

BAV Mitteilungen

Beobachtungsergebnisse
Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V.
(BAV)

(BAV MITTEILUNGEN NR. 62)

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In this 26th compilation of BAV results, observations are given from the years 1992 and 1993 for 973 observed minima and maxima on 362 variables stars including 180 photoelectric results.

Die vorliegenden Ergebnisse wurden überwiegend in den Jahren 1992 und 1993 gewonnen. Insgesamt wurden 973 Ergebnisse aus rund 23.000 Einzelschätzungen bzw. -messungen von 36 Beobachtern abgeleitet. Es werden 255 beobachtete Minima an 121 Bedeckungssternen, 143 Maxima von 77 RR-Lyrae- und Delta Cephei Sternen, 269 Ergebnisse von 123 Mirasternen, 208 Ergebnisse von 26 Halbregelmäßigen und RV Tauri Sternen und 98 Ergebnisse von 15 Eruptiven mitgeteilt.

BEO B A C H T E R :

AG	F. Agerer	Zweikirchen	KLX	P. Klix	Sohland
AW	D. Alteweier	Leverkusen	KR	G. Krisch	Bockenem
BAU	R. Baule	Hildesheim	MO	M. Möller	Timmendorfer Strand
BIC	W. Bickel	Bergisch Gladbach	MS	W. Moschner	Lennebstadt
BR	W. Braune	Berlin	MX	H. Marx	Kornal-Münchingen
BUS	H. Busch	Hartha	MZ	G. Maintz	Bonn
DM	M. Dahm	Bremen	PS	A. Paschke	Rüti <CH>
ENS	P. Enskonatus	Berlin	RAT	M. Rätz	Herges
FR	P. Frank	Veiden/Vils	RRC	K. Rätz	Herges
GEC	C. Geckeler	Saulgau	SC	E. Schröder	Bremen
GI	D. Girrbach	Böblingen	SF	K. Seifert	Hamburg
GOL	H. Goldhahn	Lohmen	SG	P. Sterzinger	Wien <AU>
GS	J. Gensler	Neustadt/Saale	SM	A. Sturm	Saarburg
HH	B. Hassforther	Heidelberg	STP	M. Stumpp	Stuttgart
HIN	R. Hinzpeter	Coswig	SU	H. Schubert	Grosshansdorf
HO	P. Hoffmann	Hannover	TH	A. Thomas	Mainz
JEN	L. Jensen	Horsens <DK>	VOH	F. Vohla	Altenburg
KB	W. Kriebel	Moosburg	WZ	W. Wenzel	Berlin

Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV)

Berliner Arbeitsgemeinschaft für veränderliche Sterne e.V. (BAV) vereinigt mit Arbeitskreis Veränderliche Sterne (AKV)

Neben Privatinstrumenten wurden Instrumente von Volkssternwarten sowie der BAV eingesetzt. Alle angegebenen Zeiten sind heliozentrisch korrigiert. Die Berechnungen für die Kurzperiodischen wurden von Joachim Hübscher vorgenommen. Die B-R aus den Elementen des GCVS wurden ohne Berücksichtigung von Zusatzgliedern berechnet. Der BAV liegen alle Lichtkurven mit Einzelschätzungen und Auswertung vor.

Die 180 lichtelektrischen Beobachtungen wurden von 4 Beobachtern gewonnen, die Geräte und Filter hierfür sind in den jeweiligen Bemerkungen angegeben. Erstmals werden bei einem Teil der lichtelektrischen Beobachtungen die mittleren Fehler der Ergebnisse in der Spalte "+/-" angegeben. Die lichtelektrischen Messungen stellt die Geschäftsstelle auf Wunsch zur Einsicht zur Verfügung.

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

2 1 . B E D E C K U N G S V E R Ä N D E R L I C H E

Stern	Min	JD 24.. +/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem
RT	And	48883.383		GI	+0.001	85		
GZ	And	48925.4726	/ .0004	L AG	+0.0100	85		4)
LO	And	48982.3258	.0005	LV AG	-0.0357	85		3)
		48982.3261	.0007	LB AG	-0.0354	85		3)
DD	Aqr	48500.531	/	F MS	+0.055	85		5)
KO	Aql	48841.4336	.0006	LB BR	+0.0357	85		3)
		48841.4382		LV BR	+0.0403	85		3)
KP	Aql	48840.441	/	DM	-0.005	85		
OO	Aql	48840.464	/	DM	-0.003	85		
		48853.391		GI	+0.001	85		
V346	Aql	48867.452		DM	+0.002	85		
V415	Aql	48803.4753	.0020	LB AG	+0.1174	85		3)
		48803.4767	.0014	LV AG	+0.1188	85		3)
V724	Aql	48834.5022	.0022	LB AG	+0.0508	85	-0.0016 11)	3)
		48834.5038	.0012	LV AG	+0.0524	85	+0.0000 11)	3)
SS	Ari	48987.3137		LV AW	-0.1043	85		1)
		48987.3137		LB AW	-0.1043	85		1)
		48989.343		MZ	-0.105	85		
ZZ	Aur	48686.476	/	F FR	+0.021	85		5)
AH	Aur	48983.3230	.0009	LB AG	+0.2125	85	-0.1087 17)	3)
		48983.3237	.0016	LV AG	+0.2132	85	-0.1080 17)	3)
AP	Aur	48972.4709	.0010	LB AG	-0.0138	85	+0.0647 17)	3)
		48972.4714	.0007	LV AG	-0.0133	85	+0.0652 17)	3)
		49056.4591	/ .0009	L AG	+0.0008	85	+0.0730 17)	4)
BC	Aur	48986.503		FR	-0.495	85		5)
GX	Aur	48985.393	/	F MS	+0.127	85		5)
		48986.544	/	F MS	+0.131	85		5)
		49002.535	/	F MS	+0.057	85		5)
IM	Aur	49018.3034		LB AW	-0.0599	85		1)
		49018.3117		LV AW	-0.0516	85		1)
KO	Aur	49020.4394	/ .0013	LV AG	+0.0411	85		3)
		49020.4400	/ .0015	LB AG	+0.0417	85		3)
TY	Boo	49098.4541	.0002	L AG	+0.0573	85		4)

