

Variable Star Bulletin

Visual and CCD minima of eclipsing binaries during 2012

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Following table is summary of minima of eclipsing binary reported from VSOLJ members.

star	min.	O-C	E	color	n	obs.	inst.
RT And	2456221.0950	+0.0573	7631	cG	143	Hsk	13R+CANON-EOS-KISS-X3
RT And	2456235.564	+0.061	7654	vis	20	Set	
XZ And	2456243.9351	-0.0363	2758	cG	123	Hsk	13R+CANON-EOS-KISS-X3
XZ And	2456286.0107	-0.0373	2789	cG	99	Hsk	16L+CANON-EOS-KISS-X3
AB And	2456221.553	-0.003	11213	vis	17	Set	
AB And	2456235.9856	*1 -0.0076	11256.5	V	261	Ioh	30SC+ST-9XE
AB And	2456236.1513	-0.0078	11257	V	261	Ioh	30SC+ST-9XE
AB And	2456252.582	*1 -0.006	11306.5	vis	18	Set	
BL And	2456248.0646	-0.0028	5188	V	418	Ioh	30SC+ST-9XE
DS And	2456234.558	+0.008	3695	vis	21	Set	
DZ And	2456249.9954	-0.0035	12294	V	171	Ioh	30SC+ST-9XE
EP And	2456185.0848	+0.0695	33522	V	339	Ioh	30SC+ST-9XE
EP And	2456185.2869	*1 +0.0696	33522	V	339	Ioh	30SC+ST-9XE
LO And	2456179.1229	-0.0085	9670	V	536	Ioh	30SC+ST-9XE
OO Aql	2456142.0762	+0.0541	34588	Rc	125	Nga	20SC+SV-04LE
OO Aql	2456146.1314	+0.0550	34596	V	187	Ioh	30SC+ST-9XE
CX Aqr	2456161.0518	-0.0117	6584	Rc	96	Nga	20SC+CANON-EOS-KISS-digital
CX Aqr	2456161.0532	-0.0103	6584	B	103	Nga	20SC+CANON-EOS-KISS-digital
CX Aqr	2456161.0541	-0.0094	6584	V	105	Nga	20SC+CANON-EOS-KISS-digital
CX Aqr	2456235.555	-0.011	6718	vis	18	Set	
EK Aqr	2456181.1345	+0.0125	4700	V	286	Ioh	30SC+ST-9XE
HS Aqr	2456140.0523	*1 +0.0017	5124.5	Ic	57	Nga	10L+CV-04
HS Aqr	2456141.1145	-0.0014	5126	Rc	123	Nga	20SC+SV-04LE
HV Aqr	2456141.0580	-0.0164	9723	V	57	Nga	6R+ST-402
HV Aqr	2456141.0609	-0.0135	9723	Ic	104	Nga	10L+CV-04
HV Aqr	2456156.0367	-0.0160	9763	cB	82	Nga	20SC+CANON-EOS-KISS-digital
HV Aqr	2456156.0401	-0.0126	9763	cG	82	Nga	20SC+CANON-EOS-KISS-digital
HV Aqr	2456156.0412	-0.0115	9763	cR	82	Nga	20SC+CANON-EOS-KISS-digital

