

Variable Star Bulletin

Visual, CCD and DSLR minima of eclipsing binaries during 2017

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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	2458006.623	+0.077	10470	vis	12	Set	
AB And	2458043.628	-0.011	16703	vis	18	Set	
DS And	2458027.2145	+0.0038	5469	Rc	513	Siz	35SC+ST-9E
V404 And	2458052.9236	*1 +0.0108	8213.5	Rc	309	Siz	35SC+ST-9E
V449 And	2458062.1473	*1 +0.0556	19765.5	V	443	Ioh	20SC+ATIK414EX
V449 And	2458062.3145	+0.0535	19766	V	443	Ioh	20SC+ATIK414EX
V483 And	2458082.9821	+0.1474	22167	V	133	Ioh	30SC+ST-9XE
V546 And	2458036.1746	*1 -0.1680	17128.5	V	330	Ioh	20SC+ST-9XE
OO Aql	2458013.657	-0.004	5845	vis	20	Set	
OO Aql	2458027.605	*1 +0.007	5872.5	vis	20	Set	
V337 Aql	2457942.0662	*1 -0.0511	2123.5	Ic	55	Nga	20SC+ST-402
V1331 Aql	2457949.0563	+0.0004	1609	cG	92	Nga	f=105mm+EOSKissdigital
V1687 Aql	2457843.2702	*1 +0.0127	9150.5	V	99	Ioh	12.7SC+ATIK414EX
CX Aqr	2458014.9969	*1 -0.0133	9918.5	Ic	95	Nga	10L+ST-402
CX Aqr	2458014.9973	*1 -0.0129	9918.5	V	94	Nga	10L+ST-402
CX Aqr	2458067.539	-0.012	10013	vis	15	Set	
EK Aqr	2458021.977	+0.034	7704	Ic	15	Nga	15L+ST-402
SZ Ari	2458069.2128	*1 -0.0055	3242.5	Rc	474	Siz	35SC+ST-9E
AK Aur	2457755.3038	-0.8362	1298	V	332	Kai	28SC+ST-7XME
HP Aur	2458082.9584	+0.0017	8244	Rc	395	Siz	35SC+ST-9E
HU Aur	2458067.2357	*1 -0.0009	3953.5	Rc	518	Siz	35SC+ST-9E
KO Aur	2457760.3059	-0.0013	748	V	672	Kai	28SC+ST-7XME
V437 Aur	2458113.1267			V	104	Suz	25SC+ATIKONE6.0
V437 Aur	2458113.1395			B	116	Suz	25SC+ATIKONE6.0
V599 Aur	2457789.0430	-0.0085	12961	V	362	Ioh	20SC+ATIK414EX
V636 Aur	2457790.9728	*1 -0.0054	12933.5	V	438	Ioh	20SC+ATIK414EX
V636 Aur	2457791.1455	-0.0030	12934	V	438	Ioh	20SC+ATIK414EX
V640 Aur	2457790.9724	+0.0112	13737	V	277	Ioh	30SC+ST-9XE
ZZ Boo	2457824.1445	+0.0036	1066	cG	120	Mhh	f=50mm+RICH0.GXR.A12
PU Boo	2457778.2497	-0.0227	13235	V	72	Ioh	6R+ATIK414EX
GR Boo	2457819.1358	-0.0194	14121	V	94	Ioh	12.7SC+ATIK414EX

