	10.9	MX
R	Boo	Max	46972	6.9	SH	o	Cet	Max	46833	2.5	MK
R	Boo	Max	46974	7.4	AW	o	Cet	Min	47057	9.2	KB
R	Boo	Max	46982	6.9	SN	o	Cet	Max	47164	4.3	MO
RR	Boo	Min	46666	13.8	MX	o	Cet	Max	47165	3.9	PI 1)
RR	Boo	Max	46942	9.15	KB	o	Cet	Max	47167	3.7	SG
RR	Boo	Max	46948	9.4	MX	o	Cet	Max	47169	4.0	WU
RR	Boo	Max	46953	9.3	MO	o	Cet	Max	47170	4.4	AW
RT	Boo	Min	46898	14.0	MX	o	Cet	Max	47174	4.1	KB
V	Cam	Min	46850	14.8	MX	o	Cet	Max	47178	4.0	MK
V	Cam	Max	47055	9.0	MX	V	CrB	Max	46978	7.9	GE
W	Cam	Max	46869	9.5	MX	V	CrB	Max	47000	8.4	MO
W	Cam	Max	47162	10.1	MX	W	CrB	Max	47040	8.6	MO
X	Cam	Min	46765	12.7	MX	X	CrB	Max	46579	9.2	MX
X	Cam	Max	46822	7.7	MX	X	CrB	Min	46940	13.6	MX
X	Cam	Min	46914	12.9	MX	R	Cyg	Min	47034	14.0	MX
X	Cam	Max	46976	8.0	MX	R	Cyg	Max	47177	7.2	KR
X	Cam	Min	47044	12.2	MX	R	Cyg	Max	47186	7.0	SF
X	Cam	Max	47118	8.05	MX	Z	Cyg	Max	47000	8.5	MO
R	Cnc	Max	46763	6.6	RI	RT	Cyg	Max	47054	7.6	MO
V	Cnc	Min	46907	13.7	MX	RT	Cyg	Max	47058	7.3	AW
V	Cnc	Max	47280	7.55	AW	TU	Cyg	Max	46948	9.1	MO
U	CVn	Max	46930	9.9	MX	TU	Cyg	Max	46957	8.8	KB
S	Cmi	Max	47206	7.0	KB 3)	TW	Cyg	Max	47035	10.7	MX
S	Cmi	Max	47208	6.9	AW	UX	Cyg	Max	46699	9.6	MX
S	Cmi	Max	47210	6.8	KR	AU	Cyg	Max	46640	9.5	MX
T	Cmi	Max	46785	10.25	MX	AU	Cyg	Max	47070	11.1	MX

