

Variable Star Bulletin

Visual and CCD minima of eclipsing binaries during 2002

Kazuo Nagai

E-mail: PXS10547@nifty.ne.jp

Received 2003 Feb. 02

Following table is summary of minima of eclipsing binary reported from VSOLJ members in 2002.

No	Star	Min.	O-C	E	color	n	Obs.	Inst.
001	AA	And	2452583.9598	-0.0828	24279	V	60	Njh 25SC+CV-04
002	AB	And	2452577.0593	-0.0128	49617	V	87	Njh 25SC+CV-04
003	AD	And	2452535.9919	-0.0247	13723	V	39	Njh 25SC+CV-04
004	BL	And	2452543.0029	-0.0007	18188	V	65	Njh 25SC+CV-04
005	BX	And	2452560.1376	-0.0308	26276	V	85	Njh 25SC+CV-04
006	CN	And	2452507.0663	-0.0815	23617	V	25	Njh 25SC+CV-04
007	CN	And	2452563.9847	-0.0870	23740	V	108	Njh 25SC+CV-04
008	DS	And	2452543.1287	+0.0043	16230	V	76	Njh 25SC+CV-04
009	DS	And	2452633.0632	+0.0026	16319	V	104	Njh 25SC+CV-04
010	S	Ant	2452636.227	+0.060	26986	v	54	Kit 7B
011	OO	Aql	2452502.0357	*1 +0.0218	27405.5	Rc	64	Nga 10L+CV-04
012	XZ	Aql	2452501.0889	+0.1252	4954	Rc	66	Nga 10L+CV-04
013	V346	Aql	2452494.1001	-0.0078	9559	V	142	Njh 25SC+CV-04
014	V417	Aql	2452498.0779	+0.0844	25617	Rc	136	Nga 10L+CV-04
015	EE	Aqr	2452516.0875	*1 +0.0058	22961.5	Rc	103	Nga 10L+CV-04
016	EL	Aqr	2452497.2312	+0.0025	27026	Rc	111	Nga 10L+CV-04
017	GK	Aqr	2452550.0353	*9 +0.1187	22347	V	81	Njh 25SC+CV-04
018	GK	Aqr	2452551.0153	*9 +0.1165	22350	V	22	Njh 25SC+CV-04
019	GK	Aqr	2452552.0047	*9 +0.1237	22353	V	65	Njh 25SC+CV-04
020	GK	Aqr	2452552.9845	*9 +0.1213	22356	V	63	Njh 25SC+CV-04
021	GK	Aqr	2452557.0772	*1*9 +0.1213	22368.5	V	65	Njh 25SC+CV-04
022	GK	Aqr	2452558.0594	*1*9 +0.1213	22371.5	V	131	Njh 25SC+CV-04
023	RY	Aqr	2452496.0892	-0.0602	5935	Rc	90	Nga 10L+CV-04
024	ST	Aqr	2452529.089	*1 -0.028	14459.5	Rc	125	Nga 10L+CV-04
025	ST	Aqr	2452582.9911	*1 -0.0144	14528.5	Ic	272	Kis 25SC+AP-7
026	SS	Ari	2452522.2125	-0.1918	33237	V	63	Njh 25SC+CV-04
027	SS	Ari	2452574.9876	-0.1959	33367	V	99	Njh 25SC+CV-04
028	EM	Aur	2452577.2534	-0.1668	11847	v	103	Njh 25SC+CV-04
029	HL	Aur	2452621.9794	-0.0070	43427	V	222	Njh 25SC+CV-04
030	HL	Aur	2452622.2899	*1 -0.0077	43427.5	V	222	Njh 25SC+CV-04
031	MN	Aur	2452639.1988	*1*D +0.0171	4836.5	V	165	Njh 25SC+CV-04
032	AC	Boo	2452340.1251	*1 -0.1455	75373.5	V	103	Njh 25SC+CV-04
033	AC	Boo	2452340.3003	-0.1465	75374	V	103	Njh 25SC+CV-04
034	TY	Boo	2452342.2617	+0.0782	56320	V	92	Njh 25SC+CV-04
035	TZ	Boo	2452320.2547	+0.0813	42695	V	69	Njh 25SC+CV-04
036	TZ	Boo	2452321.2980	*1 +0.0845	42698.5	V	123	Njh 25SC+CV-04
037	WZ	Cap	2452558.0771	*1 +0.0555	86664.5	Ic	249	Kis 25SC+AP-7