star	min.		O-C	E	color	n	obs.	inst.
GK Boo	2457823.2913		-0.0021	5994	V	521	Mdy	35SC+ST-10XME
GW Boo	2457859.0953	*1	+0.1958	9538.5	Rc	172	Siz	35SC+ST-9E
WW Cam	2458101.0977		-0.0006	2706	Rc	436	Siz	35SC+ST-9E
AT Cam	2458063.2393	*1	-0.0016	3984.5	Rc	520	Siz	35SC+ST-9E
RZ Cas	2458046.556		+0.017	1269	vis	27	Set	
RZ Cas	2458062.0867		+0.0098	1282	cG	120	Mhh	f=50mm+RICHO.GXR.A12
MX Cas	2458079.5043				V	283	Kai	28SC+ST-7XME
V443 Cas	2458053.3682				V	168	Kai	28SC+ST-7XME
V464 Cas	2458100.4967	*1*31	+0.0059	10794.5	V	120	Kai	28SC+ST-7XME
V1139 Cas	2458062.923	*1	+0.000	20853.5	V	417	Ioh	30SC+ST-9XE
V1139 Cas	2458063.0686		+0.0028	20854	V	417	Ioh	30SC+ST-9XE
V1139 Cas	2458063.2184	*1	+0.0016	20854.5	V	417	Ioh	30SC+ST-9XE
CM Cap	2457921.1028		+0.0130	4285	V	142	Ioh	12.7SC+ATIK414EX
TT Cet	2458077.9034		-0.0811	52540	V	62	Nga	15L+ST-402
TT Cet	2458077.9041		-0.0804	52540	Ic	67	Nga	15L+ST-402
VY Cet	2458078.9213		+0.0285	66459	V	71	Nga	15L+ST-402
VY Cet	2458078.9216		+0.0288	66459	B	71	Nga	15L+ST-402
VY Cet	2458078.9220		+0.0292	66459	B	71	Nga	15L+ST-402
WZ Cet	2458049.9745		-1.9609	4777	V	74	Nga	20SC+ST-402
WZ Cet	2458049.9774		-1.9580	4777	B	62	Nga	20SC+ST-402
WZ Cet	2458049.9788		-1.9566	4777	Ic	61	Nga	20SC+ST-402
YY Cet	2458085.9639	*1	-0.4564	27520.5	V	64	Nga	15L+ST-402
YY Cet	2458085.9650	*1	-0.4553	27520.5	Ic	66	Nga	15L+ST-402
YY Cet	2458085.9657	*1	-0.4546	27520.5	B	63	Nga	15L+ST-402
CT Cet	2458081.9278	*1*29	+0.0412	24223.5	Ic	55	Nga	15L+ST-402
CT Cet	2458081.9279	*1*29	+0.0413	24223.5	B	54	Nga	15L+ST-402
CT Cet	2458081.9283	*1*29	+0.0417	24223.5	V	53	Nga	15L+ST-402
CX Cet	2458053.072	*1			V	67	Nga	20SC+ST-402
CX Cet	2458053.075	*1			Ic	69	Nga	20SC+ST-402
DY Cet	2458038.0849		-0.0667	21638	V	255	Ioh	12.7SC+ATIK414EX
IK Cet	2458076.9842		+0.0017	12295	B	77	Nga	15L+ST-402
IK Cet	2458076.9849		+0.0024	12295	Ic	77	Nga	15L+ST-402
R CMa	2457788.9997		+0.0109	1920	cG	100	Mhh	f=50mm+RICHO.GXR.A12
R CMa	2457798.0869		+0.0105	1928	cG	261	Mhh	f=50mm+RICHO.GXR.A12
SX CMa	2457790.947		+0.005	1324.5	Ic	63	Nga	10L+CV-04
IQ CMa	2457776.9495		-0.0009	1534	Ic	117	Nga	10L+CV-04
AM CMi	2457786.9788	*1	+0.0055	3486.5	Ic	120	Nga	10L+CV-04
CW CMi	2457784.0349		+0.1280	7101	Ic	115	Nga	10L+CV-04
CZ CMi	2458079.1106		+0.0174	9253	V	89	Ioh	12.7SC+ATIK414EX
TX Cnc	2458070.2189		-0.0018	4640	V	150	Ioh	12.7SC+ATIK414EX
XZ Cnc	2457759.1478		+0.0139	6485	Rc	383	Siz	35SC+ST-9E
HN Cnc	2458078.154		-0.011	4315	V	96	Ioh	12.7SC+ATIK414EX
IU Cnc	2457820.2016	*1	-0.0299	14679.5	V	364	Ioh	20SC+ATIK414EX
MU Cnc	2457788.2161	*1	-0.0357	14644.5	V	410	Ioh	20SC+ATIK414EX
MU Cnc	2457788.3610		-0.0363	14645	V	410	Ioh	20SC+ATIK414EX
RW Com	2457817.0691	*1	+0.0073	74973.5	Rc	414	Siz	35SC+ST-9E
RW Com	2457817.1951		+0.0073	74974	Rc	414	Siz	35SC+ST-9E
RW Com	2457817.3136	*1	+0.0071	74974.5	Rc	414	Siz	35SC+ST-9E
LR Com	2457830.1564	*13	+0.0094	5946	Rc	473	Siz	35SC+ST-9E
AR CrB	2457771.2734	*1	-0.0063	13604.5	V	89	Ioh	6R+ATIK414EX
AS CrB	2457879.3536	*1	+0.0418	14369.5	V	85	Kai	28SC+ST7XME
AS CrB	2457883.348		+0.039	14380	V	96	Kai	28SC+ST7XME
AV CrB	2457806.1895		-0.0557	17670	V	130	Ioh	12.7SC+ATIK414EX
VZ CVn	2457798.0545		-0.0018	22455	V	232	Ioh	6R+ATIK414EX
BI CVn	2457824.0795		+0.1684	35034	Rc	485	Siz	35SC+ST-9E
BI CVn	2457824.2725	*1	+0.1693	35034.5	Rc	485	Siz	35SC+ST-9E