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
BG	Cyg	Max	46946	9.45	KB	VY	Her	Max	47013	10.0	MX
BG	Cyg	Min	47099	11.6	KB	XZ	Her	Max	46964	10.6	MX
CM	Cyg	Max	47110	9.8	MX	CF	Her	Max	46985	9.8	MX
CU	Cyg	Max	46737	10.65	MX	DO	Her	Max	46976	10.9	MX
CU	Cyg	Min	47056	14.0	MX	DS	Her	Max	47016	10.4	MX
DD	Cyg	Min	47010	13.8	MX	NP	Her	Max	46646	9.1	MX 3)
DD	Cyg	Max	47086	10.5	MX 3)	S	Hya	Max	46873	8.0	MO
V369	Cyg	Max	46721	9.6	MX 3)	W	Lac	Max	47049	10.6	MX
V369	Cyg	Min	46770	14.3	MX	R	Leo	Max	46376	5.6	RI
V369	Cyg	Min	46986	13.0	MX	R	Leo	Min	46871	10.3	MO
V369	Cyg	Max	47030	9.4	MX	R	Leo	Min	47173	9.25	KB
V369	Cyg	Min	47087	13.4	MX	S	Leo	Min	46917	14.35	MX
V369	Cyg	Max	47147	10.1	MX	S	Leo	Max	47190	10.0	KB
chi	Cyg	Max	47061	6.0	MO	RS	Leo	Max	46881	9.8	MX
chi	Cyg	Max	47062	5.6	KM	S	Lmi	Max	46920	9.35	MO
chi	Cyg	Max	47063	5.75	AW	W	Lyr	Min	46974	12.1	MX
chi	Cyg	Max	47067	5.9	KB	W	Lyr	Max	47075	7.5	MX
chi	Cyg	Max	47067	5.6	KR	RW	Lyr	Max	46966	13.25	MX
chi	Cyg	Max	47067	5.8	MK	SS	Lyr	Min	47044	14.0	MX
chi	Cyg	Max	47067	5.8	SU	Y	Mon	Max	46861	9.4	MX
S	Del	Min	46987	11.6	KB	RS	Mon	Max	46842	10.3	MX
S	Del	Max	47151	8.9	KB	X	Oph	Max	47066	6.1	MK
RX	Del	Max	46736	11.4	MX	RU	Oph	Max	46926	8.8	KB
RX	Del	Max	47091	10.5	MX	RY	Oph	Max	47005	9.3	KB
R	Dra	Max	47246	7.45	SU	RY	Oph	Max	47007	9.4	MX
R	Dra	Max	47249	7.55	KR	RY	Oph	Min	47081	13.7	MX
X	Dra	Max	46750	10.75	MX	SS	Oph	Min	46962	14.6	MX
X	Dra	Max	47016	10.8	MX	SS	Oph	Max	47050	9.3	MX
RV	Dra	Max	46882	10.2	MX	AY	Oph	Max	47020	10.8	MX
R	Equ	Max	47062	9.25	KB	V450	Oph	Max	46676	10.5	MX
R	Equ	Max	47069	9.2	MX	U	Ori	Max	46753	6.7	RI
V	Gem	Max	46828	8.4	MX	U	Ori	Max	47119	6.1	AW
ST	Gem	Max	46808	9.8	MX	U	Ori	Max	47120	6.0	SH
BP	Gem	Max	46861	10.1	MX	U	Ori	Max	47123	6.15	KB
R	Her	Max	46957	8.8	KB	V	Ori	Max	47146	9.55	KB
S	Her	Min	47063	13.5	MX	RR	Ori	Max	46769	10.1	MX
T	Her	Min	46714	13.5	MX	T	Peg	Max	46698	8.9	MX
T	Her	Max	46950	8.2	MO	T	Peg	Max	47059	8.6	KB
T	Her	Max	46956	8.0	KM	X	Peg	Max	47057	9.0	KB
T	Her	Max	46957	8.05	KB	X	Peg	Max	47059	9.3	MX
T	Her	Min	47046	13.3	MX	Y	Peg	Max	46773	11.6	MX
T	Her	Max	47286	8.1	AW	RR	Peg	Max	47158	9.3	KB
U	Her	Max	47029	7.7	MO	RT	Peg	Max	46665	10.3	MX 6)
U	Her	Min	47031	7.5	AW	RV	Peg	Max	47089	11.4	MX
U	Her	Max	47032	7.5	KB	AN	Peg	Max	47080	9.9	MX
U	Her	Max	47039	7.25	KR 5)	DL	Peg	Max	46762	10.7	MX
W	Her	Max	46999	8.5	KB	DL	Peg	Max	47130	10.7	MX
RS	Her	Max	46939	7.8	MO	FF	Peg	Max	46734	10.3	MX
RS	Her	Max	46940	7.1	KM	R	Peg	Max	46824	9.3	MX
RV	Her	Max	47009	9.7	MX	R	Per	Max	47243	3.3	SF
RY	Her	Max	46992	9.0	MX	U	Per	Min	46821	11.5	MX
SS	Her	Max	46925	9.1	MO	U	Per	Min	47147	11.5	MX
SS	Her	Max	47030	9.0	MO	Y	Per	Max	47259	8.1	KR
SS	Her	Max	47039	9.1	MX	RX	Per	Max	46834	10.5	MX
SY	Her	Min	46713	12.8	MX	AI	Per	Max	46803	11.4	MX
SY	Her	Max	46767	8.1	MX	W	Sge	Max	46673	10.5	MX
SY	Her	Min	46943	12.6	MX	R	Ser	Max	46938	6.8	MO
SY	Her	Max	46997	8.55	KB	R	Ser	Max	46940	6.2	KB
SY	Her	Max	46998	8.6	MX	R	Ser	Max	46943	5.9	SH
SY	Her	Min	47063	12.0	MX	S	Ser	Max	46903	8.3	MO
UZ	Her	Max	46946	9.2	MX	S	Tau	Max	46826	10.1	MX

