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**CCD TIMES OF MINIMA OF SELECTED ECLIPSING BINARIES**

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**Observatory and telescope:**

N. Copernicus Observatory and Planetarium in Brno  
– 16" Newtonian telescope (f/1750 mm) (RL400)  
– 3" refractor (f/340 mm)(RF80)  
Vyškov observatory (part of N. Copernicus Observatory and Planetarium in Brno)  
– 12" Newtonian telescope (RL300)

**Detector:**

765 × 510+ SBIG ST7 CCD camera (RL400 and RL300)  
1530 × 1020+ SBIG ST8 CCD camera (RF80)

**Method of data reduction:**

Reduction of the CCD frames was made with a software package C-Munipack<sup>1</sup>.

**Method of minimum determination:**

The minima times were computed using several procedures written by A. Gaspani (1995) based on artificial neural networks.

**Times of minima:**

Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AB And	52492.4235	0.0010	I	R	MZ; RF80
AB And	52505.5330	0.0011	II	R	MZ; RF80
AB And	52504.5390	0.0012	II	R	MZ; RF80
AB And	52507.5250	0.0013	II	R	MZ; RF80
AB And	52655.3819	0.0013	I	R	MZ; RF80
DO And	52901.6090	0.0032	I	R	MZ; RL400
FK And	51924.3545	0.0069	I	C	MZ; RL400; normal
GZ And	52145.5392	0.0018	II	R	MZ; RL400
GZ And	52941.4809	0.0020	I	I	MZ; RL400
GZ And	52941.4810	0.0020	I	V	MZ; RL400
GZ And	52941.4812	0.0019	I	R	MZ; RL400
GZ And	52941.3279	0.0019	II	R	MZ; RL400
GZ And	52941.3283	0.0019	II	V	MZ; RL400
GZ And	52941.3281	0.0020	II	I	MZ; RL400

<sup>1</sup>Motl, D., 2004, C-Munipack, <http://integral.sci.muni.cz/cmunicipack/>

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
GZ And	52982.5053	0.0020	II	V	MZ; RL400
GZ And	52982.5054	0.0019	II	I	MZ; RL400
GZ And	52982.5049	0.0020	II	R	MZ; RL400
GZ And	53000.5011	0.0011	II	R	MZ; RL400
GZ And	53000.5017	0.0011	II	I	MZ; RL400
GZ And	53000.5016	0.0012	II	V	MZ; RL400
LM And	52901.5767	0.0028	I	R	MZ; RL400
LO And	52901.6184	0.0022	I	R	MZ; RL400
LT Aql	52437.4401	0.0052	I	C	MZ; RL400; normal
V407 Aql	52495.4810	0.0037	I	C	MZ; RL400
V415 Aql	52002.5857	0.0043	I	C	MZ; RL400
V415 Aql	52145.4240	0.0028	I	C	MZ; RL400
V479 Aql	52504.5063	0.0058	I	C	MZ; RL400
V737 Aql	52859.4332	0.0040	I	C	MZ; RL400
V760 Aql	52504.4680	0.0029	I	C	MZ; RL400
V761 Aql	52139.4160	0.0049	I	C	MZ; RL400
V761 Aql	52495.5089	0.0047	I	C	MZ; RL400
V761 Aql	52878.3351	0.0025	I	C	MZ; RL400; normal
V770 Aql	52133.5417	0.0015	I	C	MZ; RL400
V770 Aql	52141.5059	0.0059	I	V	MZ; RL400
V770 Aql	52141.5040	0.0057	I	R	MZ; RL400
V770 Aql	52141.5047	0.0056	I	C	MZ; RL400
V770 Aql	52877.4324	0.0025	I	R	MZ; RL400
V770 Aql	52877.4326	0.0025	I	V	MZ; RL400
V770 Aql	52877.4318	0.0024	I	C	MZ; RL400
V784 Aql	52141.4645	0.0021	I	C	MZ; RL400
V784 Aql	52141.4651	0.0021	I	R	MZ; RL400
V784 Aql	52141.4624	0.0055	I	V	MZ; RL400
V784 Aql	52898.4117	0.0045	I	I	MZ; RL400
V784 Aql	52898.4118	0.0045	I	V	MZ; RL400
V784 Aql	52898.4119	0.0044	I	R	MZ; RL400
V917 Aql	51777.3635	0.0040	I	C	MZ; RL400
V919 Aql	52138.3664	0.0040	I	C	MZ; RL400
V1168 Aql	52138.5112	0.0025	I	C	MZ; RL400
V1168 Aql	52147.4187	0.0020	I	C	MZ; RL400
V1341 Aql	52147.3672	0.0046	II	C	MZ; RL400
V1341 Aql	52440.4354	0.0049	II	C	MZ; RL400
V1341 Aql	52504.4277	0.0034	I	C	MZ; RL400
V1341 Aql	52859.5159	0.0022	I	C	MZ; RL400
V1341 Aql	52859.3619	0.0022	II	C	MZ; RL400
BF Aur	52274.5611	0.0050	I	R	MZ; RF80+RL400; normal
BF Aur	52279.3012	0.0017	I	R	MZ; RL400
II Aur	53029.4374	0.0049	I	C	MZ; RL400
IZ Aur	52274.4748	0.0041	I	R	MZ; RL400
LV Aur	51985.5093	0.0049	I	C	MZ; RL400; normal
MO Aur	52696.4068	0.0044	I	C	MZ; RL400
MO Aur	53028.2109	0.0056	I	C	MZ; RL400; normal
V523 Aur	53109.3795	0.0018	I	V	MZ; RL400
V523 Aur	53109.3795	0.0017	I	R	MZ; RL400
V523 Aur	53110.3709	0.0025	I	R	MZ; RL400
V523 Aur	53110.3720	0.0026	I	V	MZ; RL400
SU Boo	52730.3934	0.0053	I	R	MZ; RL400
TU Boo	52362.5021	0.0035	II	R	MZ; RL400
TU Boo	52730.4029	0.0048	II	R	MZ; RL400
ZZ Boo	52767.4833	0.0016	I	R	MZ; RF80
AC Boo	51965.6506	0.0016	II	C	MZ; RL400
AC Boo	52062.3969	0.0025	I	C	MZ; RL400; normal

