

# Variable Star Bulletin

## Visual, CCD and DSLR minima of eclipsing binaries during 2016

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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	2457598.1321	*1	+0.0705	9820.5	V	228	Kis	25SC+F47
AB And	2457623.627	*1	-0.003	15437.5	vis	18	Set	
AD And	2457668.1454		-0.0385	5240	Rc	447	Siz	35SC+ST-9E
DS And	2457632.1020		+0.0041	5078	V	148	Ioh	6R+ATIK414EX
V527 And	2457620.1117		+0.0585	8765	V	210	Ioh	6R+ATIK414EX
V546 And	2457684.9492	*1	-0.1548	16211.5	Rc	350	Siz	35SC+ST-9E
V546 And	2457685.1376		-0.1580	16212	Rc	350	Siz	35SC+ST-9E
V546 And	2457686.0984	*1	-0.1547	16214.5	Rc	501	Siz	35SC+ST-9E
S Ant	2457391.239		+0.023	7347	vis	23	Kit	7B
S Ant	2457392.200	*1	+0.011	7348.5	vis	20	Kit	7B
S Ant	2457406.132		+0.004	7370	vis	22	Kit	7B
S Ant	2457407.122	*1	+0.021	7371.5	vis	31	Kit	7B
S Ant	2457413.267		+0.007	7381	vis	29	Kit	7B
S Ant	2457414.258	*1	+0.025	7382.5	vis	27	Kit	7B
S Ant	2457415.216		+0.011	7384	vis	34	Kit	7B
S Ant	2457430.124		+0.007	7407	vis	34	Kit	8B
OO Aql	2457548.684	*1	+0.005	4927.5	vis	15	Set	
OO Aql	2457567.678		-0.005	4965	vis	20	Set	
OO Aql	2457573.2566		-0.0014	4976	V	283	Kis	25SC+F47
OO Aql	2457603.661		-0.005	5036	vis	23	Set	
OO Aql	2457653.591	*1	+0.006	5134.5	vis	18	Set	
OO Aql	2457672.586		-0.003	5172	vis	20	Set	
V337 Aql	2457573.0263	*1	-0.0171	1988.5	Ic	86	Nga	10L+CV-04
V346 Aql	2457627.622		+0.002	2688	vis	22	Set	
CX Aqr	2457631.0841		-0.0154	9228	B	107	Nga	20SC+ST-402
CX Aqr	2457631.0842		-0.0153	9228	V	107	Nga	20SC+ST-402
CX Aqr	2457631.0843		-0.0152	9228	Ic	108	Nga	20SC+ST-402
ST Aqr	2457635.9800	*1	-0.0122	6575.5	Ic	96	Nga	10L+CV-04
SU Aqr	2457605.1043		-0.0046	4886	Ic	122	Nga	10L+CV-04
OO Aqr	2457607.9960		-0.2437	6915	Ic	102	Nga	10L+CV-04
OO Aqr	2457610.0457	*1	-0.2472	6918.5	Ic	93	Nga	10L+CV-04

star	min.		O-C	E	color	n	obs.	inst.
V357 Aqr	2457626.0490		-0.0013	12248	Ic	53	Nga	10L+CV-04
SS Ari	2457653.623	*1	-0.005	12693.5	vis	14	Set	
ZZ Aur	2457726.0549		-0.0019	8692	Rc	487	Siz	35SC+ST-9E
AH Aur	2457732.926	*1	+0.198	10589.5	Rc	378	Siz	35SC+ST-9E
AH Aur	2457733.1744		+0.1997	10590	Rc	378	Siz	35SC+ST-9E
AP Aur	2457414.1129	*1	+0.1294	12211.5	V	387	Kub	16L+BJ41L
AP Aur	2457477.589		+0.120	12323	vis	18	Set	
EO Aur	2457440.0185		-0.0009	1215	V	522	Ioh	10L+ATIK414EX
HL Aur	2457702.2394		-0.0018	8356	Rc	382	Siz	35SC+ST-9E
HP Aur	2457710.1817		+0.0036	7982	Rc	352	Siz	35SC+ST-9E
HR Aur	2457389.2821		+0.0433	6530	Rc	162	Ioh	30SC+ST-9XE
HR Aur	2457389.2867		+0.0479	6530	V	181	Ioh	30SC+ST-9XE
HR Aur	2457389.2879		+0.0491	6530	B	185	Ioh	30SC+ST-9XE
HS Aur	2457722.1637		-4.8846	1184	Rc	512	Siz	35SC+ST-9E
HU Aur	2457737.0569		-0.0020	3719	Rc	415	Siz	35SC+ST-9E
IY Aur	2457734.0926		-0.0051	1873	Rc	469	Siz	35SC+ST-9E
V591 Aur	2457705.0746		+0.0042	5476	Rc	439	Siz	35SC+ST-9E
QW Boo	2457531.0478		+0.0236	21106	V	522	Ioh	20SC+ATIK414EX
TZ Boo	2457412.2552		+0.1430	8247	V	207	Kub	16L+BJ41L
TZ Boo	2457413.2960	*1	+0.1437	8250.5	V	203	Kub	16L+BJ41L