Stern	Min	JD 24..	+/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem		
TZ	Boo	48802.4153	.0011	LB	AG	+0.0457	85		3)		
		48802.4161	.0002	LV	AG	+0.0465	85		3)		
		49107.4502	/ .0006	L	AG	+0.0438	85		4)		
XY	Boo	49130.5078	.0005	LV	AG	+0.0416	85		3)		
		49130.5078	.0013	LB	AG	-0.0416	85		3)		
ZZ	Boo	49133.479	:		LV AG	+0.038	85		3)		
		49133.481	:		LB AG	+0.040	85		3)		
BW	Boo	49041.563	:		LB AG	-0.005	85		3)		
		49041.566	:		LV AG	-0.002	85		3)		
WW	Cam	48984.3012	/ .0006		LB AG	-0.0260	85		3)		
		48984.3026	/ .0014		LV AG	-0.0246	85		3)		
AK	Cam	49086.4841	.0007	L	AG	-0.1449	85		4)		
TX	Cnc	49077.4515	.0013	LV	AG	+0.0184	85		3)		
		49077.4519	.0010	LB	AG	+0.0188	85		3)		
WY	Cnc	48721.359			DM	-0.001	85				
FR3	Cnc	48985.443		F	FR			+0.000	13) 5) 7)		
		49004.620		F	FR			-0.009	13) 5)		
		49020.501		F	FR			-0.005	13) 5)		
		49030.4270	.0005	LB	AG			-0.0030	13) 3)		
		49030.4284	.0006	LV	AG			-0.0016	13) 3)		
		49030.430		F	FR			+0.000	13) 5)		
		49042.3342	.0007	LB	AG			-0.0041	13) 3)		
		49042.3358	.0007	LV	AG			-0.0025	13) 3)		
		49067.4764	.0007	LV	AG			-0.0017	13) 3)		
		49067.4776	.0006	LB	AG			-0.0005	13) 3)		
		BO	CVn	47624.554			LV AG				2)
				47624.555			LB AG				2)
				47626.630	:		LB AG				2)
				47626.638	:		LV AG				2)
				49056.3672	.0013	LV	AG				3)
		49056.3682	.0009	LB	AG			3)			
R	CMa	49002.426			DM	+0.048	85				
AC	CMi	48653.400	/	F	MS	+0.273	85		5)		
AK	CMi	49061.404	:		LV AG	+0.265	85		3)		
		49061.406	:		LB AG	+0.267	85		3)		
		49067.3509	/ .0005	L	AG	+0.2704	85		4)		
BH	CMi	49041.4088	.0014	LB	AG				3)		
		49041.4109	.0013	LV	AG				3)		
RZ	Cas	48827.540			STP	+0.010	85				
		48887.308			RAT	+0.016	85				
		48894.476			DM	+0.013	85				
		48985.316			RAT	+0.014	85				
		48985.321			RCR	+0.019	85				
		49028.334			RCR	+0.004	85				
TV	Cas	48956.306			DM	-0.002	85				
		48985.318			RAT	+0.009	85				
XX	Cas	48888.3476	.0010	LV	AG	+0.0041	85		3)		
		48888.3481	.0005	LB	AG	+0.0046	85		3)		
IT	Cas	45237.441		F	BUS	+0.022	85		6)		
		46260.527	/	F	BUS	+0.240	85		6)		
V381	Cas	48950.4139	/ .0023	LV	AG	-0.0306	85	-0.0080	14) 3)		
		48950.4180	/ .0019	LB	AG	-0.0265	85	-0.0039	14) 3)		
V445	Cas	48985.2943	.0009	LB	AG	+0.0383	85		3)		
		48985.2945	.0012	LV	AG	+0.0385	85		3)		
V520	Cas	48501.533	/	F	FR	-0.045	85		5)		
V651	Cas	48909.3800	.0001	L	AG			+0.0002	10) 4)		
WY	Cep	49132.4473	.0002	L	AG	+0.0129	85		4)		

Stern	Min	JD 24..	+/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem
CW	Cep	48952.29	/		ENS	+0.00	85		
GS	Cep	48887.5309		.0018	LV AG	+0.1015	85		3)
		48887.5316		.0011	LB AG	+0.1022	85		3)
GW	Cep	48909.2942		.0007	LB AG	+0.0258	85	-0.0038	15) 3)
		48909.2959		.0012	LV AG	+0.0276	85	-0.0021	15) 3)
UX	Com	49062.551 :			LB AG	-0.955	85		3)
		49062.552 :			LV AG	-0.954	85		3)
U	CrB	48746.505			DM	+0.079	85		
RW	CrB	48837.4016		.0022	LV AG	-0.0139	85		3)
		48837.4018		.0013	LB AG	-0.0137	85		3)
CV	Cyg	49133.4821		.0009	L AG	-0.1298	85		4)
GO	Cyg	48844.5110:/		.0010	LB AG	+0.0499	85		3)
		48844.5133:/		.0015	LV AG	+0.0522	85		3)
		48935.319			ENS	+0.061	85		red
V367	Cyg	48791.22			DM	-0.04	85		red
V382	Cyg	48843.4395 /		.0005	LV AG	+0.0285	85		3)
		48843.4397 /		.0005	LB AG	+0.0287	85		3)
V753	Cyg	48762.498			F MS	+0.042	85		5)
		48763.454			F MS	+0.046	85		5)
V828	Cyg	48860.633 :			LV AG	+0.251	85		3)
		48860.635 :			LB AG	+0.253	85		3)
		49118.383 :/			LV AG	+0.195	85		3)
		49118.385 :/			LB AG	+0.197	85		3)
		49119.4320		.0035	LV AG	+0.1915	85		3)
		49119.4325		.0025	LB AG	+0.1920	85		3)
V889	Cyg	49117.4686 /		.0032	LV AG	-0.1232	85		3)
		49117.4693 /		.0014	LB AG	-0.1225	85		3)
V1061	Cyg	48972.2716		.0008	LV AG	-0.0319	85		3)
		48972.2735		.0005	LB AG	-0.0300	85		3)
V1191	Cyg	49099.4613		.0006	L AG	+0.0027	85		4)
RX	Dra	48804.5233		.0016	LV AG	+0.0377	85		3)
		48804.5240		.0020	LB AG	+0.0384	85		3)
		49107.4401		.0008	LV AG	+0.0435	85		3)
		49107.4403		.0008	LB AG	+0.0437	85		3)
		49124.4755 /		.0007	L AG	+0.0401	85		4)
AI	Dra	48747.440			DM	+0.007	85		
AX	Dra	49005.5809		.0004	L AG	-0.0487	85	-0.0057	14) 4)
BE	Dra	48883.3649		.0011	LV AG	+0.0859	85		3)
		48883.3657		.0006	LB AG	+0.0867	85		3)
BU	Dra	48732.451			F MS	+0.106	85	+0.014	18) 5)
CV	Dra	48827.5138		.0011	LB AG	-0.0537	8)		3)
		48827.5143		.0016	LV AG	-0.0532	8)		3)
		49058.4879		.0009	LV AG	-0.0700	8)		3)
		49058.4882		.0014	LB AG	-0.0697	8)		3)
EF	Dra	49132.4789		.0007	LB AG	+0.0034	12)		3)
		49132.4793		.0008	LV AG	+0.0038	12)		3)
CW	Gem	48645.342			F MS	+0.177	85		5)
		48989.380			F MS	+0.194	85		5)
RX	Her	48768.494			DM	+0.016	85		
TX	Her	48827.441 /			DM	+0.003	85		
CT	Her	49116.4385		.0002	L AG	-0.0029	85		4)
DK	Her	49125.4631		.0003	LV AG	-0.0345	85		3)
		49125.4639		.0006	LB AG	-0.0337	85		3)
FN	Her	49045.5706		.0012	LV AG	+0.1183	85		3)
		49045.5716		.0012	LB AG	+0.1193	85		3)
LT	Her	49060.5783		.0010	LB AG	-0.0560	85		3)
		49060.5842		.0009	LV AG	-0.0501	85		3)