038	RZ	Cas	2452516.098	+0.037	7794	v	16	Zzy	7B
039	RZ	Cas	2452516.104	+0.043	7794	v	15	Mdu	7B
040	RZ	Cas	2452516.104	+0.043	7794	v	35	Ygh	7B
041	RZ	Cas	2452516.105	+0.044	7794	v	34	Nya	7B
042	RZ	Cas	2452516.106	+0.045	7794	v	29	Sab	7B
043	RZ	Cas	2452516.106	+0.045	7794	v	38	Fsd	7B
044	RZ	Cas	2452516.106	+0.045	7794	v	33	Yak	8B
045	RZ	Cas	2452516.106	+0.045	7794	v	16	Ugn	7B
046	RZ	Cas	2452516.108	+0.047	7794	v	29	Imm	7B
047	RZ	Cas	2452516.109	+0.048	7794	v	15	Kgb	7B
048	RZ	Cas	2452516.111	+0.050	7794	v	19	Tay	7B
049	RZ	Cas	2452522.090	+0.052	7799	v	7	Sga	8B
050	RZ	Cas	2452528.076	+0.062	7804	v	12	Sga	8B
051	RZ	Cas	2452553.1564	+0.0423	7825	C	71	Fuy	ST-7+50mm(Telephoto)
052	RZ	Cas	2452557.940	+0.045	7829	v	30	Kit	7B
053	RZ	Cas	2452559.133	+0.043	7830	v	47	Kit	7B
054	RZ	Cas	2452577.062	+0.043	7845	v	47	Kit	7B
055	RZ	Cas	2452583.035	+0.040	7850	v	65	Fum	7B
056	RZ	Cas	2452583.036	+0.041	7850	v	35	Ima	7B
057	RZ	Cas	2452583.037	+0.042	7850	v	56	Imm	7B
058	RZ	Cas	2452583.039	+0.044	7850	v	68	Kme	7B
059	RZ	Cas	2452583.040	+0.045	7850	v	29	Tay	7B
060	RZ	Cas	2452583.040	+0.045	7850	v	53	Kit	7B
061	RZ	Cas	2452583.045	+0.050	7850	v	49	Ygh	7B
062	RZ	Cas	2452620.094	+0.046	7881	v	21	Kgb	7B
063	RZ	Cas	2452620.094	+0.046	7881	v	24	Ugn	7B
064	RZ	Cas	2452620.095	+0.047	7881	v	21	Wkj	7B
065	RZ	Cas	2452626.0698	+0.0457	7886	C	120	Njh	CV-04+135mm(Telephoto)
066	RZ	Cas	2452639.220	+0.048	7897	v	48	Ygh	7B
067	TV	Cas	2452527.111	-0.010	4372	v	16	Sga	8B
068	V757	Cen	2452419.9802	*1 -0.0245	29464.5	Rc	24	Nga	10L+CV-04
069	U	Cep	2452280.148	+0.125	3104	v	13	Ioh	6R
070	AA	Cet	2452620.992	-0.024	21173	v	48	Kit	7B
071	AA	Cet	2452634.935	-0.021	21199	v	27	Kit	7B
072	AA	Cet	2452636.010	-0.018	21201	v	52	Kit	7B
073	DY	Cet	2452576.0400	*1 -0.0127	9246.5	Rc	108	Nga	10L+CV-04
074	RW	Cet	2452585.0373	-0.0094	10619	Ic	181	Kis	25SC+AP-7
075	TT	Cet	2452582.0151	*1 -0.0444	41230.5	Ic	223	Kis	25SC+AP-7
076	TX	Cet	2452577.9958	+0.0120	12817	Ic	275	Kis	25SC+AP-7
077	VY	Cet	2452576.0185	*1 +0.0095	50312.5	Ic	203	Kis	25SC+AP-7
078	XY	Cet	2452637.998	-0.004	5130	v	49	Kit	12B
079	YY	Cet	2452561.0304	*8 -0.2914	9238	Rc	101	Nga	10L+CV-04
080	DE	CMA	2452278.1107	*1 +0.0332	34763.5	Ic	57	Kis	25SC+AP-7
081	R	CMA	2452325.079	+0.075	7074	v	16	Sny	4.2B
082	XZ	CMI	2452286.1774	*1 -0.0116	17003.5	Rc	66	Nga	10L+CV-04
083	XZ	CMI	2452287.039	-0.018	17005	Rc	37	Nga	10L+CV-04
084	SW	Cnc	2452283.1390	*1 -0.0576	12109.5	Ic	89	Kis	25SC+AP-7
085	WY	Cnc	2452319.1539	-0.0191	31309	V	59	Njh	25SC+CV-04
086	WX	Cnc	2452320.0945	+0.0079	21803	V	71	Njh	25SC+CV-04
087	RW	Com	2452318.0934	+0.0273	51805	V	37	Njh	25SC+CV-04
088	RW	Com	2452618.3378	-0.0254	53070	V	53	Njh	25SC+CV-04
089	RZ	Com	2452318.2464	+0.0362	51641	V	74	Njh	25SC+CV-04
090	RZ	Com	2452605.2941	+0.0308	52489	V	50	Njh	25SC+CV-04
091	SS	Com	2452365.1252	*6 +0.0062	17777	V	95	Njh	25SC+CV-04
092	RW	CrB	2452345.2405	-0.0157	15960	V	133	Njh	25SC+CV-04
093	TW	CrB	2452352.2921	+0.0296	24545	V	183	Njh	25SC+CV-04
094	SX	Crv	2452350.1271	*1 +0.0176	35790.5	Ic	95	Kis	25SC+AP-7
095	SX	Crv	2452366.1220	+0.0222	35841	Rc	33	Nga	10L+CV-04
096	W	Crv	2452357.0371	+0.0120	32749	Ic	80	Kis	25SC+AP-7
097	W	Crv	2452377.9924	+0.0109	32803	Rc	54	Nga	10L+CV-04
098	VZ	Cvn	2452370.0754	+0.0006	16012	V	183	Njh	25SC+CV-04
099	DK	Cyg	2452435.2469	+0.0546	30669	V	45	Njh	25SC+CV-04
100	V345	Cyg	2452448.1043	+0.4051	11473	V	67	Njh	25SC+CV-04
101	V388	Cyg	2452564.9562	-0.0676	12353	V	72	Njh	25SC+CV-04
102	V796	Cyg	2452434.0629	-0.0467	9749	V	103	Njh	25SC+CV-04