TZ Boo	2457548.633		+0.124	8706	vis	15	Set	
VW Boo	2457517.655		-0.004	14658	vis	15	Set	
AC Boo	2457447.1146	*1	+0.0217	14035.5	V	67	Ioh	6R+ATIK414EX
DN Boo	2457742.339		-0.008	8800	V	72	Ioh	6R+ATIK414EX
ET Boo	2457436.1806		-0.0121	3804	V	55	Ioh	6R+ATIK414EX
EW Boo	2457494.2189		+0.0058	5510	V	135	Ioh	10L+ATIK414EX
GK Boo	2457451.1071		-0.0015	5215	V	86	Ioh	6R+ATIK414EX
GM Boo	2457508.1208		+0.0219	13868	V	449	Ioh	20SC+ATIK414EX
LM Boo	2457544.996		-0.014	11348	V	135	Ioh	20SC+ATIK414EX
IK Boo	2457415.2924		-0.0097	4440	V	167	Kub	16L+BJ41L
IK Boo	2457527.1423		-0.0102	4809	V	401	Ioh	20SC+ATIK414EX
NX Boo	2457530.1050	*1	-0.1186	4254.5	V	219	Ioh	20SC+ATIK414EX
NX Boo	2457530.2319		-0.1173	4255	V	219	Ioh	20SC+ATIK414EX
AK Cam	2457408.0910		-0.0001	1105	V	406	Ioh	6R+ATIK414EX
AO Cam	2457705.2927		-0.0121	15778	Ic	265	Kis	25SC+F47
NR Cam	2457412.0487	*1	+0.0124	22753.5	V	259	Kub	16L+BJ41L
NR Cam	2457412.1773		+0.0130	22754	V	259	Kub	16L+BJ41L
NR Cam	2457416.0161		+0.0135	22769	V	314	Kub	16L+BJ41L
V474 Cam	2457740.9765	*1	-0.0088	19194.5	Rc	399	Siz	35SC+ST-9E
V474 Cam	2457741.1399		-0.0095	19195	Rc	399	Siz	35SC+ST-9E
V489 Cam	2457401.0844		+0.0330	9480	V	286	Kub	16L+BJ41L
CM Cap	2457612.9998	*1	-0.0058	13449.5	Ic	97	Nga	10L+CV-04
RZ Cas	2457436.9603		+0.0670	11911	cG	13	Sae	f=50mmlens+EOSKissdigitalN
RZ Cas	2457477.606		+0.074	11945	vis	22	Set	
RZ Cas	2457624.624		+0.077	12068	vis	23	Set	
RZ Cas	2457679.606		+0.078	12114	vis	23	Set	
V523 Cas	2457659.0368	*1	+0.1129	70343.5	Rc	146	Siz	35SC+ST-9E
V1160 Cas	2457677.1207		+0.0237	2900	V	466	Ioh	30SC+ST-9XE
EG Cep	2457567.684		+0.014	27493	vis	25	Set	
YY Cep	2457721.9565		+0.3852	27194	Ic	99	Nga	10L+CV-04
CT Cet	2457676.0347	*20	+0.0372	22641	Ic	46	Nga	10L+CV-04
CT Cet	2457686.0419	*20	+0.0414	22680	Ic	72	Nga	10L+CV-04
DY Cet	2457724.9040	*28	+0.1570	20927	Ic	57	Nga	10L+CV-04
DY Cet	2457741.874	*28	-0.064	20966	Ic	38	Nga	10L+CV-04
R CMa	2457740.1552		+0.0122	1877	cG	79	Nga	f=105mm+EOSKissdigital
SX CMa	2457747.0744	*1	-0.0129	1297.5	Ic	64	Nga	10L+CV-04

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TZ CMa	2457746.0656		-1.8616	796	Ic	93	Nga	10L+CV-04
KL CMa	2457398.0334		+0.6314	5236	Ic	97	Nga	10L+CV-04
YY CMi	2457398.1461	*1	+0.0232	26850.5	cG	96	Nga	f=105mm+EOSKissdigital
AC CMi	2457404.0621		-0.0858	32817	Rc	300	Siz	35SC+ST-9E
AK CMi	2457734.0585		-0.0252	25857	V	116	Ioh	6R+DSI-II
BH CMi	2457415.0414	*5	-0.1859	17570	Ic	111	Nga	10L+CV-04
CZ CMi	2457413.0791		+0.1159	11906	V	97	Nga	20SC+ST-402
CZ CMi	2457413.0802		+0.1170	11906	Ic	99	Nga	20SC+ST-402
CZ CMi	2457413.0806		+0.1174	11906	B	95	Nga	20SC+ST-402
TX Cnc	2457717.2017		-0.0010	3718	V	94	Ioh	6R+ATIK414EX
TX Cnc	2457717.2021		-0.0006	3718	V	351	Kis	25SC+F47
WY Cnc	2457403.1759		-0.0000	1301	Rc	516	Siz	35SC+ST-9E
KY Cnc	2457445.1684		+0.0113	1267	V	155	Ioh	10L+ATIK414EX
RW Com	2457468.1757	*1	+0.0050	73503.5	V	383	Mdy	35SC+ST-10XME
RW Com	2457468.2947		+0.0054	73504	V	383	Mdy	35SC+ST-10XME
