

Variable Star Bulletin

Visual and CCD minima of eclipsing binaries during 2011

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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	2455828.0111		+0.0494	7006	cG	159	Hsk	16L+EosKissX3
TW And	2455866.0295		-0.0590	527	cG	169	Hsk	13R+EosKissX3
XZ And	2455563.9386		-0.0209	2257	cG	38	Hsk	16L+EosKissX3
XZ And	2455842.1809		-0.0270	2462	cG	198	Hsk	13R+EosKissX3
XZ And	2455885.617		-0.025	2494	vis	19	Set	
AA And	2455851.1746		-0.0076	3583	Rc	411	Siz	35SC+ST-9E
AB And	2455820.1270	*1	-0.0065	10003.5	Rc	467	Siz	35SC+ST-9E
AB And	2455820.2919		-0.0076	10004	Rc	467	Siz	35SC+ST-9E
CN And	2455845.1688		-0.0109	11120	V	300	Ioh	30SC+DSI-ProII
GZ And	2455577.437		+0.000	10089	V	30	Kai	28SC+ST7XME
LO And	2455811.0462	*1	-0.0069	8702.5	Rc	409	Siz	35SC+ST-9E
LO And	2455811.2357		-0.0076	8703	Rc	409	Siz	35SC+ST-9E
OO Aql	2455753.1129	*1	+0.0509	33820.5	Rc	198	Nga	20SC+SV-04LE
OO Aql	2455817.9810	*1	+0.0501	33948.5	cG	125	Hsk	16L+EosKissX3
V724 Aql	2455779.106	*1	-0.205	36637.5	V	143	Ioh	30SC+DSI-ProII
V1331 Aql	2455741.105	*1	-0.159	9625.5	cG	29	Nga	EosKissDigital
V1331 Aql	2455754.0694		-0.1543	9635	Rc	201	Nga	20SC+SV-04LE
V1490 Aql	2455760.2202	*37	-0.2908	3101	V	420	Ioh	30SC+DSI-ProII
V1700 Aql	2455760.0841	*1	+0.0247	950.5	Rc	166	Nga	20SC+SV-04LE
ST Aqr	2455811.977		-0.009	4240	Rc	36	Nga	20SC+SV-04LE
ST Aqr	2455811.977		-0.009	4240	Ic	28	Nga	10L+CV-04
UU Aqr	2455752.1613		-0.0003	19881	C	305	Kis	20SC+E47+
UU Aqr	2455753.1424		-0.0007	19887	C	225	Kis	20SC+E47+
CX Aqr	2455784.0948		-0.0079	5906	Rc	222	Siz	35SC+ST-9E
CX Aqr	2455888.614		-0.015	6094	vis	20	Set	
DD Aqr	2455818.0851		-0.0248	3536	Rc	133	Nga	20SC+SV-04LE
RX Ari	2455913.591		+0.053	17011	vis	19	Set	
SS Ari	2455570.534	*1	+0.003	7562.5	vis	15	Set	
SS Ari	2455585.555	*1	+0.003	7599.5	vis	18	Set	
SS Ari	2455842.1255	*1	-0.0079	8231.5	Rc	469	Siz	35SC+ST-9E
SS Ari	2455842.3277		-0.0087	8232	Rc	469	Siz	35SC+ST-9E

star	min.		O-C	E	color	n	obs.	inst.
SS Ari	2455856.542		-0.004	8267	vis	14	Set	
SS Ari	2455885.579	*1	+0.005	8338.5	vis	20	Set	
SS Ari	2455913.592	*1	+0.006	8407.5	vis	24	Set	
BN Ari	2455614.973	*1	-0.024	13659.5	cG	87	Hsk	16L+EosKissX3
SX Aur	2455917.590		-0.009	2824	vis	28	Set	
WW Aur	2455913.114		-0.001	1351	vis	36	Kit	5B7B
ZZ Aur	2455838.2317		-0.0031	5552	cG	119	Hsk	13R+EosKissX3
AH Aur	2455629.3062	*1	-0.0093	6332.5	V	47	Kai	28SC+ST7XME
AH Aur	2455892.1691	*1	-0.0111	6864.5	V	320	Ioh	30SC+DSI-ProII
AP Aur	2455566.1594		+0.0741	8966	V	853	Ioh	30SC+DSI-ProII
AR Aur	2455900.094		+0.019	822	vis	35	Kit	5B7B
EM Aur	2455895.0539		-0.0044	766	Rc	268	Siz	35SC+ST-9E
EM Aur	2455926.0278		-0.0040	783	V	485	Ioh	30SC+DSI-ProII
EM Aur	2455926.9446	*1	+0.0018	783.5	V	156	Ioh	30SC+DSI-ProII
EP Aur	2455563.1094		-0.0013	5182	V	400	Ioh	30SC+DSI-ProII
HL Aur	2455923.1190		-0.0026	5498	V	665	Ioh	30SC+DSI-ProII
KO Aur	2455890.1605	*50	+0.0003	2572	V	544	Ioh	30SC+DSI-ProII
KO Aur	2455890.1608	*50	+0.0006	2572	Rc	590	Siz	35SC+ST-9E
TY Boo	2455664.0717		-0.0027	4609	Rc	413	Siz	35SC+ST-9E
TY Boo	2455664.2305	*1	-0.0025	4609.5	Rc	413	Siz	35SC+ST-9E
TZ Boo	2455716.655		+0.145	2541	vis	20	Set	
VW Boo	2455652.2130	*1	-0.0018	9208.5	Rc	416	Siz	35SC+ST-9E
VW Boo	2455653.0669		-0.0037	9211	Rc	476	Siz	35SC+ST-9E
VW Boo	2455653.2399	*1	-0.0019	9211.5	Rc	476	Siz	35SC+ST-9E
VW Boo	2455667.620	*1	+0.001	9253.5	vis	14	Set	
GN Boo	2455657.1121	*1	+0.0136	2127.5	Rc	470	Siz	35SC+ST-9E
GN Boo	2455657.2608		+0.0115	2128	Rc	470	Siz	35SC+ST-9E
GW Boo	2455698.3703	*1	-0.1881	5474.5	V	63	Kai	28SC+ST7XME
GW Boo	2455702.3597		-0.1856	5482	V	40	Kai	28SC+ST7XME
GW Boo	2455711.3947		-0.1874	5499	V	56	Kai	28SC+ST7XM
SV Cam	2455625.606		+0.058	21972	vis	23	Set	
AL Cam	2455927.0571		-0.0329	22220	Rc	419	Siz	35SC+ST-9E
AO Cam	2455867.0873		-0.1184	34273	Rc	477	Siz	35SC+ST-9E
AO Cam	2455867.2532	*1	-0.1175	34273.5	Rc	477	Siz	35SC+ST-9E
FN Cam	2455677.3724	*28	+0.0657	10599	V	77	Kai	28SC+ST7XME
LR Cam	2455599.3668	*19	-0.0656	8347	V	61	Kai	28SC+ST7XME
LR Cam	2455601.3228	*1*19	-0.0632	8351.5	V	39	Kai	28SC+ST7XME
RW Com	2455690.0881		-0.0058	66012	cG	116	Hsk	16L+EosKissX3
RW Com	2455716.666		-0.011	66124	vis	15	Set	
SS Com	2455656.1438		+0.1201	74259	Rc	508	Siz	35SC+ST-9E
SS Com	2455716.616	*1	+0.118	74405.5	vis	17	Set	
AO Cam	2455907.0050		-0.1207	34394	Rc	301	Siz	35SC+ST-9E
RZ Cas	2455577.146		+0.057	10355	vis	59	Tmy	8B
RZ Cas	2455577.147		+0.058	10355	vis	63	Kze	8B
RZ Cas	2455577.147		+0.058	10355	vis	65	Yda	8B
RZ Cas	2455577.150		+0.061	10355	vis	64	Aiy	8B
RZ Cas	2455577.16		+0.07	10355	vis	54	Sio	8B
RZ Cas	2455585.522		+0.066	10362	vis	16	Set	
RZ Cas	2455608.2254		+0.0600	10381	cG	30	Kun	NikonD80
RZ Cas	2455618.9787		+0.0561	10390	cG	44	Hsk	EosKissX3
RZ Cas	2455907.043		+0.066	10631	vis	52	Kit	7B
RZ Cas	2455916.603		+0.064	10639	vis	22	Set	
TV Cas	2455815.131		-0.039	6186	vis	28	Oet	7B
TV Cas	2455815.139		-0.031	6186	vis	23	Tad	7B
TV Cas	2455815.141		-0.029	6186	vis	33	Imi	7B
TV Cas	2455815.141		-0.029	6186	vis	35	Ngj	7B

