

Variable Star Bulletin

Visual, CCD and DSLR minima of eclipsing binaries during 2015

Kazuo Nagai

E-mail: PXS10547@nifty.ne.jp

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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.
AB And	2457329.556	*1	-0.019	14551.5	vis	10	Set	
CN And	2457386.0349	*1	-0.0072	14449.5	V	139	Ioh	10L+ATIK414EX
LO And	2457331.0909		-0.0210	12698	V	219	Ioh	10L+DSI-II
LO And	2457331.2708	*1	-0.0313	12698.5	V	219	Ioh	10L+DSI-II
V566 And	2457361.9660	*1	+0.0800	15096.5	V	140	Ioh	10L+DSI-II
V566 And	2457362.1594	1	+0.0785	15097	V	140	Ioh	10L+DSI-II
S Ant	2457040.153	*1	+0.018	6805.5	vis	32	Kit	7B
S Ant	2457378.263		+0.014	7327	vis	28	Kit	7B
SS Ari	2457275.0225		-0.0264	11761	V	110	Ioh	6R+DSI-II
SS Ari	2457355.0004		-0.0271	11958	Rc	140	Siz	35SC+ST-9E
SZ Ari	2457309.2245		+0.0101	2800	V	512	Mdy	35SC+ST-10XME
BM Ari	2457355.0508		-0.0019	5257	V	383	Ioh	30SC+ST-9XE
BN Ari	2457310.0085	*1	-0.0559	19321.5	V	117	Ioh	6R+DSI-II
BQ Ari	2457320.2617	*1	-0.0252	21029.5	V	113	Ioh	10L+DSI-II
WW Aur	2457024.119		-0.005	1791	vis	36	Kit	7B
WW Aur	2457337.233		+0.007	1915	vis	25	Kit	5B
WW Aur	2457342.280		+0.004	1917	vis	31	Kit	5B
WW Aur	2457361.214	*1	+0.000	1924.5	vis	40	Kit	5B
WW Aur	2457375.108		+0.007	1930	vis	28	Kit	5B7B
AR Aur	2457035.065	*1	+0.028	1096.5	vis	26	Kit	7B
AR Aur	2457347.235		+0.032	1172	vis	29	Kit	7B
AR Aur	2457374.097	*1	+0.019	1178.5	vis	32	Kit	7B
AR Aur	2457376.172		+0.026	1179	vis	32	Kit	7B
EM Aur	2457358.1062		+0.0044	1569	Rc	467	Siz	35SC+ST-9E
HL Aur	2457364.2212		+0.0003	7813	Rc	365	Siz	35SC+ST-9E
V569 Aur	2457388.1162		+0.0140	9303	B	199	Ioh	30SC+ST-9XE
V569 Aur	2457388.1166		+0.0144	9303	Rc	212	Ioh	30SC+ST-9XE
V569 Aur	2457388.1166		+0.0144	9303	V	212	Ioh	30SC+ST-9XE
V569 Aur	2457388.3143	*1	+0.0132	9303.5	V	212	Ioh	30SC+ST-9XE
V569 Aur	2457388.3149	*1	+0.0138	9303.5	Rc	212	Ioh	30SC+ST-9XE
V569 Aur	2457388.3160	*1	+0.0149	9303.5	B	199	Ioh	30SC+ST-9XE