103	V1034	Cyg	2452569.0301	-0.0147	9858	V	82	Njh	25SC+CV-04
104	TZ	Dra	2452361.2175	-0.0089	10848	V	157	Njh	25SC+CV-04
105	AS	Eri	2452621.992	-0.008	9040	v	51	Kit	12B
106	AS	Eri	2452637.970	-0.015	9046	v	51	Kit	12B
107	AS	Eri	2452637.9797	-0.0053	9046	Rc	134	Nga	10L+CV-04
108	BC	Eri	2452607.0163	*1*B +0.0176	2097.5	Rc	67	Nga	10L+CV-04
109	BL	Eri	2452560.1248	+0.0328	56050	Ic	90	Kis	25SC+AP-7
110	BL	Eri	2452284.0570	-0.0944	55387	Ic	155	Kis	25SC+AP-7
111	BZ	Eri	2452279.0088	*1 +0.0044	40231.5	Rc	110	Nga	10L+CV-04
112	CD	Eri	2452279.9543	-0.0496	7776	Rc	29	Nga	10L+CV-04
113	CW	Eri	2452589.0530	*1 -0.0089	4149.5	Ic	281	Kis	25SC+AP-7
114	RU	Eri	2452561.1251	-0.0240	16137	Ic	135	Kis	25SC+AP-7
115	RU	Eri	2452592.1034	-0.0235	16186	Rc	110	Nga	10L+CV-04
116	VV	Eri	2452278.0024	+0.0861	16009	Ic	152	Kis	25SC+AP-7
117	WX	Eri	2452592.0535	+0.0162	30440	Ic	281	Kis	25SC+AP-7
118	WX	Eri	2452620.051	+0.022	30474	v	59	Kit	12B
119	WX	Eri	2452638.981	+0.017	30497	v	71	Kit	12B
120	YY	Eri	2452581.1647	*1 +0.1006	34213.5	Rc	122	Nga	10L+CV-04
121	YY	Eri	2452582.289	+0.100	34217	v	32	Kit	12B
122	YY	Eri	2452588.078	+0.102	34235	v	49	Kit	12B
123	YY	Eri	2452607.047	+0.103	34294	v	56	Kit	12B
124	AE	For	2452605.9710	*E +0.0784	7708	Ic	183	Kis	25SC+AP-7
125	GW	Gem	2452297.0294	+0.0198	40415	C	38	Njh	25SC+CV-04
126	GW	Gem	2452606.3156	+0.0268	40884	V	44	Njh	25SC+CV-04
127	OW	Gem	2452277.4	*2 -0.2	29	v	24	Kit	8.5R,12B
128	WW	Gem	2452592.2671	+0.0248	94	V	94	Njh	25SC+CV-04
129	AK	Her	2452350.2069	+0.0082	24112	V	67	Njh	25SC+CV-04
130	CT	Her	2452430.1624	-0.0042	5546	V	101	Njh	25SC+CV-04
131	FN	Her	2452423.0783	+0.0947	8960	V	49	Njh	25SC+CV-04
132	TT	Her	2452337.2277	+0.0267	13531	V	35	Njh	25SC+CV-04
133	V338	Her	2452382.1825	+0.0558	6656	V	46	Njh	25SC+CV-04
134	V342	Her	2452353.2832	+0.0044	19560	V	70	Njh	25SC+CV-04
135	DF	Hya	2452297.1325	-0.0189	64002	C	47	Njh	25SC+CV-04
136	DF	Hya	2452321.1002	*1 -0.0195	64074.5	Rc	55	Nga	10L+CV-04