Stern	Min	JD 24..	+/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem
V342	Her	48773.4572	.0016	LB	AG	-0.0004	85		3)
		48773.4577	.0021	LV	AG	+0.0001	85		3)
V450	Her	48894.347			BAU	-0.266	85		
		49092.398	:		LB AG	-0.277	85		3)
		49092.407	:		LV AG	-0.268	85		3)
V829	Her	48839.509	.000	LV	AG				3)
		48839.514	.001	LB	AG				3)
EU	Hya	49045.3532	.0007	LV	AG	-0.0170	85		3)
		49045.3537	.0007	LB	AG	-0.0165	85		3)
FG	Hya	49004.5202	.0003	LB	AG	-0.0238	85		3)
		49004.5205	.0005	LV	AG	-0.0235	85		3)
		49004.6796	/ .0010	LV	AG	-0.0283	85		3)
SW	Lac	48892.426			DM	-0.012	85		
		48908.304	/		SF	-0.009	85		
AW	Lac	47777.324			LV AG	+0.095	85	-0.004	16) 2)
		47777.324	:		LB AG	+0.095	85	-0.004	16) 2)
		48882.4695	.0004	L	AG	+0.1048	85	+0.0005	16) 4)
		49130.4720	.0004	L	AG	+0.1089	85	+0.0035	16) 4)
CO	Lac	48840.4435	/ .0004	LV	AG	+0.0030	85		3)
		48840.4442	/ .0005	LB	AG	+0.0037	85		3)
		48850.4571	.0011	LB	AG	-0.0078	85		3)
		48850.4574	.0012	LV	AG	-0.0075	85		3)
		48884.3851	.0021	LV	AG	-0.0083	85		3)
		48884.3858	.0013	LB	AG	-0.0076	85		3)
		48887.4706	.0004	LB	AG	-0.0072	85		3)
		48887.4715	.0004	LV	AG	-0.0063	85		3)
V364	Lac	48881.4300	.0012	L	AG	+0.0362	85		4)
UV	Leo	48721.394	:		DM	+0.015	85		
XX	Leo	49046.575			LV AG	+0.210	85		3)
XZ	Leo	49004.5572	/ .0006	L	AG	+0.0124	85		4)
AL	Leo	49009.487	:		LV AG	-0.079	85	+0.002	9) 3)
		49009.496	:		LB AG	-0.070	85	+0.011	9) 3)
		49029.5605	.0006	LB	AG	-0.7271	85	+0.0062	9) 3)
		49029.5608	.0006	LV	AG	-0.7268	85	+0.0065	9) 3)
AM	Leo	49062.385			GI	+0.006	85		
RZ	Lyn	49002.5533	.0003	L	AG	-0.0356	85		4)
UV	Lyn	49055.4230	.0010	LV	AG	+0.0195	85		3)
		49055.4248	.0006	LB	AG	+0.0213	85		3)
BG	Lyn	48982.5250	.0007	LV	AG				3)
		48982.5251	.0005	LB	AG				3)
FL	Lyr	48796.501			DM	+0.009	85		
beta	Lyr	48512.41			RAT	-0.88	85		red
		48550.88			SU	-1.15	85		red
		48557.45	/		RAT	-1.03	85		red
		48744.89			DM	-0.84	85		red
		48809.55			GEC	-0.75	85		red
		48816.00	/		GEC	-0.76	85		red
		48822.42			SM	-0.80	85		red
		48828.70	/		SM	-0.97	85		red
		48874.00	:		BR	-0.87	85		red
		48913.13			SF	-0.48	85		red
U	Oph	48772.466			DM	+0.012	85		
		48840.393	:/		STP	+0.006	85		
WZ	Oph	49115.4800	.0007	LB	AG	-0.0008	85		3)
		49115.4824	.0007	LV	AG	+0.0016	85		3)
V839	Oph	48778.5024	.0010	LV	AG	+0.0818	85		3)
		48778.5043	.0015	LB	AG	+0.0837	85		3)