star	min.		O-C	E	color	n	obs.	inst.
TV Cas	2455815.145		-0.025	6186	vis	26	Iri	7B
TV Cas	2455815.146		-0.024	6186	vis	22	Kwi	7B
EP Cas	2455858.0472		-0.0373	34027	cG	198	Hsk	13R+EosKissX3
IR Cas	2455892.0031		+0.0075	19874	cG	190	Hsk	13R+EosKissX3
MN Cas	2455833.1483		+0.0104	7046	Rc	514	Siz	35SC+ST-9E
MN Cas	2455834.110	*1	+0.01	7046.5	Rc	277	Siz	35SC+ST-9E
V523 Cas	2455883.0837		+0.0921	62744	Rc	509	Siz	35SC+ST-9E
V523 Cas	2455883.2001	*1	+0.0916	62744.5	Rc	509	Siz	35SC+ST-9E
V523 Cas	2455883.3178		+0.0925	62745	Rc	509	Siz	35SC+ST-9E
V651 Cas	2455834.2184	*43	+0.4844	9433	V	440	Ioh	30SC+DSI-ProII
U Cep	2455860.2184		+0.1797	4540	cG	173	Hsk	EosKissX3
WZ Cep	2455785.0244	*1	-0.1095	66462.5	Rc	220	Siz	35SC+ST-9E
EG Cep	2455888.602		+0.001	24410	vis	20	Set	
RW Cet	2455912.9165	*1	-0.0032	14031.5	Rc	26	Nga	20SC+SV-04LE
TV Cet	2455904.9491		+0.0026	1607	Ic	57	Nga	10L+CV-04
TW Cet	2455892.635	*1	-0.021	42667.5	vis	21	Set	
TW Cet	2455913.547	*1	-0.022	42733.5	vis	20	Set	
TW Cet	2455919.568	*1	-0.021	42752.5	vis	15	Set	
XY Cet	2455890.042	*1	-0.002	6299.5	vis	35	Kit	12B
DY Cet	2455881.958	*1*49	-0.050	16746.5	Ic	67	Nga	10L+CV-04
R CMa	2455607.9670		+0.0949	9964	Ic	48	Nga	10L+CV-04
R CMa	2455927.168		+0.097	10245	vis	36	Kit	5B7B
RT CMa	2455869.2445		+0.5690	22603	V	146	Kis	20SC+E47+
TZ CMa	2455618.612		-0.185	14907	vis	12	Set	
XZ CMi	2455625.618		-0.012	22773	vis	18	Set	
YY CMi	2455570.591		+0.028	25180	vis	19	Set	
YY CMi	2455588.0828		+0.0154	25196	Ic	88	Nga	10L+CV-04
YY CMi	2455926.134		+0.015	25505	vis	36	Kit	12B
AG CMi	2455923.1168		-0.1582	12751	Rc	301	Siz	35SC+ST-9E
BB CMi	2455566.0319	*1*16	-0.0298	3866.5	Ic	127	Kis	20SC+E47+
BB CMi	2455566.0362	*1*16	-0.0255	3866.5	Ic	128	Kis	20SC+E47+
CW CMi	2455607.9945	*1*18	-0.0557	9924.5	Rc	124	Nga	20SC+SV-04LE
CW CMi	2455615.0423	*18	-0.0538	9947	Rc	96	Nga	20SC+SV-04LE
CZ CMi	2455569.9681	*1	+0.0670	7583.5	Rc	204	Nga	20SC+SV-04LE
CZ CMi	2455570.1808		+0.0665	7584	Rc	204	Nga	20SC+SV-04LE
FF Cnc	2455569.2238	*5	-0.1987	4942	Rc	395	Siz	35SC+ST-9E
AS CrB	2455657.994		+0.012	8534	Rc	304	Siz	35SC+ST-9E
AS CrB	2455658.1831	*1	+0.0107	8534.5	Rc	304	Siz	35SC+ST-9E
V Crt	2455660.598		-0.002	20317	vis	14	Set	
DF CVn	2455572.2132	*1*6	+0.0675	15298.5	Rc	331	Siz	35SC+ST-9E
DF CVn	2455655.0812	*6	+0.0689	15552	Rc	534	Siz	35SC+ST-9E
DF CVn	2455655.2463	*1*6	+0.0706	15552.5	Rc	534	Siz	35SC+ST-9E
DF CVn	2455667.3414	*1*6	+0.0707	15589.5	V	51	Kai	28SC+ST7XME
RZ Com	2455624.1045	*1	-0.1250	61407.5	Rc	472	Siz	35SC+ST-9E
RZ Com	2455624.2734		-0.1253	61408	Rc	472	Siz	35SC+ST-9E
SW Cyg	2455842.9925		-0.3226	3056	cG	223	Hsk	13R+EosKissX3
WZ Cyg	2455786.1122		+0.0636	25597	V	308	Ioh	30SC+DSI-ProII
ZZ Cyg	2455815.0147		-0.0595	17204	cG	179	Hsk	16L+EosKissX3
CV Cyg	2455788.1987		+0.1150	25926	V	450	Ioh	30SC+DSI-ProII
DK Cyg	2455734.1192	*1	+0.0922	37677.5	Rc	339	Siz	35SC+ST-9E
V401 Cyg	2455702.1767	*1	+0.0755	20364.5	Rc	307	Siz	35SC+ST-9E
V401 Cyg	2455758.1200	*1	+0.0775	20460.5	V	600	Ioh	30SC+DSI-ProII
V401 Cyg	2455758.991		+0.074	20462	V	551	Ioh	30SC+DSI-ProII
V1018 Cyg	2455760.1353		-0.0918	13327	Rc	370	Siz	35SC+ST-9E
TY Del	2455783.1731		+0.0560	10766	V	301	Ioh	30SC+DSI-ProII
FZ Del	2455814.9666	*1	-0.0288	31269.5	Rc	129	Nga	20SC+SV-04LE