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V2552 Cyg	2457993.0295	*1	-0.0282	23497.5	V	456	Ioh	20SC+ATIK414EX
FZ Del	2458043.602		-0.025	34115	vis	17	Set	
YY Eri	2457788.946		+0.159	50412	cG	12	Kun	f=100mm+NikonD7100
YY Eri	2458099.0312	*1	-0.1585	51377.5	Ic	105	Nga	15L+ATIK-490EX
YY Eri	2458099.0315	*1	-0.1582	51377.5	B	103	Nga	15L+ATIK-490EX
YY Eri	2458099.0321	*1	-0.1576	51377.5	V	80	Nga	15L+ATIK-490EX
BQ Eri	2457756.9682	*1	-0.3284	18605.5	Ic	90	Nga	10L+CV-04
BQ Eri	2457763.9432		+0.2129	18610	Ic	109	Nga	10L+CV-04
BQ Eri	2458077.1164		+0.2792	18829	B	62	Nga	15L+ST-402
BQ Eri	2458077.1173		+0.2801	18829	Ic	63	Nga	15L+ST-402
BQ Eri	2458077.1191		+0.2819	18829	V	64	Nga	15L+ST-402
BU Eri	2457755.912	*1*2	-0.145	9094.5	Ic	84	Nga	10L+CV-04
BV Eri	2458115.9159		-0.2334	28890	U	78	Nga	15L+ATIK-490EX
BV Eri	2458115.9159		-0.2334	28890	B	78	Nga	15L+ATIK-490EX
BV Eri	2458115.9160		-0.2333	28890	V	76	Nga	15L+ATIK-490EX
BV Eri	2458115.9170		-0.2323	28890	Ic	79	Nga	15L+ATIK-490EX
CD Eri	2458094.0231		+0.1519	9797	V	160	Nga	15L+ST-402
CD Eri	2458094.0233		+0.1521	9797	Ic	160	Nga	15L+ST-402
CD Eri	2458094.0240		+0.1528	9797	B	159	Nga	15L+ST-402
WW Gem	2457760.1348		+0.0316	25671	Rc	474	Siz	35SC+ST-9E
AF Gem	2458111.1751	*1	-0.0708	24888.5	Rc	437	Siz	35SC+ST-9E
KO Gem	2457779.9292				Ic	206	Kis	25SC+F47
KO Gem	2457797.0915				V	320	Kis	25SC+F47
KO Gem	2457811.3902				V	350	Kai	28SC+ST-7XME
OQ Gem	2457774.5050				C	243	Kai	28SC+ST-7XME
OQ Gem	2457803.3729				V	356	Kai	28SC+ST-7XME
V390 Gem	2457780.1313		-0.0615	2237	Rc	277	Siz	35SC+ST-9E
V415 Gem	2457803.9283	*1	+0.0037	12613.5	V	333	Ioh	30SC+ST-9XE
V415 Gem	2457804.1035		+0.0036	12614	V	333	Ioh	30SC+ST-9XE
V416 Gem	2457788.9754		+0.1268	17374	V	279	Ioh	30SC+ST-9XE
V416 Gem	2457789.1049	*1	+0.1282	17374.5	V	279	Ioh	30SC+ST-9XE
V417 Gem	2457796.987		-0.079	12177	V	494	Ioh	20SC+ATIK414EX
V417 Gem	2457797.1493	*1	-0.1132	12177	V	494	Ioh	20SC+ATIK414EX
V728 Her	2457777.2970		+0.1393	36315	V	85	Ioh	6R+ATIK414EX
V1355 Her	2457903.0321		-0.0227	17886	V	201	Ioh	12.7SC+ATIK414EX
EU Hya	2457799.0114	*1	-0.0371	30419.5	Ic	108	Nga	10L+CV-04
EZ Hya	2457771.1215	*1	-0.0972	34055.5	Ic	99	Nga	10L+CV-04
HU Hya	2457763.0712		-0.1687	12177	Ic	112	Nga	10L+CV-04
LO Hya	2457799.0245	*9	+0.0152	5271	cG	227	Mhh	f=50mm+RICHO.GXR.A12
OZ Hya	2457788.1224	*7	+0.2753	4533	Ic	65	Nga	10L+CV-04
V519 Hya	2457824.0971		+0.0507	10058.5	V	543	Mdy	35SC+ST-10XME
V572 Hya	2457770.126	*1	-0.006	14416.5	Ic	119	Nga	10L+CV-04
V572 Hya	2457800.0083		-0.0061	14525	Ic	75	Nga	10L+CV-04
chi2 Hya	2457813.1457		-0.0239	6599	cG	325	Mhh	f=50mm+RICHO.GXR.A12
SW Lac	2458013.664		-0.076	39718	vis	20	Set	
SW Lac	2458027.613	*1	-0.079	39761.5	vis	20	Set	
SW Lac	2458067.549		-0.073	39886	vis	15	Set	
GT Lac	2458038.3050				V	78	Kai	28SC+ST-7XME
GT Lac	2458039.5607	*1			V	135	Kai	28SC+ST-7XME
GT Lac	2458040.3970	*1			V	141	Kai	28SC+ST-7XME
GT Lac	2458042.4894				V	139	Kai	28SC+ST-7XME
GT Lac	2458043.3280				V	137	Kai	28SC+ST-7XME
V505 Lac	2457909.1932	*1	+0.0648	12059.5	V	110	Ioh	12.7SC+ATIK414EX
RT Leo	2457799.0345		-0.0060	4559	Rc	505	Siz	35SC+ST-9E
AG Leo	2457788.1632		+0.1816	9178	Rc	546	Siz	35SC+ST-9E
AL Leo	2458074.2365		+0.8681	7711	V	123	Ioh	12.7SC+ATIK414EX