RW Com	2457532.627		+0.017	73775	vis	17	Set	
RZ Com	2457446.2884		+0.0502	66790	V	97	Ioh	10L+ATIK414EX
RZ Com	2457477.580		+0.030	66882.5	vis	16	Set	
SS Com	2457414.1556	*1	-0.1552	78518.5	V	112	Ioh	6R+ATIK414EX
CC Com	2457517.613	*1	-0.026	81491.5	vis	13	Set	
CC Com	2457532.63	*1	-0.02	81559.5	vis	13	Set	
RW CrB	2457427.2319		+0.0016	22956	V	211	Kub	16L+BJ41L
YY CrB	2457513.0715	*1*11	-0.1195	23934.5	cG	128	Hsk	f=250mm+EOSKissX3
AC Crt	2457423.137		+0.012	6019	V	45	Ioh	6R+ATIK414EX
AC Crt	2457445.0496	*1	+0.0119	6054.5	V	61	Nga	20SC+ST-402
AC Crt	2457445.0509	*1	+0.0132	6054.5	B	61	Nga	20SC+ST-402
AC Crt	2457445.0513	*1	+0.0136	6054.5	Ic	61	Nga	20SC+ST-402
BO CVn	2457411.3213		+0.0020	1938	V	299	Ioh	10L+ATIK414EX
CI CVn	2457413.1307		+0.0016	2193	V	130	Ioh	6R+ATIK414EX
CI CVn	2457449.0293		+0.0017	2237	V	67	Ioh	6R+ATIK414EX
DE CVn	2457449.1772		-0.0024	18944	V	126	Kis	25SC+F47
DF CVn	2457729.2313		-0.0011	4252	V	95	Ioh	6R+DSI-II
EL CVn	2457452.0484		-0.0248	11463	V	86	Ioh	6R+ATIK414EX
Y Cyg	2457606.1203	*1	+0.1348	16070.5	y	108	Kis	25SC+F47
Y Cyg	2457633.0850	*1	+0.1326	16079.5	y	492	Kis	25SC+F47
Y Cyg	2457636.0786	*1	+0.1298	16080.5	y	426	Kis	25SC+F47
ZZ Cyg	2457570.1015		-0.0698	19996	Rc	98	Siz	35SC+ST-9E
ZZ Cyg	2457604.675		-0.070	20051	vis	25	Set	
V388 Cyg	2457624.640		-0.113	18243	vis	20	Set	
V456 Cyg	2457604.657		+0.054	14243	vis	21	Set	
V863 Cyg	2457542.1233		+0.0215	19419	V	96	Ioh	6R+ATIK414EX
V1141 Cyg	2457576.1513	*1	+0.0938	23053.5	Rc	326	Siz	35SC+ST-9E
V2552 Cyg	2457573.1732		-0.0251	21990	V	291	Ioh	20SC+ATIK414EX
V2552 Cyg	2457668.140		-0.031	22331	V	57	Ioh	20SC+ATIK414EX
TY Del	2457624.668		+0.069	12312	vis	23	Set	
DM Del	2457576.0172		-0.1108	15479	V	134	Ioh	6R+ATIK414EX
FZ Del	2457610.0864	*1	-0.0323	33561.5	Ic	77	Nga	20SC+ST-402
FZ Del	2457610.0867	*1	-0.0320	33561.5	V	78	Nga	20SC+ST-402
Z Dra	2457541.0609		-0.2000	10344	V	230	Kis	25SC+F47
SX Dra	2457531.1478		+0.1097	2481	V	233	Kis	25SC+F47
AI Dra	2457513.1987		+0.0341	11863	cG	175	Hsk	250mm+EOSKissX3
AX Dra	2457396.2173		-0.0642	53908	V	310	Kub	16L+BJ41L
AX Dra	2457398.2058	*1	-0.0643	53911.5	V	262	Kub	16L+BJ41L
BH Dra	2457536.1564		-0.0044	9639	V	399	Kis	25SC+F47
BV Dra	2457532.1843		+0.0044	37301	V	555	Kis	25SC+F47
BW Dra	2457532.0976	*1	-0.1263	51202.5	V	556	Kis	25SC+F47

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YY Eri	2457682.210		+0.156	50080	vis	25	Kit	12B
YY Eri	2457696.192	*1	+0.156	50123.5	vis	29	Kit	12B
YY Eri	2457698.125	*1	+0.160	50129.5	vis	26	Kit	12B
YY Eri	2457702.151		-0.154	50143	vis	27	Kit	12B
YY Eri	2457718.0557	*1	+0.1581	50191.5	B	86	Nga	20SC+ST-402
YY Eri	2457742.9725		+0.1591	50269	Ic	77	Nga	10L+CV-04
YY Eri	2457746.9904	*1	+0.1583	50281.5	Ic	90	Nga	10L+CV-04
BC Eri	2457389.9749		+0.0922	11169	B	42	Nga	20SC+ST-402
BC Eri	2457389.9763		+0.0936	11169	Ic	43	Nga	20SC+ST-402
BC Eri	2457389.9775		+0.0948	11169	V	42	Nga	20SC+ST-402
BQ Eri	2457729.0311	*1	+0.3287	18585.5	Vc	62	Nga	10L+CV-04