137	EU	Hya	2452302.1536	-0.0191	23356	C	48	Njh	25SC+CV-04
138	EZ	Hya	2452279.2020	*1 -0.0949	21844.5	Rc	135	Nga	10L+CV-04
139	EZ	Hya	2452313.1357	-0.1175	21920	Rc	91	Nga	10L+CV-04
140	FG	Hya	2452297.0621	*1 -0.0626	22355.5	Rc	66	Nga	10L+CV-04
141	FG	Hya	2452299.0260	*1 -0.0657	22361.5	Rc	89	Nga	10L+CV-04
142	FG	Hya	2452300.0136	*1 -0.0616	22364.5	Rc	48	Nga	10L+CV-04
143	FG	Hya	2452341.9745	*1 -0.0632	22492.5	Rc	57	Nga	10L+CV-04
144	FG	Hya	2452343.1236	-0.0615	22496	V	173	Kis	25SC+AP-7
145	FO	Hya	2452347.1433	*3 -0.0019	16461	Ic	224	Kis	25SC+AP-7
146	QY	Hya	2452343.0862	+0.0410	13145	Rc	92	Nga	10L+CV-04
147	QY	Hya	2452344.1070	*1 +0.0387	13148.5	Rc	108	Nga	10L+CV-04
148	QY	Hya	2452347.0336	*1 +0.0419	13158.5	Rc	105	Nga	10L+CV-04
149	QY	Hya	2452349.0791	*1 +0.0410	13165.5	Rc	30	Nga	10L+CV-04
150	QY	Hya	2452350.1036	+0.0423	13169	Rc	39	Nga	10L+CV-04
151	QY	Hya	2452353.0299	+0.0452	13179	Rc	48	Nga	10L+CV-04
152	VW	Hya	2452353.1192	+0.1892	9617	Ic	162	Kis	25SC+AP-7
153	SW	Lac	2452541.0358	*1 -0.0835	22654.5	V	159	Njh	25SC+CV-04
154	SW	Lac	2452541.1961	-0.0836	22654	V	159	Njh	25SC+CV-04
155	AM	Leo	2452338.0968	+0.0024	26913	V	235	Kis	25SC+AP-7
156	AM	Leo	2452369.0055	*1 +0.0012	26997.5	Rc	44	Nga	10L+CV-04
157	AP	Leo	2452296.1798	-0.0347	29649	C	44	Njh	25SC+CV-04
158	AP	Leo	2452354.0611	*1 -0.0365	29783.5	Rc	47	Nga	10L+CV-04
159	CE	Leo	2452330.0250	-0.0069	24001	V	139	Njh	25SC+CV-04
160	CE	Leo	2452330.1755	*1 -0.0081	24001.5	V	139	Njh	25SC+CV-04
161	ET	Leo	2452349.9762	*4 +0.0100	11111	V	113	Njh	25SC+CV-04
162	ET	Leo	2452354.1291	*4 +0.0048	11123	V	127	Njh	25SC+CV-04
163	UZ	Leo	2452325.1456	+0.1353	20265	V	114	Njh	25SC+CV-04
164	UZ	Leo	2452343.0714	+0.1378	20294	V	113	Njh	25SC+CV-04
165	UZ	Leo	2452343.9962	*1 +0.1356	20295.5	V	53	Njh	25SC+CV-04
166	VZ	Leo	2452634.3176	-0.0567	19699	C	148	Mhh	20L+ST-7E
167	XX	Leo	2452345.0203	*5 -0.0001	4111	V	106	Njh	25SC+CV-04