star	min.		O-C	E	color	n	obs.	inst.
KO Del	2455810.4011	*47	-0.0039	26247	V	79	Kai	28SC+ST7XME
KO Del	2455815.3619	*1*47	-0.0015	26255.5	V	89	Kai	28SC+ST7XME
KO Del	2455820.3188	*47	-0.0030	26264	V	90	Kai	28SC+ST7XME
KO Del	2455820.3186	*47	-0.0032	26264	Rc	91	Kai	28SC+ST7XME
KO Del	2455827.3193	*47	-0.0026	26276	V	63	Kai	28SC+ST7XME
KO Del	2455827.3193	*47	-0.0026	26276	Rc	67	Kai	28SC+ST7XME
KO Del	2455831.4024	*47	-0.0030	26283	V	98	Kai	28SC+ST7XME
KO Del	2455831.4031	*47	-0.0023	26283	Rc	98	Kai	28SC+ST7XME
KO Del	2455831.4041	*47	-0.0013	26283	Ic	98	Kai	28SC+ST7XME
KO Del	2455834.3195	*47	-0.0033	26288	V	101	Kai	28SC+ST7XME
KO Del	2455834.3193	*47	-0.0028	26288	Rc	101	Kai	28SC+ST7XME
KO Del	2455834.3198	*47	-0.0023	26288	Ic	102	Kai	28SC+ST7XME
KO Del	2455838.4030	*47	-0.0025	26295	V	113	Kai	28SC+ST7XME
KO Del	2455838.4033	*47	-0.0022	26295	Ic	116	Kai	28SC+ST7XME
MR Del	2455784.0893	*1*39	-0.0016	13961.5	Rc	116	Nga	20SC+SV-04LE
MR Del	2455787.9986	*39	-0.0050	13969	Rc	51	Nga	20SC+SV-04LE
UX Eri	2455906.9521		+0.1871	31406	Rc	158	Nga	20SC+SV-04LE
YY Eri	2455565.9561	*1	+0.1403	43497.5	Ic	76	Nga	10L+CV-04
YY Eri	2455585.565	*1	+0.138	43558.5	vis	17	Set	
YY Eri	2455863.1811		+0.1440	44422	V	357	Kis	20SC+E47+
YY Eri	2455870.0933	*1	+0.1440	44443.5	Ic	43	Nga	10L+CV-04
YY Eri	2455887.128	*1	+0.140	44496.5	vis	43	Kit	12B
YY Eri	2455892.116		+0.144	44512	vis	59	Kit	12B
YY Eri	2455892.601	*1	+0.147	44513.5	vis	16	Set	
YY Eri	2455916.550		+0.145	44588	vis	16	Set	
YY Eri	2455919.603	*1	+0.144	44597.5	vis	16	Set	
YY Eri	2455924.592		+0.149	44613	vis	22	Set	
BC Eri	2455911.0264	*54	+0.0600	8364	Rc	50	Nga	20SC+SV-04LE
BC Eri	2455914.9901	*1*54	+0.0694	8371.5	Rc	126	Nga	20SC+SV-04LE
BC Eri	2455921.0464	*54	+0.0624	8383	Rc	104	Nga	20SC+SV-04LE
BV Eri	2455924.8886		-0.1790	24574	Rc	88	Nga	20SC+SV-04LE
BZ Eri	2455571.9625	*1	+0.0028	45189.5	Ic	56	Nga	10L+CV-04
BZ Eri	2455886.1150	*1	+0.0028	45662.5	Rc	136	Nga	20SC+SV-04LE
BZ Eri	2455916.0065	*1	+0.0067	45707.5	Rc	81	Nga	20SC+SV-04LE
AE For	2455564.9012	*1*15	-0.1979	7693.5	Ic	150	Kis	20SC+E47+
AE For	2455832.1016	*1*15	-0.2039	7984.5	V	104	Kis	20SC+E47+
AE For	2455866.0739	*1*15	-0.2063	8021.5	V	164	Kis	20SC+E47+
RW Gem	2455599.9632		-0.0034	13016	cG	107	Hsk	16L+EosKissX3
AC Gem	2455570.1415		-0.2957	10308	V	493	Ioh	30SC+DSI-ProII
AF Gem	2455618.580		-0.063	22884	vis	17	Set	
AF Gem	2455654.632		-0.073	22913	vis	25	Set	
AY Gem	2455579.1742		-0.0488	6205	V	612	Ioh	30SC+DSI-ProII
GX Gem	2455892.1643	*52	-0.5042	881	Rc	281	Siz	35SC+ST-9E
LO Gem	2455571.1598	*8	+0.0020	1372	V	322	Ioh	30SC+DSI-ProII
V367 Gem	2455568.1741				V	630	Ioh	30SC+DSI-ProII
SZ Her	2455717.1405		-0.0229	16933	Rc	316	Siz	35SC+ST-9E
V1055 Her	2455695.0873	*1*33	+0.0054	11536.5	Rc	319	Siz	35SC+ST-9E
V1055 Her	2455695.2435	*33	+0.0039	11537	Rc	319	Siz	35SC+ST-9E
V1055 Her	2455696.034	*1*33	+0.006	11539.5	Rc	299	Siz	35SC+ST-9E
V1055 Her	2455696.1896	*33	+0.0038	11540	Rc	299	Siz	35SC+ST-9E
V1055 Her	2455700.1359	*1*33	+0.0075	11552.5	Rc	386	Siz	35SC+ST-9E
V1073 Her	2455690.0350	*1*32	+0.0219	13400.5	Rc	351	Siz	35SC+ST-9E
V1073 Her	2455690.1808	*32	+0.0206	13401	Rc	351	Siz	35SC+ST-9E
DF Hya	2455569.2930	*1	+0.0499	73899.5	V	514	Ioh	30SC+DSI-ProII
DF Hya	2455632.614		+0.061	74091	vis	22	Set	
DF Hya	2455652.938	*1	+0.054	74152.5	cG	131	Hsk	16L+EosKissX3
DF Hya	2455654.600	*1	+0.063	74157.5	vis	21	Set	