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AQ Boo	52730.4004	0.0059	I	R	MZ; RL400
AR Boo	51965.4811	0.0022	I	C	MZ; RL400
AR Boo	51965.6553	0.0053	II	C	MZ; RL400
AR Boo	52062.3879	0.0057	I	C	MZ; RL400; normal
AR Boo	52365.5369	0.0032	I	R	MZ; RL400
AR Boo	52730.4160	0.0049	I	R	MZ; RL400
EF Boo	52440.5157	0.0014	I	V	MZ; RF80
EF Boo	53029.6537	0.0018	I	R	MZ; RF80
EF Boo	53056.5664	0.0013	I	R	MZ; RF80
FY Boo	52745.4048	0.0031	II	I	MZ; RL400
FY Boo	52745.4035	0.0031	II	R	MZ; RL400
FY Boo	52745.4063	0.0031	II	V	MZ; RL400
FY Boo	52745.5246	0.0031	I	V	MZ; RL400
FY Boo	52745.5246	0.0031	I	I	MZ; RL400
FY Boo	52745.5254	0.0031	I	R	MZ; RL400
FY Boo	52767.3495	0.0031	II	R	MZ; RL400
FY Boo	52767.3499	0.0031	II	I	MZ; RL400
FY Boo	52767.3500	0.0030	II	V	MZ; RL400
FY Boo	52767.4705	0.0032	I	V	MZ; RL400
FY Boo	52767.4711	0.0032	I	I	MZ; RL400
FY Boo	52767.4712	0.0032	I	R	MZ; RL400
FY Boo	53156.4594	0.0022	I	R	MZ; RL400
FY Boo	53156.4590	0.0022	I	I	MZ; RL400
FY Boo	53156.4595	0.0021	I	V	MZ; RL400
FY Boo	53156.3395	0.0019	II	V	MZ; RL400
FY Boo	53156.3391	0.0011	II	I	MZ; RL400
FY Boo	53156.3390	0.0011	II	R	MZ; RL400
44i Boo	52365.6019	0.0015	II	V	MZ; RF80
44i Boo	53083.6254	0.0050	II	R	MZ; RF80
AZ Cam	53028.5207	0.0023	I	R	MZ; RF80
WX Cnc	52730.3356	0.0042	I	R	MZ; RL400
AO Cnc	52723.3600	0.0053	I	R	MZ; RL400
EH Cnc	52279.5445	0.0041	I	C	MZ; RL400
EH Cnc	52730.3969	0.0052	II	R	MZ; RL400
GQ Cnc	52279.6194	0.0056	II	C	MZ; RL400
CI CVn	52697.3768	0.0012	I	R	MZ; RF80
CI CVn	52745.5142	0.0009	I	I	MZ; RF80
R CMa	52695.3903	0.0035	I	R	MZ; RF80
FZ CMa	53056.4195	0.0048	I	R	MZ; RF80
TU CMi	51580.4719	0.0047	I	C	MZ; RL400; normal
TU CMi	51965.3588	0.0030	I	C	MZ; RL400
TU CMi	52002.4149	0.0020	II	C	MZ; RL400; normal
TU CMi	52279.6072	0.0043	I	R	MZ; RL400
TU CMi	52279.6060	0.0050	I	C	MZ; RL400
TU CMi	52362.3940	0.0056	I	C	MZ; RL400
TU CMi	52367.3786	0.0033	II	R	MZ; RL400
TU CMi	52367.3743	0.0034	II	C	MZ; RL400
TU CMi	52369.3248	0.0093	I	V	MZ; RL400
TU CMi	52369.3290	0.0038	I	R	MZ; RL400
TU CMi	52369.3261	0.0039	I	C	MZ; RL400
TU CMi	52668.4031	0.0065	I	R	MZ; RL400
TU CMi	52668.4037	0.0063	I	I	MZ; RL400
TU CMi	52668.4000	0.0061	I	V	MZ; RL400
TX CMi	51876.5559	0.0042	I	C	MZ; RL400; normal
TX CMi	51965.2990	0.0018	I	C	MZ; RL400
TX CMi	51985.3428	0.0039	II	C	MZ, KK; RL400+RL300; normal
TX CMi	51924.4321	0.0012	I	C	MZ; RL400
TX CMi	52279.5917	0.0054	II	C	MZ; RL400
TX CMi	52279.5915	0.0022	II	R	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
TX CMi	52362.3002	0.0014	I	C	MZ; RL400
TX CMi	52367.3610	0.0042	I	C	MZ; RL400
TX CMi	52367.3614	0.0022	I	R	MZ; RL400
TX CMi	52369.3125	0.0068	I	C	MZ; RL400; normal
TX CMi	52369.3036	0.0056	I	R	MZ; RL400; normal
TX CMi	52668.4196	0.0058	II	R	MZ; RL400
TX CMi	52668.4205	0.0056	II	I	MZ; RL400
TX CMi	52668.4219	0.0055	II	V	MZ; RL400
TX CMi	52668.2266	0.0060	I	V	MZ; RL400; normal
TX CMi	52668.2263	0.0061	I	I	MZ; RL400; normal
TX CMi	52668.2264	0.0038	I	R	MZ; RL400; normal
TX CMi	53000.4215	0.0038	II	R	MZ; RL400
TX CMi	53000.4210	0.0037	II	V	MZ; RL400
XZ CMi	52362.2912	0.0019	I	C	MZ; RL400
YY CMi	52672.5204	0.0055	I	R	MZ; RL400
BF CMi	52683.3959	0.0051	I	R	MZ; RF80
AL Cas	52274.5048	0.0033	I	C	MZ; RL400; normal
GH Cas	51467.3204	0.0032	I	C	MZ; RL400
IR Cas	52145.5187	0.0015	I	R	MZ; RL400
IR Cas	52908.5656	0.0015	I	R	MZ; RL400
MR Cas	52213.4621	0.0053	I	R	MZ; RL400
MR Cas	52684.3637	0.0055	I	R	MZ; RL400
MT Cas	52684.3376	0.0056	I	R	MZ; RL400
MT Cas	52879.5725	0.0033	I	R	MZ; RL400
NT Cas	52213.5139	0.0073	I	R	MZ; RL400
NV Cas	52147.5642	0.0032	I	R	MZ; RL400
V336 Cas	52684.3732	0.0046	I	C	MZ; RL400
V360 Cas	52213.5299	0.0024	I	R	MZ; RL400
V380 Cas	52367.4357	0.0046	I	C	MZ; RL400; normal
V473 Cas	52684.2777	0.0039	I	R	MZ; RL400
V523 Cas	52684.2889	0.0016	I	R	MZ; RL400
V523 Cas	52864.3501	0.0048	II	I	MZ; RL400
V523 Cas	52864.4664	0.0050	I	I	MZ; RL400
V651 Cas	52908.5836	0.0040	I	R	MZ; RL400
SU Cep	53070.4915	0.0040	II	R	MZ; RF80
WX Cep	52864.4952	0.0043	II	I	MZ; RL400
WX Cep	52908.4166	0.0051	II	V	MZ; RL400
WX Cep	52908.4167	0.0051	II	R	MZ; RL400
WX Cep	52908.4199	0.0051	II	I	MZ; RL400
XX Cep	52861.4763	0.0028	I	I	MZ; RF80
XY Cep	52908.3845	0.0046	I	R	MZ; RL400
AI Cep	53070.4803	0.0026	II	R	MZ; RF80
CM Cep	52879.5442	0.0025	I	R	MZ; RL400
EK Cep	52868.5561	0.0040	II	I	MZ; RF80
EK Cep	52908.4062	0.0050	II	R	MZ; RL400
EK Cep	52908.4074	0.0046	II	I	MZ; RL400
EK Cep	52908.4078	0.0051	II	V	MZ; RL400
GI Cep	52908.5706	0.0037	I	R	MZ; RL400
IW Cep	52105.4934	0.0022	I	R	MZ; RL400; normal
IW Cep	52908.5974	0.0044	I	V	MZ; RL400
LP Cep	52133.3920	0.0055	I	C	MZ; RL400; normal
MT Cep	52908.6117	0.0036	I	R	MZ; RL400
OT Cep	52908.6019	0.0043	I	R	MZ; RL400
V338 Cep	52860.5594	0.0014	I	I	MZ; RF80
V357 Cep	52908.3174	0.0029	I	R	MZ; RL400
V358 Cep	52879.5741	0.0038	I	R	MZ; RL400