star	min.		O-C	E	color	n	obs.	inst.
HV Aqr	2456167.0874	*1	-0.0118	9792.5	V	257	Ioh	30SC+ST-9XE
HV Aqr	2456168.0232		-0.0122	9795	V	347	Ioh	30SC+ST-9XE
HV Aqr	2456180.9432	*1	-0.0110	9829.5	V	165	Nga	20SC+ST-402
MO Aqr	2456180.9605		+0.0308	10505	Ic	75	Nga	10L+CV-04
OO Aqr	2456164.0104	*1	+0.0366	6710.5	Ic	34	Nga	10L+CV-04
OO Aqr	2456164.0105	*1	+0.0367	6710.5	Ic	15	Nga	6R+ST-402
SS Ari	2456226.1828	*1	-0.0101	9177.5	Rc	254	Siz	35SC+ST-9E
SS Ari	2456241.601	*1	-0.019	9215.5	vis	21	Set	
SZ Ari	2456234.0346		-0.0104	2174	Rc	284	Siz	35SC+ST-9E
BM Ari	2456292.9745		+0.0152	5265	cG	115	Hsk	13R+CANON-EOS-KISS-X3
BN Ari	2456226.1419		-0.0317	15701	V	284	Ioh	30SC+ST-9XE
BN Ari	2456235.1228		-0.0321	15731	V	427	Ioh	30SC+ST-9XE
BN Ari	2456235.2722	*1	-0.0323	15731.5	V	427	Ioh	30SC+ST-9XE
WW Aur	2455956.044		+0.004	1368	vis	38	Kit	5B
ZZ Aur	2455962.0822		-0.0033	5758	V	599	Ioh	30SC+DSI-ProII
ZZ Aur	2456247.9636	*1	-0.0007	6233.5	Rc	409	Siz	35SC+ST-9E
AH Aur	2456266.2015	*1	-0.0175	7621.5	V	411	Ioh	30SC+ST-9XE
AP Aur	2455939.1099		+0.0857	9621	Rc	439	Siz	35SC+ST-9E
AR Aur	2455929.037		+0.019	829	vis	31	Kit	5B7B
AR Aur	2455957.990		+0.030	836	vis	32	Kit	7B
CL Aur	2456263.1665		+0.0169	4955	V	96	Hsk	20SC+ST-8XME
EM Aur	2455934.2282	*1	-0.0025	787.5	V	604	Ioh	30SC+DSI-ProII
EP Aur	2456273.2074	*1	-0.0011	6383.5	V	430	Ioh	30SC+ST-9XE
HL Aur	2455962.9598		-0.0022	5562	V	240	Ioh	30SC+DSI-ProII
HP Aur	2456273.1326		+0.0018	6972	Rc	312	Siz	35SC+ST-9E
HS Aur	2455970.0962		+0.0004	1005	V	585	Ioh	30SC+DSI-ProII
HU Aur	2456283.9956		+0.0000	2687	Rc	289	Siz	35SC+ST-9E
MN Aur	2456275.1879		+1.0279	855	V	584	Ioh	30SC+ST-9XE
TZ Boo	2455999.9993		-0.0024	3495	Rc	283	Siz	35SC+ST-9E
TZ Boo	2456000.1445	*1	-0.0058	3495.5	Rc	283	Siz	35SC+ST-9E
TZ Boo	2456008.0194		-0.0057	3522	Rc	406	Siz	35SC+ST-9E
TZ Boo	2456008.1686	*1	-0.0051	3522.5	Rc	406	Siz	35SC+ST-9E
TZ Boo	2456008.3166		-0.0057	3523	Rc	406	Siz	35SC+ST-9E
TZ Boo	2456026.1461		-0.0058	3583	V	417	Ioh	30SC+DSI-ProII
TZ Boo	2456026.2954	*1	-0.0051	3583.5	V	417	Ioh	30SC+DSI-ProII
XY Boo	2456055.0125		-0.0188	9592	V	478	Ioh	30SC+DSI-ProII
XY Boo	2456055.1994	*1	-0.0172	9592.5	V	478	Ioh	30SC+DSI-ProII
AC Boo	2456054.0410		+0.0008	10083	Rc	383	Siz	35SC+ST-9E
AC Boo	2456054.2188	*1	+0.0024	10083.5	Rc	383	Siz	35SC+ST-9E
EF Boo	2456020.154	*1	+0.046	17882.5	V	523	Ioh	30SC+DSI-ProII
HH Boo	2456024.1468		-0.0036	11058	V	476	Ioh	30SC+DSI-ProII
SV Cam	2455969.582		+0.053	22552	vis	17	Set	
WW Cam	2456220.1997		-0.0261	6964	Rc	124	Siz	35SC+ST-9E
AK Cam	2455936.1613		-0.2122	6476	Rc	402	Siz	35SC+ST-9E
AO Cam	2456243.9995	*1	-0.1364	35415.5	V	543	Ioh	30SC+ST-9XE
AO Cam	2456244.1652		-0.1357	35416	V	543	Ioh	30SC+ST-9XE
AO Cam	2456244.3295	*1	-0.1363	35416.5	V	543	Ioh	30SC+ST-9XE
AT Cam	2455928.2210		-0.1181	21399	V	785	Ioh	30SC+DSI-ProII
AZ Cam	2455932.1362		+0.0199	11580	Rc	496	Siz	35SC+ST-9E
FN Cam	2455934.0083	*3	+0.0701	10978	Rc	908	Siz	35SC+ST-9E
FN Cam	2455935.0225	*1*3	+0.0686	10979.5	Rc	735	Siz	35SC+ST-9E
FN Cam	2455935.3622	*3	+0.0698	10980	Rc	735	Siz	35SC+ST-9E
LR Cam	2456231.2611	*1*28	-0.0728	9802.5	V	303	Ioh	30SC+ST-9XE
LR Cam	2456260.1295	*28	-0.0752	9869	V	471	Ioh	30SC+ST-9XE
LR Cam	2456260.3482	*1*28	-0.0736	9869.5	V	471	Ioh	30SC+ST-9XE
NQ Cam	2456287.0318		+0.1163	13250	V	680	Ioh	30SC+ST-9XE