star	min.		O-C	E	color	n	obs.	inst.
DI Hya	2455632.647		-0.022	39756	vis	21	Set	
EU Hya	2455572.1709		-0.0339	27558	V	414	Ioh	30SC+DSI-ProII
EU Hya	2455576.0616		-0.0343	27563	Ic	110	Nga	10L+CV-04
FG Hya	2455593.0691	*1	-0.0785	32409.5	Ic	82	Nga	10L+CV-04
SW Lac	2455827.1229	*1	-0.1028	32900.5	Rc	395	Siz	35SC+ST-9E
SW Lac	2455885.643		-0.114	33083	vis	19	Set	
VX Lac	2455880.9945		+0.0788	9886	cG	150	Hsk	13R+EosKissX3
PP Lac	2455829.050		-0.056	25510	Rc	106	Siz	35SC+ST-9E
PP Lac	2455832.0584	*1	-0.0565	25517.5	Rc	559	Siz	35SC+ST-9E
PP Lac	2455832.2591		-0.0563	25518	Rc	559	Siz	35SC+ST-9E
UU Leo	2455633.9687		+0.1717	6094	cG	140	Hsk	13R+EosKissX3
UV Leo	2455632.592		+0.037	28649	vis	17	Set	
UZ Leo	2455619.0874	*1	+0.2180	25594.5	Rc	887	Siz	35SC+ST-9E
UZ Leo	2455632.622	*1	+0.156	25616.5	vis	26	Set	
WZ Leo	2455566.1624		+0.1561	17362	Rc	389	Siz	35SC+ST-9E
XX Leo	2455568.2016		+0.0323	25129	Rc	391	Siz	35SC+ST-9E
XZ Leo	2455589.2655		+0.0530	21659	V	559	Ioh	30SC+DSI-ProII
AG Leo	2455576.2081		+0.1352	8526	Rc	347	Siz	35SC+ST-9E
AM Leo	2455592.0567	*1	+0.0115	35808.5	V	197	Kis	20SC+E47+
AP Leo	2455651.0359	*1	-0.0313	37444.5	Rc	105	Nga	20SC+SV-04LE
GV Leo	2455674.3733		+0.0526	10947	V	73	Kai	28SC+ST-7XME
GV Leo	2455676.3749	*1	+0.0538	10954.5	V	64	Kai	28SC+ST-7XME
GV Leo	2455678.3747		+0.0531	10962	V	39	Kai	28SC+ST-7XME
V Lep	2455583.9849		+0.3167	34305	Ic	91	Nga	10L+CV-04
Z Lep	2455882.1437		-0.1775	28638	C	252	Kis	20SC+E47+
ES Lib	2455700.1247	*1	+0.0986	17406.5	Rc	144	Nga	20SC+SV-04LE
XY LMi	2455688.330	*1	-0.008	7602.5	V	41	Kai	28SC+ST7XME
XY LMi	2455689.406		-0.024	7605	V	81	Kai	28SC+ST7XME
XY LMi	2455691.3766	*1	-0.0196	7609.5	V	70	Kai	28SC+ST7XME
RZ Lyn	2455573.1587		-0.1234	26096	Rc	358	Siz	35SC+ST-9E
RZ Lyn	2455581.1899		-0.1207	26103	Rc	350	Siz	35SC+ST-9E
SW Lyn	2455891.2628		+0.0558	18501	cG	143	Hsk	13R+EosKissX3
SX Lyn	2455582.1291		+0.0105	5015	Rc	313	Siz	35SC+ST-9E
TZ Lyr	2455766.0336		+0.0049	20766	cG	145	Hsk	16L+EosKissX3
V563 Lyr	2455737.0917	*1*36	+0.0240	8719.5	V	272	Ioh	30SC+DSI-ProII
RW Mon	2455568.0541		-0.0728	11483	Rc	151	Nga	20SC+SV-04LE
HI Mon	2455570.0287	*1	-0.0074	16040.5	Ic	111	Nga	10L+CV-04
V453 Mon	2455574.1369	*9	+0.0059	6015	V	466	Ioh	30SC+DSI-ProII
V502 Oph	2455700.1253	*1	-0.1496	32038.5	cG	25	Nga	EosKissDigital
V508 Oph	2455754.1836		-0.0203	30951	V	310	Ioh	30SC+DSI-ProII
V508 Oph	2455768.149	*1	-0.019	30991.5	V	227	Ioh	30SC+DSI-ProII
V566 Oph	2455734.0821		+0.1711	33927	Rc	381	Nga	20SC+SV-04LE
V839 Oph	2455752.0471		-0.1527	37418	Rc	201	Nga	20SC+SV-04LE
V2610 Oph	2455741.1057		+0.0207	7904	Rc	133	Nga	20SC+SV-04LE
ER Ori	2455585.544		+0.097	32969	vis	17	Set	
ER Ori	2455614.9667	*1	+0.0938	33038.5	cG	76	Hsk	16L+EosKissX3
ER Ori	2455618.568		+0.096	33047	vis	17	Set	
ER Ori	2455919.608		+0.100	33758	vis	17	Set	
EW Ori	2455908.1084		-0.0274	4089	Rc	285	Siz	35SC+ST-9E
FR Ori	2455566.1013		+0.0282	31369	Rc	136	Nga	20SC+SV-04LE
FT Ori	2455913.0688		+0.0170	4623	Rc	651	Siz	35SC+ST-9E
FZ Ori	2455618.608	*1	-0.062	28986.5	vis	18	Set	
FZ Ori	2455866.2086	*1	-0.0530	29605.5	V	392	Ioh	30SC+DSI-ProII
V1848 Ori	2455918.0891		-0.0035	6952	Rc	161	Nga	20SC+SV-04LE
V1848 Ori	2455919.0239	*1	-0.0009	6955.5	Rc	53	Nga	20SC+SV-04LE
V1848 Ori	2455919.9515		-0.0056	6959	Rc	185	Nga	20SC+SV-04LE
V1848 Ori	2455920.0889	*1	-0.0013	6959.5	Rc	185	Nga	20SC+SV-04LE