168	XX	Leo	2452361.0425	*1*5	-0.0016	4127.5	V	81	Njh	25SC+CV-04
169	XY	Leo	2452366.9904	*1	-0.1256	25669.5	V	105	Njh	25SC+CV-04
170	XY	Leo	2452367.9823		-0.1280	25673	V	63	Njh	25SC+CV-04
171	XZ	Leo	2452353.1189		+0.0288	15024	V	112	Njh	25SC+CV-04
172	RS	Lep	2452585.2924		+0.0004	12723	V	81	Njh	25SC+CV-04
173	RT	LMi	2452337.1189	*1	-0.0041	19563.5	V	88	Njh	25SC+CV-04
174	RT	LMi	2452338.0551		-0.0052	19566	V	110	Njh	25SC+CV-04
175	RY	Lyn	2452638.1461		-0.0404	6795	C	109	Mhh	20L+ST-7E
176	TZ	Lyr	2452420.1432		+0.0023	14439	V	92	Njh	25SC+CV-04
177	BB	Mon	2452326.0157		-0.0051	35000	V	72	Njh	25SC+CV-04
178	BB	Mon	2452558.2847		-0.0016	35317	V	44	Njh	25SC+CV-04
179	BB	Mon	2452580.2666		-0.0007	35347	V	61	Njh	25SC+CV-04
180	BB	Mon	2452621.2934		-0.0050	35403	V	48	Njh	25SC+CV-04
181	RW	Mon	2452278.165		-0.043	9757	v	38	Mhh	20L
182	V453	Mon	2452327.9971		-0.0545	27812	V	76	Njh	25SC+CV-04
183	V453	Mon	2452354.0567		-0.1019	27850	Ic	211	Kis	25SC+AP-7
184	V453	Mon	2452619.2686		-0.0818	28236	V	90	Njh	25SC+CV-04
185	V527	Mon	2452300.0566		-0.0215	23009	Ic	148	Kis	25SC+AP-7
186	V501	Oph	2452422.1511		-0.0057	22223	V	120	Njh	25SC+CV-04
187	V506	Oph	2452435.0355		+0.0276	8937	V	87	Njh	25SC+CV-04
188	V508	Oph	2452421.0982		+0.0005	21284	V	129	Njh	25SC+CV-04
189	V566	Oph	2452420.1624	*1	+0.0802	25837.5	Rc	53	Nga	10L+CV-04
190	V1010	Oph	2452432.1047		-0.0802	20402	Rc	33	Nga	10L+CV-04
191	V1010	Oph	2452433.1011	*1	-0.0759	20403.5	Rc	108	Nga	10L+CV-04
192	V1010	Oph	2452435.0852	*1	-0.0761	20406.5	Rc	47	Nga	10L+CV-04
193	ER	Ori	2452297.9973	*1	+0.0298	25204.5	Rc	48	Nga	10L+CV-04
194	ET	Ori	2452293.9320		+0.0023	26931	Ic	75	Kis	25SC+AP-7
195	FZ	Ori	2452314.919		-0.062	20727	Rc	15	Nga	10L+CV-04
196	TY	Peg	2452573.0628		-0.2236	3920	V	79	Njh	25SC+CV-04
197	BB	Peg	2452541.9690		+0.0031	24281	V	169	Njh	25SC+CV-04
198	BB	Peg	2452542.1505	*1	+0.0039	24281.5	V	169	Njh	25SC+CV-04
199	BG	Peg	2452592.0063		+0.4055	3615	V	97	Njh	25SC+CV-04