star	min.		O-C	E	color	n	obs.	inst.
V591 Aur	2457351.0991		+0.0071	5157	Rc	319	Siz	35SC+ST-9E
OO Aql	2457225.0898		-0.0015	4289	V	99	Nga	20SC+ST-402
OO Aql	2457225.0898		-0.0015	4289	Ic	99	Nga	20SC+ST-402
OO Aql	2457225.0906		-0.0007	4289	B	99	Nga	20SC+ST-402
V346 Aql	2457165.1604		-0.0003	2270	V	97	Ioh	6R+DSI-II
V805 Aql	2457218.0024	*1	-0.0051	1994.5	Ic	113	Nga	10L+CV-04
CW Aqr	2457278.9674		+0.0097	8140	Ic	106	Nga	10L+CV-04
HS Aqr	2457244.0305		-0.0066	6679	Ic	118	Nga	10L+CV-04
HV Aqr	2457253.0118	*1	-0.0165	12692.5	Ic	48	Nga	10L+CV-04
TU Boo	2457130.2814		+0.0097	14278	V	93	Hsk	13R+ST-8XME
AC Boo	2457140.1262	*1	+0.0159	13164.5	Rc	242	Siz	35SC+ST-9E
CK Boo	2457105.0772	*1	-0.0328	12966.5	V	66	Ioh	6R+DSI-II
CK Boo	2457106.1455	*1	-0.0300	12969.5	V	109	Ioh	6R+DSI-II
CK Boo	2457107.0305		-0.0328	12970	V	111	Ioh	6R+DSI-II
EF Boo	2457144.1979	*1	+0.0053	11043.5	V	160	Ioh	6R+DSI-II
BF Cap	2457240.9848	*1*21	+0.0120	16409.5	Ic	89	Nga	10L+CV-04
CM Cap	2457225.1033	*1	-0.0009	12523.5	Ic	125	Nga	10L+CV-04
CM Cap	2457250.0240		-0.0047	12583	Ic	95	Nga	10L+CV-04
CQ Cap	2457230.0849		-0.0156	6315	Ic	80	Nga	10L+CV-04
CQ Cap	2457239.0687		-0.0123	6328	Ic	70	Nga	10L+CV-04
CQ Cap	2457255.9974	*1	-0.0084	6352.5	Ic	68	Nga	10L+CV-04
RZ Cas	2457285.170		+0.073	11784	vis	19	Heo	7Bx10
RZ Cas	2457285.1724		+0.0755	11784	cG	32	Nga	f=35mmlens+EOSKissdigitalN
RZ Cas	2457303.103		+0.077	11799	vis	50	Kit	7B
RZ Cas	2457315.055		+0.077	11809	vis	17	Mhh	4.2Bx10
RZ Cas	2457315.0535		+0.0753	11809	y	195	Kis	25SC+ST-8300M
RZ Cas	2457327.003		+0.072	11819	vis	29	Sae	5B
RZ Cas	2457327.0056		+0.0750	11819	cG	135	Hsk	f=200mmlens+EOSKissX3
RZ Cas	2457327.0058		+0.0752	11819	V	70	Nga	f=80mmlens+EOSKissdigitalN
RZ Cas	2457327.0059		+0.0753	11819	B	70	Nga	f=80mmlens+EOSKissdigitalN
RZ Cas	2457327.0062		+0.0756	11819	cG	52	Ida	f=135mmlens+EOSKissX6i
RZ Cas	2457327.0067		+0.0761	11819	Rc	70	Nga	f=80mmlens+EOSKissdigitalN
RZ Cas	2457327.011		+0.080	11819	vis	32	Heo	7B
RZ Cas	2457358.0831		+0.0761	11845	cG	61	Ida	f=135mmlens+EOSKissX6i
RZ Cas	2457364.0591		+0.0759	11850	cG	68	Ida	f=135mmlens+EOSKissX6i
RZ Cas	2457365.258		+0.080	11851	vis	56	Kit	7B
RZ Cas	2457376.012		+0.076	11860	cG	30	Sae	f=50mmlens+EOSKissdigitalN
V523 Cas	2457329.9942	*1	+0.1067	68935.5	Rc	534	Siz	35SC+ST-9E
V523 Cas	2457330.1112		+0.1069	68936	Rc	534	Siz	35SC+ST-9E
V523 Cas	2457330.2281	*1	+0.1069	68936.5	Rc	534	Siz	35SC+ST-9E
RW Cet	2457321.0792	*1	-0.0306	15475.5	Ic	86	Nga	20SC+ST-402
TT Cet	2457331.9657		-0.0756	51005	B	83	Nga	20SC+ST-402
TT Cet	2457331.9659		-0.0754	51005	V	82	Nga	20SC+ST-402
TT Cet	2457331.9668		-0.0745	51005	Ic	80	Nga	20SC+ST-402
TX Cet	2457354.9321		+0.0104	19265	V	95	Nga	20SC+ST-402
TX Cet	2457354.9327		+0.0110	19265	Ic	95	Nga	20SC+ST-402
TX Cet	2457354.9329		+0.0112	19265	B	95	Nga	20SC+ST-402
AA Cet	2457354.0248	*1	-0.0311	30000.5	cG	88	Nga	f=105mmlens+EOSKissdigitalN
CK Cet	2457270.1191	*23	-0.1375	11429	Ic	58	Nga	10L+CV-04
CT Cet	2457278.0946	*1*25	+0.0351	21089.5	Ic	69	Nga	10L+CV-04
DY Cet	2457309.0211	*27	-0.0572	19984	Ic	97	Nga	10L+CV-04
EE Cet	2457309.0647	*28	+0.1151	23186	V	140	Ioh	6R+DSI-II
R CMa	2457030.177		+0.003	1252	vis	33	Kit	7B
R CMa	2457046.092		+0.014	1266	vis	39	Kit	7B
R CMa	2457054.046		+0.017	1273	vis	26	Kit	7B
R CMa	2457331.215		+0.014	1517	vis	23	Kit	5B