Stern	Min	JD 24..	+/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem
FF	Ori	49005.3723	.0004	L	AG	+0.0162	85		4)
FH	Ori	48644.400		F	MS	-0.202	85		5)
FT	Ori	48984.379	/		ENS	+0.665	85		
U	Peg	48957.367	:		GI	-0.043	87		
BX	Peg	48499.540		F	MS	-0.016	87		5)
DI	Peg	48894.376			BAU	-0.001	87		
DK	Peg	48908.311	:		BR	-0.005	87		
EU	Peg	48988.344		F	MS	+0.037	87		5)
GH	Peg	48893.407			DM	+0.009	87		
IK	Per	49005.2907	/	.0017	LV AG	-0.0527	87		3)
		49005.2926	/	.0013	LB AG	-0.0508	87		3)
LX	Per	48993.459	:		LB AG	-0.043	87		3)
		48993.465	:		LV AG	-0.036	87		3)
V482	Per	49060.3243	.0022		LV AG			-0.0173	10) 3)
		49060.3251	.0021		LB AG			-0.0165	10) 3)
V511	Per	48562.35	:	.01	LV AG				2)
		48562.35	:	.01	LB AG				2)
beta	Per	48930.314			MZ	+0.003	87		
CW	Sge	48812.4358	.0011	LB	AG	-0.1215	87		3)
		48812.4391	.0020	LV	AG	-0.1182	87		3)
		48888.3881	.0012	L	AG	-0.1092	87		4)
CC	Ser	49061.5886	/	.0010	LB AG	+0.0655	87		3)
		49061.5892	/	.0008	LV AG	+0.0661	87		3)
Y	Sex	49005.5517	/	.0004	LB AG	+0.0492	87	+0.0492	14) 3)
		49005.5518	/	.0004	LV AG	+0.0493	87	+0.0493	14) 3)
		49057.3942	.0008	L	AG	+0.0436	87	+0.0436	14) 4)
GR	Tau	48971.353			GI	-0.005	87	-0.005	16)
HU	Tau	48982.343			RCR	+0.009	87		
		49019.369			DM	+0.023	87		
V781	Tau	48988.3972	/		LV AW	-0.0200	87		1)
		48988.3972	/		LB AW	-0.0200	87		1)
		48989.2576			LV AW	-0.0219	87		1)
		48989.2576			LB AW	-0.0219	87		1)
W	UMa	48720.424			DM	-0.009	87		
		49004.358			GI	+0.000	87		
TX	UMa	48689.451			DM	+0.101	87		
		49075.401			SU	+0.084	87		
RÜ	UMi	49067.6033	.0003	LB	AG	-0.0075	87		3)
		49067.6035	.0006	LV	AG	-0.0073	87		3)
AG	Vir	49059.5297	.0007	LB	AG	-0.0057	87		3)
		49059.5308	.0006	LV	AG	-0.0046	87		3)
AW	Vir	49101.406			BAU	+0.008	87		
CG	Vir	49116.3889	.0011	LB	AG	-0.2209	87		3)
		49116.3901	.0008	LV	AG	-0.2197	87		3)
Z	Vul	48802.485			DM	-0.010	87		
AT	Vul	48853.553	:		LV AG	-0.083	87		3)
		48853.563	:		LB AG	-0.073	87		3)
		48865.502	:		LV AG	-0.076	87		3)
		48865.504	:		LB AG	-0.074	87		3)
		48881.4189	.0015	LV	AG	-0.0802	87		3)
		48881.4225	.0003	LB	AG	-0.0766	87		3)

Stern	Max	JD 24.. +/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem
TT	Cnc	48990.589	F	MS	+0.042	85	+0.158	S89 2)
VZ	Cnc	48689.332		DM	+0.004	85	+0.011	S90
AQ	Cnc	48984.389 :	F	MS	-0.257	85	-0.257	S93 2)
W	CVn	48800.494 :		SF	-0.091	85	+0.031	S89
		49108.395		KB	-0.072	85	+0.053	S89
		49109.491		KB	-0.080	85	+0.045	S89
X	CMi	49003.461		PS	+0.067	85		
Y	CMi	49004.582		PS	-0.188	85		
RV	CMi	49010.526		PS	-0.033	85		
AA	CMi	49020.395		PS	+0.019	85		
RZ	Cep	48900.334		SF	-0.116	85		
RR	Cet	48985.281		GI	-0.009	85		
S	Com	49094.436		PS	-0.072	85	+0.004	S89
RV	CrB	48773.520		SF	+0.037	85		
		48779.487		SF	+0.036	85		
		48781.472		SF	+0.032	85		
SZ	CrB	48988.701	F	MS	+0.209	85		2)
XZ	Cyg	48881.351 :		GI	-0.162	85	-0.004	3)
BV	Del	48859.453 :		PS	+0.016	85		
DX	Del	48797.483 :		SF	+0.022	85	-0.011	6)
		48832.473		DM	+0.038	85	+0.005	6)
		48886.320		SF	+0.006	85	-0.027	6)
		48930.299		MZ	+0.032	85	-0.001	6)
SW	Dra	48758.470		SF	+0.019	85		
		49109.397		SF	+0.029	85		
RT	Equ	48882.390		PS	+0.029	85		
SV	Eri	48957.473		PS	+0.268	85	+0.230	S91
VZ	Her	48794.468		SF	+0.030	85		
AR	Her	48835.378		SF	+0.181	85	-0.053	S93
		48843.361		SF	+0.174	85	-0.060	S93
		48899.298		SF	+0.177	85	-0.054	S93
		49117.398		KB	+0.185	85	-0.037	S93
RR	Leo	49087.405		WZ	+0.012	85		
		49101.427		WZ	+0.009	85		
SS	Leo	49066.410 :		GI	-0.007	85		
ST	Leo	49073.436		WZ	-0.009	85		
SU	Leo	49065.552		PS	-0.050	85		
RR	Lyr	48796.483		DM	-0.253	85	+0.031	S90
		48830.471		STP	-0.277	85	+0.008	S90
		48926.308		RAT	-0.241	85	+0.049	S90 red
		48985.225		RCR	-0.278	85	+0.015	S90 red
RZ	Lyr	48802.466		SF	-0.004	85		
		48822.408		SF	+0.000	85		
		48844.403		KB	+0.011	85		
CN	Lyr	48812.459		SF	+0.029	85		
		48835.499		SF	+0.032	85		
EZ	Lyr	48833.403 :		GI	-0.111	85	-0.003	S87
		48894.346		HO	-0.098	85	+0.010	S87
AV	Peg	48882.378		GI	+0.014	87		
CG	Peg	48882.379		KB	-0.022	87		
		48883.319		KB	-0.017	87		
KN	Per	48938.268		BR	-0.064	87		
T	Sex	49089.322		SF	-0.061	87		
TU	UMa	49059.402		GI	-0.025	87	+0.004	S86
		49108.462		SF	-0.039	87	-0.010	S86
FU	Vir	48686.538	F	MS	-0.241	87		2)
		48747.426	F	MS	-0.236	87		2)