star	min.		O-C	E	color	n	obs.	inst.
V1848 Ori	2455921.9523	*1	-0.0024	6966.5	Rc	155	Nga	20SC+SV-04LE
V1848 Ori	2455921.9525	*1	-0.0022	6966.5	Ic	192	Kis	20SC+E47+
V1848 Ori	2455922.0837		-0.0042	6967	Rc	155	Nga	20SC+SV-04LE
V1848 Ori	2455923.0185	*1	-0.0016	6970.5	Rc	77	Nga	20SC+SV-04LE
delta Ori	2455584.0297		-0.0078	2043	cG	13	Nga	EosKissDigital
AT Peg	2455831.9643	*1	+0.0137	9259.5	Rc	146	Nga	20SC+SV-04LE
BX Peg	2455856.555		-0.121	41585	vis	13	Set	
GP Peg	2455813.0354		-0.0484	14939	Rc	313	Siz	35SC+ST-9E
XZ Per	2455571.9411		-0.0553	10476	cG	54	Hsk	16L+EosKissX3
IU Per	2455863.1749		+0.0047	11962	V	73	Ioh	30SC+DSI-ProII
IU Per	2455863.1785		+0.0083	11962	Rc	531	Siz	35SC+ST-9E
KR Per	2455854.2019		-0.0199	20215	Rc	296	Siz	35SC+ST-9E
KW Per	2455861.0357		+0.0135	14450	Rc	666	Siz	35SC+ST-9E
V432 Per	2455882.1662	*1	-0.0520	62229.5	V	429	Ioh	30SC+DSI-ProII
beta Per	2455625.577		+0.110	3482	vis	15	Set	
RV Psc	2455838.1698		-0.0527	56782	Rc	378	Siz	35SC+ST-9E
RV Psc	2455888.575		-0.061	56873	vis	17	Set	
SZ Psc	2455827.750		-0.822	5065	V	9	Kis	25L+ST-10
SZ Psc	2455835.6804		-0.8236	5067	V	82	Kis	25L+ST-10
UV Psc	2455889.9824		-0.0169	14498	Rc	137	Nga	20SC+SV-04LE
VZ Psc	2455813.0095	*1	+0.0482	45870.5	V	215	Kis	20SC+E47+
VZ Psc	2455814.0523	*1	+0.0462	45874.5	Ic	63	Nga	10L+CV-04
VZ Psc	2455842.0079	*1	+0.0549	45981.5	Rc	76	Nga	20SC+SV-04LE
AQ Psc	2455891.9131	*51	+0.1748	23819	Rc	75	Nga	20SC+SV-04LE
DV Psc	2455861.0111	*45	+0.0430	12883	Rc	112	Nga	20SC+SV-04LE
DV Psc	2455878.9046	*45	+0.0413	12941	Ic	47	Nga	10L+CV-04
DV Psc	2455886.0029	*45	+0.0433	12964	V	540	Ioh	30SC+DSI-ProII
UZ Pup	2455623.9700		-0.0070	13852	cG	63	Hsk	16L+EosKissX3
VY Pup	2455567.1113		-0.0866	34988	V	366	Ioh	30SC+DSI-ProII
MP Pup	2455580.2053	*12	+0.0642	6225	V	284	Ioh	30SC+DSI-ProII
TX Pyx	2455572.1688	*14	-0.0392	5458	Ic	151	Kis	20SC+E47+
RT Scl	2455899.9182		-0.0421	24336	V	147	Kis	20SC+E47+
V893 Sco	2455659.1854				C	407	Kis	20SC+E47+
AS Ser	2455683.1121		+0.2161	58698	Rc	419	Siz	35SC+ST-9E
AU Ser	2455665.1740	*1	-0.1061	28312.5	Rc	379	Siz	35SC+ST-9E
CC Ser	2455668.1436		-0.0649	35245	Rc	454	Siz	35SC+ST-9E
Y Sex	2455596.0858	*1	+0.2050	32941.5	Ic	81	Nga	10L+CV-04
Y Sex	2455597.1345		+0.2042	32944	Ic	101	Nga	10L+CV-04
Y Sex	2455631.9781	*1	-0.0074	33027.5	Ic	102	Nga	10L+CV-04
VY Sex	2455626.1006	*1*20	+0.0208	7049.5	Ic	42	Nga	10L+CV-04
VY Sex	2455656.0319	*20	+0.0204	7117	Rc	143	Nga	20SC+SV-04LE
XX Sex	2455629.9971		+0.0119	6138	Rc	133	Nga	20SC+SV-04LE
XX Sex	2455634.0525	*1	+0.0165	6145.5	Rc	109	Nga	20SC+SV-04LE
CW Sge	2455753.1883	*1	+0.0439	27639.5	V	335	Ioh	30SC+DSI-ProII
CW Sge	2455764.0857		+0.0455	27656	Rc	198	Siz	35SC+ST-9E
RW Tau	2455917.573		-0.247	3696	vis	23	Set	
RZ Tau	2455590.9625		+0.0630	43097	cG	50	Hsk	16L+EosKissX3
RZ Tau	2455599.2750		+0.0620	43117	V	51	Kai	28SC+ST7XME
RZ Tau	2455600.3143	*1	+0.0621	43119.5	V	46	Kai	28SC+ST7XME
TY Tau	2455891.0408		+0.2572	32207	Rc	476	Siz	35SC+ST-9E
WY Tau	2455598.3078		+0.0577	26266	V	31	Kai	28SC+ST7XME
WY Tau	2455643.3371		+0.0577	26331	V	81	Kai	28SC+ST7XME
WY Tau	2455922.1729	*1	+0.0582	26733.5	V	596	Ioh	30SC+DSI-ProII
AC Tau	2455843.2374		+0.0842	4995	cG	173	Hsk	13R+EosKissX3
AH Tau	2455578.3909	*1	-0.1318	73693.5	V	27	Kai	28SC+ST7XME
AH Tau	2455899.9192		-0.1343	74660	Rc	380	Siz	35SC+ST-9E