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RT CMa	2457366.0964		+0.0109	1157	V	233	Kis	25SC+F47
SX CMa	2457025.0859		-0.0176	853	Ic	47	Nga	10L+CV-04
UU CMa	2457311.2547		+0.0212	796	V	83	Ioh	6R+DSI-II
CM CMa	2457368.1809	*1	+0.0075	5284.5	V	598	Mdy	35SC+ST-10XME
CM CMa	2457381.1798		-0.0011	5309	V	227	Mdy	35SC+ST-10XME
FZ CMa	2457042.9702		+0.0315	2641	Ic	111	Nga	10L+CV-04
KL CMa	2457042.0613	*6	+0.8701	4846	Ic	70	Nga	f=105mmlens+EOSKissdigitalN
KL CMa	2457042.0614	*6	+0.8702	4846	B	70	Nga	f=105mmlens+EOSKissdigitalN
KL CMa	2457042.0626	*6	+0.8714	4846	V	70	Nga	f=105mmlens+EOSKissdigitalN
V391 CMa	2457376.0749		-0.0027	3104	Ic	101	Nga	10L+CV-04
V405 CMa	2457030.985	*1	-0.005	13420.5	Ic	51	Nga	10L+CV-04
TX CMi	2457027.0848		+0.1388	52515	V	387	Kis	25SC+F47
TX CMi	2457032.1444		+0.1414	52528	Ic	456	Kis	25SC+F47
XZ CMi	2457376.2351		+0.2847	25797	V	99	Nga	20SC+ST-402
XZ CMi	2457376.2360		+0.2856	25797	Ic	99	Nga	20SC+ST-402
XZ CMi	2457376.2361		+0.2857	25797	B	99	Nga	20SC+ST-402
YY CMi	2457357.1118		+0.0146	26813	V	182	Ioh	6R+DSI-II
AK CMi	2457047.0623		-0.0218	24643	Rc	463	Siz	35SC+ST-9E
BF CMi	2457373.0268		-0.1625	11183	V	100	Ioh	6R+DSI-II
BH CMi	2457033.0768	*4	-0.1110	16887	B	104	Nga	20SC+ST-402
BH CMi	2457033.0789	*4	-0.1089	16887	V	107	Nga	20SC+ST-402
BH CMi	2457033.0794	*4	-0.1084	16887	Ic	107	Nga	20SC+ST-402
BH CMi	2457063.0053	*1*4	-0.1080	16940.5	B	94	Nga	20SC+ST-402
BH CMi	2457063.0057	*1*4	-0.1076	16940.5	V	95	Nga	20SC+ST-402
BH CMi	2457063.0029	*1*4	-0.1104	16940.5	Ic	95	Nga	20SC+ST-402
CW CMi	2457032.0788	*1*3	+0.0110	16478.5	Rc	504	Siz	35SC+ST-9E
CW CMi	2457032.2387	*3	+0.0143	16479	Rc	504	Siz	35SC+ST-9E
CW CMi	2457066.0603	*1*3	-0.1459	16587.5	V	103	Nga	20SC+ST-402
CW CMi	2457066.0606	*1*3	-0.1456	16587.5	Ic	102	Nga	20SC+ST-402
CW CMi	2457066.0609	*1*3	-0.1453	16587.5	B	98	Nga	20SC+ST-402
CW CMi	2457358.1049	*3	+0.1557	17519	V	60	Ioh	6R+DSI-II
DW CMi	2457032.1097		+0.0070	14373	Ic	456	Kis	25SC+F47
WX Cnc	2457353.1609		+0.0003	886	V	46	Ioh	6R+DSI-II
RZ Com	2457064.1137		+0.0488	65661	V	89	Ioh	6R+DSI-II
YY CrB	2457084.1726	*1*10	-0.1109	22795.5	V	494	Ioh	6R+DSI-II
DE CVn	2457110.1634		-0.0022	18013	V	260	Kis	25SC+F47
V610 Cyg	2457244.2426		+0.3972	18802	V	355	Mdy	35SC+ST-10XME
V753 Cyg	2457230.0886		+0.0753	49194	Rc	294	Siz	35SC+ST-9E
V2477 Cyg	2457215.0145	*1	+0.0039	18384.5	Rc	383	Siz	35SC+ST-9E
V2477 Cyg	2457215.1695		+0.0033	18385	Rc	383	Siz	35SC+ST-9E
MR Del	2457244.0338	*22	-0.0066	16760	B	72	Nga	20SC+ST-402
MR Del	2457244.0338	*22	-0.0066	16760	V	71	Nga	20SC+ST-402
MR Del	2457244.0339	*22	-0.0065	16760	Ic	72	Nga	20SC+ST-402
RU Eri	2457382.9016		-0.0332	23764	B	53	Nga	20SC+ST-402
RU Eri	2457382.9022		-0.0326	23764	V	52	Nga	20SC+ST-402
RU Eri	2457382.9028		-0.0320	23764	Ic	52	Nga	20SC+ST-402
YY Eri	2457024.9097		-0.0073	48036	Ic	51	Nga	10L+CV-04
YY Eri	2457025.8746		-0.0069	48039	Ic	82	Nga	10L+CV-04
YY Eri	2457033.9117		-0.0071	48064	Ic	59	Nga	10L+CV-04
YY Eri	2457034.8763		-0.0070	48067	Ic	70	Nga	10L+CV-04
YY Eri	2457299.307		+0.156	48889	vis	34	Kit	12B
YY Eri	2457304.296	*1	+0.161	48904.5	vis	29	Kit	12B
YY Eri	2457309.275		+0.157	48920	vis	40	Kit	12B
YY Eri	2457314.254	*1	+0.153	48935.5	vis	35	Kit	12B
YY Eri	2457327.279		+0.158	48976	vis	35	Kit	12B
YY Eri	2457330.175		+0.160	48985	vis	35	Kit	12B