Stern	Max	JD 24.. +/-	Ph	Obs	B-R 1	GCVS	B-R 2	Bem
W	Gem	49015.38		SM	+0.39	85		red
		49038.57		GOL	-0.16	85		red
		49078.55		SU	+0.25	85		red
zeta	Gem	49012.33		SM	-0.92	85		red
		49013.20		GOL	-0.05	85		red
		49085.12		SU	+0.81	85		red
X	Lac	48398.70		TH	-2.22	85		red
Z	Lac	48890.68		GOL	+0.27	85		red
T	Mon	49000.25		SM	-0.12	85		red
		49000.78		GOL	+0.41	85		red
RS	Ori	49040.89		RAT	+0.12	85		red
CS	Ori	49057.95		KB	-0.62	85		red
AW	Per	47512.70		TH	+1.19	87		red
		48694.60		DM	+0.26	87		red
		48985.25		SM	+0.05	87		red
BM	Per	48984.60		KB	+3.00	87		red
S	Sge	48982.41		RAT	+0.29	87		red
Y	Sgr	48770.80		RAT	+0.79	87		red
		48891.38		SM	+0.12	87		red
BB	Sgr	48883.38		SM	+0.54	87		red
SZ	Tau	48549.31		DM	+0.21	87		red
		49006.05		ENS	+0.38	87		red
S	Vul	48606.00		HH	+8.64	87		red
T	Vul	48797.43		GEC	+0.01	87		red
		48886.16		RAT	+0.03	87		red
U	Vul	48512.38		SM	+0.97	87		red
SV	Vul	48582.00	:	HH	+3.63	87		red
		48893.96		DM	+0.51	87		red

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

: = unsicher

red = reduzierte Ergebnisse

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.		
R	And	Max	48903	9.0	JEN	RU	Aql	Max	48503	10.2	MX
		Max	48924	8.75	KR	OU	Aql	Max	48943:		PS
		Max	48926	8.95	DM	R	Ari	Max	48995	8.35	KR
		Max	48933:	8.4	HIN			Max	48997	8.3	HIN
T	And	Max	48912:	8.8	HIN	R	Aur	Max	48615	8.1	MX
V	And	Max	48980:	10.2	HIN			Max	49073	7.55	GOL
W	And	Max	48655	7.6	DM	W	Aur	Max	48646	8.8	HIN
Y	And	Min	48280	14.8	MX			Max	48647	8.4	MX
		Max	48605	8.8	MX	X	Aur	Min	48643	12.9	MX
RR	And	Max	48991	9.1	HIN			Min	48650	12.5	MO
TU	And	Max	48629	8.5	MX			Max	48723	9.1	MO
		Max	48954:	8.1	HIN			Max	48897:	9.3	MO
UW	And	Max	48283	10.2	MX			Min	48986	12.0	MO
R	Aql	Max	48795	6.5	HH			Min	48987	12.2	MX
		Max	48803	6.4	KR			Max	49052	8.5	HIN
		Max	49073	6.0	KR			Max	49060	9.0	MO
RT	Aql	Max	48878	8.85	DM	RU	Aur	Max	48265	9.9	MX

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.		
SZ	Aur	Max	48612	10.6	MX						
R	Boo	Max	48765	6.65	GOL	R	Cyg	Max	48888	8.4	MO 1)
		Max	48765	7.8	MO			Max	48895	7.9	BAU
		Max	48765	7.4	VOH			Max	48896	7.1	GOL
		Max	48767	6.6	KR			Max	48899	7.3	KR
		Max	48770	7.3	DM	RT	Cyg	Max	48767	6.8	HIN
		Max	48770:	7.1	HIN			Max	48769	6.8	GOL
S	Boo	Min	48370	13.5	MX			Max	48771	7.5	VOH
RR	Boo	Min	48413	14.5	MX			Max	48773	6.9	DM
		Max	48504	9.3	MX			Min	48871	11.8	BAU
V	Cam	Max	48615	9.5	MX			Min	48875	11.3	VOH
W	Cam	Max	48290	9.8	MX			Max	48946	7.9	GOL
X	Cam	Min	48626	13.5	MX			Max	48956	7.4	HIN
		Max	48688	8.1	HIN			Max	48959	7.5	HH
		Max	48690	8.2	MX			Max	48960	7.3	SU
		Min	48769	12.6	MX			Max	48972	7.8	VOH
		Max	48835	8.0	MX	BG	Cyg	Min	48526	11.8	MX
		Min	48919	14.3	MX	CN	Cyg	Max	48564	9.1	MX
		Max	48986	8.8	HIN	CU	Cyg	Min	48566	14.1	MX
TX	Cam	Max	48571	9.6	MX	DD	Cyg	Min	48498	12.5	MX
R	Cnc	Max	48567	6.8	DM			Max	48563	9.8	MX
V	Cnc	Max	48633	7.9	DM	V369	Cyg	Min	48559	13.9	MX
R	CVn	Max	48826	8.0	HIN			Max	48610	9.9	MX
T	CVn	Min	48405	12.4	MX	chi	Cyg	Max	48688	5.9	JEN
SY	CMa	Max	48321:	9.4	MX			Max	48692	5.65	KR
R	CMi	Max	49026	8.3	JEN			Min	48905	13.2	JEN
T	CMi	Max	48675	10.0	MX			Max	49087	5.0	JEN
		Max	48990	10.2	MX			Max	49087	4.25	KR
R	Cas	Min	48635	12.2	MX	V	Del	Max	48878	10.9	JEN
		Max	48799	6.4	JEN	RX	Del	Min	48502	15.0	MX
S	Cas	Max	48789:	10.4	JEN			Max	48581	10.5	MX
V	Cas	Max	48917	7.6	KR	R	Dra	Max	48709	7.8	MO
		Max	48919	7.8	VOH			Max	48711	7.8	DM
		Max	48923	7.6	HIN			Max	48712	7.8	GOL
W	Cas	Max	48288	9.1	MX			Min	48854	12.8	MO
		Max	48667	8.7	HIN			Min	48854	12.8	MX
X	Cas	Max	48617	9.3	MX			Max	48955	7.7	GOL
Y	Cas	Max	49016:	9.6	HIN			Max	48957	7.5	KR
RR	Cas	Max	48582	10.9	MX			Max	48958	7.1	MO
RV	Cas	Max	48646	9.6	MX			Max	48959	7.5	HIN
		Max	48987	9.1	HIN			Max	48960	7.5	SU
SS	Cas	Max	48650	9.3	MX	W	Dra	Min	48782	14.8	MX 2)
VZ	Cas	Min	48329	13.7	MX			Max	48897	9.9	MX
V667	Cas	Max	48962	9.2	HIN	X	Dra	Max	48803	10.9	MX
T	Cep	Min	48744	10.3	MX	RT	Dra	Max	48562	10.1	MX
		Max	48939	5.8	MX	RV	Dra	Max	48337	10.9	MX
		Max	48945	5.65	GOL	V	Gem	Max	49036:	8.4	HIN
		Max	48953	5.25	KR	X	Gem	Max	48305	8.1	MX
		Max	48955	6.2	VOH	ST	Gem	Max	48984	9.1	MX
Z	Cep	Max	48295	10.7	MX	S	Her	Max	48733	7.0	KR
RR	Cep	Max	48613	11.6	MX			Max	48734	6.85	GOL
		Max	49008:	10.0	HIN			Min	48879	12.8	MX
V362	Cep	Max	48380	11.5	MX			Max	49046	7.0	KR
S	CrB	Min	48785	12.6	MX	T	Her	Max	48760	7.5	DM
R	Cyg	Max	48879	8.05	DM			Max	48760	7.0	KR
		Max	48885	8.3	VOH			Max	48764	7.5	VOH
		Max	48886:	7.5	HH			Max	48765	7.5	HIN
								Max	48767	7.3	KLX