star	min.		O-C	E	color	n	obs.	inst.
NQ Cam	2456287.2153	*1	+0.1188	13250.5	V	680	Ioh	30SC+ST-9XE
NR Cam	2456216.0381	*1	+0.0082	18079.5	Rc	453	Siz	35SC+ST-9E
NR Cam	2456216.1678		+0.0100	18080	Rc	453	Siz	35SC+ST-9E
NR Cam	2456216.2937	*1	+0.0080	18080.5	Rc	453	Siz	35SC+ST-9E
CM Cap	2456126.1084		-0.0116	9900	Ic	63	Nga	10L+CV-04
RZ Cas	2455962.012		+0.053	10677	vis	68	Bna	8B
RZ Cas	2455962.020		+0.061	10677	vis	67	Sut	8B
RZ Cas	2455962.021		+0.062	10677	vis	68	Tmy	8B
RZ Cas	2455962.024		+0.065	10677	vis	69	Tae	8B
RZ Cas	2455962.028		+0.069	10677	vis	61	Yda	8B
RZ Cas	2455962.028		+0.069	10677	vis	68	Sjc	8B
RZ Cas	2455962.029		+0.070	10677	vis	69	Kcy	8B
RZ Cas	2455962.029		+0.070	10677	vis	69	Kze	8B
RZ Cas	2455962.042		+0.083	10677	vis	67	Kgi	8B
RZ Cas	2456159.238		+0.064	10842	vis	54	Tmy	8B
RZ Cas	2456159.242		+0.068	10842	vis	51	Yda	8B
RZ Cas	2456159.245		+0.071	10842	vis	53	Sez	8B
RZ Cas	2456159.245		+0.071	10842	vis	53	Uor	8B
RZ Cas	2456159.249		+0.075	10842	vis	52	Sjc	8B
RZ Cas	2456159.252		+0.078	10842	vis	52	Nta	8B
RZ Cas	2456159.253		+0.079	10842	vis	52	Mya	8B
RZ Cas	2456159.257		+0.083	10842	vis	52	Bna	8B
RZ Cas	2456159.264		+0.090	10842	vis	52	Ebi	8B
RZ Cas	2456159.264		+0.090	10842	vis	52	Ium	8B
RZ Cas	2456165.209		+0.058	10847	vis	22	Ngi	7B
RZ Cas	2456165.210		+0.060	10847	vis	22	Keo	7B
RZ Cas	2456165.210		+0.060	10847	vis	25	Ksu	7B
RZ Cas	2456165.211		+0.061	10847	vis	19	Kmh	7B
RZ Cas	2456165.212		+0.062	10847	vis	20	Mod	7B
RZ Cas	2456165.212		+0.062	10847	vis	38	Ykg	7B
RZ Cas	2456165.214		+0.063	10847	vis	25	Mku	7B
RZ Cas	2456165.216		+0.065	10847	vis	34	Yot	7B
RZ Cas	2456165.217		+0.066	10847	vis	27	Oet	7B
RZ Cas	2456165.220		+0.069	10847	vis	27	Koc	7B
RZ Cas	2456234.539		+0.064	10905	vis	20	Set	
RZ Cas	2456256.059		+0.070	10923	vis	15	Mhh	3B7B
RZ Cas	2456285.9365		+0.0660	10948	cG	122	Hsk	CANON-EOS-KISS-X3-f=100mm
CW Cas	2456217.1182	*1	-0.1491	45689.5	V	349	Ioh	30SC+ST-9XE
IR Cas	2456277.9532		+0.0089	20441	V	138	Hsk	20SC+ST-8XME
QQ Cas	2456222.0653		+0.2030	6635	V	639	Ioh	30SC+ST-9XE
V375 Cas	2456245.2023		+0.1866	14662	V	361	Ioh	30SC+ST-9XE
V380 Cas	2456256.0168		-0.0662	22553	Rc	443	Siz	35SC+ST-9E
TU Cet	2456270.9979	*1	+0.5856	6322.5	V	196	Nga	20SC+ST-402
TU Cet	2456270.9985	*1	+0.5862	6322.5	V	194	Nga	20SC+ST-402
TW Cet	2456240.538	*1	-0.022	43765.5	vis	13	Set	
TW Cet	2456252.569	*1	-0.031	43803.5	vis	20	Set	
TW Cet	2456233.0867		-0.0271	43742	Rc	239	Siz	35SC+ST-9E
TX Cet	2456262.9293		-0.0061	17791	B	46	Nga	20SC+ST-402
TX Cet	2456262.9313		-0.0081	17791	Ic	46	Nga	20SC+ST-402
TX Cet	2456262.9327		-0.0095	17791	V	46	Nga	20SC+ST-402
XY Cet	2456271.0097	*1	+0.0079	6436.5	B	192	Nga	20SC+ST-402
XY Cet	2456271.0107	*1	+0.0089	6436.5	B	193	Nga	20SC+ST-402
XY Cet	2456271.0109	*1	+0.0091	6436.5	B	196	Nga	20SC+ST-402
VV Cet	2456217.0862	*1	+0.1152	47643.5	B	114	Nga	20SC+CANON-EOS-Kiss-digital
VV Cet	2456217.0934	*1	+0.1224	47643.5	B	114	Nga	20SC+CANON-EOS-Kiss-digital
VV Cet	2456217.0971	*1	+0.1261	47643.5	B	113	Nga	20SC+CANON-EOS-Kiss-digital

star	min.		O-C	E	color	n	obs.	inst.
DY Cet	2456287.9284	*1*33	-0.0506	17667.5	Ic	64	Nga	10L+CV-04
R CMa	2444289.361		+0.104	10263	vis	20	Set	
R CMa	2455960.115		+0.101	10274	vis	32	Kit	5B
R CMa	2455968.067		+0.102	10281	vis	28	Kit	5B
R CMa	2455976.0167		+0.0998	10288	cG	30	Edm	CANON-EOS-Kiss-X2-f=70mm
R CMa	2455976.017		+0.100	10288	vis	37	Kit	5B7B
R CMa	2455976.0187		+0.1018	10288	cG	38	Tkd	CANON-EOS-Kiss-X-f=80mm
CX CMi	2456282.1710		+0.0140	3860	Rc	319	Siz	35SC+ST-9E
CZ CMi	2455953.0855		+0.0748	8482	Rc	120	Nga	20SC+SV-04LE
CZ CMi	2455956.0726		+0.0772	8489	Rc	80	Nga	20SC+SV-04LE
CZ CMi	2455957.9917	*1	+0.0775	8493.5	Rc	80	Nga	20SC+SV-04LE
CZ CMi	2455959.0535		+0.0734	8496	Rc	116	Nga	20SC+SV-04LE
CZ CMi	2455960.120	*1	+0.074	8498.5	Rc	185	Nga	20SC+SV-04LE
CZ CMi	2455962.0458		+0.0809	8503	Rc	174	Nga	20SC+SV-04LE
CZ CMi	2455966.9419	*1	+0.0736	8514.5	Rc	87	Nga	20SC+SV-04LE
CZ CMi	2455969.9280	*1	+0.0750	8521.5	Rc	152	Nga	20SC+SV-04LE
CZ CMi	2456286.3158	*1	+0.0829	9263.5	V	224	Ioh	30SC+ST-9XE
WW Cnc	2455944.2733		-0.5524	25817	V	451	Ioh	30SC+DSI-ProII
WX Cnc	2455952.2300		+0.0130	24769	V	408	Ioh	30SC+DSI-ProII
WX Cnc	2456268.1740		+0.0131	25027	Rc	428	Siz	35SC+ST-9E
FF Cnc	2455929.1090		-0.2095	5214	Rc	544	Siz	35SC+ST-9E
RZ Com	2456005.599		+0.042	62534	vis	21	Set	
RZ Com	2456007.1251	*1	+0.0453	62538.5	Rc	274	Siz	35SC+ST-9E
SS Com	2456005.596	*1	+0.144	75105.5	vis	17	Set	
CC Com	2456005.594		-0.013	74640	vis	15	Set	
AR CrB	2456060.0776		-0.0057	9298	V	129	Ioh	30SC+DSI-ProII
AS CrB	2456018.0982	1	+0.0137	9480	Rc	389	Siz	35SC+ST-9E
AS CrB	2456018.2882	*1	+0.0133	9480.5	Rc	389	Siz	35SC+ST-9E
BO Cvn	2456007.1828	*14	+0.0060	6777.5	V	604	Ioh	30SC+DSI-ProII
DF Cvn	2456002.0822	*1*8	+0.0762	16613.5	Rc	447	Siz	35SC+ST-9E
DF Cvn	2456002.2430	*8	+0.0735	16614	Rc	447	Siz	35SC+ST-9E
DF Cvn	2456008.1262	*8	+0.0727	16632	V	701	Ioh	30SC+DSI-ProII
DF Cvn	2456008.2944	*1*8	+0.0775	16632.5	V	701	Ioh	30SC+DSI-ProII
CV Cyg	2456185.9929	*1	-0.2930	32266.5	V	531	Ioh	30SC+ST-9XE
KR Cyg	2456147.0599		+0.0183	31995	V	79	Ioh	30SC+ST-9XE
V456 Cyg	2456126.1636		+0.0480	12584	Rc	133	Siz	35SC+ST-9E
V2197 Cyg	2456147.0151				cG	158	Hsk	13R+CANON-EOS-KISS-X3
V2364 Cyg	2456142.0717	*1	-0.0128	6679.5	V	457	Ioh	30SC+ST-9XE
KO Del	2456186.3701	*1*24	-0.0490	8111.5	Rc	63	Kai	28SC+ST-7XME
KO Del	2456186.3705	*1*24	-0.0486	8111.5	V	61	Kai	28SC+ST-7XME
MR Del	2456144.0522	*1*19	-0.0048	14651.5	Ic	74	Nga	10L+CV-04
MR Del	2456144.0530	*1*19	-0.0040	14651.5	Rc	62	Nga	20SC+SV-04LE
TW Dra	2456012.0777		+0.0130	4231	Rc	538	Siz	35SC+ST-9E
AX Dra	2456011.0356		-0.0611	51470	Rc	327	Siz	35SC+ST-9E
AX Dra	2456045.9804	*1	-0.0584	51531.5	Rc	398	Siz	35SC+ST-9E
AX Dra	2456046.2622		-0.0607	51532	Rc	398	Siz	35SC+ST-9E
AX Dra	2456058.1937		-0.0606	51553	V	525	Ioh	30SC+DSI-ProII
BE Dra	2456013.0836	*1	+0.1523	37695.5	Rc	408	Siz	35SC+ST-9E
BE Dra	2456014.1311	*1	+0.1549	37697.5	Rc	292	Siz	35SC+ST-9E
FU Dra	2455988.1555	*17	-0.0140	24413	Rc	259	Siz	35SC+ST-9E
FU Dra	2456053.0281	*1*17	-0.0123	24624.5	V	509	Ioh	30SC+DSI-ProII
FU Dra	2456053.1796	*17	-0.0142	24625	V	509	Ioh	30SC+DSI-ProII
S Equ	2456159.0795		+0.0616	3947	V	159	Ioh	30SC+ST-9XE
RU Eri	2456280.9787		-0.0323	22021	Ic	43	Nga	10L+CV-04
TZ Eri	2456250.1721		+0.3084	5309	V	229	Hsk	16L+ST-402ME
UX Eri	2456239.1362		+0.1928	32152	V	174	Nga	20SC+ST-402
UX Eri	2456285.0003		+0.1931	32255	V	259	Ioh	30SC+ST-9XE