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YY Eri	2457351.0664		+0.1543	49050	cG	74	Nga	f=105mmlens+EOSKissdigitalN
YY Eri	2457354.120	*1	+0.154	49059.5	vis	45	Kit	12B
YY Eri	2457357.0151	*1	+0.1554	49068.5	Ic	134	Nga	10L+CV-04
YY Eri	2457357.179		+0.159	49069	vis	35	Kit	12B
YY Eri	2457360.0675		+0.1536	49078	cG	72	Nga	f=105mmlens+EOSKissdigitalN
YY Eri	2457361.0337		+0.1553	49081	Ic	126	Nga	10L+CV-04
YY Eri	2457361.0352		+0.1568	49081	cG	62	Nga	f=105mmlens+EOSKissdigitalN
YY Eri	2457361.9985		+0.1556	49084	cG	96	Nga	f=105mmlens+EOSKissdigitalN
YY Eri	2457365.0545	*1	+0.1575	49093.5	cG	59	Nga	f=105mmlens+EOSKissdigitalN
YY Eri	2457366.0149	*1	+0.1534	49096.5	cG	57	Nga	f=105mmlens+EOSKissdigitalN
YY Eri	2457378.0727		+0.1552	49134	C	408	Kis	5R+SXSuperstar
YY Eri	2457382.085	*1	+0.149	49146.5	vis	35	Kit	12B
AS Eri	2457276.277		+0.003	10787	vis	22	Kit	12B
AS Eri	2457308.246		+0.003	10799	vis	32	Kit	12B
AS Eri	2457332.210		-0.011	10808	vis	23	Kit	12B
BC Eri	2457389.9749	*42	+0.0922	11169	B	42	Nga	20SC+ST-402
BC Eri	2457389.9763	*42	+0.0936	11169	Ic	43	Nga	20SC+ST-402
BC Eri	2457389.9775	*42	+0.0948	11169	V	42	Nga	20SC+ST-402
BU Eri	2457357.9746	*1*33	+0.2194	8475.5	Ic	49	Nga	10L+CV-04
BU Eri	2457365.9919	*33	+0.1934	8488	Ic	66	Nga	10L+CV-04
BV Eri	2457356.9761		-0.2141	27395	B	142	Nga	20SC+ST-402
BV Eri	2457356.9767		-0.2135	27395	V	142	Nga	20SC+ST-402
BV Eri	2457356.9772		-0.2130	27395	Ic	143	Nga	20SC+ST-402
AE For	2457360.0017	*1*34	-0.0017	16158.5	Ic	65	Nga	10L+CV-04
TX Gem	2457374.1609		-0.0387	13402	Rc	610	Siz	35SC+ST-9E
LT Her	2457169.1497		-0.1472	15141	B	90	Nga	20SC+ST-402
LT Her	2457169.1510		-0.1459	15141	Ic	92	Nga	20SC+ST-402
LT Her	2457169.1515		-0.1454	15141	V	91	Nga	20SC+ST-402
V0338 Her	2457169.0905		+0.1264	10322	Rc	316	Siz	35SC+ST-9E
V0728 Her	2457165.0817		+0.1909	34943	Rc	181	Siz	35SC+ST-9E
V1055 Her	2457156.0671	*1*20	+0.0154	16168.5	Rc	343	Siz	35SC+ST-9E
V1055 Her	2457156.2227	*20	+0.0133	16169	Rc	343	Siz	35SC+ST-9E
V1055 Her	2457164.1071	*20	+0.0125	16194	Rc	267	Siz	35SC+ST-9E
V1073 Her	2457153.0517	*18	+0.0251	18372	Rc	333	Siz	35SC+ST-9E
V1073 Her	2457153.1986	*1*18	+0.0249	18372.5	Rc	333	Siz	35SC+ST-9E
EU Hya	2457060.1061		-0.0334	29470	V	92	Nga	20SC+ST-402
EU Hya	2457060.1067		-0.0328	29470	Ic	92	Nga	20SC+ST-402
EU Hya	2457060.1069		-0.0326	29470	B	89	Nga	20SC+ST-402
GM Hya	2457064.1261		-0.4250	2611	Rc	419	Siz	35SC+ST-9E
OZ Hya	2457109.9689	*1*12	-0.7829	4202.5	Ic	46	Nga	20SC+ST-402
OZ Hya	2457109.9725	*1*12	-0.7793	4202.5	V	46	Nga	20SC+ST-402
OZ Hya	2457109.9728	*1*12	-0.7790	4202.5	B	46	Nga	20SC+ST-402
V409 Hya	2457040.1460	*1	+0.0543	8227.5	B	102	Nga	20SC+ST-402
V409 Hya	2457040.1465	*1	+0.0548	8227.5	V	102	Nga	20SC+ST-402
V409 Hya	2457040.1476	*1	+0.0559	8227.5	Ic	102	Nga	20SC+ST-402
SW Lac	2457299.0865		-0.0877	37490	V	349	Ioh	10L+DSI-II
SW Lac	2457299.2446	*1	-0.0900	37490.5	V	349	Ioh	10L+DSI-II
SW Lac	2457329.552		-0.091	37585	vis	18	Set	
Y Leo	2457040.1523		-0.0527	6882	V	377	Kis	25SC+F47
UU Leo	2457055.0522		+0.1943	6940	Ic	294	Kis	25SC+F47
UZ Leo	2457110.1608		+0.2631	28007	V	119	Ioh	6R+DSI-II
XY Leo	2457026.1494		-0.0137	42069	V	243	Kis	25SC+F47
XY Leo	2457051.0099	*1	-0.0117	42156.5	V	122	Ioh	6R+DSI-II
XZ Leo	2457051.0193		+0.0647	24656	V	121	Ioh	6R+DSI-II
AM Leo	2457107.0067		+0.0116	39950	B	91	Nga	20SC+ST-402
AM Leo	2457107.0069		+0.0118	39950	V	87	Nga	20SC+ST-402