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.				
T	Her	Min	48858	12.8	MX	R	Per	Min	48621	14.1	MX		
		Max	48921	7.45	KR			Max	48936:	8.9	HIN		
		Max	48922	7.6	HIN	Y	Per	Max	48671	8.4	MO		
		Max	49091	7.5	KR	U	Psc	Max	48273	11.0	MX		
W	Her	Min	48822	13.7	MX			Max	48618	11.6	MX		
RS	Her	Max	48915	8.2	HIN	R	Ser	Max	48719	6.8	DM		
RV	Her	Max	48852	11.1	MX			Max	48719	6.7	KR		
RY	Her	Min	48466	14.1	MX			Max	49084	6.25	KR		
SS	Her	Min	48811	13.3	MX	BG	Ser	Max	48441	9.6	MX		
		Max	48864	9.1	MX	V	Tau	Min	48654	14.1	MX		
SY	Her	Min	48475	12.2	MX			Min	48991:	14.4	MX		
UZ	Her	Max	48515	8.2	MX	RU	Tau	Max	48293	11.0	MX		
VY	Her	Max	48511	9.5	MX	RX	Tau	Max	48610	9.7	MX		
AS	Her	Max	48516	9.0	MX	VX	Tau	Max	48326	9.9	MX		
CF	Her	Max	48519	9.3	MX			Max	48619	10.3	MX		
DN	Her	Max	48429	10.9	MX	R	Tri	Max	48970	6.2	HIN		
DO	Her	Max	48477	10.3	MX			Max	48977	6.35	SU		
S	Lac	Min	48487	13.1	MX			Max	48979	6.4	VOH		
R	Leo	Max	48558	5.3	DM			Max	48983	6.65	GOL		
		Min	48727	9.7	DM			Max	48983	6.45	KR		
		Min	48731	9.35	KR	R	UMa	Min	48487	12.4	MX		
		Min	48742	9.3	MZ			Max	48905	7.9	GOL		
		Min	48748	10.1	MO			Max	48907	7.9	KR		
		Min	49041	10.25	KR			Max	48909	7.8	KLX		
		Min	49047	10.3	JEN			Max	48915:	8.0	RCR		
		Min	49048	10.2	HO			Max	48915	7.5	VOH		
S	Leo	Max	48313	10.6	MX			Max	48919	8.0	HIN		
V	Leo	Min	48348	14.1	MX			Min	49075	13.1	JEN		
		Max	48736	8.6	MX	S	UMa	Max	48711	8.4	KLX		
RS	Leo	Max	48344	9.8	MX			Max	48720	7.95	KR		
W	Lyr	Max	48846	7.9	MO			Max	48721	8.3	GOL		
		Max	48850	7.6	GOL			Max	48723:	8.0	JEN		
		Max	48852	7.9	KR			Min	48825	11.6	MX		
		Max	48853	8.15	DM			Max	48941	8.0	KLX		
RW	Lyr	Max	48446	13.1	MX			Max	48941	7.7	SU		
SS	Lyr	Min	48453	14.2	MX			Max	48942	7.5	KR		
AB	Lyr	Max	48531	11.1	MX			Max	48948	8.0	JEN		
V	Mon	Max	48667	7.4	DM	T	UMa	Max	48689	7.9	JEN		
ST	Mon	Max	48270	10.2	MX			Max	48697	7.8	DM		
X	Oph	Max	48721	6.85	HH			Max	48697	7.9	GOL		
		Min	48863:	9.2	KLX			Max	48699	7.5	KR		
		Min	48900:	8.65	HH			Min	48854	12.9	MX		
RU	Oph	Min	48453	13.4	MX			Max	48955	8.2	JEN		
		Max	48539	9.1	MX			Max	48957:	8.1	HIN		
RX	Oph	Max	48500	9.3	MX			Max	48959	8.1	KR		
RY	Oph	Min	48892	12.4	MX			Max	48967:	8.1	KLX		
V450	Oph	Max	48464	10.9	MX	RS	UMa	Min	48752	15.0	MX		
U	Ori	Max	48584	7.6	DM			Max	48863	9.1	MX		
		Max	48929	6.7	MO			RU	UMa	Max	48440	9.0	MX
		Max	48930	7.0	JEN	S	UMi	Min	48403	12.7	MX		
RR	Ori	Max	48275	10.9	MX	U	UMi	Max	48684	8.2	HIN		
T	Peg	Max	48931	9.4	MO			Min	48792	11.3	VOH		
Z	Peg	Min	48583	13.5	MX			Max	48997	7.6	HIN		
RZ	Peg	Min	48574	13.1	MX	R	Vir	Min	48718	10.3	DM		
SS	Peg	Max	48599	7.7	MX			Max	48777	7.1	HIN		
SX	Peg	Max	48584	8.5	MX			Max	48780	7.4	VOH		
DL	Peg	Max	48571	10.8	MX			Max	48781	7.1	GOL		