200	BN	Peg	2452517.0130		+0.0027	26105	Rc	112	Nga	10L+CV-04
201	BX	Peg	2452560.9727	*1	-0.0579	29832.5	V	193	Njh	25SC+CV-04
202	BX	Peg	2452561.1123		-0.0585	29833	V	193	Njh	25SC+CV-04
203	DK	Peg	2452562.0051		+0.0624	4309	Ic	280	Kis	25SC+AP-7
204	GH	Peg	2452587.0203		+0.0058	4283	V	91	Njh	25SC+CV-04
205	GP	Peg	2452614.9680		-0.0403	11661	V	94	Njh	25SC+CV-04
206	KW	Peg	2452561.2499	*7	-0.0765	5393	V	193	Njh	25SC+CV-04
207	U	Peg	2452579.9582		-0.0895	42874	V	116	Njh	25SC+CV-04
208	U	Peg	2452580.1471	*1	-0.0879	42874.5	V	116	Njh	25SC+CV-04
209	II	Per	2452606.9381	*1	-0.0519	46575.5	v	158	Njh	25SC+CV-04
210	II	Per	2452607.1775		-0.0524	46576	v	158	Njh	25SC+CV-04
211	IU	Per	2452585.0586		+0.0094	8137	V	106	Njh	25SC+CV-04
212	KR	Per	2452598.0284		-0.0117	16946	V	121	Njh	25SC+CV-04
213	KW	Per	2452569.9602		+0.0067	10916	V	74	Njh	25SC+CV-04
214	RT	Per	2452276.968		+0.054	22252	v	15	Mhh	20L
215	V432	Per	2452588.0021	*1*C	-0.0029	105.5	V	180	Njh	25SC+CV-04
216	V432	Per	2452588.1943	*C	-0.0024	106	V	180	Njh	25SC+CV-04
217	V432	Per	2452617.9042	*1*C	+0.0010	190	V	180	Njh	25SC+CV-04
218	V432	Per	2452618.0953	*C	+0.0004	190	V	180	Njh	25SC+CV-04
219	beta	Per	2452568.967		+0.046	2416	v	20	Tcy	2B
220	beta	Per	2452568.975		+0.054	2416	v	18	Nto	2B
221	beta	Per	2452586.163		+0.038	2422	v	12	Imm	E
222	beta	Per	2452589.023		+0.031	2423	v	11	Mom	E
223	beta	Per	2452589.041		+0.049	2423	v	13	Hsk	E
224	beta	Per	2452589.043		+0.051	2423	v	18	Imm	E
225	beta	Per	2452634.921		+0.052	2439	v	17	Ygh	7B
226	VZ	Psc	2452574.9611		+0.0594	33473	Rc	152	Nga	10L+CV-04
227	BD	Scl	2452538.157		+0.027	7130	Rc	77	Nga	10L+CV-04
228	CW	Sct	2452476.9752	*1	-0.0727	13715.5	Rc	73	Nga	10L+CV-04
229	AS	Ser	2452397.0980		-0.0103	51646	Rc	64	Nga	10L+CV-04
230	AU	Ser	2452354.2438		-0.0767	19746	V	39	Njh	25SC+CV-04
231	RS	Ser	2452468.0635	*1	+0.0769	29334.5	Rc	66	Nga	10L+CV-04
232	Y	Sex	2452325.0538		-0.1974	25151	Rc	116	Nga	10L+CV-04