V358 Cep	52908.4173	0.0038	I	R	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
42731306 Cep	53109.4969	0.0103	I	R	MZ; RF80; new var.
42880186 Cep	52864.3626	0.0019	I	I	MZ; RL400
42880186 Cep	52864.3621	0.0028	I	V	MZ; RL400
42880186 Cep	52864.3630	0.0028	I	R	MZ; RL400
XY Cet	52279.2978	0.0032	I	R	MZ; RL400
XY Cet	52949.4487	0.0025	I	R	MZ; RF80
RW Com	51985.4512	0.0015	II	C	MZ; RL400; normal
RW Com	52039.4477	0.0037	I	C	MZ; RL400; normal
RZ Com	53028.6036	0.0030	II	R	MZ; RL400
RZ Com	53083.4421	0.0020	II	I	MZ; RL400
RZ Com	53083.4422	0.0021	II	R	MZ; RL400
RZ Com	53083.4425	0.0020	II	V	MZ; RL400
RZ Com	53083.6132	0.0021	I	V	MZ; RL400
RZ Com	53083.6118	0.0021	I	R	MZ; RL400
RZ Com	53083.6129	0.0021	I	I	MZ; RL400
CC Com	52002.3484	0.0028	I	C	MZ; RL400; normal
CC Com	52002.4592	0.0016	II	C	MZ; RL400; normal
CC Com	52039.4238	0.0026	I	C	MZ; RL400
CN Com	51965.5280	0.0047	I	C	MZ; RL400
EK Com	53028.5788	0.0028	I	R	MZ; RL400
EK Com	53028.7117	0.0022	II	R	MZ; RL400
EK Com	53029.6456	0.0035	I	R	MZ; RL400
EQ Com	53028.5705	0.0026	I	R	MZ; RL400
EQ Com	53029.6558	0.0044	I	R	MZ; RL400
LL Com	52730.4270	0.0047	I	R	MZ; RL400
RW CrB	52002.3701	0.0047	I	C	MZ; RL400
RW CrB	52023.4368	0.0032	I	C	MZ; RL400
RW CrB	52039.4183	0.0015	I	C	MZ; RL400
TU CrB	52031.2855	0.0060	I	C	MZ; RL400; normal
TU CrB	52039.3575	0.0019	I	C	MZ; RL400
TU CrB	52105.5155	0.0057	I	V	MZ; RL400
TU CrB	52105.5157	0.0068	I	R	MZ; RL400
TU CrB	52105.5164	0.0033	I	C	MZ; RL400
TU CrB	52139.4019	0.0062	I	R	MZ; RL400
TU CrB	52139.4019	0.0062	I	C	MZ; RL400
TU CrB	52694.4875	0.0030	I	C	MZ; RL400
TU CrB	52694.4878	0.0029	I	I	MZ; RL400
TU CrB	52694.4879	0.0030	I	R	MZ; RL400
TU CrB	52694.4887	0.0028	I	V	MZ; RL400
TU CrB	52723.5326	0.0041	I	V	MZ; RL400
TU CrB	52723.5330	0.0041	I	R	MZ; RL400
TU CrB	52723.5334	0.0041	I	I	MZ; RL400
TU CrB	52723.5327	0.0040	I	C	MZ; RL400
TU CrB	52765.4874	0.0015	I	I	MZ; RL400
TU CrB	52765.4875	0.0016	I	R	MZ; RL400
TU CrB	52765.4876	0.0016	I	V	MZ; RL400
TU CrB	52832.4620	0.0070	II	R	MZ; RL400
TU CrB	52832.4608	0.0070	II	C	MZ; RL400
TU CrB	52832.4589	0.0057	II	I	MZ; RL400
TU CrB	53124.5359	0.0094	II	R	MZ; RL400
TU CrB	53124.5263	0.0079	II	C	MZ; RL400
TW CrB	52147.3621	0.0013	I	R	MZ; RL400
W Crv	52367.5164	0.0030	I	C	MZ; RL400
EE Cyg	52815.4864	0.0054	I	R	MZ; RL400
GV Cyg	52949.3279	0.0022	I	R	MZ; RL400
LN Cyg	52815.5125	0.0037	I	R	MZ; RL400
QS Cyg	51467.3427	0.0060	I	C	MZ; RL400
QS Cyg	51776.3569	0.0042	I	C	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
QU Cyg	52440.4657	0.0041	I	C	MZ; RL400
QU Cyg	52507.5948	0.0011	II	C	MZ; RL400
QU Cyg	52507.4236	0.0026	I	C	MZ; RL400
QU Cyg	52512.4530	0.0048	II	C	MZ; RL400
QU Cyg	52931.3460	0.0056	I	C	MZ; RL400; normal
QX Cyg	52440.4817	0.0024	I	C	MZ; RL400
QX Cyg	52507.4988	0.0085	II	C	MZ; RL400
V388 Cyg	52836.4225	0.0021	I	I	MZ; RF80
V388 Cyg	52875.5090	0.0023	II	R	MZ; RF80
V388 Cyg	52900.4266	0.0018	II	R	MZ; RF80
V442 Cyg	52875.4925	0.0020	II	R	MZ; RF80
V442 Cyg	52900.5454	0.0023	I	R	MZ; RF80
V680 Cyg	52507.5615	0.0040	II	R	MZ; RL400
V689 Cyg	52440.4674	0.0027	I	C	MZ; RL400
V689 Cyg	52507.4111	0.0014	I	C	MZ; RL400
V711 Cyg	52133.3999	0.0015	I	C	MZ; RL400
V711 Cyg	52815.4347	0.0058	I	R	MZ; RL400
V711 Cyg	52901.4130	0.0044	I	I	MZ; RL400; normal
V711 Cyg	52949.3626	0.0045	I	R	MZ; RL400
V822 Cyg	52437.4431	0.0020	I	C	MZ; RL400
V836 Cyg	52854.5337	0.0014	I	I	MZ; RF80
V869 Cyg	52145.3658	0.0069	I	C	MZ; RL400; normal
V907 Cyg	52440.4012	0.0042	I	R	MZ; RL400
V907 Cyg	52440.4012	0.0042	I	R	MZ; RL400
V947 Cyg	52507.4090	0.0043	I	C	MZ; RL400
V961 Cyg	52031.4614	0.0071	I	C	MZ; RL400
V965 Cyg	51040.3915	0.0065	I	C	MZ; RL400; normal
V1414 Cyg	52815.5023	0.0057	I	R	MZ; RL400
V1723 Cyg	52097.3946	0.0036	I	R	MZ; RL400
V1787 Cyg	52507.4409	0.0027	I	R	MZ; RL400
V1856 Cyg	52815.4998	0.0041	I	R	MZ; RL400
V1856 Cyg	52901.4621	0.0039	I	R	MZ; RL400
V1908 Cyg	52437.4576	0.0021	I	C	MZ; RL400
V2239 Cyg	52145.4678	0.0024	I	C	MZ; RL400
V2240 Cyg	52145.4316	0.0049	I	C	MZ; RL400
V2280 Cyg	52139.5379	0.0039	II	R	MZ; RL400
V2284 Cyg	53148.5301	0.0023	I	R	MZ; RL400
V2284 Cyg	53148.5300	0.0024	I	I	MZ; RL400
V2284 Cyg	53148.5308	0.0023	I	V	MZ; RL400
26851186 Cyg	52875.5524	0.0043	I	R	MZ; RF80; new var.
26851186 Cyg	52900.4663	0.0024	I	R	MZ; RF80; new var.
AV Del	52105.4476	0.0021	I	R	MZ; RL400
BH Del	52133.4617	0.0044	I	C	MZ; RL400
TW Dra	52694.4083	0.0006	I	I	MZ; RF80
TW Dra	52983.5185	0.0019	I	I	MZ; RF80
TW Dra	53070.5297	0.0027	I	R	MZ; RL400
TW Dra	53070.5298	0.0027	I	I	MZ; RL400
TW Dra	53070.5287	0.0027	I	V	MZ; RL400
FU Dra	52002.5086	0.0035	II	V	MZ; RL400
FU Dra	52023.5219	0.0070	I	V	MZ; RL400
FU Dra	52062.4734	0.0031	I	V	MZ; RL400
FU Dra	52039.4701	0.0060	I	V	MZ; RL400
FU Dra	52730.5016	0.0035	I	R	MZ; RF80
FU Dra	52983.5459	0.0013	I	I	MZ; RF80
FU Dra	52983.3930	0.0011	II	I	MZ; RF80