star	min.		O-C	E	color	n	obs.	inst.
EX Leo	2457799.024	*10	+0.006	22758	V	168	Ioh	6R+ATIK414EX
FM Leo	2457781.1440	*1*5	-3.3580	785.5	Ic	131	Nga	10L+CV-04
FS Leo	2458101.2203	*32	-0.0914	21010	V	166	Ioh	12.7SC+ATIK414EX
GU Leo	2457771.0797	*1	+0.1446	15210.5	V	86	Ioh	6R+ATIK414EX
GU Leo	2458086.2143	*1	+0.1516	16100.5	V	154	Ioh	12.7SC+ATIK414EX
GV Leo	2457800.0440		-0.0909	18917	Rc	477	Siz	35SC+ST-9E
GV Leo	2457800.1780	*1	-0.0902	18917.5	Rc	477	Siz	35SC+ST-9E
GV Leo	2457800.3107		-0.0909	18918	Rc	477	Siz	35SC+ST-9E
HI Leo	2457806.0385	*1	+0.0138	23279.5	V	140	Ioh	12.7SC+ATIK414EX
HS Leo	2457789.2375		+0.1158	19255	V	147	Ioh	20SC+ATIK414EX
RR Lep	2457758.9434	*1	-0.0432	29911.5	Ic	78	Nga	20SC+ST-402
RR Lep	2457758.9522	*1	-0.0344	29911.5	V	80	Nga	20SC+ST-402
RR Lep	2457758.9563	*1	-0.0303	29911.5	B	77	Nga	20SC+ST-402
RR Lep	2458093.0740	*1	-0.0438	30276.5	B	147	Nga	15L+ST-402
RR Lep	2458093.0742	*1	-0.0436	30276.5	V	147	Nga	15L+ST-402
RR Lep	2458093.0753	*1	-0.0425	30276.5	Ic	148	Nga	15L+ST-402
AL Lep	2458059.2872		+0.0425	13798	V	153	Suz	25SC+ATIKONE6.0
AL Lep	2458059.2898		+0.0451	13798	B	153	Suz	25SC+ATIKONE6.0
AL Lep	2458082.1688		+0.0434	13849	V	157	Suz	25SC+ATIKONE6.0
AL Lep	2458082.1695		+0.0441	13849	B	157	Suz	25SC+ATIKONE6.0
AL Lep	2458109.0898		+0.0460	13909	B	144	Suz	25SC+ATIKONE6.0
AL Lep	2458109.0903		+0.0465	13909	V	157	Suz	25SC+ATIKONE6.0
AL Lep	2458111.1079	*1	+0.0453	13913.5	V	113	Suz	25SC+ATIKONE6.0
AL Lep	2458111.1139	*1	+0.0513	13913.5	B	110	Suz	25SC+ATIKONE6.0
SS Lib	2457786.2848		+0.1745	11565	V	74	Ioh	6R+ATIK414EX
VW LMi	2457800.0293	*11	+0.0830	19474	V	119	Ioh	6R+ATIK414EX
XY LMi	2457789.0847		-0.0374	12411	Rc	449	Siz	35SC+ST-9E
AG LMi	2457798.0520		+0.0069	9229	Rc	429	Siz	35SC+ST-9E
SW Lyn	2457779.0332		+0.0764	21432	Rc	495	Siz	35SC+ST-9E
FP Lyn	2457790.1618	*1	+0.0198	13211.5	V	500	Ioh	20SC+ATIK414EX
FP Lyn	2457790.3491		+0.0275	13212	V	500	Ioh	20SC+ATIK414EX
EP Mon	2457779.957	*1	+0.014	21680.5	Ic	33	Nga	10L+CV-04
V753 Mon	2457756.0851	*3	-0.0731	13671	Ic	125	Nga	10L+CV-04
V864 Mon	2457776.038		-0.013	11898	Ic	101	Nga	10L+CV-04
V877 Mon	2458066.3116		-0.0383	1869	B	150	Suz	25SC+ATIKONE6.0
V877 Mon	2458066.3121		-0.0378	1869	V	151	Suz	25SC+ATIKONE6.0
V877 Mon	2458069.2564		-0.0398	1870	B	196	Suz	25SC+ATIKONE6.0
V877 Mon	2458069.2578		-0.0384	1870	V	93	Suz	25SC+ATIKONE6.0
V882 Mon	2458110.2379		+0.0237	1882	V	276	Suz	25SC+ATIKONE6.0
V882 Mon	2458110.2382		+0.0240	1882	B	269	Suz	25SC+ATIKONE6.0
V888 Mon	2458110.1262		-0.0259	2446	Ic	448	Kis	f=85mm+QSI532
V888 Mon	2458115.2291		-0.0222	2448	V	208	Suz	25SC+ATIKONE6.0
V888 Mon	2458115.2332		-0.0181	2448	B	177	Suz	25SC+ATIKONE6.0
V888 Mon	2458115.2404		-0.0109	2448	Ic	222	Kis	f=85mm+QSI532
SW Oph	2457896.060	*1	+0.361	6872.5	Ic	45	Nga	10L+ST-402
WZ Oph	2457907.1211	*1	+0.0024	5320.5	V	113	Nga	20SC+ST-402
WZ Oph	2457907.1218	*1	+0.0031	5320.5	B	112	Nga	20SC+ST-402
WZ Oph	2457907.1223	*1	+0.0036	5320.5	Ic	113	Nga	20SC+ST-402
V566 Oph	2457946.0372	*1	-0.1654	39327.5	cG	64	Nga	f=105mm+EOSKissdigital
V839 Oph	2457919.9850	*1	-0.0945	42718.5	V	78	Nga	20SC+ST-402
V839 Oph	2457919.9850	*1	-0.0945	42718.5	Ic	78	Nga	20SC+ST-402
V839 Oph	2457919.9864	*1	-0.0931	42718.5	B	78	Nga	20SC+ST-402
V917 Mon	2458114.1825		-0.0584	1335	V	268	Suz	25SC+ATIKONE6.0
V917 Mon	2458114.1854		-0.0555	1335	B	274	Suz	25SC+ATIKONE6.0
V931 Oph	2457980.3511	*1			V	242	Kai	28SC+ST7XME
V2203 Oph	2457840.1742	*1*15	-0.0527	33027.5	V	192	Ioh	12.7SC+ATIK414EX