star	min.		O-C	E	color	n	obs.	inst.
YY Eri	2455928.9266	*1	+0.1439	44626.5	Ic	70	Nga	10L+CV-04
YY Eri	2455947.575	*1	+0.146	44684.5	vis	19	Set	
YY Eri	2455976.0264		+0.1448	44773	cG	18	Tkd	CANON-EOS-Kiss-X2-f=135mm
YY Eri	2456246.0851		+0.1484	45613	Ic	97	Nga	10L+CV-04
BC Eri	2456274.0436	*1*30	+0.0705	9052.5	Ic	67	Nga	20SC+ST-402
BC Eri	2456274.0453	*1*30	+0.0722	9052.5	B	67	Nga	20SC+ST-402
BC Eri	2456274.0465	*1*30	+0.0734	9052.5	V	67	Nga	20SC+ST-402
BZ Eri	2455935.9281	*1	+0.0032	45737.5	Ic	43	Nga	10L+CV-04
BZ Eri	2456274.9855		+0.0017	46248	V	66	Nga	20SC+ST-402
BZ Eri	2456274.9869		+0.0031	46248	Ic	84	Nga	20SC+ST-402
BZ Eri	2456274.9870		+0.0032	46248	B	82	Nga	20SC+ST-402
BZ Eri	2456287.9343	*1	-0.0008	46267.5	B	59	Nga	20SC+ST-402
BZ Eri	2456287.9353	*1	+0.0002	46267.5	V	59	Nga	20SC+ST-402
BZ Eri	2456287.9356	*1	+0.0005	46267.5	Ic	60	Nga	20SC+ST-402
W For	2456166.2246		-0.0287	22338	Ic	161	Kis	20SC+E47+
AE For	2456161.2780	*26	-0.2147	8343	C	73	Kis	20SC+E47+
AE For	2456220.0416	*26	-0.2181	8407	Ic	111	Kis	20SC+E47+
AC Gem	2455944.0460		-0.3017	10533	Rc	312	Siz	35SC+ST-9E
AF Gem	2456275.1448		-0.0682	23412	Rc	421	Siz	35SC+ST-9E
AY Gem	2455970.0361		-0.0541	6333	Rc	218	Siz	35SC+ST-9E
LO Gem	2455929.2067	*5	+0.0030	1532	V	495	Ioh	30SC+DSI-ProII
CC Her	2456126.0236		+0.2326	9491	cG	115	Hsk	13R+CANON-EOS-KISS-X3
V728 Her	2456060.1274	*1	-0.0499	32467.5	Rc	350	Siz	35SC+ST-9E
V1119 Her	2456093.0252		-0.0334	6460	Rc	61	Nga	20SC+SV-04LE
u Her	2456002.233		-0.490	30717	vis	48	Kit	7B
WY Hya	2455974.0966	*1	+0.0313	21512.5	Rc	294	Siz	35SC+ST-9E
DF Hya	2455958.0885	*1	+0.0624	75075.5	Rc	238	Siz	35SC+ST-9E
DF Hya	2455960.2363		+0.0613	75082	Rc	285	Siz	35SC+ST-9E
EU Hya	2455978.0007	*1	-0.0399	28079.5	Rc	105	Nga	20SC+SV-04LE
SW Lac	2456221.613	*1	-0.099	34130.5	vis	22	Set	
SW Lac	2456234.604		-0.098	34171	vis	18	Set	
VX Lac	2456156.0660		+0.0798	10142	cG	107	Hsk	13R+CANON-EOS-KISS-X3
VX Lac	2456221.607		+0.077	10203	vis	22	Set	
CM Lac	2456252.561		-0.003	18213	vis	19	Set	
PP Lac	2456183.0749	*1	-0.0576	26392.5	V	643	Ioh	30SC+ST-9XE
PP Lac	2456183.2746		-0.0585	26393	V	643	Ioh	30SC+ST-9XE
UZ Leo	2456001.0485	*1	+0.2286	26212.5	Rc	325	Siz	35SC+ST-9E
XZ Leo	2455959.2161	*1	+0.0565	22417.5	Rc	195	Siz	35SC+ST-9E
XZ Leo	2455961.1672	*1	+0.0567	22421.5	Rc	468	Siz	35SC+ST-9E
AG Leo	2456285.2527		+0.1477	8735	V	260	Ioh	30SC+ST-9XE
AM Leo	2456026.9923	*1	+0.0140	36997.5	Rc	133	Nga	20SC+SV-04LE
AP Leo	2455977.2529	*1	-0.0253	38202.5	V	533	Ioh	30SC+DSI-ProII
AP Leo	2455981.1264	*1	-0.0250	38211.5	Rc	531	Siz	35SC+ST-9E
AP Leo	2455984.9999	*1	-0.0248	38220.5	Rc	469	Siz	35SC+ST-9E
AP Leo	2455985.2150		-0.0248	38221	Rc	469	Siz	35SC+ST-9E
AP Leo	2456011.0320		-0.0293	38281	Rc	45	Nga	20SC+SV-04LE
AP Leo	2456013.1878		-0.0253	38286	V	460	Ioh	30SC+DSI-ProII
VZ Lib	2456053.0829	*1	+0.1560	31441.5	Ic	104	Nga	10L+CV-04
ES Lib	2456176.0975		+0.1438	4919	V	365	Ioh	30SC+ST-9XE
delta Lib	2456024.101		-0.038	5613	vis	21	Kit	5B7B
XY LMi	2456019.0435	*1	-0.0200	8359.5	V	549	Ioh	30SC+DSI-ProII
RZ Lyn	2455940.1669		-0.1290	26416	V	282	Ioh	30SC+DSI-ProII
SW Lyn	2455953.0914		+0.0544	18597	V	665	Ioh	30SC+DSI-ProII
SX Lyn	2455954.2701		+0.0168	5199	V	684	Ioh	30SC+DSI-ProII
TY Lyn	2455956.1199		+0.0589	6910	V	711	Ioh	30SC+DSI-ProII
BG Lyn	2455951.1873	*6	-0.0059	10980	Rc	497	Siz	35SC+ST-9E
BG Lyn	2455957.1865	*6	-0.0059	10985	V	423	Ioh	30SC+DSI-ProII