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
KZ Dra	52861.4846	0.0028	I	I	MZ; RL400
KZ Dra	52861.4846	0.0027	I	V	MZ; RL400
KZ Dra	52861.4847	0.0027	I	R	MZ; RL400
YY Eri	52898.6441	0.0006	I	R	MZ; RF80
TX Gem	53000.5576	0.0023	I	R	MZ; RL400
AY Gem	53029.3764	0.0062	I	R	MZ; RL400
BT Gem	51965.3112	0.0021	I	C	MZ; RL400; normal
CK Gem	52696.3890	0.0025	I	R	MZ; RL400
EL Gem	52369.3758	0.0018	I	R	MZ; RL400
EL Gem	52694.3208	0.0043	II	C	MZ; RL400
EL Gem	53029.2601	0.0029	I	R	MZ; RL400
FG Gem	53029.4400	0.0044	I	R	MZ; RL400
FO Gem	51924.4997	0.0022	I	C	MZ; RL400
FO Gem	52697.3773	0.0036	I	C	MZ; RL400
FT Gem	53029.3280	0.0055	I	R	MZ; RL400
KQ Gem	51924.4045	0.0061	I	C	MZ; RL400; normal
KQ Gem	52683.2666	0.0060	I	R	MZ; RL400
KQ Gem	52683.4675	0.0059	II	R	MZ; RL400
KQ Gem	52697.3426	0.0030	II	R	MZ; RL400
KV Gem	51924.5744	0.0014	I	C	MZ; RL400
KV Gem	51924.3957	0.0020	II	C	MZ; RL400
KV Gem	51965.4456	0.0054	I	C	MZ; RL400
KV Gem	51965.2690	0.0065	II	C	MZ; RL400
KV Gem	52234.6979	0.0016	I	C	MZ; RL400
KV Gem	52234.6982	0.0016	I	R	MZ; RL400
KV Gem	52234.6975	0.0028	I	V	MZ; RL400
KV Gem	52683.3904	0.0040	II	R	MZ; RL400
KV Gem	52683.3903	0.0041	II	V	MZ; RL400
KV Gem	52696.4765	0.0028	I	R	MZ; RL400
KV Gem	52696.4772	0.0029	I	V	MZ; RL400
KV Gem	52697.3723	0.0030	II	R	MZ; RL400
KV Gem	52697.3730	0.0038	II	V	MZ; RL400
KV Gem	52721.3942	0.0021	II	R	MZ; RL400
KV Gem	52721.3946	0.0021	II	V	MZ; RL400
KV Gem	52722.2900	0.0016	I	V	MZ; RL400
KV Gem	52722.2894	0.0017	I	R	MZ; RL400
KV Gem	52723.3653	0.0043	I	R	MZ; RL400
KV Gem	52723.3661	0.0041	I	V	MZ; RL400
KV Gem	52734.3006	0.0042	II	R	MZ; RL400
KV Gem	52734.3000	0.0022	II	I	MZ; RL400
KV Gem	52734.3011	0.0042	II	V	MZ; RL400
V412 Her	51982.6001	0.0039	I	C	MZ; RL400; normal
V643 Her	52002.5594	0.0019	I	C	MZ; RL400
V719 Her	51657.3973	0.0056	II	C	MZ; RL400; normal
V719 Her	51694.4829	0.0055	I	C	MZ; RL400; normal
V719 Her	51714.5339	0.0067	I	C	MZ; RL400; normal
V719 Her	51752.4178	0.0049	II	C	MZ; RL400; normal
V719 Her	51965.7119	0.0042	II	C	MZ; RL400; normal
V719 Her	51982.5513	0.0034	II	C	MZ; RL400
V719 Her	52002.5959	0.0016	II	C	MZ; RL400
V719 Her	52031.4728	0.0028	II	C	MZ; RL400
V719 Her	52828.5028	0.0043	II	R	MZ; RL400
V789 Her	52002.5082	0.0085	II	R	MZ; RL400
V789 Her	52023.4681	0.0053	I	R	MZ; RL400
V789 Her	52031.4728	0.0021	I	R	MZ; RL400
V789 Her	52039.4715	0.0062	I	R	MZ; RL400
V789 Her	52097.3996	0.0037	I	R	MZ; RL400
V789 Her	52134.3627	0.0029	II	V	MZ; RL400
V789 Her	52134.3641	0.0030	II	R	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V789 Her	52145.4013	0.0109	I	R	MZ; RL400
V789 Her	52367.5189	0.0035	I	R	MZ; RL400
V789 Her	52369.5971	0.0052	II	V	MZ; RL400
V789 Her	52398.5581	0.0030	I	V	MZ; RL400
V789 Her	52398.5585	0.0032	I	R	MZ; RL400
V789 Her	52427.5224	0.0048	II	R	MZ; RL400
V789 Her	52427.5232	0.0045	II	V	MZ; RL400
V789 Her	52696.6763	0.0020	II	V	MZ; RL400
V789 Her	52696.6769	0.0017	II	R	MZ; RL400
V789 Her	52697.6395	0.0041	II	V	MZ; RL400
V789 Her	52697.6379	0.0037	II	R	MZ; RL400
V789 Her	52886.3012	0.0041	I	I	MZ; RL400
V789 Her	52886.3019	0.0021	I	R	MZ; RL400
V789 Her	53082.4898	0.0025	I	I	MZ; RL400
V789 Her	53082.4878	0.0024	I	R	MZ; RL400
V789 Her	53082.4878	0.0036	I	V	MZ; RL400
V789 Her	53082.6513	0.0058	II	V	MZ; RL400
V789 Her	53082.6513	0.0057	II	R	MZ; RL400
V1005 Her	52410.3573	0.0028	I	R	MZ; RL400
V1005 Her	52427.3746	0.0030	I	R	MZ; RL400
CU Hya	53056.3731	0.0019	I	R	MZ; RL400
EU Hya	52279.5877	0.0039	I	C	MZ; RL400; normal
V390 Hya	53082.3909	0.0025	I	C	MZ; RL400
VY Lac	52901.4741	0.0009	I	I	MZ; RL400
AR Lac	52941.4498	0.0016	I	R	MZ; RF80
AU Lac	52901.4751	0.0037	I	I	MZ; RL400
CF Lac	52507.4537	0.0060	I	R	MZ; RL400
NS Lac	52062.3837	0.0061	I	C	MZ; RL400; normal
PP Lac	51841.3114	0.0020	II	C	MZ; RL400
PP Lac	51841.5139	0.0047	I	C	MZ; RL400
V339 Lac	52023.5171	0.0025	I	C	MZ; RL400; normal
V339 Lac	52507.5313	0.0028	I	R	MZ; RL400
V344 Lac	52872.3921	0.0029	I	I	MZ; RL400
V344 Lac	52872.3917	0.0030	I	R	MZ; RL400
V344 Lac	52872.3917	0.0029	I	V	MZ; RL400
V344 Lac	52875.5309	0.0034	I	I	MZ; RL400
V344 Lac	52875.5299	0.0033	I	V	MZ; RL400
V344 Lac	52875.5298	0.0035	I	R	MZ; RL400
Y Leo	52725.4855	0.0018	I	C	MZ; RL400
RW Leo	53029.6429	0.0049	I	R	MZ; RL400
UV Leo	52672.6603	0.0015	II	I	MZ; RF80
UV Leo	52949.6008	0.0013	I	R	MZ; RF80
UV Leo	53068.4187	0.0017	I	R	MZ; RF80
UX Leo	53029.6057	0.0037	I	R	MZ; RL400
BL Leo	51965.6855	0.0012	I	C	MZ; RL400; normal
BL Leo	51965.5442	0.0018	II	C	MZ; RL400
BL Leo	52367.4339	0.0022	I	C	MZ; RL400
BL Leo	52367.5735	0.0041	II	C	MZ; RL400
BL Leo	52672.6227	0.0037	II	R	MZ; RL400
BL Leo	52672.6231	0.0041	II	V	MZ; RL400
BL Leo	52684.4648	0.0019	II	R	MZ; RL400
BL Leo	52684.4648	0.0034	II	V	MZ; RL400
BW Leo	51608.4671	0.0036	II	C	MZ; RL400; normal
BW Leo	51626.5129	0.0041	I	C	MZ; RL400; normal
BW Leo	51685.3855	0.0032	II	C	MZ; RL400; normal
BW Leo	51965.4073	0.0058	II	C	MZ; RL400; normal
BW Leo	51965.5761	0.0018	I	C	MZ; RL400
BW Leo	52367.3870	0.0046	I	C	MZ; RL400