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V2383 Oph	2457924.020	*1*22	-0.005	11629.5	V	62	Nga	20SC+ST-402
V2383 Oph	2457924.0209	*1*22	-0.0040	11629.5	Ic	69	Nga	20SC+ST-402
V2425 Oph	2457857.1576	*17	-0.2028	4306	V	141	Ioh	12.7SC+ATIK414EX
ER Ori	2457836.574	*1	+0.128	38285.5	vis	16	Set	
ER Ori	2458114.9686	*1	-0.0737	38943.5	V	138	Nga	15L+ATIK-490EX
ER Ori	2458114.9689	*1	-0.0734	38943.5	Ic	138	Nga	15L+ATIK-490EX
ER Ori	2458114.9692	*1	-0.0731	38943.5	B	138	Nga	15L+ATIK-490EX
FZ Ori	2457766.9618	*1	-0.0361	34357.5	B	101	Nga	20SC+ST-402
FZ Ori	2457766.9621	*1	-0.0358	34357.5	V	102	Nga	20SC+ST-402
FZ Ori	2457766.9630	*1	-0.0361	34357.5	Ic	102	Nga	20SC+ST-402
V392 Ori	2458058.1038		-0.0044	49374	V	99	Ioh	12.7SC+ATIK414EX
V1031 Ori	2457755.0373		-0.6527	4424	cG	101	Nga	f=105mm+EOSKissdigitalN
V1031 Ori	2457766.9888	*1	-0.6212	4427.5	cG	82	Nga	f=105mm+EOSKissdigitalN
V1638 Ori	2457756.0504	*4	+0.0156	5417	Ic	64	Nga	20SC+ST-402
V1638 Ori	2457756.0559	*4	+0.0211	5417	B	63	Nga	20SC+ST-402
V1638 Ori	2457756.0626	*4	+0.0278	5417	V	59	Nga	20SC+ST-402
V1638 Ori	2458114.0346	*4	+0.0086	6000	V	108	Nga	15L+ATIK-490EX
V1638 Ori	2458114.0382	*4	+0.0122	6000	B	103	Nga	15L+ATIK-490EX
V1638 Ori	2458114.0409	*4	+0.0149	6000	U	106	Nga	15L+ATIK-490EX
V1638 Ori	2458114.0417	*4	+0.0157	6000	Ic	108	Nga	15L+ATIK-490EX
V2759 Ori	2458069.2976		-0.0177	10660	V	203	Ioh	20SC+ATIK414EX
PU Peg	2457914.177	*21	-0.025	10921	V	249	Ioh	12.7SC+ATIK414EX
V365 Peg	2457903.226	*20	+0.077	7649	V	149	Ioh	12.7SC+ATIK414EX
V481 Peg	2457919.1849		+0.0049	10873	V	149	Ioh	12.7SC+ATIK414EX
V481 Peg	2458069.0034		+0.0053	11228	B	162	Suz	25SC+ATIKONE6.0
V481 Peg	2458069.0035		+0.0054	11228	V	165	Suz	25SC+ATIKONE6.0
V481 Peg	2458077.018		+0.001	11247	B	127	Suz	25SC+ATIKONE6.0
V560 Peg	2458069.1348		+0.1103	10999	V	400	Ioh	20SC+ATIK414EX
RT Per	2458037.2378	*1	+0.1153	29033.5	V	321	Mdy	35SC+ST-10XME
IU Per	2458057.1635		+0.0090	14522	Rc	524	Siz	35SC+ST-9E
IU Per	2458058.0206		+0.0091	14523	Rc	360	Siz	35SC+ST-9E
V340 Per	2457780.258	*1	-0.867	6715.5	V	182	Kai	28SC+ST7XME
V340 Per	2457804.3024		-0.8630	6721	V	133	Kai	28SC+ST7XME
V680 Per	2458037.2260	*1	+0.0736	17345.5	V	224	Ioh	20SC+ST-9XE
V732 Per	2458062.2038		-0.2035	1466	Rc	469	Siz	35SC+ST-9E
V873 Per	2458068.1195		-0.0231	22710	V	337	Ioh	20SC+ATIK414EX
V873 Per	2458068.2665	*1	-0.0235	22710.5	V	337	Ioh	20SC+ATIK414EX
V951 Per	2458062.2042		-0.0431	24484	V	244	Ioh	30SC+ST-9XE
V951 Per	2458062.3395	*1	-0.0431	24484	V	244	Ioh	30SC+ST-9XE
V959 Per	2458064.2459		+0.0274	6521	Rc	526	Siz	35SC+ST-9E
beta Per	2458077.130		+0.118	4337	vis	32	Kit	ne
beta Per	2458100.0812		+0.1305	4345	V	403	Kis	f=85mm+QSI532
beta Per	2458097.191		+0.108	4344	vis	25	Kit	ne
beta Per	2458100.073		+0.122	4345	vis	36	Kit	ne
VZ Psc	2458023.000	*1	-0.122	54332.5	B	63	Nga	15L+ST-402
VZ Psc	2458023.0016	*1	-0.1199	54332.5	V	59	Nga	15L+ST-402
VZ Psc	2458023.0018	*1	-0.1197	54332.5	B	58	Nga	15L+ST-402
VZ Psc	2458026.9202	*1	-0.1191	54347.5	C	206	Nga	15L+ST-402
VZ Psc	2458027.0464		-0.1235	54348	C	206	Nga	15L+ST-402
DV Psc	2458009.0319	*26	+0.0223	19845	V	62	Ioh	12.7SC+ATIK414EX
DV Psc	2458036.0291	*1*26	+0.0224	19932.5	V	456	Ioh	20SC+ATIK414EX
DV Psc	2458036.1839	*26	+0.0230	19933	V	456	Ioh	20SC+ATIK414EX
DV Psc	2458063.0265	*26	+0.0227	20020	V	330	Ioh	20SC+ATIK414EX
DV Psc	2458063.173	*26	+0.015	20020.5	V	330	Ioh	20SC+ATIK414EX
ET Psc	2458059.0839		-0.0066	12364	B	231	Suz	25SC+ATIKONE6.0
ET Psc	2458059.0853		-0.0052	12364	V	213	Suz	25SC+ATIKONE6.0