star	min.		O-C	E	color	n	obs.	inst.
BG Lyn	2456263.1446	*6	-0.0068	11240	Rc	408	Siz	35SC+ST-9E
DY Lyn	2456288.1368		-0.1836	2729	Rc	571	Siz	35SC+ST-9E
DD Mon	2455936.1190		+0.1680	45095	V	288	Ioh	30SC+DSI-ProII
V453 Mon	2455977.0612	*1	-0.1253	33123.5	Rc	455	Siz	35SC+ST-9E
V453 Mon	2456281.1073	*1	+0.2556	33565.5	Rc	282	Siz	35SC+ST-9E
V502 Oph	2456092.9876		-0.1527	32905	Ic	84	Nga	10L+CV-04
V2553 Oph	2456125.1240	*18	-0.0086	7921	Rc	208	Siz	35SC+ST-9E
ER Ori	2455934.0040		+0.1001	33792	Ic	65	Nga	10L+CV-04
ER Ori	2455939.9325		+0.1011	33806	Ic	52	Nga	10L+CV-04
ER Ori	2455969.572		+0.103	33876	vis	17	Set	
ER Ori	2456280.9856	*1	+0.1065	34611.5	Ic	76	Nga	20SC+ST-402
ER Ori	2456280.9858	*1	+0.1067	34611.5	B	77	Nga	20SC+ST-402
ER Ori	2456280.9858	*1	+0.1067	34611.5	V	75	Nga	20SC+ST-402
ET Ori	2456244.1138		-0.0023	31085	V	86	Hsk	20SC+ST-8XME
FZ Ori	2455932.0027		-0.0567	29770	Rc	95	Nga	20SC+SV-04LE
FZ Ori	2455940.0052		-0.0539	29790	Rc	121	Nga	20SC+SV-04LE
FZ Ori	2455947.608		-0.051	29809	vis	20	Set	
V343 Ori	2456272.1452		+0.2466	28021	Rc	431	Siz	35SC+ST-9E
V1848 Ori	2455933.9382	*1	-0.0022	7011.5	Rc	129	Nga	20SC+SV-04LE
V1848 Ori	2455934.0699		-0.0037	7012	Rc	129	Nga	20SC+SV-04LE
V1848 Ori	2456230.1190	*1	-0.0022	8123.5	V	299	Kis	20SC+E47+
V1848 Ori	2456232.1191		+0.0003	8131	V	278	Kis	20SC+E47+
V1848 Ori	2456233.0480	*1	-0.0030	8134.5	V	294	Kis	20SC+E47+
V1848 Ori	2456235.0466		-0.0020	8142	V	386	Kis	20SC+E47+
V1848 Ori	2456268.0737		-0.0023	8266	Ic	93	Nga	20SC+ST-402
V1848 Ori	2456268.0739		-0.0021	8266	V	94	Nga	20SC+ST-402
V1848 Ori	2456268.0747		-0.0013	8266	B	95	Nga	20SC+ST-402
V1848 Ori	2456272.0688		-0.0024	8281	B	117	Nga	20SC+ST-402
V1848 Ori	2456272.0693		-0.0019	8281	V	117	Nga	20SC+ST-402
V1848 Ori	2456274.068	*1	-0.001	8288.5	V	335	Ioh	30SC+ST-9XE
V1848 Ori	2456274.1998		-0.0022	8289	V	335	Ioh	30SC+ST-9XE
V2790 Ori	2456288.0610		-0.0097	16559	V	477	Ioh	30SC+ST-9XE
V2790 Ori	2456288.2045	*1	-0.0101	16559.5	V	477	Ioh	30SC+ST-9XE
U Peg	2456165.9970	*1	-0.1468	52442.5	Rc	455	Siz	35SC+ST-9E
U Peg	2456166.1840		-0.1472	52443	Rc	455	Siz	35SC+ST-9E
BB Peg	2456162.0400		-0.0079	34295	V	298	Ioh	30SC+ST-9XE
BB Peg	2456162.2216	*1	-0.0071	34295.5	V	298	Ioh	30SC+ST-9XE
BN Peg	2456159.1116		+0.0017	31211	Rc	130	Nga	20SC+SV-04LE
BX Peg	2456160.1243	*1	-0.1073	42667.5	Rc	393	Siz	35SC+ST-9E
BX Peg	2456160.2637		-0.1081	42668	Rc	393	Siz	35SC+ST-9E
BX Peg	2456161.1046		-0.1085	42671	V	266	Ioh	30SC+ST-9XE
BX Peg	2456161.2458	*1	-0.1075	42671.5	V	266	Ioh	30SC+ST-9XE
BX Peg	2456234.576		-0.107	42933	vis	22	Set	
BX Peg	2456241.585		-0.109	42958	vis	18	Set	
KW Peg	2456160.1224	*23	+0.1753	9801	Rc	466	Siz	35SC+ST-9E
KW Peg	2456213.0530		+0.0149	14828	Rc	349	Siz	35SC+ST-9E
GP Peg	2456170.1107		-0.0493	15305	V	453	Ioh	30SC+ST-9XE
RT Per	2456225.0065		+0.0796	26900	Rc	141	Siz	35SC+ST-9E
RT Per	2456275.1223		+0.0808	26959	V	138	Hsk	16L+ST-402ME
XZ Per	2456262.9112		-0.0657	11076	V	128	Hsk	20SC+ST-8XME
KN Per	2456239.0792	*31	+0.0132	8931	V	454	Ioh	30SC+ST-9XE
KN Per	2456268.1121	*1*31	+0.0195	8964.5	V	490	Ioh	30SC+ST-9XE
V432 Per	2456249.9515		+0.0787	63373	cG	138	Hsk	13R+CANON-EOS-KISS-X3
V432 Per	2456251.1011		-0.0578	63377	V	455	Ioh	30SC+ST-9XE
V432 Per	2456251.2926	*1	-0.0271	63377.5	V	455	Ioh	30SC+ST-9XE
V740 Per	2456233.1825	*1	+0.0036	12961.5	V	327	Ioh	30SC+ST-9XE