<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
BW Leo	52367.5551	0.0045	II	C	MZ; RL400
BW Leo	52723.3120	0.0090	I	R	MZ; RL400
BW Leo	52730.3948	0.0045	I	R	MZ; RL400
BW Leo	52730.3965	0.0053	I	V	MZ; RL400
CE Leo	52725.3939	0.0015	I	C	MZ; RL400
CE Leo	52730.3996	0.0047	II	R	MZ; RL400
T LMi	51965.5536	0.0039	I	C	MZ; RL400
Z Lep	52672.4661	0.0015	I	C	MZ; RL400; normal
RR Lep	52672.3889	0.0017	I	C	MZ; RL400
RR Lep	53029.4063	0.0040	I	R	MZ; RF80
RV Lyn	51924.2201	0.0112	I	C	MZ; RL400; normal
SW Lyn	52908.5929	0.0012	I	R	MZ; RF80
MZ Lyr	52141.4879	0.0067	I	R	MZ; RL400
PY Lyr	52505.5104	0.0026	I	V	MZ; RL400
PY Lyr	52505.5108	0.0029	I	I	MZ; RL400
PY Lyr	52505.5093	0.0029	I	R	MZ; RL400
PY Lyr	52521.5232	0.0034	II	V	MZ; RL400
PY Lyr	52521.5208	0.0020	II	I	MZ; RL400
PY Lyr	52521.5194	0.0034	II	R	MZ; RL400
PY Lyr	52721.5410	0.0030	I	V	MZ; RL400
PY Lyr	52721.5421	0.0030	I	I	MZ; RL400
PY Lyr	52721.5406	0.0030	I	R	MZ; RL400
PY Lyr	52725.5931	0.0041	II	I	MZ; RL400
PY Lyr	52725.5940	0.0033	II	R	MZ; RL400
PY Lyr	52725.5965	0.0033	II	V	MZ; RL400
PY Lyr	52809.4954	0.0029	I	R	MZ; RL400
PY Lyr	52809.4947	0.0029	I	I	MZ; RL400
PY Lyr	52809.4958	0.0029	I	V	MZ; RL400
PY Lyr	53186.3926	0.0023	I	R	MZ; RL400
PY Lyr	53186.3920	0.0023	I	I	MZ; RL400
PY Lyr	53186.3917	0.0021	I	V	MZ; RL400
V336 Lyr	52365.5586	0.0034	I	C	MZ; RL400
V361 Lyr	52002.4991	0.0016	II	R	MZ; RL400
V361 Lyr	52031.4522	0.0064	I	R	MZ; RL400
V361 Lyr	52097.3977	0.0044	I	R	MZ; RL400
V361 Lyr	52145.3907	0.0046	I	R	MZ; RL400
V361 Lyr	52147.5563	0.0035	I	R	MZ; RL400
V361 Lyr	52198.3322	0.0015	I	R	MZ; RL400
V361 Lyr	52365.5225	0.0011	I	C	MZ; RL400
V361 Lyr	52369.5499	0.0009	I	R	MZ; RL400
V361 Lyr	52730.5572	0.0018	I	R	MZ; RL400
V361 Lyr	52730.5577	0.0017	I	I	MZ; RL400
V361 Lyr	52763.5328	0.0025	II	V	MZ; RL400
V361 Lyr	52763.3771	0.0028	I	V	MZ; RL400
V361 Lyr	52763.3765	0.0028	I	R	MZ; RL400
V361 Lyr	52763.5313	0.0017	II	R	MZ; RL400
V361 Lyr	52854.5568	0.0033	II	R	MZ; RL400
V361 Lyr	52854.5568	0.0033	II	I	MZ; RL400
V361 Lyr	52854.5548	0.0033	II	V	MZ; RL400
V361 Lyr	52854.4021	0.0024	I	V	MZ; RL400
V361 Lyr	52854.4030	0.0024	I	I	MZ; RL400
V361 Lyr	52854.4030	0.0025	I	R	MZ; RL400
V361 Lyr	53110.6132	0.0015	II	R	MZ; RL400
V361 Lyr	53110.4522	0.0018	I	R	MZ; RL400
V361 Lyr	53110.4531	0.0018	I	V	MZ; RL400
V400 Lyr	52002.5877	0.0017	I	C	MZ; RL400
V412 Lyr	52138.4893	0.0046	I	C	MZ; RL400
V417 Lyr	52002.5900	0.0016	I	C	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V429 Lyr	52139.5572	0.0049	I	C	MZ; RL400; normal
V429 Lyr	52138.4929	0.0019	I	C	MZ; RL400
V431 Lyr	52023.6070	0.0041	I	C	MZ; RL400; normal
V431 Lyr	52141.4470	0.0082	I	R	MZ; RL400
V477 Lyr	52031.5153	0.0004	I	C	MZ; RL400
RW Mon	53000.5698	0.0028	I	R	MZ; RL400
VX Mon	53028.4259	0.0020	I	C	MZ; RL400
AO Mon	52672.4817	0.0012	II	I	MZ; RF80
AT Mon	53029.4062	0.0023	I	R	MZ; RL400
BB Mon	53029.4088	0.0026	I	R	MZ; RL400
BZ Mon	52367.3342	0.0079	I	C	MZ; RL400
CK Mon	52279.3928	0.0082	I	R	MZ; RL400
HM Mon	52279.3523	0.0024	I	R	MZ; RL400
HM Mon	52279.5569	0.0059	II	R	MZ; RL400
HM Mon	52672.3355	0.0083	I	R	MZ; RL400
HT Mon	52367.3721	0.0057	I	C	MZ; RL400; normal
IZ Mon	51965.4387	0.0111	I	C	MZ; RL400; normal
IZ Mon	53056.3761	0.0021	I	R	MZ; RL400
MX Mon	52141.5583	0.0028	I	C	MZ; RL400
V396 Mon	51876.6169	0.0041	II	C	MZ; RL400; normal
V396 Mon	53082.2785	0.0023	II	R	MZ; RL400
V453 Mon	53068.4369	0.0007	I:	R	MZ; RL400
V455 Mon	52672.3603	0.0046	I	R	MZ; RL400
V524 Mon	51965.4540	0.0064	II	C	MZ; RL400
V524 Mon	52362.3742	0.0022	I	C	MZ; RL400
V527 Mon	51965.2817	0.0050	I	C	MZ; RL400
V528 Mon	51841.5820	0.0052	I	C	MZ; RL400; normal
V532 Mon	52672.4166	0.0084	II:	R	MZ; RL400
V681 Mon	51965.3682	0.0112	I	C	MZ; RL400
V681 Mon	52322.3250	0.0051	I	C	MZ,DM,OP; RL400+RL300; normal
U Oph	53170.4468	0.0033	I	R	MZ; RF80
U Oph	53170.4467	0.0029	I	I	MZ; RF80
U Oph	53170.4450	0.0028	I	V	MZ; RF80
V501 Oph	52836.4316	0.0017	I	R	MZ; RL400
V941 Oph	52836.4296	0.0033	II	C	MZ; RL400
V981 Oph	52031.4447	0.0061	I	C	MZ; RL400
EF Ori	52279.3368	0.0050	I	C	MZ; RL400; normal
EF Ori	52360.3059	0.0037	I	C	MZ; RL400
EF Ori	52683.3943	0.0062	II	R	MZ; RL400
ER Ori	52982.4255	0.0012	I	R	MZ; RF80
ET Ori	52672.4028	0.0055	I	C	MZ; RL400
FF Ori	53028.3631	0.0051	I	I	MZ; RL400
FH Ori	53028.3630	0.0022	I	I	MZ; RL400
FR Ori	53000.5087	0.0053	I	R	MZ; RL400; normal
FZ Ori	52213.5202	0.0131	I	R	MZ; RL400
FZ Ori	53028.2907	0.0042	I	I	MZ; RL400
GU Ori	51924.3332	0.0026	I	C	MZ; RL400
GU Ori	52672.4735	0.0014	II	C	MZ; RL400
GU Ori	52683.2987	0.0039	II	R	MZ; RL400
GU Ori	52683.3004	0.0063	II	V	MZ; RL400
GU Ori	52694.3596	0.0042	I	R	MZ; RL400
GU Ori	52694.3591	0.0042	I	V	MZ; RL400
GU Ori	52695.3022	0.0030	I	R	MZ; RL400
GU Ori	52695.3015	0.0044	I	V	MZ; RL400
GU Ori	52723.3060	0.0034	II	C	MZ; RL400
GU Ori	52983.3553	0.0029	I	R	MZ; RL400
GU Ori	52983.3557	0.0029	I	I	MZ; RL400
GU Ori	52983.3561	0.0028	I	V	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
GU Ori	52983.5918	0.0030	II	V	MZ; RL400
GU Ori	52983.5916	0.0029	II	R	MZ; RL400
GU Ori	52983.5933	0.0029	II	I	MZ; RL400
OS Ori	51924.3348	0.0087	I	C	MZ; RL400; normal
QV Ori	52949.5472	0.0040	I	R	MZ; RL400
V641 Ori	52683.4155	0.0035	I	R	MZ; RL400
V641 Ori	53028.2918	0.0043	I	R	MZ; RL400
V644 Ori	53029.4681	0.0049	I	C	MZ; RL400
V645 Ori	52279.3375	0.0065	I	R	MZ; RL400
V667 Ori	51924.5545	0.0071	I	C	MZ,JŠ; RL400
BO Peg	52141.5598	0.0026		R	MZ; RL400
BX Peg	52145.5289	0.0042	II	R	MZ; RL400
BX Peg	52521.4288	0.0014	I	R	MZ; RF80
BX Peg	52521.5697	0.0017	II	R	MZ; RF80
CE Peg	52062.3874	0.0067	I	C	MZ; RL400; normal
DK Peg	52147.5209	0.0052	I	R	MZ; RL400
EU Peg	52147.5456	0.0024	I	R	MZ; RL400
GP Peg	52874.4848	0.0020	I	R	MZ; RF80
KW Peg	52521.4223	0.0044	I	R	MZ; RF80
HadV26 Peg	52982.2335	0.0012	I	R	MZ; RL400;=GSC 11291457 Peg
WY Per	52949.3897	0.0040	I	R	MZ; RL400
FW Per	52898.6081	0.0034	I	I	MZ; RL400
II Per	51924.3500	0.0027	I	C	MZ; RL400
II Per	52279.4376	0.0046	I	C	MZ; RL400; normal
II Per	52591.3426	0.0034	I	R	MZ; RL400
PS Per	52213.4662	0.0070	I	R	MZ; RL400
QT Per	52898.5838	0.0035	II	I	MZ; RL400
V432 Per	52949.4700	0.0038	II	R	MZ; RL400
V432 Per	52949.6590	0.0029	I	R	MZ; RL400
V457 Per	52274.3294	0.0063	I	R	MZ; RL400; normal
V482 Per	52949.4565	0.0053	I	R	MZ; RL400
UV Psc	52874.5968	0.0009	I	R	MZ; RL400
UV Psc	52874.5968	0.0009	I	I	MZ; RL400
UV Psc	52874.5971	0.0008	I	V	MZ; RL400
EI Sge	52141.4987	0.0030	II	R	MZ; RL400
XY Sct	52437.4896	0.0020	I	C	MZ; RL400
XY Sct	52492.4580	0.0036	I	V	MZ; RL400
XY Sct	52492.4582	0.0034	I	R	MZ; RL400
XY Sct	52492.4584	0.0034	I	C	MZ; RL400
XY Sct	52878.4100	0.0027	II	C	MZ; RL400
XY Sct	52878.4107	0.0026	II	R	MZ; RL400
XY Sct	52878.4101	0.0028	II	V	MZ; RL400
DK Sct	52837.4255	0.0037	I	C	MZ; RL400; normal
FG Sct	52440.4349	0.0047	I	R	MZ; RL400
FG Sct	52524.3125	0.0022	I	R	MZ; RL400
FG Sct	52524.3127	0.0023	I	V	MZ; RL400
BU Ser	52133.4553	0.0081	I	C	MZ; RL400
LX Ser	52828.4165	0.0009	I	C	MZ; RL400
Y Sex	51965.4701	0.0036	I	C	MZ; RL400
AH Tau	52145.5354	0.0015	I	R	MZ; RL400
AP Tau	52279.4866	0.0047	I	C	MZ; RL400; normal
EN Tau	52279.5179	0.0014	I	R	MZ; RL400
IV Tau	51924.3177	0.0018	I	C	MZ; RL400
X Tri	52133.5043	0.0022	I	C	MZ; RL400
RS Tri	52213.5015	0.0031	I	C	MZ; RL400
RV Tri	52133.4651	0.0045	I	C	MZ; RL400
RW Tri	52274.3665	0.0012	I	R	MZ; RL400; normal