star	min.		O-C	E	color	n	obs.	inst.
AH Tau	2455900.0867	*1	-0.1331	74660.5	Rc	380	Siz	35SC+ST-9E
EQ Tau	2455570.569		-0.024	44990	vis	19	Set	
EQ Tau	2455885.627		-0.031	45913	vis	22	Set	
EQ Tau	2455910.0387	*1	-0.0255	45984.5	Rc	402	Siz	35SC+ST-9E
EQ Tau	2455910.2091		-0.0258	45985	Rc	402	Siz	35SC+ST-9E
GR Tau	2455833.0533		-0.0400	26195	V	219	Kis	20SC+E47+
GR Tau	2455888.0726		-0.0419	26323	Rc	244	Siz	35SC+ST-9E
GW Tau	2455887.1808		-0.0865	60791	V	460	Ioh	30SC+DSI-ProII
GW Tau	2455925.0185		-0.0872	60850	V	536	Ioh	30SC+DSI-ProII
V1128 Tau	2455578.4447	*1*13	-0.0154	23179.5	V	43	Kai	28SC+ST7XME
V1128 Tau	2455595.3930	*13	-0.0153	23235	V	35	Kai	28SC+ST7XME
V1128 Tau	2455861.2183	*1*13	-0.0174	24105.5	V	383	Ioh	30SC+DSI-ProII
V1130 Tau	2455569.8971	*1*4	-0.0308	8849.5	Ic	74	Nga	10L+CV-04
V1130 Tau	2455901.0245	*4	-0.0354	9264	Ic	57	Nga	10L+CV-04
V1130 Tau	2455905.0215	*4	-0.0328	9269	Rc	80	Nga	20SC+SV-04LE
V1241 Tau	2455920.9482	*1	+0.0171	34483.5	Ic	62	Nga	10L+CV-04
V Tri	2455856.544		-0.002	53626	vis	13	Set	
X Tri	2455828.2180		-0.0798	13716	cG	140	Hsk	16L+EosKissX3
X Tri	2455901.0826		-0.0803	13791	Rc	421	Siz	35SC+ST-9E
X Tri	2455917.6599		-0.0191	13808	vis	21	Set	
RV Tri	2455573.9388		-0.0332	12659	cG	39	Hsk	16L+EosKissX3
RV Tri	2455885.9547		-0.0352	13073	cG	147	Hsk	13R+EosKissX3
VV UMa	2455625.581		-0.043	14272	vis	18	Set	
VV UMa	2455660.619		-0.061	14323	vis	16	Set	
AA UMa	2455642.3879		-0.1811	31995	V	79	Kai	28SC+ST7XME
AA UMa	2455661.3325	*1	-0.1956	32035.5	V	74	Kai	28SC+ST7XME
KM UMa	2455575.1128	*7	-0.0182	12376	Rc	251	Siz	35SC+ST-9E
KM UMa	2455580.2183	*1*7	-0.0147	12390.5	Rc	486	Siz	35SC+ST-9E
AH Vir	2455654.621		-0.174	24147	vis	20	Set	
AH Vir	2455673.3668		-0.1738	24193	V	72	Kai	28SC+ST7XME
AH Vir	2455672.3497	*1	-0.1721	24190.5	V	25	Kai	28SC+ST7XME
AZ Vir	2455675.9628		-0.0221	33459	Rc	265	Siz	35SC+ST-9E
AZ Vir	2455676.1367	*1	-0.0230	33459.5	Rc	265	Siz	35SC+ST-9E
AZ Vir	2455679.9825	*1	-0.0236	33470.5	Rc	368	Siz	35SC+ST-9E
AZ Vir	2455680.1581		-0.0228	33471	Rc	368	Siz	35SC+ST-9E
BF Vir	2455677.0881	*1	+0.0961	14996.5	Rc	68	Nga	20SC+SV-04LE
BH Vir	2455658.0764	*1	-0.0088	15213.5	Rc	130	Nga	20SC+SV-04LE
BH Vir	2455676.058	*1	+0.002	15235.5	cG	29	Nga	EosKissDigital
CG Vir	2455703.0569	*1	-0.3327	25817.5	Rc	55	Nga	20SC+SV-04LE
HT Vir	2455676.0221		+0.0166	17602	Rc	177	Nga	20SC+SV-04LE
HW Vir	2455657.0844	*24	-0.0057	85046	Rc	95	Nga	20SC+SV-04LE
HW Vir	2455657.1433	*1*24	-0.0051	85046.5	Rc	95	Nga	20SC+SV-04LE
LU Vir	2455665.014	*26	-0.094	14555	cG	29	Nga	EosKissDigital
LU Vir	2455666.023	*26	-0.071	14557	cG	31	Nga	EosKissDigital
AD Vul	2455850.262		-0.420	2930	V	92	Kai	28SC+ST7XME
AW Vul	2455828.9970		-0.0140	11834	cG	158	Hsk	16L+EosKissX3
BU Vul	2455820.0206		+0.0198	39168	cG	188	Hsk	13R+EosKissX3
ASAS001343+0656.3	2455878.897	*1*48	-0.057	4198.5	Rc	113	Nga	20SC+SV-04LE
ASAS001556+0644.7	2455862.0111	*1*44	+0.0483	9910.5	Rc	122	Nga	20SC+SV-04LE
ASAS010327-1210.4	2455865.9902	*1*46	-0.0252	6813.5	Ic	41	Nga	10L+CV-04
ASAS010932+2239.3	2455585.258	*11	-0.009	5986.5	V	40	Kai	28SC+ST7XME
ASAS010932+2239.3	2455577.3508	*1*11	-0.0068	5970.5	V	52	Kai	28SC+ST7XME
ASAS022810-0659.4	2455905.9769	*1*53	+0.0081	10913.5	Rc	56	Nga	20SC+SV-04LE
ASAS033959+0314.5	2455568.987	*10	+0.004	12905	cG	105	Hsk	16L+EosKissX3
ASAS033959+0314.5	2455571.9556	*1*10	+0.0045	12915.5	cG	50	Hsk	16L+EosKissX3
ASAS033959+0314.5	2455573.9348	*1*10	+0.0048	12922.5	cG	31	Hsk	16L+EosKissX3
ASAS033959+0314.5	2455574.9230	*10	+0.0035	12926	cG	82	Hsk	16L+EosKissX3
ASAS050902+0516.0	2455918.0686	*55	+0.0502	3776	Rc	161	Nga	20SC+SV-04LE