star	min.		O-C	E	color	n	obs.	inst.
V740 Per	2456271.0462		+0.0036	13063	V	513	Ioh	30SC+ST-9XE
V740 Per	2456271.2333	*1	+0.0041	13063.5	V	513	Ioh	30SC+ST-9XE
V873 Per	2456241.0505	*1	-0.0150	16514.5	V	420	Ioh	30SC+ST-9XE
V873 Per	2456241.1995		-0.0134	16515	V	420	Ioh	30SC+ST-9XE
V873 Per	2456241.9360	*1	-0.0142	16517.5	Rc	418	Siz	35SC+ST-9E
V873 Per	2456242.0841		-0.0135	16518	Rc	418	Siz	35SC+ST-9E
V873 Per	2456242.2304	*1	-0.0147	16518.5	Rc	418	Siz	35SC+ST-9E
RV Psc	2456220.9763		-0.0543	57473	Rc	421	Siz	35SC+ST-9E
UV Psc	2456208.1402	*1	-0.0164	14867.5	B	105	Nga	20SC+EOS-Kiss-digital
UV Psc	2456208.1411	*1	-0.0155	14867.5	Rc	105	Nga	20SC+EOS-Kiss-digital
UV Psc	2456208.1417	*1	-0.0149	14867.5	V	105	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456162.0383	*1	-0.1294	47207.5	Ic	306	Kis	20SC+E47+
VZ Psc	2456182.0356		-0.1129	47284	Ic	228	Kis	20SC+E47+
VZ Psc	2456185.0459	*1	-0.1062	47295.5	Ic	98	Nga	10L+CV-04
VZ Psc	2456220.9631		-0.1022	47433	B	156	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456220.9702		-0.0951	47433	V	156	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456220.9761		-0.0892	47433	Rc	156	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456221.0827	*1	-0.1132	47433.5	Rc	156	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456221.0883	*1	-0.1076	47433.5	V	156	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456221.0890	*1	-0.1069	47433.5	B	156	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456221.9939		-0.1161	47437	V	86	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456221.9989		-0.1111	47437	Rc	86	Nga	20SC+EOS-Kiss-digital
VZ Psc	2456221.9992		-0.1108	47437	B	86	Nga	20SC+EOS-Kiss-digital
AQ Psc	2456241.9568	*27	+0.1475	24555	V	491	Nga	20SC+ST-402
DV Psc	2456155.2004	*1*22	+0.0414	13836.5	V	158	Ioh	30SC+ST-9XE
DV Psc	2456158.2872	*1*22	+0.0428	13846.5	V	187	Ioh	30SC+ST-9XE
DV Psc	2456160.1374	*1*22	+0.0418	13852.5	V	309	Ioh	30SC+ST-9XE
DV Psc	2456160.2880	*22	+0.0381	13853	V	309	Ioh	30SC+ST-9XE
DV Psc	2456219.9911	*1*22	+0.0390	14046.5	Ic	142	Kis	20SC+E47+
DV Psc	2456221.9956	*22	+0.0381	14053	Ic	297	Kis	20SC+E47+
UZ Pup	2455933.1655		-0.0087	14241	V	456	Ioh	30SC+DSI-ProII
Y Sex	2456000.9985	*1	-0.0113	33906.5	Ic	53	Nga	10L+CV-04
Y Sex	2456014.0161	*1	-0.0082	33937.5	Rc	145	Nga	20SC+SV-04LE
VY Sex	2456018.9822	*1*11	+0.0217	7935.5	Ic	59	Nga	10L+CV-04
VY Sex	2456026.9638	*1*11	+0.0215	7953.5	Ic	52	Nga	10L+CV-04
AI Sex	2455999.0662		-0.0132	4328	Rc	97	Nga	20SC+SV-04LE
AI Sex	2456002.0823		-0.0152	4333	Rc	145	Nga	20SC+SV-04LE
RZ Tau	2455947.611		+0.063	43955	vis	20	Set	
SV Tau	2455928.0921		-0.0232	9924	Rc	415	Siz	35SC+ST-9E
WY Tau	2456239.1114		+0.0598	27191	Rc	448	Siz	35SC+ST-9E
AC Tau	2456221.2699		+0.0958	5180	V	249	Hsk	25L+ST-402ME
AH Tau	2456272.0147	*1	-0.1362	75778.5	V	348	Ioh	30SC+ST-9XE
AH Tau	2456272.1809		-0.1363	75779	V	348	Ioh	30SC+ST-9XE
CD Tau	2455955.960	*1	+0.008	4173.5	vis	27	Kit	7B
CT Tau	2456194.2817		-0.0584	16181	V	121	Hsk	25L+ST-402ME
GR Tau	2456160.1682		-0.0429	26956	Ic	112	Kis	20SC+E47+
GR Tau	2456183.1622	*1	-0.0460	27009.5	Ic	200	Kis	20SC+E47+
GR Tau	2456280.9579		-0.0417	27237	cG	92	Hsk	13R+CANON-EOS-KISS-X3
GW Tau	2456280.9524		-0.0910	61405	V	114	Hsk	16L+ST-402ME
GW Tau	2456293.1410		-0.0876	61424	V	427	Ioh	30SC+ST-9XE
V Tri	2456221.1243		-0.0047	54249	V	448	Ioh	30SC+ST-9XE
V Tri	2456241.612		+0.001	54284	vis	20	Set	
X Tri	2456275.1210		-0.0830	14176	cG	130	Hsk	13R+CANON-EOS-KISS-X3
RS Tri	2456235.569		-0.043	9584	vis	22	Set	
W UMa	2455978.148	*1	-0.067	30609.5	vis	55	Kit	7B
W UMa	2456014.013		-0.068	30717	vis	48	Kit	7B
VV UMa	2455956.2032		-0.0504	14753	Rc	541	Siz	35SC+ST-9E
AA UMa	2455952.9783		+0.0421	32658	Rc	307	Siz	35SC+ST-9E