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
ST Tri	51569.2131	0.0058	II	C	MZ; RL400; normal
ST Tri	51569.4498	0.0067	I	C	MZ; RL400; normal
ST Tri	51580.2219	0.0036	II	C	MZ; RL400; normal
ST Tri	51580.2324	0.0034	II	V	MZ; RL400; normal
ST Tri	51752.4441	0.0087	I	C	MZ; RL400; normal
ST Tri	51771.6093	0.0042	I	C	MZ; RL400; normal
ST Tri	51772.5724	0.0034	I	V	MZ; RL400; normal
ST Tri	51777.5693	0.0040	II	C	MZ; RL400; normal
ST Tri	51876.5205	0.0030	I	C	MZ; RL400; normal
ST Tri	51924.4263	0.0022	I	C	MZ; RL400
ST Tri	52133.5372	0.0059	II	C	MZ; RL400
ST Tri	52138.5645	0.0036	I	R	MZ; RL400
ST Tri	52138.5616	0.0038	I	C	MZ; RL400
ST Tri	52198.4446	0.0023	I	C	MZ; RL400
ST Tri	52198.4426	0.0039	I	V	MZ; RL400
ST Tri	52198.4442	0.0032	I	R	MZ; RL400
ST Tri	52213.5318	0.0081	II	C	MZ; RL400
ST Tri	52229.3430	0.0035	II	C	MZ; RL400
ST Tri	52229.3439	0.0074	II	V	MZ; RL400
ST Tri	52229.3466	0.0033	II	R	MZ; RL400
ST Tri	52234.6115	0.0038	II	C	MZ; RL400; normal
ST Tri	52578.3319	0.0018	I	R	MZ; RL400
ST Tri	52578.3328	0.0025	I	V	MZ; RL400
ST Tri	52578.5712	0.0027	II	R	MZ; RL400
ST Tri	52578.5752	0.0046	II	V	MZ; RL400
ST Tri	52585.2761	0.0098	II	V	MZ; RL400; normal
ST Tri	52585.2814	0.0035	II	R	MZ; RL400
ST Tri	52900.4953	0.0044	II	C	MZ; RL400
ST Tri	52900.4921	0.0042	II	R	MZ; RL400
ST Tri	52900.4954	0.0041	II	I	MZ; RL400
ST Tri	52900.4914	0.0044	II	V	MZ; RL400
23360281 Tri	51924.3389	0.0020	I	C	MZ; RL400
23360281 Tri	52133.5310	0.0018	II	C	MZ; RL400
23360281 Tri	52138.5822	0.0025	I	C	MZ; RL400
23360281 Tri	52138.5817	0.0024	I	R	MZ; RL400
23360281 Tri	52147.5647	0.0033	I	R	MZ; RL400
23360281 Tri	52147.5662	0.0032	I	C	MZ; RL400
23360281 Tri	52198.4563	0.0038	I	V	MZ; RL400
23360281 Tri	52198.4577	0.0035	I	R	MZ; RL400
23360281 Tri	52198.4579	0.0027	I	C	MZ; RL400
23360281 Tri	52198.6443	0.0036	II	C	MZ; RL400
23360281 Tri	52213.4228	0.0049	I	C	MZ; RL400
23360281 Tri	52213.4275	0.0049	I	R	MZ; RL400
23360281 Tri	52213.6139	0.0022	II	C	MZ; RL400
23360281 Tri	52213.6142	0.0038	II	R	MZ; RL400
23360281 Tri	52521.5963	0.0020	I	R	MZ; RL400
23360281 Tri	52521.5997	0.0019	I	V	MZ; RL400
23360281 Tri	52524.5901	0.0024	I	R	MZ; RL400
23360281 Tri	52524.5907	0.0024	I	V	MZ; RL400
23360281 Tri	52229.3307	0.0039	II	R	MZ; RL400
23360281 Tri	52229.3308	0.0041	II	V	MZ; RL400
23360281 Tri	52229.3311	0.0042	II	C	MZ; RL400
23360281 Tri	52229.5181	0.0044	I	V	MZ; RL400
23360281 Tri	52229.5201	0.0038	I	C	MZ; RL400
23360281 Tri	52229.5206	0.0038	I	R	MZ; RL400
23360281 Tri	52234.5702	0.0034	II	R	MZ; RL400
23360281 Tri	52234.5703	0.0034	II	C	MZ; RL400
23360281 Tri	52234.5705	0.0028	II	V	MZ; RL400
23360281 Tri	52900.4937	0.0037	I	V	MZ; RL400