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AM Leo	2457107.0074		+0.0123	39950	Ic	87	Nga	20SC+ST-402
AP Leo	2457030.1371		-0.0110	40649	V	196	Ioh	6R+DSI-II
AP Leo	2457108.0341		-0.0087	40830	V	94	Nga	20SC+ST-402
AP Leo	2457108.0342		-0.0086	40830	Ic	96	Nga	20SC+ST-402
AP Leo	2457108.0343		-0.0085	40830	B	102	Nga	20SC+ST-402
DU Leo	2457041.064	*7	-0.685	6326	V	122	Ioh	6R+DSI-II
GV Leo	2457096.0293		+0.0537	16277	V	126	Hsk	20L+ST-402ME
HI Leo	2457069.1241	*1	+0.0074	20914.5	Rc	440	Siz	35SC+ST-9E
HI Leo	2457069.2807		+0.0082	20915	Rc	440	Siz	35SC+ST-9E
VZ Lib	2457164.0274	*1	+0.1259	34542.5	Ic	68	Nga	10L+CV-04
VW LMi	2457138.1422	*19	+0.0761	18088	cG	157	Hsk	135mm+EOSKissX3
SX Lyn	2457376.0772		+0.0264	5902	Rc	602	Siz	35SC+ST-9E
BG Lyn	2457384.9937	*41	-0.0071	12175	Rc	467	Siz	35SC+ST-9E
FI Lyn	2457382.0897	*1	+0.0179	15547.5	Rc	834	Siz	35SC+ST-9E
FI Lyn	2457382.2751		+0.0166	15548	Rc	834	Siz	35SC+ST-9E
PS Lyr	2457225.1203		+0.0215	15635	Rc	315	Siz	35SC+ST-9E
TZ Lyr	2457135.1661		+0.0046	23355	V	75	Ioh	6R+DSI-II
AV Mon	2457055.0347		-0.1752	4368	Rc	439	Siz	35SC+ST-9E
AV Mon	2457061.9864		-0.1709	4369	Ic	88	Nga	20SC+ST-402
AV Mon	2457061.9866		-0.1707	4369	B	87	Nga	20SC+ST-402
AV Mon	2457061.9866		-0.1707	4369	V	87	Nga	20SC+ST-402
DD Mon	2457034.9524	*1	+0.1823	47029.5	Rc	388	Siz	35SC+ST-9E
DD Mon	2457035.2366		+0.1825	47030	Rc	388	Siz	35SC+ST-9E
DD Mon	2457042.0528		+0.1826	47042	B	96	Nga	20SC+ST-402
DD Mon	2457042.0529		+0.1827	47042	Ic	97	Nga	20SC+ST-402
DD Mon	2457042.0536		+0.1834	47042	V	96	Nga	20SC+ST-402
V453 Mon	2457387.1724		-0.1336	35176	Rc	441	Siz	35SC+ST-9E
V864 Mon	2457036.0662	*1	-0.0127	9833.5	Ic	101	Nga	10L+CV-04
V566 Oph	2457215.0018		-0.1880	37543	Ic	184	Nga	10L+CV-04
V2612 Oph	2457164.0568		+0.1319	12548	V	94	Ioh	6R+DSI-II
VV Ori	2457035.0576		-0.0360	10869	B	94	Nga	105mm+EOSKissdigitalN
CW Ori	2457137.3239	*39	-0.0005	248	V	31	Kai	28SC+ST-7XME
CW Ori	2457383.5494	*39	-0.0050	392	V	392	Kai	28SC+ST-7XME
FZ Ori	2457033.9782		-0.0443	32525	B	87	Nga	20SC+ST-402
FZ Ori	2457033.9793		-0.0432	32525	Ic	87	Nga	20SC+ST-402
FZ Ori	2457033.9799		-0.0426	32525	V	87	Nga	20SC+ST-402
FZ Ori	2457310.1731	*1	-0.0401	33215.5	V	107	Ioh	6R+DSI-II
V647 Ori	2457033.1503		-0.2712	23863	Rc	374	Siz	35SC+ST-9E
V647 Ori	2457362.0972	*1	-0.2752	24199.5	Rc	332	Siz	35SC+ST-9E
V1638 Ori	2457025.9418	*1*2	+0.1214	19739.5	V	63	Nga	20SC+ST-402
V1848 Ori	2457029.9759	*1	+0.0069	11126.5	V	79	Nga	20SC+ST-402
V1848 Ori	2457029.9760	*1	+0.0070	11126.5	B	80	Nga	20SC+ST-402
V1848 Ori	2457029.9761	*1	+0.0071	11126.5	Ic	82	Nga	20SC+ST-402
V1848 Ori	2457035.0375	*1	+0.0078	11145.5	B	95	Nga	20SC+ST-402
V1848 Ori	2457035.0384	*1	+0.0087	11145.5	V	95	Nga	20SC+ST-402
V1848 Ori	2457035.0386	*1	+0.0089	11145.5	Ic	96	Nga	20SC+ST-402
V1848 Ori	2457365.9781		+0.0091	12388	Ic	106	Nga	20SC+ST-402
V1848 Ori	2457365.980		+0.011	12388	B	95	Nga	20SC+ST-402
V1848 Ori	2457365.9811		+0.0121	12388	V	105	Nga	20SC+ST-402
V1848 Ori	2457366.1103	*1	+0.0081	12388.5	B	95	Nga	20SC+ST-402
V1848 Ori	2457366.1115	*1	+0.0093	12388.5	Ic	106	Nga	20SC+ST-402
V1848 Ori	2457366.1117	*1	+0.0095	12388.5	V	105	Nga	20SC+ST-402
V2783 Ori	2457043.0281		-1.8489	972	Ic	87	Nga	20SC+ST-402
V2783 Ori	2457043.0282		-1.8488	972	B	89	Nga	20SC+ST-402
V2783 Ori	2457043.0282		-1.8488	972	V	88	Nga	20SC+ST-402
V2790 Ori	2457384.0202	*1	-0.0089	20355.5	Rc	480	Siz	35SC+ST-9E