star	min.		O-C	E	color	n	obs.	inst.
ASAS050902+0516.0	2455923.9766	*1*55	+0.0699	3782.5	Ic	151	Kis	20SC+E47+
ASAS053222+2521.1	2455653.3311	*31	+0.0048	9863	V	57	Kai	28SC+ST7XME
ASAS053222+2521.1	2455671.309	*1*31	+0.002	9921.5	V	40	Kai	28SC+ST7XME
ASAS061056-0722.2	2455568.0595	*3	+0.1191	9668	Ic	83	Nga	10L+CV-04
ASAS061531+1935.4	2455604.2950	*1*17	-0.0089	10361.5	V	52	Kai	28SC+ST7XME
ASAS061531+1935.4	2455632.3597	*17	-0.0088	10459	V	81	Kai	28SC+ST7XME
ASAS061531+1935.4	2455644.3050	*1*17	-0.0089	10500.5	V	68	Kai	28SC+ST7XME
ASAS064753-1642.9	2455566.036	*2	-0.042	2005	Ic	88	Nga	10L+CV-04
ASAS072030+2340.2	2455618.9381	*1*22	-0.0059	6900.5	cG	68	Hsk	16L+EosKissX3
ASAS083251+1333.7	2455660.3414	*1*29	-0.0075	5999.5	V	73	Kai	28SC+ST7XME
ASAS085710+1856.8	2455668.3223	*27	-0.0127	10465	V	47	Kai	28SC+ST7XME
ASAS085710+1856.8	2455669.3402	*1*27	-0.0133	10468.5	V	39	Kai	28SC+ST7XME
ASAS093547-1335.2	2455633.9909	*21	+0.0126	10724	Ic	78	Nga	10L+CV-04
ASAS110004+0544.0	2455652.948	*1*23	-0.103	9104.5	Rc	136	Nga	20SC+SV-04LE
ASAS110004+0544.0	2455653.123	*23	-0.105	9105	Rc	136	Nga	20SC+SV-04LE
ASAS122613+0533.9	2455665.0546	*25	-0.0297	4685	Rc	75	Nga	20SC+SV-04LE
ASAS131820+2452.3	2455690.349	*34	+0.012	7220	V	44	Kai	28SC+ST7XME
ASAS164631-0838.5	2455757.0065	*1*38	-0.0293	12922.5	cG	145	Hsk	16L+EosKissX3
ASAS164631-0838.5	2455758.0375	*38	-0.0327	12926	cG	156	Hsk	16L+EosKissX3
ASAS164631-0838.5	2455759.0741	*1*38	-0.0304	12929.5	cG	111	Hsk	16L+EosKissX3
ASAS174705+2058.1	2455739.3772	*35	-0.2408	5898	V	29	Kai	28SC+ST7XME
ASAS174705+2058.1	2455740.4020	*35	-0.2442	5900	V	42	Kai	28SC+ST7XME
ASAS174705+2058.1	2455748.3752	*1*35	-0.2398	5915.5	V	52	Kai	28SC+ST7XME
ASAS174705+2058.1	2455758.4007	*35	-0.2396	5935	V	121	Kai	28SC+ST7XME
ASAS223112-0704.9	2455811.0125	*40	+0.0032	11597	Ic	82	Nga	10L+CV-04
ASAS223540+0252.9	2455820.0234	*1*41	+0.1148	11146.5	Rc	58	Nga	20SC+SV-04LE
ASAS223540+0252.9	2455832.9468	*41	+0.1128	11183	Rc	126	Nga	20SC+SV-04LE
ASAS223707+0252.5	2455832.9789	*42	-0.0175	6620	Rc	120	Nga	20SC+SV-04LE

Observers

Aiy / Arai Kyouzuke
 Hsk / Hirosawa Kenji
 Imi / Ikegami Akiko
 Ioh / Itoh Hiroshi
 Iri / Isokawa Risa
 Kai / Kasai Kiyoshi
 Kwi / Kawamura Takumi
 Kis / Kiyota Seiichiro
 Kit / Kanai Kiyotaka
 Kun / KOGAKUIN UNIVERSITY Natural Science Club
 Kze / Kitsunozuka Tetsuya
 Nga / Nagai Kazuo
 Ngj / Nagata Yoshiki
 Oet / Osonoe Toshiyuki
 Set / Chris Stephan
 Sio / Suzuki Atsuko
 Siz / Shiokawa Kazuhiko
 Tad / Taroda Akira
 Tmy / Tomono Yayoi
 Yda / Yamada Masahiro