BV Eri	2457696.084		-0.226	28063	Ic	27	Nga	10L+CV-04
BV Eri	2457740.0003	*1	-0.2231	28149.5	Ic	337	Nga	20SC+ST-402
BV Eri	2457740.0009	*1	-0.2225	28149.5	B	336	Nga	20SC+ST-402
BV Eri	2457740.0010	*1	-0.2224	28149.5	V	336	Nga	20SC+ST-402
BV Eri	2457750.9165		-0.2217	28171	Ic	250	Nga	10L+CV-04
AF Gem	2457477.613		-0.068	24379	vis	20	Set	
GX Gem	2457390.2379		-0.7141	1252	Rc	629	Siz	35SC+ST-9E
V367 Gem	2457732.2842				C	347	Mdy	35SC+ST-10XME
V390 Gem	2457391.0814		-0.0555	2056	Rc	454	Siz	35SC+ST-9E
SZ Her	2457567.676		-0.026	19195	vis	20	Set	
SZ Her	2457603.672		-0.0259	19239	vis	24	Set	
AK Her	2457472.1288		+0.0162	36263	V	232	Ioh	6R+ATIK414EX
V342 Her	2457437.2822		+0.0270	25529	V	77	Ioh	6R+ATIK414EX
V728 Her	2457493.1131		+0.2222	35678	V	75	Ioh	6R+ATIK414EX
V1035 Her	2457527.0287	*13	+0.2420	9685	Rc	384	Siz	35SC+ST-9E
V1045 Her	2457531.0466	*15	+0.0084	12240	Rc	334	Siz	35SC+ST-9E
V1071 Her	2457530.0455	*14	-0.1644	11576	Rc	177	Siz	35SC+ST-9E
V1073 Her	2457526.0551	*1*12	+0.0285	19639.5	Rc	183	Siz	35SC+ST-9E
V1103 Her	2457541.1268		-0.0114	17212	V	142	Ioh	20SC+ATIK414EX
V1119 Her	2457531.1610		-0.0367	8448	V	118	Nga	20SC+ST-402
V1119 Her	2457531.1613		-0.0364	8448	B	118	Nga	20SC+ST-402
V1119 Her	2457531.1631		-0.0346	8448	Ic	119	Nga	20SC+ST-402
V1238 Her	2457415.2824		-0.0126	35099	V	82	Ioh	6R+ATIK414EX
V1238 Her	2457487.0918		-0.0127	35293	V	74	Ioh	6R+ATIK414EX
V1289 Her	2457572.100		-0.002	13716	V	124	Ioh	20SC+ATIK414EX
DF Hya	2457428.9602	*1	+0.1045	79524.5	V	73	Nga	20SC+ST-402
DF Hya	2457428.961	*1	+0.105	79524.5	B	73	Nga	20SC+ST-402
DF Hya	2457428.9613	*1	+0.1056	79524.5	Ic	73	Nga	20SC+ST-402
DF Hya	2457429.1264		+0.1054	79525	Ic	73	Nga	20SC+ST-402
DF Hya	2457429.1266		+0.1056	79525	V	73	Nga	20SC+ST-402
DF Hya	2457429.1267		+0.1057	79525	B	73	Nga	20SC+ST-402
DF Hya	2457435.0769		+0.1051	79543	V	71	Nga	20SC+ST-402
DF Hya	2457435.0770		+0.1052	79543	B	70	Nga	20SC+ST-402
DF Hya	2457435.0773		+0.1055	79543	Ic	71	Nga	20SC+ST-402
DF Hya	2457435.0776		+0.1058	79543	V	219	Hsk	13R+ST-8XME
EU Hya	2457402.1270	*1	-0.0351	29909.5	V	57	Nga	20SC+ST-402
EU Hya	2457402.1326	*1	-0.0295	29909.5	Ic	57	Nga	20SC+ST-402
EU Hya	2457427.0412	*1	-0.0236	29941.5	Ic	99	Nga	10L+CV-04
EU Hya	2457435.9803		-0.0339	29953	V	71	Ioh	6R+ATIK414EX
EU Hya	2457435.9815		-0.0327	29953	Ic	98	Nga	10L+CV-04
FG Hya	2457415.0261		-0.0478	37967	V	80	Ioh	6R+ATIK414EX
FG Hya	2457415.0262		-0.0477	37967	Ic	91	Nga	20SC+ST-402
FG Hya	2457415.0278		-0.0461	37967	B	90	Nga	20SC+ST-402
FG Hya	2457415.0281		-0.0458	37967	V	90	Nga	20SC+ST-402
FO Hya	2457430.093		-0.319	22618	Ic	96	Nga	10L+CV-04

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FO Hya	2457451.0014	*1	+0.3069	22635.5	Ic	104	Nga	10L+CV-04
FO Hya	2457744.2318		-0.2692	22889	V	85	Ioh	6R+ATIK414EX
V409 Hya	2457398.1341	*1	+0.0609	8985.5	Ic	72	Nga	20SC+ST-402
V409 Hya	2457398.1343	*1	+0.0611	8985.5	B	70	Nga	20SC+ST-402
V409 Hya	2457398.1351	*1	+0.0619	8985.5	V	68	Nga	20SC+ST-402