star	min.		O-C	E	color	n	obs.	inst.
V2790 Ori	2457384.1636		-0.0094	20356	Rc	480	Siz	35SC+ST-9E
U Peg	2457225.1178	*1	-0.1579	55268.5	V	78	Ioh	6R+DSI-II
BB Peg	2457272.2024		-0.0185	37366	V	361	Mdy	35SC+ST-10XME
BG Peg	2457270.0520		-0.2659	6011	V	177	Hsk	20L+ST-402ME
RV Per	2457303.989		-0.003	7731	V	87	Ioh	6R+DSI-II
CR Per	2457376.3408	*1*37	-0.0007	32	V	234	Kai	28SC+ST-7XME
CR Per	2457094.4316	*1*37	+0.0005	0	V	281	Kai	28SC+ST-7XME
CR Per	2457106.3765	*38	+0.0003	0	V	159	Kai	28SC+ST-7XME
CR Per	2457379.4766	*38	-0.0003	31	V	291	Kai	28SC+ST-7XME
KL Per	2457342.1086		+0.1418	9672	Rc	547	Siz	35SC+ST-9E
V340 Per	2457367.2384		-0.8250	6621	V	346	Kai	28SC+ST-7XME
V432 Per	2457321.1033	*1	+0.0966	66704.5	Rc	449	Siz	35SC+ST-9E
V680 Per	2457301.1389	*1	-0.0242	15377.5	V	425	Mdy	35SC+ST-10XME
V680 Per	2457301.3243		-0.0258	15378	V	425	Mdy	35SC+ST-10XME
V680 Per	2457302.2624	*1	-0.0226	15380.5	V	321	Mdy	35SC+ST-10XME
V873 Per	2457331.1566		-0.0211	20211	Rc	447	Siz	35SC+ST-9E
V873 Per	2457331.3045	*1	-0.0207	20211.5	Rc	447	Siz	35SC+ST-9E
V873 Per	2457384.0921	*1	-0.0209	20390.5	V	281	Ioh	30SC+ST-9XE
V873 Per	2457383.0590		-0.0218	20387	V	202	Ioh	30SC+ST-9XE
V881 Per	2457026.0582	*1	+0.0565	14278.5	V	375	Ioh	30SC+ST-9XE
V881 Per	2457054.9095		+0.0485	14353	V	430	Ioh	30SC+ST-9XE
beta Per	2457320.1638		+0.1199	4073	V	515	Kis	24mm+DSI-proII
beta Per	2457317.294		+0.117	4072	vis	20	Kit	N,3.5B
beta Per	2457320.174		+0.130	4073	vis	34	Kit	N,3.5B
VZ Psc	2457293.9571		-0.0623	51541	Ic	50	Nga	20SC+ST-402
DV Psc	2457024.3448	*1*5	+0.0342	16653.5	V	116	Kai	28SC+ST-7XME
DV Psc	2457308.0388	*5	+0.0275	17573	V	110	Nga	20SC+ST-402
DV Psc	2457308.0389	*5	+0.0276	17573	Ic	101	Nga	20SC+ST-402
DV Psc	2457308.0400	*5	+0.0287	17573	B	110	Nga	20SC+ST-402
DV Psc	2457329.9447	*5	+0.0272	17644	V	131	Ioh	10L+DSI-II
DV Psc	2457330.0956	*1*5	+0.0239	17644.5	V	131	Ioh	10L+DSI-II
EX Psc	2457024.3510	*1	-0.0320	11662.5	V	110	Kai	28SC+ST-7XME
HO Psc	2457383.9080		+0.0078	13891	V	366	Ioh	10L+ATIK414EX
HO Psc	2457384.0696	*1	+0.0071	13891.5	V	366	Ioh	10L+ATIK414EX
TY Pup	2457033.0229		+0.2001	27612	Ic	89	Nga	10L+CV-04
UZ Pup	2457026.0853		-0.0092	15616	Ic	146	Nga	10L+CV-04
UZ Pup	2457030.0590		-0.0098	15621	Ic	60	Nga	10L+CV-04
ER Sct	2457216.0311		+0.2540	21954	Ic	79	Nga	10L+CV-04
ER Sct	2457228.9943	*1	+0.2873	21963.5	Ic	65	Nga	10L+CV-04
AU Ser	2457108.1609		-0.1202	32046	V	91	Ioh	6R+DSI-II
Y Sex	2457145.0149		+0.1979	36631	V	80	Ioh	30SC+ST-9XE
WW Sex	2457092.9786		+0.6939	3048	Ic	130	Nga	10L+CV-04
WY Sex	2457060.0399	*1	-0.0011	16659.5	Rc	384	Siz	35SC+ST-9E
WY Sex	2457060.2205		-0.0045	16660	Rc	384	Siz	35SC+ST-9E
XX Sex	2457062.1171	*1	+0.0303	8789.5	Ic	103	Nga	10L+CV-04
WY Tau	2457365.1925	*1	+0.0621	28816.5	Rc	383	Siz	35SC+ST-9E
AH Tau	2457331.2449	*1	-0.1445	78962.5	V	705	Mdy	35SC+ST-10XME
BV Tau	2457385.0756	*1	+0.1516	12179.5	V	302	Kub	16L+BJ41L
CD Tau	2457347.194	*1	+0.012	4578.5	vis	30	Kit	7B
EQ Tau	2457303.0751	*1	-0.0322	50065.5	V	108	Ioh	6R+DSI-II
V781 Tau	2457361.2283		-0.0516	39101	V	214	Ioh	10L+DSI-II
V1121 Tau	2457362.0052	*1*36	+0.3542	6378.5	B	103	Nga	20SC+ST-402
V1121 Tau	2457362.0138	*1*36	+0.3628	6378.5	Ic	104	Nga	20SC+ST-402
V1123 Tau	2457385.0313	*40	+0.0295	22214	V	322	Ioh	10L+ATIK414EX
V1239 Tau	2457361.2756		-0.0936	4347	V	340	Ioh	10L+DSI-II
V1367 Tau	2457388.2874		-0.0041	13483	V	190	Ioh	10L+ATIK414EX