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
V	Tau	Min	46784	14.5	MX	R	Uma	Max	47088	7.3	AW
V	Tau	Max	46869	10.8	MX	S	Uma	Max	46902	8.0	MO
V	Tau	Max	47205	9.7	KB	S	Uma	Max	46903	7.75	KB 4)
TZ	Tau	Max	47161	11.4	MX	S	Uma	Max	47126	8.0	AW
VX	Tau	Max	46825	10.9	MX	S	Uma	Max	47133	8.15	KR
VX	Tau	Max	47136	10.0	MX	S	Uma	Min	47239	11.5	KB
R	Tri	Max	46825	5.8	MK	T	Uma	Max	46905	7.75	KB
R	Tri	Max	46826	6.4	RI	T	Uma	Max	46905	7.7	MO
R	Tri	Max	47091	5.75	KR	T	Uma	Max	47141	6.7	AW
R	Tri	Max	47092	5.85	SU	RS	Uma	Max	46786	8.7	MX
R	Tri	Max	47094	5.8	AW	RS	Uma	Min	46924	14.6	MX
R	Tri	Max	47094	5.8	KB	RS	Uma	Max	47039	10.1	MX
R	Tri	Max	47094	5.8	MK	RS	Uma	Max	47082	10.1	MO
R	Tri	Max	47094	5.85	PI	RU	Uma	Max	46933	9.2	MX
R	Uma	Min	46973	12.7	MX	S	Umi	Max	46919	8.6	MO
R	Uma	Max	47081	6.8	MK	R	Vul	Min	46748	12.8	MX
R	Uma	Max	47084	6.8	KM	R	Vul	Min	47025	13.3	MX
R	Uma	Max	47085	7.15	KR	R	Vul	Max	47087	7.6	MX

B e m e r k u n g e n :

: = unsicher

1) = Buckel im Abstieg

2) = Welle im Anstieg

3) = Stufe im Anstieg

4) = Stufe vor dem Maximum

5) = Welle im Abstieg

6) = Stillstand vor dem Maximum

Alle Helligkeiten im Harvard-System (AAVSO charts)

5 . S R - / R V - / L B - S T E R N E

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
RU	And	Max	46847	10.8	MX	AF	Cyg	Min	46993	7.4	MO
TV	And	Max	46713	9.25	MX	AF	Cyg	Min	47009	7.5	AW
TV	And	Min	46760	10.7	MX	AF	Cyg	Max	47038	6.8	MO
S	Aql	Min	47042	10.6	MX 1)	AF	Cyg	Max	47040	6.8	AW
S	Aql	Min	47044	10.25	KB	AF	Cyg	Min	47074	7.4	AW
S	Aql	Max	47095	9.3	MX	CH	Cyg	Max	47002	7.4	MO
V	Boo	Min	46953	9.6	MX	CH	Cyg	Max	47073	6.8	TH
X	Cnc	Max	47190	6.1	PI	EU	Del	Max	46989	5.7	GE
V	CVn	Max	47259	6.5	AW 3)	RY	Dra	Max	46897	6.3	TH
BC	CMi	Max	47217	6.1	SF	RY	Dra	Max	47078	6.3	TH
BC	CMi	Min	47227	6.5	SF	UX	Dra	Max	46901	6.2	TH
BC	CMi	Max	47237	6.1	SF	UX	Dra	Min	46988	6.7	TH
BC	CMi	Min	47253	6.7	SF	UX	Dra	Max	47071	6.1	TH
BC	CMi	Max	47269	6.0	SF	IS	Gem	Max	46859	4.75	SF
SS	Cep	Min	46931	7.8	TH	IS	Gem	Min	46874	5.95	SF
SS	Cep	Max	47011	7.4	TH	IS	Gem	Max	46902	4.35	SF
AR	Cep	Min	46832	7.9	TH	IS	Gem	Min	46911	5.9	SF
AR	Cep	Max	46990	7.0	TH	IS	Gem	Max	47213	5.3	SF
AR	Cep	Min	47069	8.1	TH	IS	Gem	Min	47231	5.85	SF
AR	Cep	Max	47133	7.3	TH	IS	Gem	Max	47253	5.45	SF
AR	Cep	Min	47212	8.0	TH	IS	Gem	Min	47262	5.9	SF
W	Cyg	Max	47031	5.7	MO	IS	Gem	Max	47271	5.7	SF
RS	Cyg	Min	47045	8.2	KR	IS	Gem	Min	47276	5.9	SF
AF	Cyg	Max	46947	6.8	MO	R	Lyr	Min	46982	4.9	GE
AF	Cyg	Max	46949	6.9	MO	U	Mon	Min	47198	7.35	KR