SW Lac	2457580.069		-0.057	38366	vis	15	Set	
SW Lac	2457623.667		-0.077	38502	vis	19	Set	
SW Lac	2457672.573	*1	-0.081	38654.5	vis	22	Set	
UX Leo	2457450.0206		-0.3545	19931	V	104	Ioh	6R+ATIK414EX
UZ Leo	2457430.0069	*1	+0.2721	28524.5	V	118	Ioh	6R+ATIK414EX
XZ Leo	2457427.0666		+0.0682	25427	V	252	Kub	16L+BJ41L
AM Leo	2457478.1085	*1	+0.0119	40964.5	V	142	Ioh	10L+ATIK414EX
AP Leo	2457434.0338	*1	-0.0049	41587.5	V	88	Ioh	6R+ATIK414EX
AP Leo	2457435.1085		-0.0061	41590	Ic	71	Nga	10L+CV-04
AP Leo	2457465.0205	*1	-0.0039	41659.5	V	104	Nga	20SC+ST-402
AP Leo	2457465.0205	*1	-0.0039	41659.5	Ic	103	Nga	20SC+ST-402
AP Leo	2457465.0209	*1	-0.0035	41659.5	B	102	Nga	20SC+ST-402
GV Leo	2457400.0923		+0.0479	17417	V	88	Ioh	6R+ATIK414EX
HI Leo	2457398.3213		+0.0108	21971	V	87	Ioh	10L+ATIK414EX
VZ Lib	2457527.1119		+0.1105	35556	V	70	Nga	20SC+ST-402
VZ Lib	2457527.1126		+0.1112	35556	B	68	Nga	20SC+ST-402
VZ Lib	2457527.1133		+0.1119	35556	Ic	70	Nga	20SC+ST-402
AG LMi	2457395.1049		+0.0075	8636	V	82	Ioh	6R+ATIK414EX
BB Mon	2457402.1525		-0.0056	41928	Rc	458	Siz	35SC+ST-9E
FS Mon	2457396.0913		-0.0117	12038	Rc	342	Siz	35SC+ST-9E
V445 Mon	2457391.9763		-0.3628	7720	Rc	422	Siz	35SC+ST-9E
V536 Mon	2457750.9918	*34	-0.0051	856	Rc	384	Siz	35SC+ST-9E
V864 Mon	2457429.0830		-0.0111	10930	V	142	Ioh	10L+ATIK414EX
V864 Mon	2457730.1632		-0.0096	11770	Ic	84	Nga	10L+CV-04
V868 Mon	2457446.0627		-0.0744	7471	V	163	Ioh	10L+ATIK414EX
UV Lyn	2457721.1317		+0.0975	42049	V	118	Ioh	6R+ATIK414EX
EL Lyn	2457469.1202	*1	+0.0838	9087.5	V	359	Mdy	35SC+ST-10XME
EL Lyn	2457470.0850		+0.0818	9089	V	277	Mdy	35SC+ST-10XME
FL Lyn	2457391.2329		+0.0162	15572	V	260	Ioh	10L+ATIK414EX
PS Lyr	2457542.0113		+0.0233	15854	Rc	399	Siz	35SC+ST-9E
PY Lyr	2457542.1439		+0.1546	32203	V	164	Kis	25SC+F47
TZ Lyr	2457566.1574		+0.0019	24170	Rc	225	Siz	35SC+ST-9E
V563 Lyr	2457541.1834		-0.0375	9929	Rc	364	Siz	35SC+ST-9E
V573 Lyr	2457537.1942	*1*16	+0.0495	7177.5	Rc	307	Siz	35SC+ST-9E
SW Oph	2457545.0748		+0.3795	6729	V	46	Nga	20SC+ST-402
SW Oph	2457545.0779		+0.3826	6729	B	45	Nga	20SC+ST-402
SW Oph	2457545.0784		+0.3831	6729	Ic	44	Nga	20SC+ST-402
V839 Oph	2457484.1866		-0.1084	41653	V	111	Ioh	6R+ATIK414EX
V931 Oph	2457608.5530				V	260	Kai	28SC+ST-7XME
V931 Oph	2457613.4005				V	300	Kai	28SC+ST-7XME
V931 Oph	2457616.4299				V	267	Kai	28SC+ST-7XME
V931 Oph	2457623.4026	*1			V	305	Kai	28SC+ST-7XME
V931 Oph	2457625.521				V	318	Kai	28SC+ST-7XME
V931 Oph	2457626.7338	*1			V	309	Kai	28SC+ST-7XME
V931 Oph	2457627.3383				V	301	Kai	28SC+ST-7XME
V2383 Oph	2457542.0951	*17	-0.0034	10869	Ic	67	Nga	10L+CV-04
V2383 Oph	2457545.1079	*17	-0.0039	10875	Ic	109	Nga	10L+CV-04
UW Ori	2457748.1662		+0.3461	37622	Rc	414	Siz	35SC+ST-9E
ER Ori	2457397.9339	*1	+0.1290	37249.5	cG	74	Nga	300mm+EOSKissdigital
ER Ori	2457712.0979	*1	+0.1312	37991.5	Ic	68	Nga	10L+CV-04
V343 Ori	2457729.0111	*1	+0.2811	29821.5	V	105	Ioh	6R+DSI-II

star	min.		O-C	E	color	n	obs.	inst.