233	Y	Sex	2452326.1004	*1	-0.2004	25153.5	Rc	106	Nga	10L+CV-04
234	AH	Tau	2452607.9552		+0.0575	64764	V	166	Njh	25SC+CV-04
235	AH	Tau	2452608.1225	*1	+0.0585	64764.5	V	166	Njh	25SC+CV-04
236	CF	Tau	2452621.1055		-0.0796	7972	V	113	Njh	25SC+CV-04
237	CT	Tau	2452620.0908		-0.0389	10821	V	91	Njh	25SC+CV-04
238	GR	Tau	2452581.2355		-0.0237	18630	V	240	Njh	25SC+CV-04
239	GR	Tau	2452582.0956		-0.0233	18632	Rc	242	Njh	25SC+CV-04
240	GR	Tau	2452582.3057	*1	-0.0233	18632.5	Rc	242	Njh	25SC+CV-04
241	GR	Tau	2452583.1714	*1	-0.0221	18634.5	B	262	Njh	25SC+CV-04
242	GR	Tau	2452584.2448		-0.0233	18637	B	226	Njh	25SC+CV-04
243	GW	Tau	2452610.9853	*1	-0.0523	55682.5	V	51	Njh	25SC+CV-04
244	RZ	Tau	2452595.1734		+0.0414	35890	V	157	Njh	25SC+CV-04
245	WY	Tau	2452561.2499		+0.0526	21882	V	53	Njh	25SC+CV-04
246	VZ	Tri	2452591.0649	*A	-0.0621	32113.5	V	132	Njh	25SC+CV-04
247	VZ	Tri	2452604.0727	*1*A	-0.0588	32143.5	V	89	Njh	25SC+CV-04
248	VZ	Tri	2452604.9266	*1*A	-0.0719	32145.5	V	178	Njh	25SC+CV-04
249	VZ	Tri	2452605.1424	*A	-0.0728	32146	V	178	Njh	25SC+CV-04
250	VZ	Tri	2452606.0181	*A	-0.0641	32148	V	169	Njh	25SC+CV-04
251	VZ	Tri	2452606.2270	*1*A	-0.0720	32148.5	V	169	Njh	25SC+CV-04
252	VZ	Tri	2452614.0258	*1*A	-0.0759	32166.5	V	82	Njh	25SC+CV-04
253	AA	UMa	2452339.9659		+0.0226	24940	V	75	Njh	25SC+CV-04
254	W	UMa	2452575.243		-0.037	20410	v	34	Kit	7B
255	W	UMa	2452581.244		-0.041	20428	v	34	Kit	7B
256	XY	UMa	2452613.1307		+0.0252	36319	V	115	Njh	25SC+CV-04
257	AW	Vir	2452302.2508		+0.0125	20564	C	48	Njh	25SC+CV-04
258	AW	Vir	2452324.1993		+0.0132	20626	V	148	Kis	25SC+AP-7
259	AW	Vir	2452393.0519	*1	+0.0134	20820.5	Rc	78	Nga	10L+CV-04
260	AX	Vir	2452378.0570		+0.0078	35312	V	118	Njh	25SC+CV-04
261	AZ	Vir	2452370.0581	*1	-0.0181	24004.5	Ic	163	Kis	25SC+AP-7
262	BF	Vir	2452367.2164	*1	+0.0496	9829.5	V	97	Njh	25SC+CV-04
263	BF	Vir	2452368.1897		+0.0620	9831	V	111	Njh	25SC+CV-04
264	CG	Vir	2452326.2581		-0.2669	22207	V	93	Njh	25SC+CV-04
265	CG	Vir	2452416.0494		-0.2635	22303	Rc	34	Nga	10L+CV-04
266	LU	Vir	2452399.992		-0.042	7922	Rc	32	Nga	10L+CV-04
267	MS	Vir	2452361.1398	*1	-0.0335	12357.5	Rc	81	Nga	10L+CV-04
268	MS	Vir	2452370.0357		-0.0421	12386	Rc	49	Nga	10L+CV-04
269	VV	Vir	2452369.1431	*1	-0.0257	47402.5	Ic	120	Kis	25SC+AP-7
270	AW	Vul	2452432.2376		+0.0010	7622	V	42	Njh	25SC+CV-04
271	BU	Vul	2452493.1189		+0.0201	33321	V	144	Njh	25SC+CV-04
272	FR	Vul	2452431.2118		-0.0016	18527	V	59	Njh	25SC+CV-04