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
23360281 Tri	52900.4941	0.0039	I	C	MZ; RL400
23360281 Tri	52900.4945	0.0039	I	R	MZ; RL400
23360281 Tri	52900.4947	0.0037	I	I	MZ; RL400
IW UMa	53110.3582	0.0032	I	V	MZ; RL400
IW UMa	53110.3583	0.0033	I	I	MZ; RL400
IW UMa	53110.3577	0.0032	I	R	MZ; RL400
VV Vir	52684.5590	0.0043	II	R	MZ; RF80
VV Vir	53029.6433	0.0031	I	R	MZ; RL400
AZ Vir	52002.3862	0.0017	I	C	MZ; RL400
AZ Vir	52751.3675	0.0011	I	I	MZ; RF80
AZ Vir	52751.5422	0.0016	II	I	MZ; RF80
AZ Vir	52765.5310	0.0015	II	R	MZ; RF80
AZ Vir	53068.5141	0.0022	I	R	MZ; RF80
BF Vir	52002.4191	0.0016	I	C	MZ; RL400
DM Vir	52684.6051	0.0016	I	R	MZ; RF80
DY Vir	52672.5857	0.0077	I	R	MZ; RL400
HT Vir	52751.5760	0.0011	II	I	MZ; RF80
HT Vir	52751.3701	0.0014	I	I	MZ; RF80
HT Vir	52765.4368	0.0011	II	R	MZ; RF80
HT Vir	53068.5426	0.0017	I	R	MZ; RF80
VY Vul	53170.4084	0.0018	I	R	MZ; RL400
BP Vul	53186.4111	0.0031	I	R	MZ; RL400
DR Vul	52832.4968	0.0018	II	R	MZ; RF80
DR Vul	52859.5067	0.0025	II	I	MZ; RF80
DR Vul	52859.5082	0.0027	II	R	MZ; RF80
FF Vul	51752.4445	0.0030	I	C	MZ; RL400; normal
FM Vul	52437.4776	0.0042	I	C	MZ; RL400; normal
FR Vul	52815.4854	0.0017	I	R	MZ; RF80
FW Vul	53186.4439	0.0041	I	R	MZ; RL400
GI Vul	53170.4958	0.0038	I	R	MZ; RL400
GP Vul	53170.4630	0.0038	II	R	MZ; RL400
GP Vul	53186.4669	0.0048	I	R	MZ; RL400
NO Vul	53170.4263	0.0026	II	R	MZ; RL400