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
U	Mon	Min	47199	7.1	SM	R	Sct	Max	47061	4.95	KB
U	Mon	Max	47219	: 6.0	SM	R	Sct	Max	47061	4.9	SG
U	Mon	Max	47255	5.75	AW	R	Sct	Max	47114	: 4.8	KR
TX	Oph	Min	47022	: 10.8	MO	Z	UMa	Min	46832	8.25	KR
TX	Per	Min	46848	11.2	MX	Z	UMa	Min	46838	8.2	SU
TX	Per	Min	47151	11.75	KB	Z	UMa	Max	46862	6.65	SU
TX	Per	Max	47183	10.3	: KB	Z	UMa	Max	46865	6.85	KR
TX	Per	Min	47213	: 11.2	: KB	Z	UMa	Min	46911	8.6	KR
R	Sct	Max	46967	: 4.95	SH	Z	UMa	Min	46912	8.75	MO
R	Sct	Min	47021	7.2	MO	Z	UMa	Min	46912	8.5	SU
R	Sct	Min	47023	7.35	HF	Z	UMa	Max	46969	: 7.1	: MO
R	Sct	Min	47024	7.45	KR	Z	UMa	Min	47014	8.05	KR
R	Sct	Min	47025	7.6	AW	Z	UMa	Min	47019	8.3	MO
R	Sct	Min	47025	7.15	KB	Z	UMa	Max	47060	6.85	SU
R	Sct	Min	47025	7.5	SH	Z	UMa	Max	47062	7.0	KR
R	Sct	Min	47025	7.7	SM	Z	UMa	Min	47113	: 8.5	: KR
R	Sct	Min	47026	7.5	SG	Z	UMa	Min	47118	8.7	SU
R	Sct	Max	47061	5.1	AW	Z	UMa	Max	47168	7.25	AW

B e m e r k u n g e n :

: = unsicher

1) = Buckel im Abstieg

Alle Helligkeiten im Harvard-System (AAVSO charts)

6 . E R U P T I V E U N D I R R E G U L A E R E

Stern	Phase	JD 24..	Magn.	Beob.	Stern	Phase	JD 24..	Magn.	Beob.		
rho	Cas	Max	46977	: 4.4	: TH	EM	Cyg	Max	46700	12.9	KT
SS	Cyg	Max	46917	8.7	KB	EM	Cyg	Max	46976	: 12.65	: KT
SS	Cyg	Max	46918	8.4	MO	EM	Cyg	Max	46999	: 12.3	: KT
SS	Cyg	Max	46968	: 8.1	MO	EM	Cyg	Max	47069	12.4	KT
SS	Cyg	Max	46974	: 8.5	KB	EM	Cyg	Max	47090	12.3	KT
SS	Cyg	Max	46976	: 8.6	KT	EM	Cyg	Max	47107	: 12.6	: KT
SS	Cyg	Max	47027	8.6	KB	U	Gem	Max	47271	9.4	KB
SS	Cyg	Max	47028	8.3	MO	AH	Her	Max	46910	: 11.6	: KT
SS	Cyg	Max	47028	8.8	PI	AH	Her	Max	46925	: 11.7	: KT
SS	Cyg	Max	47029	: 9.4	KT	AH	Her	Max	46941	11.8	MO
SS	Cyg	Max	47065	8.4	MO	AH	Her	Max	46990	11.8	KT
SS	Cyg	Max	47065	8.0	PI	AH	Her	Max	46990	11.8	KT
SS	Cyg	Max	47066	8.5	KB	AH	Her	Max	47017	11.3	KT
SS	Cyg	Max	47115	8.8	KB	AH	Her	Max	47078	: 11.1	: KT
SS	Cyg	Max	47117	8.2	MO	X	Leo	Max	47233	12.2	MO
SS	Cyg	Max	47166	8.5	KB	RU	Peg	Max	47040	11.0	MO
SS	Cyg	Max	47168	8.4	MO						

B e m e r k u n g e n :

: = unsicher

Alle Helligkeiten im Harvard-System (AAVSO charts)

7 . K O R R E K T U R E N zu aelteren BAV-Mitteilungen

Nr. 43 eta Aql Max 46247,00 anstelle von 46216,81 GE