star	min.		O-C	E	color	n	obs.	inst.
ET Psc	2458066.1132		-0.0060	12380	B	140	Suz	25SC+ATIKONE6.0
ET Psc	2458066.1128		-0.0064	12380	V	140	Suz	25SC+ATIKONE6.0
ET Psc	2458073.1398		-0.0082	12396	B	205	Suz	25SC+ATIKONE6.0
ET Psc	2458073.1414		-0.0066	12396	V	206	Suz	25SC+ATIKONE6.0
ET Psc	2458079.0716	*1	-0.0069	12409.5	V	234	Suz	25SC+ATIKONE6.0
ET Psc	2458079.0738	*1	-0.0047	12409.5	B	234	Suz	25SC+ATIKONE6.0
GX Psc	2458034.1439	*1	+0.0407	15079.5	V	257	Ioh	20SC+ATIK414EX
PV Pup	2457769.0098		-0.0053	8821	Ic	475	Nga	10L+CV-04
Y Sex	2457777.047	*1	+0.187	38136.5	V	74	Ioh	6R+ATIK414EX
Y Sex	2457778.1041		+0.1943	38139	V	82	Ioh	6R+ATIK414EX
Y Sex	2457810.0113		+0.1950	38215	Ic	116	Nga	10L+CV-04
WZ Sex	2457786.0847	*1	-0.0475	4780.5	Ic	126	Nga	10L+CV-04
XX Sex	2457776.150	*1	+0.038	10111.5	Ic	116	Nga	10L+CV-04
XX Sex	2457816.096	*1	+0.016	10185.5	V	60	Nga	20SC+ST-402
TY Tau	2457757.0334		+0.2701	33939	Rc	398	Siz	35SC+ST-9E
TY Tau	2458085.0900	*1	+0.2719	34243.5	Rc	250	Siz	35SC+ST-9E
AH Tau	2457756.0667		-0.1492	80239.5	Rc	367	Siz	35SC+ST-9E
CF Tau	2458079.0954	*1	-0.1298	9952.5	Rc	596	Siz	35SC+ST-9E
CT Tau	2457757.9919		-0.0652	18526	Rc	465	Siz	35SC+ST-9E
EQ Tau	2458067.0082	*1	-0.0370	52303.5	V	145	Ioh	12.7SC+ATIK414EX
GR Tau	2458094.0636		-0.0539	31455	Rc	440	Siz	35SC+ST-9E
V1123 Tau	2458017.1532	*1*27	+0.0194	23794.5	V	73	Ioh	12.7SC+ATIK414EX
V1128 Tau	2458078.9756	*28	-0.0329	31368	V	125	Ioh	12.7SC+ATIK414EX
V1234 Tau	2458074.0322	*1	+0.0084	14865.5	V	105	Ioh	12.7SC+ATIK414EX
V1238 Tau	2458078.1635		+0.0401	4546	B	305	Suz	25SC+ATIKONE6.0
V1238 Tau	2458078.1662		+0.0428	4546	V	305	Suz	25SC+ATIKONE6.0
V1241 Tau	2458082.0229	*1	+0.0070	37108.5	C	60	Nga	20SC+ST-6
TX UMa	2457873.1734		+0.2358	4203	cG	133	Mhh	f=50mm+RICHO.GXR.A12
VV UMa	2457796.9871		-0.0702	17431	Rc	638	Siz	35SC+ST-9E
VV UMa	2457797.3306	*1	-0.0704	17431.5	Rc	638	Siz	35SC+ST-9E
BH UMa	2457797.2383	*1	+0.0794	18182.5	V	242	Mdy	35SC+ST-10XME
KM UMa	2457806.0837	*1*12	-0.0283	18716.5	Rc	510	Siz	35SC+ST-9E
KM UMa	2457806.2514	*12	-0.0366	18717	Rc	510	Siz	35SC+ST-9E
QT UMa	2457796.1952		+0.2242	13161	V	511	Ioh	20SC+ATIK414EX
V342 UMa	2457797.072	*1	-0.028	13791.5	V	73	Mdy	35SC+ST-10XME
V342 UMa	2457797.243		-0.028	13792	V	73	Mdy	35SC+ST-10XME
V342 UMa	2457817.1834		-0.0316	13850	V	404	Ioh	20SC+ATIK414EX
V343 UMa	2457797.2248	*1	-0.0174	7834.5	V	209	Mdy	35SC+ST-10XME
BF Vir	2457863.0580		+0.1209	18409	B	108	Nga	20SC+ST-402
BF Vir	2457863.0581		+0.1210	18409	V	108	Nga	20SC+ST-402
BF Vir	2457863.0586		+0.1215	18409	Ic	108	Nga	20SC+ST-402
CX Vir	2457872.001	*1	+0.028	42595.5	Ic	40	Nga	15L+ST-402
GR Vir	2457874.0551		-0.0004	30393	B	60	Nga	15L+ST-402
GR Vir	2457874.0555		+0.0000	30393	V	61	Nga	15L+ST-402
GR Vir	2457874.0559		+0.0004	30393	Ic	62	Nga	15L+ST-402
HW Vir	2457856.9544	*1*16	-0.0080	103893.5	V	86	Nga	15L+ST-402
HW Vir	2457856.9558	*1*16	-0.0066	103893.5	Ic	86	Nga	15L+ST-402
HW Vir	2457857.0138	*16	-0.0070	103894	Ic	86	Nga	15L+ST-402
HW Vir	2457857.0142	*16	-0.0066	103894	V	86	Nga	15L+ST-402
HW Vir	2457857.072	*1*16	-0.007	103894.5	V	149	HMI	60SC+STL-1001E
HW Vir	2457857.1306	*16	-0.0069	103895	V	149	HMI	60SC+STL-1001E
HW Vir	2457857.948	*16	-0.007	103902	V	53	Nga	15L+ST-402
HW Vir	2457858.9401	*1*16	-0.0065	103910.5	Ic	51	Nga	15L+ST-402
HW Vir	2457858.9982	*16	-0.0068	103911	V	50	Nga	15L+ST-402
HW Vir	2457858.9983	*16	-0.0067	103911	Ic	51	Nga	15L+ST-402
HW Vir	2457858.9985	*16	-0.0065	103911	B	50	Nga	15L+ST-402