star	min.		O-C	E	color	n	obs.	inst.
AA UMa	2455953.2127		+0.0424	32658.5	Rc	307	Siz	35SC+ST-9E
AA UMa	2455955.0832		-0.1936	32663	Rc	465	Siz	35SC+ST-9E
AA UMa	2455955.3191	*1	-0.1918	32663.5	Rc	465	Siz	35SC+ST-9E
AA UMa	2456011.9602	*1	-0.1939	32784.5	V	765	Ioh	30SC+DSI-ProII
AA UMa	2456012.1966	1	-0.1916	32785	V	765	Ioh	30SC+DSI-ProII
KM UMa	2455963.0329	*1*7	-0.0260	13478.5	Rc	483	Siz	35SC+ST-9E
KM UMa	2455963.2137	*7	-0.0211	13479	Rc	483	Siz	35SC+ST-9E
KM UMa	2455978.1558	*1*7	-0.0331	13521.5	V	501	Ioh	30SC+DSI-ProII
KM UMa	2455978.3432	*7	-0.0217	13522	V	501	Ioh	30SC+DSI-ProII
RU UMi	2455961.1893	*1	-0.0146	27365.5	V	573	Ioh	30SC+DSI-ProII
RU UMi	2455976.1513		-0.0130	27394	V	896	Ioh	30SC+DSI-ProII
AW Vir	2455976.2215	*1	+0.0259	30942.5	Rc	291	Siz	35SC+ST-9E
AW Vir	2456053.0401	*1	+0.0271	31159.5	Rc	60	Nga	20SC+SV-04LE
BF Vir	2456054.0708		+0.1034	15585	Rc	135	Nga	20SC+SV-04LE
HW Vir	2456011.0949	*16	-0.0057	88079	V	160	Kis	20SC+E47+
HW Vir	2456012.0873	*1*16	-0.0054	88087.5	V	191	Kis	20SC+E47+
HW Vir	2456012.1456	*16	-0.0054	88088	V	191	Kis	20SC+E47+
NY Vir	2455940.2588	*4	-0.0020	56594	Ic	399	Kis	20SC+E47+
NY Vir	2456013.1423	*1*4	-0.0015	57315.5	C	142	Kis	20SC+E47+
NY Vir	2456014.1017	*4	-0.0018	57325	C	243	Kis	20SC+E47+
NY Vir	2456014.1524	*1*4	-0.0016	57325.5	C	243	Kis	20SC+E47+
PY Vir	2456054.9673		-0.0291	13186	Ic	79	Nga	10L+CV-04
PY Vir	2456061.0344	*1	-0.0314	13205.5	V	416	Ioh	30SC+DSI-ProII
ASAS005530-1106.6	2456222.0039	*25	+0.0432	8012.5	Ic	104	Nga	10L+CV-04
ASAS034703-0704.2	2456286.9027	*32	-0.0250	11694	Ic	178	Nga	20SC+ST402
ASAS034703-0704.2	2456286.9029	*32	-0.0248	11694	V	178	Nga	20SC+ST402
ASAS034703-0704.2	2456286.9034	*32	-0.0243	11694	B	178	Nga	20SC+ST402
ASAS095556+0215.5	2456001.0695	*1*9	+0.0124	7133.5	Rc	97	Nga	20SC+SV-04LE
ASAS111217+0119.1	2456029.9714	*1*13	+0.0042	13347.5	Rc	40	Nga	20SC+SV-04LE
ASAS111636-0154.2	2456012.0470	*10	+0.0198	6585	Rc	128	Nga	20SC+SV-04LE
ASAS115632+0717.8	2456026.0122	*12	-0.0544	1626	Rc	112	Nga	20SC+SV-04LE
ASAS174705+2058.1	2456149.3921	*20	+0.0221	6695	V	60	Kai	28SC+ST-7XME
ASAS174705+2058.1	2456150.4206	*20	+0.0224	6697	V	36	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456151.3642	*21	-0.0149	9512	V	39	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456151.3644	*21	-0.0147	9512	Rc	38	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456157.3387	*1*21	-0.0149	9528.5	Rc	55	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456157.3392	*1*21	-0.0144	9528.5	V	54	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456158.4012	*1*21	-0.0387	9531.5	V	66	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456158.4013	*1*21	-0.0386	9531.5	Rc	66	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456159.3329	*21	-0.0122	9534	Rc	64	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456159.3334	*21	-0.0117	9534	V	64	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456167.4315	*1*21	-0.0607	9556.5	Rc	65	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456167.4325	*1*21	-0.0597	9556.5	V	65	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456168.3642	*21	-0.0332	9559	V	59	Kai	28SC+ST-7XME
ASAS174755+2056.9	2456168.3645	*21	-0.0329	9559	Rc	58	Kai	28SC+ST-7XME