V392 Ori	2457702.0903		-0.0046	48834	V	120	Ioh	6R+ATIK414EX
V1363 Ori	2457725.0610	*29	+0.1861	21358	Ic	60	Nga	10L+CV-04
V1363 Ori	2457731.9679	*29	+0.1824	21374	Ic	126	Nga	10L+CV-04
V1638 Ori	2457732.0976	*31	+0.0107	5378	V	92	Nga	20SC+ST-402
V1638 Ori	2457732.1001	*31	+0.0132	5378	B	56	Nga	20SC+ST-402
V1638 Ori	2457732.1016	*31	+0.0147	5378	Ic	87	Nga	20SC+ST-402
V1848 Ori	2457751.920		+0.010	13837	V	117	Nga	20SC+ST-402
V1848 Ori	2457751.9205		+0.0109	13837	Ic	117	Nga	20SC+ST-402
V1848 Ori	2457751.921		+0.011	13837	B	110	Nga	20SC+ST-402
V1848 Ori	2457752.054	*1	+0.011	13837.5	B	110	Nga	20SC+ST-402
V1848 Ori	2457752.0545	*1	+0.0117	13837.5	Ic	117	Nga	20SC+ST-402
V1848 Ori	2457752.0554	*1	+0.0126	13837.5	V	117	Nga	20SC+ST-402
V1851 Ori	2457390.1102	*1	+0.0174	12855.5	V	392	Ioh	30SC+ST-9XE
V1851 Ori	2457390.2485		+0.0172	12856	V	392	Ioh	30SC+ST-9XE
V2735 Ori	2457722.0617		-0.0217	3770	V	116	Ioh	6R+ATIK414EX
V2759 Ori	2457666.221		-0.017	9852	V	35	Ioh	6R+ATIK414EX
V2759 Ori	2457743.046		-0.016	10006	V	61	Ioh	6R+ATIK414EX
BB Peg	2457630.9901	*1	-0.0216	38358.5	Rc	349	Siz	35SC+ST-9E
BB Peg	2457631.1696		-0.0229	38359	Rc	349	Siz	35SC+ST-9E
BX Peg	2457672.560		-0.121	48061	vis	16	Set	
DK Peg	2457632.1361		+0.1545	7416	Rc	278	Siz	35SC+ST-9E
V421 Peg	2457566.2047		-0.0126	909	V	187	Ioh	6R+ATIK414EX
IT Per	2457397.9435		-0.0376	18266	V	244	Ioh	10L+ATIK414EX
KN Per	2457676.1366	*1*22	+0.0384	10589.5	Rc	341	Siz	35SC+ST-9E
KN Per	2457682.2015	*1*22	+0.0380	10596.5	Rc	510	Siz	35SC+ST-9E
V340 Per	2457721.2598		-0.8562	6702	V	644	Kai	28SC+ST-7XME
V680 Per	2457732.9881	*1	-0.1199	16532.5	V	495	Mdy	35SC+ST-10XME
V951 Per	2457746.0179		-0.0383	23314	Rc	152	Ioh	30SC+ST-9XE
V951 Per	2457746.0182		-0.0380	23314	V	151	Ioh	30SC+ST-9XE
V951 Per	2457746.1538	*1	-0.0376	23314.5	V	151	Ioh	30SC+ST-9XE
V951 Per	2457746.1539	*1	-0.0375	23314.5	Rc	152	Ioh	30SC+ST-9XE
UV Psc	2457677.0862	*1	-0.0186	16573.5	B	41	Nga	20SC+ST-402
VZ Psc	2457627.0621		+0.0299	52816	Ic	73	Nga	10L+CV-04
VZ Psc	2457696.9496	*1	+0.0500	53083.5	Ic	58	Nga	28SC+ST-402
VZ Psc	2457696.9503	*1	+0.0507	53083.5	V	58	Nga	28SC+ST-402
VZ Psc	2457696.9543	*1	+0.0547	53083.5	B	48	Nga	28SC+ST-402
AQ Psc	2457682.0860	*24	+0.0388	27583	B	96	Nga	20SC+ST-402
AQ Psc	2457682.0881	*24	+0.0408	27583	V	93	Nga	20SC+ST-402
AQ Psc	2457682.0884	*24	+0.0412	27583	Ic	90	Nga	20SC+ST-402
AQ Psc	2457698.0179	*1*24	+0.0367	27616.5	V	116	Nga	20SC+ST-402
AQ Psc	2457698.0183	*1*24	+0.0371	27616.5	B	116	Nga	20SC+ST-402
AQ Psc	2457698.0194	*1*24	+0.0381	27616.5	Ic	117	Nga	20SC+ST-402
DV Psc	2457725.9497	*1*30	+0.0237	18927.5	V	135	Ioh	30SC+ST-9XE
DV Psc	2457725.9498	*1*30	+0.0238	18927.5	V	134	Ioh	30SC+ST-9XE
Y Sex	2457450.0173	*1	+0.1991	37357.5	Ic	47	Nga	20SC+ST-402