star	min.		O-C	E	color	n	obs.	inst.
IK Vir	2457842.0518	*14	-0.1918	8037	Ic	203	Nga	15L+ST-402
MS Vir	2457800.2166	*24	-0.0684	29766	V	130	Ioh	6R+ATIK414EX
NSV16793	2457781.910	*1*6	-0.032	6741.5	Ic	76	Nga	10L+CV-04
KIC9832227	2457894.1749	*1*23	-0.0958	4816.5	V	187	Kis	25SC+F47
KIC9832227	2457895.0932	*1*23	-0.0935	4818.5	V	255	Kis	25SC+F47
KIC9832227	2457897.1587	*23	-0.0888	4823	V	237	Kis	25SC+F47
KIC9832227	2457903.1137	*23	-0.0873	4836	V	235	Kis	25SC+F47
KIC9832227	2457907.2290	*23	-0.0937	4845	V	292	Kis	25SC+F47
ASAS022014-0252.0	2458090.0011	*1*30	-0.0116	9613.5	Ic	98	Nga	15L+ST-402
ASAS022014-0252.0	2458090.0024	*1*30	-0.0103	9613.5	V	100	Nga	15L+ST-402
ASAS085702-0808.2	2457795.981	*8	-0.060	6828	Ic	98	Nga	10L+CV-04
ASAS154315-0742.5	2457893.0080	*1*18	+0.0680	18308.5	Ic	47	Nga	10L+ST-402
ASAS162218-0623.0	2457901.0407	*1*19	+0.0107	76448.5	Ic	77	Nga	20SC+ST-402
ASAS220034+0138.2	2457993.067	*25	-0.003	6522	Ic	25	Nga	10L+ST-402