star	min.		O-C	E	color	n	obs.	inst.
V1370 Tau	2457034.0726	*1	-0.0842	11438.5	V	461	Ioh	30SC+ST-9XE
V1370 Tau	2457034.2209		-0.0837	11439	V	461	Ioh	30SC+ST-9XE
V1370 Tau	2457385.0000		-0.0904	12626	V	249	Ioh	30SC+ST-9XE
ST Tri	2457301.0552	*1	-0.0681	38149.5	V	418	Mdy	35SC+ST-10XME
ST Tri	2457301.2926		-0.0702	38150	V	418	Mdy	35SC+ST-10XME
ST Tri	2457302.2510		-0.0700	38152	V	324	Mdy	35SC+ST-10XME
W UMa	2457138.0155		-0.0905	34086	cG	136	Hsk	135mm+EOSKissX3
W UMa	2457355.2096		-0.0944	34737	V	363	Kis	25SC+F47
II UMa	2457112.1205		+0.0416	10436	V	150	Ioh	6R+DSI-II
QT UMa	2457386.1063		+0.2053	12295	Rc	618	Siz	35SC+ST-9E
QT UMa	2457386.3447		+0.2067	12295.5	Rc	618	Siz	35SC+ST-9E
V354 UMa	2457145.0484		+0.0498	19482	V	449	Ioh	30SC+ST-9XE
V354 UMa	2457145.1914	*1	+0.0458	19482.5	V	449	Ioh	30SC+ST-9XE
AH Vir	2457111.1390		-0.1356	27721	V	304	Ioh	6R+DSI-II
AH Vir	2457139.0537	*1	-0.1361	27789.5	V	110	Ioh	6R+DSI-II
AZ Vir	2457148.0490		-0.0260	37669	B	63	Nga	20SC+ST-402
AZ Vir	2457148.0499		-0.0251	37669	V	64	Nga	20SC+ST-402
AZ Vir	2457148.0499		-0.0251	37669	Ic	64	Nga	20SC+ST-402
BH Vir	2457148.0499	*1	-0.0092	17037.5	Ic	75	Nga	10L+CV-04
CR Vir	2457140.1094		-0.3533	27354	Ic	69	Nga	10L+CV-04
GR Vir	2457140.0262	*1	-0.0842	28644.5	Ic	110	Nga	10L+CV-04
HY Vir	2457095.140	*1*11	-0.088	3606.5	Ic	128	Nga	10L+CV-04
MS Vir	2457145.0420	*16	-0.0564	27669	Ic	62	Nga	10L+CV-04
PY Vir	2457096.0903		-0.0407	16531	Ic	61	Nga	10L+CV-04
ASAS001556+0644.7	2457302.976	*1*26	-0.090	13502.5	B	103	Nga	20SC+ST-402
ASAS001556+0644.7	2457302.978	*1*26	-0.088	13502.5	V	103	Nga	20SC+ST-402
ASAS001556+0644.7	2457302.9787	*1*26	-0.0873	13502.5	Ic	103	Nga	20SC+ST-402
ASAS001556+0644.7	2457330.0546	*1*26	+0.1083	13569.5	B	65	Nga	20SC+ST-402
ASAS001556+0644.7	2457330.0552	*1*26	+0.1089	13569.5	Ic	65	Nga	20SC+ST-402
ASAS001556+0644.7	2457330.0562	*1*26	+0.1099	13569.5	V	67	Nga	20SC+ST-402
ASAS015937-0331.0	2457332.0252	*1*30	-0.0034	8594.5	Ic	95	Nga	10L+CV-04
ASAS010327-1210.4	2457277.0956	*24	-0.0342	9219	Ic	52	Nga	10L+CV-04
ASAS021752+0222.4	2457331.1072	*1*31	+0.0516	12597.5	B	91	Nga	20SC+ST-402
ASAS021752+0222.4	2457331.1073	*1*31	+0.0517	12597.5	B	91	Nga	20SC+ST-402
ASAS021752+0222.4	2457331.1091	*1*31	+0.0535	12597.5	B	91	Nga	20SC+ST-402
ASAS022014-0252.0	2457321.0535	*1*29	-0.0245	8418.5	Ic	115	Nga	10L+CV-04
ASAS023833-1417.9	2457353.9786	*32	-0.0022	12444	Ic	125	Nga	10L+CV-04
ASAS041353-0113.0	2457360.9936	*35	+0.1184	15443	B	95	Nga	20SC+ST-402
ASAS041353-0113.0	2457360.9951	*35	+0.1199	15443	V	99	Nga	20SC+ST-402
ASAS041353-0113.0	2457360.9956	*35	+0.1204	15443	Ic	97	Nga	20SC+ST-402
ASAS093547-1335.2	2457066.0400	*9	+0.0268	14803	Ic	112	Nga	10L+CV-04
ASAS110951-0931.7	2457060.1189	*8	-0.0082	12937	Ic	87	Nga	10L+CV-04
ASAS110951-0931.7	2457068.1415	*8	-0.0078	12957	Ic	103	Nga	10L+CV-04
ASAS142124+1813.1	2457132.3294	*14	+0.1075	16183	V	411	Kai	28SC+ST-7XME
ASAS142124+1813.1	2457132.4489	*1*14	+0.0888	16183.5	V	411	Kai	28SC+ST-7XME
ASAS142124+1813.1	2457132.5713	*14	+0.0730	16184	V	411	Kai	28SC+ST-7XME
ASAS145340-0107.8	2457144.0506	*1*15	-0.0186	9000.5	Ic	100	Nga	10L+CV-04
ASAS151151+1201.5	2457133.5053	*17	+0.0007	17329	V	208	Kai	28SC+ST-7XME
ASAS151151+1201.5	2457133.6420	*1*17	+0.0003	17329.5	V	208	Kai	28SC+ST-7XME