Observers

Bna / Babe Natsuki
Ebi / Ebata Kouhei
Edm / Endo Masakatsu
Hsk / Hirosawa Kenji
Ioh / Itoh Hiroshi
Ium / Ishizu Mitsuhiro
Kai / Kasai Kiyoshi
Kcy / Kamitani Chiyuki
Keo / Kaise Yoshimi
Kgi / Kurogi Natsumi
Kis / Kiyota Seiichiro
Kit / Kanai Kiyotaka
Kmh / Kazama Miho
Koc / Kato Taichi
Ksu / Kishida Ikumi
Kze / Kitsunozuka Tetsuya
Mhh / Maehara Hiroyuki
Mku / Motoki Kazut
Mod / Morinaga Daiki
Mya / Matsuyama Kanna
Nga / Nagai Kazuo
Ngi / Nagata Yoshiki
Nta / Nakamura Takehisa
Oet / Osonoe Toshiyuki
Set / Chris Stephan
Sez / Segawa Mizuki
Siz / Shiokawa Kazuhiko
Sjc / Shouji Chihiro
Sut / Sugaya Yoshitaka
Tae / Takagi Kenta
Tkd / Tokai University Astronomical Club
Tmy / Tomono Yayoi
Uor / Ushio Ryouta
Yda / Yamada Masahiro
Ykg / Yoshikawa Genki
Yot / Yoshioka Kentaro

Remarks

- 1 secondary minimum
 2 min=2449030.430+1.323147xE (IBVS3859)
 3 min=2448500.427+0.677128xE (Hipparcos catalog)
 4 min=2450223.36134+0.101015999xE (Kilkenny et al. 2000)
 5 min=2452500.914+2.237787xE (J.M. Kreiner, 2004, AA 54)
 6 min=2442776.961+1.199839xE (R.Dequinze, J.AAVSO 19,1990)
 7 min=2451220.4869+0.351862xE (IBVS 4810)
 8 min=2450571.219+0.326890xE (IBVS 5021)
 9 min=2451914.81+0.572825xE (ASAS-3 catalog)
 10 min=2451871.05+0.62885xE (ASAS-3 catalog)
 11 min=2452500.1065+0.44343192xE (Gazeas,K.D. et. al., 2006AcA,56,127G)
 12 min=2452385.29+2.239100xE (ASAS-3 catalog)
 13 min=2451871.033+0.311589xE (ASAS-3 catalog)
 14 min=2452500.0767+0.5174622xE (J.M. Kreiner, 2004, AA 54)
 15 min=2448500.3018+0.420512xE (Hipparcos catalog)
 16 min=2445730.5565+0.116719582xE (Cakirli and Devlen (1999))
 17 min=2448500.2630+0.306718xE (Hipparcos catalog)
 18 min=2452500.3620+0.45761527xE (J.M. Kreiner, 2004, AA 54)
 19 min=2448500.5160+0.52169xE (Hipparcos catalog)
 20 min=2452707.35+0.514118xE (ASAS-3 catalog)
 21 min=2452707.16+0.362092xE (ASAS-3 catalog)
 22 min=2451886.073+0.308538xE (ASAS3 catalog)
 23 min=2448158.5675+0.816384xE (IBVS 3579)
 24 min=2451455.224473+0.58327xE (NSVS 11479509)
 25 min=2451869.09+0.54326xE (ASAS-3 catalog)
 26 min=2448500.6581+0.918235xE (Hipparcos catalog)
 27 min=2444562.4691+0.475640xE (IBVS5463)
 28 min=2451975.6040+0.4341474xE (IBVS5132)
 30 min=2451501.10674970+0.5272429xE (IBVS4937)
 31 min=2448500.6671+0.866465xE (BAV Rbf. 52, 93ff)
 32 min=2451869.87+0.37772xE (ASAS-3 catalog)
 33 min=2448500.251+0.440794xE (Hipparcos catalog)

cR magnitude means R plane of DSLR camera.

cG magnitude means G plane of DSLR camera.

cB magnitude means B plane of DSLR camera.

VSOLJ

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