Y Sex	2457450.0193	*1	+0.2011	37357.5	V	48	Nga	20SC+ST-402
Y Sex	2457450.0208	*1	+0.2026	37357.5	B	45	Nga	20SC+ST-402
VY Sex	2457437.0856	*1*9	+0.0298	11133.5	V	83	Ioh	6R+ATIK414EX
VY Sex	2457465.0219	*1*9	+0.0299	11196.5	Ic	81	Nga	10L+CV-04
WZ Sex	2457437.0983		-0.0374	4451	V	39	Nga	20SC+ST-402
WZ Sex	2457437.0985		-0.0372	4451	B	41	Nga	20SC+ST-402
XX Sex	2457422.1003		+0.0301	9456	V	99	Ioh	6R+ATIK414EX
XX Sex	2457743.2010	*1	+0.0354	10050.5	V	103	Ioh	6R+ATIK414EX
AI Sex	2457401.2669		-0.0217	6651	V	236	Kub	16L+BJ41L
AI Sex	2457451.0677	*1	-0.0196	6733.5	V	96	Nga	20SC+ST-402
AI Sex	2457451.0673	*1	-0.0200	6733.5	B	96	Nga	20SC+ST-402

star	min.		O-C	E	color	n	obs.	inst.
AI Sex	2457451.0654	*1	-0.0219	6733.5	Ic	97	Nga	20SC+ST-402
RZ Tau	2457390.0199		+0.0803	47425	V	316	Kub	16L+BJ41L
RZ Tau	2457391.0588	*1	+0.0800	47427.5	V	637	Kub	16L+BJ41L
RZ Tau	2457392.0986		+0.0806	47430	V	346	Kub	16L+BJ41L
CD Tau	2457390.124		+0.003	4591	vis	35	Kit	7B
V1121 Tau	2457697.0573	*25	+0.3568	6785	Ic	106	Nga	10L+CV-04
V1128 Tau	2457725.0510	*1*32	+0.1227	30208.5	Rc	750	Siz	35SC+ST-9E
V1128 Tau	2457725.2043	*32	+0.1233	30209	Rc	750	Siz	35SC+ST-9E
V1130 Tau	2457698.0858	*1*26	-0.0345	11513.5	Ic	112	Nga	10L+CV-04
V1223 Tau	2457398.0596		+0.0252	11480	V	416	Ioh	30SC+ST-9XE
V1370 Tau	2457620.2344		-0.0923	13422	V	132	Ioh	6R+ATIK414EX
V1370 Tau	2457689.0816		-0.1020	13655	V	117	Ioh	6R+ATIK414EX
V Tri	2457666.579		-0.008	56719	vis	19	Set	
W UMa	2457400.243		-0.102	34872	vis	40	Kit	7B
W UMa	2457421.105	*1	-0.092	34934.5	vis	61	Kit	7B
W UMa	2457435.115	*1	-0.095	34976.5	vis	56	Kit	7B
XZ UMa	2457397.1369	*1	-0.1318	9186.5	V	316	Kub	16L+BJ41L
AA UMa	2457423.1395		-0.1791	35799	V	261	Kub	16L+BJ41L
ES UMa	2457414.2043	*1*6	-0.0301	15711.5	V	277	Kub	16L+BJ41L
V342 UMa	2457390.2931	*1	-0.0272	12608.5	V	157	Kub	16L+BJ41L
V342 UMa	2457450.2943		-0.0285	12783	V	458	Kis	25SC+F47
AH Vir	2457539.654	*1	-0.129	28772.5	vis	17	Set	
AW Vir	2457539.643		+0.020	35359	vis	16	Set	
AZ Vir	2457517.641		-0.030	38726	vis	15	Set	
BH Vir	2457498.0753		-0.0132	17466	B	63	Nga	20SC+ST-402
BH Vir	2457498.0753		-0.0132	17466	V	71	Nga	20SC+ST-402
BH Vir	2457498.0754		-0.0131	17466	Ic	75	Nga	20SC+ST-402
BH Vir	2457514.0055	*1	-0.0120	17485.5	Ic	113	Nga	10L+CV-04
CX Vir	2457411.2923		+0.0220	41978	V	211	Ioh	30SC+ST-9XE
CX Vir	2457509.0262		+0.0198	42109	Ic	111	Nga	10L+CV-04
PY Vir	2457484.0534	*1	-0.0520	17777.5	V	79	Ioh	6R+ATIK414EX
BS Vul	2457580.683		-0.025	30063	vis	16	Set	
ASAS005530-1106.6	2457682.033	*23	+0.061	10700	Ic	90	Nga	10L+CV-04
ASAS014643+0928.9	2457676.1018	*1*21	-0.0249	14638.5	B	76	Nga	20SC+ST-402
ASAS014643+0928.9	2457676.1022	*1*21	-0.0245	14638.5	Ic	77	Nga	20SC+ST-402
ASAS014643+0928.9	2457676.1026	*1*21	-0.0241	14638.5	V	76	Nga	20SC+ST-402