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.		
R	Vir	Max	48781	7.15	KR	R	Vul	Max	48869	8.0	DM
U	Vir	Min	48395	12.3	MX			Max	48869	7.75	KR
R	Vul	Max	48860	7.9	BAU			Min	48940	12.3	MX
		Max	48862	8.3	VOH						

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

: = unsicher

Alle Helligkeiten im Harvard-System (AAVSO charts)

1) = Welle im Anstieg

2) = Stillstand im Anstieg

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.		
S	Aql	Min	48932	11.9	MX	RX	Boo	Min	48725	8.3	HH
V	Boo	Min	48614:	9.25	HH	W	Cyg	Min	48551:	6.9	MO
		Max	48668	8.4	HH			Min	48758	6.15	GOL
		Min	48744	9.25	HH			Min	48761	6.9	: MO
		Max	48802:	8.2	HH			Min	48762	6.5	HH
		Min	48846	8.9	HH			Max	48814	5.8	: MO
		Max	48924	8.1	HH			Max	48817	5.4	GOL
		Min	48991	9.15	HH			Max	48818	5.5	HH
RV	Boo	Min	47680:	8.75	HH			Min	48884:	6.6	HH
		Max	47790	8.5	HH			Min	48885	6.15	GOL
		Min	47870:	9.3	HH			Min	48889	7.0	MO
		Max	47990	8.3	HH			Max	48942	5.8	: MO
		Min	48125:	8.85	HH			Max	48948	5.45	HH
		Max	48220	8.15	HH			Min	49012	6.7	HH
		Min	48310:	8.8	: HH			Min	49015:	6.7	MO
		Max	48480	8.05	HH			Max	49074	5.8	HH
		Min	48670:	8.65:	HH	RS	Cyg	Max	48510	7.25	HH
		Max	48765:	8.5	: HH			Min	48766	8.9	KR
		Min	48850:	8.7	HH			Min	48783	8.7	HH
		Max	48920:	8.4	: HH			Max	48977	7.3	HH
RW	Boo	Min	47740	8.55	HH	RV	Cyg	Min	48390	8.35	HH
		Max	47950	7.9	HH			Max	48510:	8.0	HH
		Min	48130	8.45	HH			Min	48640:	8.4	HH
		Max	48350	8.0	HH			Max	48750:	8.05	HH
		Min	48640	8.5	HH			Min	48805:	8.2	HH
		Max	48760	8.0	HH			Max	48910	7.95	HH
		Min	48960	8.75	HH			Min	49075:	8.4	HH
RX	Boo	Min	47725	7.75	HH	AF	Cyg	Min	48574	7.5	HH
		Max	47825	7.45	HH			Max	48615	6.4	HH
		Min	47880	7.85	HH			Max	48790:	7.3	HH
		Max	47945	7.6	HH			Min	48845	8.2	SM
		Min	48050	7.95	HH			Min	48850	7.6	HH
		Max	48150	7.65	HH			Max	48928	7.35	SM
		Min	48270	8.25	HH			Max	48930	7.35	HH
		Max	48325	8.1	HH	AI	Cyg	Max	48745	8.75	HH
		Min	48400	8.5	HH			Min	48825:	9.05	HH
		Max	48495	7.75	HH			Max	48895:	8.85	HH
		Min	48600	8.4	HH			Min	48970	9.45	HH
		Max	48665	8.05	HH	AW	Cyg	Max	48360	8.7	HH

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.
AW	Cyg	Min 48680:	9.05	HH	U	Mon	Min 48965:	7.2	HH
		Max 48770:	8.8	HH			Max 48986	6.2	HH
		Min 48990:	9.0	HH			Min 49006	6.55	HH
CH	Cyg	Max 48430:	8.75	HH			Min 49007	6.7	GOL
		Min 48485:	9.1	HH			Min 49008	7.2	KR
		Max 48535:	8.6	HH			Max 49025	6.65	KR
		Max 48740	8.6	HH			Max 49027:	6.15	HH
		Min 48810:	8.9	HH			Max 49031	6.35	GOL
		Min 48905:	8.65	HH			Max 49055	7.15	SM
EU	Del	Min 48782	6.5	DM			Min 49056	7.25	KR
		Min 48906	6.55	DM			Min 49057	7.15	GOL
TX	Dra	Min 48072	7.85	SU			Min 49057	7.0	HH
		Max 48142	7.0	SU			Max 49075:	5.8	GOL
		Max 48153	7.1	DM	X	Mon	Max 48990	7.75	HH
		Max 48558	7.4	SU	SY	Per	Min 48303	11.8	MX
		Max 48864	7.65	DM			Max 48519	9.1	MX
SS	Gem	Min 48573	9.5	MO	R	Sct	Max 48385	5.2	HH
		Max 48599	8.9	MO			Min 48420	6.15	HH
		Min 48622	9.4	MO			Max 48467	5.05	HH
		Max 48637	8.8	MO			Min 48492:	5.6	HH
		Min 48661	9.5	MO			Max 48519	5.25	HH
		Min 48930	9.5	MO			Min 48556	6.9	HH
		Max 48960	8.5	MO			Max 48774:	5.2	HH
		Min 48977	9.5	MO			Max 48804	5.5	DM
		Max 48995	8.5	MO			Min 48837	5.9	DM
		Min 49018	9.5	MO			Min 48838:	5.55	HH
		Max 49043	8.5	MO			Min 48847	5.7	SM
		Min 49068:	9.5	MO			Min 48859	5.8	KR
		Max 49083:	8.8	MO			Max 48868	5.35	HH
AC	Her	Min 47754	8.25	SM			Max 48872	5.5	DM
		Max 47775	7.9	SM			Max 48876	5.3	KR
		Min 47793	8.75	SM			Max 48878	5.45	SM
		Max 47816	7.7	SM			Min 48915	6.9	SM
		Min 48740	7.95	GOL			Min 48916	6.6	KR
		Min 48775	8.5	SM			Min 48917	6.65	HH
		Min 48779	8.6	GOL			Min 48918	7.0	SG
		Min 48779:	8.45	HH			Min 48919		DM
		Max 48792:	7.85	SM			Min 49057:	7.25	HH
		Min 48813	7.95	GOL			Min 49059	7.6	KR
		Min 48852	8.5	GOL			Max 49085	5.05	HH
		Min 48854	9.0	SM			Max 49087	4.8	KR
		Max 48875:	7.85	SM	RV	Tau	Min 48546	10.5	MO
		Min 48890	8.0	GOL			Max 48556	9.4	MO
		Min 48925	8.8	SM			Min 48581	10.4	MO
		Min 48927	8.35	GOL			Max 48600	9.7	MO
		Min 48929	8.3	HH			Min 48611	10.4	MO
		Max 48948	7.85	SM			Max 48634	9.6	MO
		Min 48967:	7.8	HH			Min 48661	10.6	MO
		Max 48984:	7.5	HH			Max 48677	9.2	MO
		Min 49003:	8.4	HH			Min 48699	10.5	MO
		Max 49098:	7.25	HH			Max 48916	9.6	MO
g	Her	Min 48734	5.25	GOL			Min 48933	10.4	MO
		Max 48763	4.65	GOL			Max 48947	9.9	MO
		Min 48795:	4.9	SM			Min 48972	10.8	MO
		Min 48803	5.3	GOL			Max 48997	10.0	MO
		Max 48880	4.7	GOL			Min 49011	10.6	MO
		Min 48927	4.8	GOL			Min 49053	10.75	MO