Observers

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 Ioh / Itoh Hiroshi
 Kai / Kasai Kiyoshi
 Kis / Kiyota Seiichiro
 Kit / Kanai Kiyotaka
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 Mhh / Maehara Hiroyuki
 Nga / Nagai Kazuo
 Set / Chris Stephan
 Siz / Shiokawa Kazuhiko
 Suz / Suzuki Hitoshi

Remarks

- 1 secondary minimum
- 2 min=2451904.11+0.64346xE (ASAS-3 catalogue)
- 3 min=2448500.2213+0.677049xE (Hipparcos catalogue)
- 4 min=2454429.726+0.614050xE (IBVS 6011)
- 5 min=2452499.182+6.728606xE (M.Ratajczak et. al. 2010)
- 6 min=2451869.04+0.87709xE (ASAS-3 catalogue)
- 7 min=2448501.09+2.0487xE (Hipparcos catalogue)
- 8 min=2451869.20+0.86802xE (GCVS, Samus et al., Nov.2016)
- 9 min=2444623.4648+2.4996290xE (Czech Republic)
- 10 min=2448500.008+0.408604xE (Hipparcos catalogue)
- 11 min=2448500.196+0.477547xE (Hipparcos catalogue)
- 12 min=2451220.4869+0.351862xE (IBVS 4810)
- 13 min=2452500.768+0.8962965xE (J.M.Kreiner,2004,AA54)
- 14 min=2452026.59+0.72361xE (ASAS-3 catalogue)
- 15 min=2442812.645+0.4550021xE (IBVS 3709)
- 16 min=2445730.5565+0.116719582xE (Cakirli, Devlen (1999))
- 17 min=2450265.4518+1.7631xE (IBVS 4407)
- 18 min=2451919.92+0.326243xE (ASAS-3 catalogue)
- 19 min=2451937.90+0.339615xE (ASAS-3 catalogue)
- 20 min=2449639.835+1.080313xE (IBVS 4726, J.Vandenbroere, 1999)
- 21 min=2448500.0487+0.862023xE (Hipparcos catalogue)
- 22 min=2452083.640+0.5022043xE (IBVS5480)
- 23 min=2455688.49913+0.45796151xE (Molnar, Lawrence; et al, 2015)
- 24 min=2448500.196+0.31244xE (Hipparcos catalogue)
- 25 min=2451874.26+0.938180xE (ASAS-3 catalogue)
- 26 min=2451886.073+0.308538xE (ASAS-3 catalogue)
- 27 min=2448500.357+0.399957xE (Hipparcos catalogue)
- 28 min=2448500.062+0.3053732xE (Hipparcos catalogue)
- 29 min=2451868.898+0.256486xE (ASAS-3 catalogue)
- 30 min=2451904.11+0.64346xE (ASAS-3 catalogue)
- 31 min=2440145.47+1.663349xE (K.Kasai, 2017)
- 32 min=2448500.351+0.456971xE (Hipparcos catalogue)

cG magnitude means G plane of DSLR camera.

VSOLJ

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