**Remarks:**

The timings of minima presented in this fifth list were obtained from 30255 CCD observations of author (MZ) or in several cases together with KK = Karel Koss, DM = David Motl, OP = Ondřej Pejcha, JŠ = Jan Šafář.

new var. = variability of the star was discovered by author; normal times of minima were obtained by superposition of two or more parts of light curve from different nights.

These observations are used especially to improve the light ephemeris of stars given in catalogue BRKA of observing programme of eclipsing binaries of BRNO-Variable Star Section. The catalogue contains more than 1500 eclipsing binaries and it is updated at least once per year. It is available on <http://var.astro.cz/brno>.

**Acknowledgements:**

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## References:

Gaspani, A., 1995, 3rd GEOS workshop on variable star data acquisition and processing techniques, 13-14 May 1995, S. Pellegrino Terme, Italy

Zejda, M., 2004, BRNO catalogue of eclipsing binaries BRKA 2004,  
<http://var.astro.cz/brno>

### ERRATA FOR IBVS 5583

The following corrections were communicated to IBVS by Petr Zásche and the author, Miloslav Zejda. The times of minima for HT Vir were erroneously given in the article, and should be replaced by those given below.

<b>Star name</b>	<b>Corrected time of min.</b>
HT Vir	52751.5845
HT Vir	52751.3807
HT Vir	52765.4468
HT Vir	53068.5504