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.
RV	Tau	Max	49069	9.8 : MO	Z	UMa	Max	48908	6.8 KR
Z	UMa	Max	48436	7.55 DM	V	UMi	Min	48713	8.5 GOL
		Max	48516	6.85 DM			Max	48744	7.7 GOL
		Min	48597	8.95 DM			Min	48783	8.2 GOL
		Max	48712	6.85 KR			Max	48824	7.55 GOL
		Max	48714	7.05 DM			Min	48862	8.5 GOL
		Min	48788	9.1 DM			Max	48891	7.6 GOL
		Min	48798	8.8 KR	RU	Vul	Max	48848	8.7 KR

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

: = unsicher

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 Ä R E

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.
RX	And	Max	48632	10.4 JEN	Z	Cam	Max	48642	10.6 JEN
		Max	48876	10.7 MO			Max	48643	11.1 MO
		Max	48893	11.4 MO			Max	48669	10.1 MO
		Max	48894	11.3 JEN			Max	48670	10.2 JEN
		Max	48925	11.4 MO			Max	48721	11.1 MO
		Max	48939	11.5 JEN			Max	48724	11.0 JEN
		Max	48963	10.3 JEN			Max	48743	11.1 MO
		Max	48984	11.1 JEN			Max	48816	10.7 MO
		Max	48985	11.4 MO			Max	48837	11.1 MO
		Max	49005	11.1 : JEN			Max	48860	10.4 MO
		Max	49005	11.0 MO			Max	48883	11.1 MO
		Max	49015	11.1 JEN			Max	48896	11.2 MO
		Max	49015	11.7 MO	SY	Cnc	Max	48601	11.6 MO
		Max	49038	11.0 MO			Max	48648	11.2 MO
		Max	49040	10.8 JEN			Max	48674	11.6 MO
AR	And	Max	48917	12.0 MO			Max	48711	11.4 MO
RW	Aur	Min	48541	11.1 MO			Max	49002	11.3 MO
		Max	48555	10.2 MO	YZ	Cnc	Max	49005	10.9 MO
		Min	48600	11.5 MO	SS	Cyg	Max	48512	8.4 JEN
		Max	48615	10.4 MO			Max	48590	8.7 JEN
		Min	48626	11.3 MO			Max	48656	8.4 JEN
		Max	48642	10.6 MO			Max	48720	8.2 MO
		Min	48676	11.8 MO			Max	48721	8.5 JEN
		Max	48682	10.6 MO			Max	48783	8.4 JEN
		Max	48717	10.4 MO			Max	48839	8.3 MO
		Min	49062	11.3 : GS			Max	48840	8.6 KR
		Max	49066	10.6 GS			Max	48841	8.55 KB
		Min	49072	11.0 GS			Max	48842	8.3 JEN
SS	Aur	Max	48571	11.1 MO			Max	48898	8.4 JEN
		Max	48642	11.2 JEN			Max	48898	8.3 MO
		Max	48642	11.6 MO			Max	48975	8.2 MO
		Max	48711	11.0 JEN			Max	48976	8.3 JEN
		Max	48940	11.0 JEN			Max	48977	8.5 KR
		Max	49002	10.8 JEN			Max	49057	8.3 JEN
		Max	49002	10.7 MO			Max	49131	8.4 JEN
		Max	49054	10.9 MO	U	Gem	Max	48620	9.9 JEN
		Max	49055	11.1 JEN			Max	48742	9.5 MO

Stern	Ph.	JD24..	Magn.	Obs.	Stern	Ph.	JD24..	Magn.	Obs.
U	Gem	Max 49066	9.1	GS	KT	Per	Max 48893	12.3	MO
		Max 49070	9.3	JEN			Max 48917	12.3	MO
AH	Her	Max 48559	11.0	MO			Max 48930	12.3	MO
		Max 48812	11.5	MO	CQ	Tau	Max 48559	10.0	MO
		Max 48831	11.4	MO			Max 48618	9.7	MO
		Max 48852	11.4	MO			Min 48662	10.7	MO
		Max 48867	11.4	MO			Max 48674	10.1	MO
		Max 49003	11.2	MO			Min 48690	10.7	MO
		Max 49087	12.1	JEN	SU	UMa	Max 49047	11.0	JEN
		Max 49105	11.5	JEN			Max 49048	10.9	MO
		Max 49127	11.7	JEN	SW	UMa	Max 48705	10.8	MO
X	Leo	Max 49041	12.1	MO			Max 49036	11.3	MO

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

: = unsicher

Alle Helligkeiten im Harvard-System (AAVSO charts)

1) = Stillstand nach dem Maximum

Stern	Ph.	JD24..	Magn.	Obs.	Korrektur
U	Mon	Min 48688	7.65	KR	Min statt Max