Observers

Heo / Horie Tsuneo
Hsk / Hirosawa Kenji
Ida / Ida Miyoshi
Ioh / Itoh Hiroshi
Kai / Kasai Kiyoshi
Kis / Kiyota Seiichiro
Kit / Kanai Kiyotaka
Mdy / Maeda Yutaka
Mhh / Maehara Hiroyuki
Nga / Nagai Kazuo
Sae / Saito Keiko
Set / Chris Stephan
Siz / Shiokawa Kazuhiko

Remarks

- 1 secondary minimum
- 2 min=2448500.0343+0.431915xE (Hipparcos catalogue)
- 3 min=2451871.051+0.313197xE (ASAS-3 catalogue)
- 4 min=2447587.3599+0.559355xE (IBVS 3360)
- 5 min=2451886.073+0.308538xE (ASAS-3 catalogue)
- 6 min=2448501.57+1.7622xE (Hipparcos catalogue)
- 7 min=2448348.658+1.37418454xE (IBVS 3999)
- 8 min=2451870.98+0.401109xE (ASAS-3 catalogue)
- 9 min=2451869.05+0.351075xE (ASAS-3 catalogue)
- 10 min=2448500.296+0.376565xE (Hipparcos catalogue)
- 11 min=2447240.97128+2.73236xE (IBVS4272)
- 12 min=2448501.09+2.0487xE (Hipparcos catalogue)
- 13 min=2448500.083+0.82522xE (Hipparcos catalogue)
- 14 min=2452660.147+0.276344xE (ASAS-3 catalogue)
- 15 min=2451920.17+0.580401xE (ASAS-3 catalogue)
- 16 min=2448500.196+0.31244xE (Hipparcos catalogue)
- 17 min=2452383.799+0.274090xE (ASAS-3 catalogue)
- 18 min=2451746.5126+0.2942801xE (IBVS4975)
- 19 min=2448500.196+0.477547xE (Hipparcos catalogue)
- 20 min=2452056.3775+0.315408xE (IBVS5192)
- 21 min=2448500.026+0.532676xE (Hipparcos catalogue)
- 22 min=2448500.516+0.52169xE (Hipparcos catalogue)
- 23 min=2448500.522+0.767323xE (Hipparcos catalogue)
- 24 min=2451869.08+0.58662xE (ASAS-3 catalogue)
- 25 min=2451868.898+0.256486xE (ASAS-3 catalogue)
- 26 min=2451885.89+0.401198xE (ASAS-3 catalogue)
- 27 min=2448500.251+0.440794xE (Hipparcos catalogue)
- 28 min=2448500.194+0.379917xE (Hipparcos catalogue)
- 29 min=2451904.11+0.64346xE (ASAS-3 catalogue)
- 30 min=2451904.43+0.63152xE (ASAS-3 catalogue)
- 31 min=2451904.04+0.430801xE (ASAS-3 catalogue)
- 32 min=2451868.79+0.44079xE (ASAS-3 catalogue)
- 33 min=2451904.11+0.64346xE (ASAS-3 catalogue)
- 34 min=2451872.900+0.339580xE (ASAS-3 catalogue)
- 35 min=2451928.80+0.35175xE (ASAS-3 catalogue)
- 36 min=2452104.30+0.82423xE (ASAS-3 catalog)
- 37 minII=2457094.4311+8.809700xE (AAVSO VSX, K.Kasai, 2014)
- 38 minI=2457106.3762+8.809700xE (AAVSO VSX, K.Kasai, 2014)
- 39 minI=2456713.26180+1.70993xE (AAVSO VSX, K.Kasai, 2014)
- 40 min=2448500.357+0.399957xE (Hipparcos catalogue)
- 41 min=2442776.961+1.199839xE (R.Dequinze, J.AAVSO 19,1990)
- 42 min=2451501.10674970+0.5272429xE (IBVS4937)

cG magnitude means G plane of DSLR camera.

VSOLJ

c/o Keiichi Saijo National Science Museum, Ueno-Park, Tokyo Japan

Editor Seeichiro Kiyota

e-mail:skiyotax@gmail.com

Publishing Masahiko Momose