*1 secondary minimum

*2 min(1) = 2415779.4 + 1258.56 x Cycle (IBVS 3233)

*3 min(1) = 2444617.7658 + 0.46955710 x Cycle (M.P.Candy and B.N.Candy, 1997 RAS,MNRAS 286)

*4 min(1) = 2448499.9714 + 0.346503 x Cycle (IBVS 4702)

*5 min(1) = 2448352.705 + 0.971130 x E (JAAVSO Vol28,2000)

*6 min(1) = 2445026.5304 + 0.41280741 x E + 3.52 x 10⁻¹⁰ x E² (2001 PASP,113:754-763)

*7 min(1) = 2448158.5675 + 0.816384 x E (IBVS 3579)

*8 min(1) = 2445259.0560 + 0.7904596 x Cycle. (1986MNRAS.218..159M)

*9 min(1) = 2445233.292 + 0.3274097 x E (Kurochkin ,1986, VS 22, No3, 327)

*A min(1) = 2438670.400 + 0.4334852 x E (L. Meinunger, MVS 11, H.1,1,1986)

*B min(1) = 2451501.10674970 + 0.5272429 x cycle (IBVS 4937)

*C min(1) = 2452547.5658 + 0.3833101 x E (IBVS 5341)

*D min(1) = 2425647.3465 + 5.5808612 x E (FL 488 WR182)

*E min(1) = 2448500.026 + 0.532676 x E (HIPPARCOS cat.)

Observers

Fsd	D.Furusawa	Kme	Yusuke Kameoka	Sny	Yuji Sekino
Fum	M.Funyu	Mhh	Hiroyuki Maehara	Tay	Yoshito Tanaka
Fuy	Yoshinaka Furuya	Mdu	Kounta Mituzuka	Tcy	Y.Tsuchiyama
Hsk	Kenji Hiroosawa	Mom	Masahiko Momose	Ugn	Nahoko.Ushigome
Ima	A.Imamura	Nga	Kazuo Nagai	Wkj	Junya Wakade

Imm	Mitsunori Iwamoto	Njh	Kazuhiro Nakajima	Yak	K.Yamada
Ioh	Hiroshi Itoh	Nto	R.Naito	Ygh	Hideyasu.Yamaguchi
Kgb	Harunobu Kumagaya	Nya	Michie Nakayama	Yzy	Yuuiti Yonezawa
Kis	Seiichiro Kiyota	Sab	Hironobu Sakakibara		

VSOLJ

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

Editor Seiichiro Kiyota (e-mail:skiyota@nias.affrc.go.jp)
Publishing Masahiko Momose