ASAS015937-0331.0	2457709.9776	*27	-0.0158	9193	Ic	111	Nga	10L+CV-04
ASAS062548-0050.2	2457733.012	*1*33	+0.016	13453.5	Ic	55	Nga	10L+CV-04
ASAS081103-0752.0	2457434.9780	*8	+0.0292	5720	Ic	94	Nga	10L+CV-04
ASAS093547-1335.2	2457423.094	*7	+0.038	15820	Ic	45	Nga	10L+CV-04
ASAS130543+2111.5	2457402.2635	*1*4	+0.0290	8553.5	V	216	Kub	16L+BJ41L
ASAS130611+2056.3	2457402.2726	*1*3	+0.0017	12795.5	V	220	Kub	16L+BJ41L
ASAS162218-0623.0	2457508.1063	*1*10	+0.0109	16401.5	Ic	69	Nga	10L+CV-04
ASAS223707+0252.5	2457633.0095	*18	-0.0309	9629	Ic	119	Nga	10L+CV-04
ASAS223540+0252.9	2457633.0768	*1*19	+0.0738	16266.5	Ic	130	Nga	10L+CV-04

Hsk / Hirosawa Kenji  
 Ioh / Itoh Hiroshi  
 Kai / Kasai Kiyoshi  
 Kis / Kiyota Seiichiro  
 Kit / Kanai Kiyotaka  
 Kub / Kubotera Katsuaki  
 Mdy / Maeda Yutaka  
 Nga / Nagai Kazuo  
 Sae / Saito Keiko  
 Set / Chris Stephan  
 Siz / Shiokawa Kazuhiko

Remarks

1 secondary minimum  
 2 min=2452334.75+4.0385xE (LACY,C.H.S., 2002, IBVS5357)  
 3 min=2452654.04+0.371086xE (ASAS-3 catalogue)  
 4 min=2452653.93+0.55513xE (ASAS-3 catalogue)  
 5 min=2447587.3599+0.559355xE (IBVS 3360)  
 6 min=2449104.3592+0.528904xE (IBVS 3914)  
 7 min=2451869.05+0.351075xE (ASAS-3 catalogue)  
 8 min=2451869.16+0.97304xE (ASAS-3 catalogue)  
 9 min=2452500.1065+0.44343192xE (Gazeas,K.D. et. al., 2006AcA,56,127G)  
 10 min=2451937.90+0.339615xE (ASAS-3 catalogue)  
 11 min=2448500.296+0.376565xE (Hipparcos catalogue)  
 12 min=2451746.5126+0.2942801xE (IBVS 4975)  
 13 min=2451304.736+0.64244199xE (ROTSE1 catalogue)  
 14 min=2451304.8686+0.53778xE (IBVS 5060)  
 15 min=2451285.7006+0.51024xE (IBVS 5060)  
 16 min=2451288.851+0.870539xE (IBVS 5894)  
 17 min=2452083.64+0.5022043xE (IBVS 5480)  
 18 min=2451872.78+0.598220xE (ASAS-3 catalogue)  
 19 min=2451872.71+0.354120xE (ASAS-3 catalogue)  
 20 min=2451868.898+0.256486xE (ASAS-3 catalogue)  
 21 min=2451900.77+0.394532xE (ASAS-3 catalogue)  
 22 min=2448500.6671+0.866465xE (BAV Rbf. 52, 93ff)  
 23 min=2451869.09+ 0.54326xE (ASAS-3 catalogue)  
 24 min=2444562.4691+0.475640xE (IBVS 5463)  
 25 min=2452104.30+0.82423xE (ASAS-3 catalogue)  
 26 min=2448500.319+0.798871xE (Hipparcos catalogue)  
 27 min=2451904.43+0.63152xE (ASAS-3 catalogue)  
 28 min=2448500.251+0.440794xE (Hipparcos catalogue)  
 29 min=2448500.0343+0.431915xE (Hipparcos catalogue)  
 30 min=2451886.073+0.308538xE (ASAS-3 catalogue)  
 31 min=2454429.726+0.614050xE (IBVS 6011)  
 32 min=2448500.062+0.3053732xE (Hipparcos catalogue)  
 33 min=2451869.14+0.435861xE (ASAS-3 catalogue)  
 34 min=2452500.31+6.13398xE (J.M. Kreiner, 2004, AA 54)

cG magnitude means G plane of DSLR camera.



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