Remarks

- 1 secondary minimum
- 2 min=2451869.86+1.84350xE (ASAS-3 catalog)
- 3 min=2451869.36+0.382559xE (ASAS-3 catalog)
- 4 min=2448500.319+0.798871xE (Hipparcos catalog)
- 5 min=2449030.430+1.323147xE (IBVS 3859)
- 6 min=2450571.219+0.326890xE (IBVS 5021)
- 7 min=2451220.4869+0.351862xE (IBVS 4810)
- 8 min=2452500.914+2.237787xE (J.M. Kreiner, 2004, AA 54)
- 9 min=2452500.4597+0.51100105xE (J.M. Kreiner, 2004, AA 54)
- 10 min=2451920.623+0.282709xE (ASAS-3 catalog)
- 11 min=2452626.02+0.494320xE (ASAS-3 catalog)
- 12 min=2449361.828+0.9989258xE (M.E.Baldwin et. al.,JAAVSO 23, 1994)
- 13 min=2448500.062+0.3053732xE (Hipparcos catalog)
- 14 min=2452500.707+0.5627521xE (J.M.Kreiner,2004,AA54)
- 15 min=2448500.6581+0.918235xE (Hipparcos catalog)
- 16 min=2452500.4447+0.79286616xE (J.M.Kreiner,2004,AA54)
- 17 min=2452621.829+0.287842xE (ASAS-3 catalog)
- 18 min=2452500.199+0.3131494xE (J.M.Kreiner, 2004, AA 54)
- 19 min=2451975.6040+0.4341474xE (IBVS5132)
- 20 min=2452500.1065+0.44343192xE (Gazeas,K.D. et. al., 2006AcA,56,127G)
- 21 min=2451869.05+0.351075xE (ASAS-3 catalog)
- 22 min=2452622.74+0.434201xE (ASAS-3 catalog)
- 23 min=2452433.90+0.353578xE (ASAS-3 catalog)
- 24 min=2445730.5565+0.116719582xE (Cakirli and Devlen (1999))
- 25 min=2452094.88+0.762050xE (ASAS-3 catalog)
- 26 min=2448500.453+0.492247xE (Hipparcos catalog)
- 27 min=2452622.863+0.291015xE (ASAS-3 catalog)
- 28 min=2448500.427+0.677128xE (Hipparcos catalog)
- 29 min=2452623.15+0.506242xE (ASAS-3 catalog)
- 30 min=2448500.163+0.407672xE (Hipparcos catalog)
- 31 min=2452621.805+0.307363xE (ASAS-3 catalog)
- 32 min=2451746.5126+0.2942801xE (IBVS4975)
- 33 min=2452056.3775+0.315408xE (IBVS5192)
- 34 min=2452653.98+0.420548xE (ASAS-3 catalog)
- 35 min=2452707.35+0.514118xE (ASAS-3 catalog)
- 36 min=2450700.3444+0.577639xE (IBVS4696)
- 37 min=2450749.295+1.6160xE (IBVS4540)
- 38 min=2451938.114+0.295525xE (ASAS-3 catalog)
- 39 min=2448500.516+0.52169xE (Hipparcos catalog)
- 40 min=2451872.900+0.339580xE (ASAS-3 catalog)
- 41 min=2451872.71+0.354120xE (ASAS-3 catalog)
- 42 min=2451872.78+0.598220xE (ASAS-3 catalog)
- 43 min=2446430.3159+0.996864xE (IBVS2868)
- 44 min=2451885.89+0.401198xE (ASAS-3 catalog)
- 45 min=2451886.073+0.308538xE (ASAS3 catalog)
- 46 min=2451869.08+0.58662xE (ASAS-3 catalog)
- 47 min=2440499.375+0.583344xE (BRNO O-C gateway, 8/Nov/2011)
- 48 min=2451886.39+0.950950xE (ASAS-3 catalog)
- 49 min=2448500.251+0.440794xE (Hipparcos catalog)
- 50 min=2452500.4396+1.3179318xE (J.M.Kreiner, 2004, AA 54)
- 51 min=2444562.4691+0.475640xE (IBVS5463)
- 52 min=2452334.75+4.0385xE (IBVS5357)
- 53 min=2451869.72+0.36984xE (ASAS-3 catalog)
- 54 min=2451501.10674970+0.5272429xE (IBVS4937)
- 55 min=2452497.34+0.905900xE (ASAS-3 catalog)

Additional report of 1995 and 2010

star	min.		O-C	E	color	n	obs.	inst.
UU Aqr	2450008.034		+0.000	-15234	C	13	Kis	20SC+ST-6
UU Aqr	2450010.9786		+0.0004	-15216	C	48	Kis	20SC+ST-6
UU Aqr	2450015.9827	*1	+0.0153	-15185.5	C	42	Kis	20SC+ST-6
UU Aqr	2450018.0125		+0.0003	-15173	C	44	Kis	20SC+ST-6
RZ Cas	2455540.098		+0.062	10324	vis	32	Ykg	7B
RZ Cas	2455540.098		+0.062	10324	vis	47	Szu	7B
RZ Cas	2455540.099		+0.063	10324	vis	32	Kei	7B
RZ Cas	2455540.100		+0.064	10324	vis	33	Imi	7B
RZ Cas	2455540.101		+0.065	10324	vis	16	Mog	7B
RZ Cas	2455540.101		+0.065	10324	vis	15	Aro	7B
RZ Cas	2455540.101		+0.065	10324	vis	57	Sim	7B
RZ Cas	2455540.102		+0.066	10324	vis	24	Kwo	7B
RZ Cas	2455540.102		+0.066	10324	vis	25	Sza	7B
RZ Cas	2455540.108		+0.072	10324	vis	39	Ngj	7B

cG magnitude means G plane of DSLR camera.

VSOLJ

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