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**NEW CCD TIMES OF MINIMA OF ECLIPSING BINARY SYSTEMS**

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<b>Observatory and telescope:</b>
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Chungbuk National University Observatory (CBNUO): 14-inch $f/11$ Schmidt-Cassegrain tube on a Paramount GT-1100s mount
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<b>Detector:</b>
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SBIG ST-8 CCD camera, $f/7$ focal reducer, $19' \times 12'$ FOV
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<b>Method of data reduction:</b>
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Reduction of all CCD frames was made with a customly developed IRAF <sup>1</sup> package.
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<b>Method of minimum determination:</b>
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Times of minimum light were computed with the Kwee-van Woerden method (Kwee & van Woerden 1956).
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<sup>1</sup>IRAF is distributed by the National Optical Astronomical Observatories, operated by the Association of the Universities for Research in Astronomy, inc., under cooperative agreement with the National Science Foundation

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AA And	52929.0038	2	I	V	
	52949.1039	23	II	V	
	52950.0489	9	II	V	
BD And	53345.1917	2	I	—	
	53347.0419	1	I	—	
	53347.9676	1	I	—	
	53352.1361	4	I	—	
	53638.2096	1	I	—	
	53675.2413	1	I	—	
	53690.0535	2	I	—	
	53696.0723	6	I	—	
	53696.9980	2	I	—	
BL And	52947.1761	5	I	—	
BX And	53307.2186	3	I	—	
	53323.9965	1	I	—	
CO And	53302.0420	2	I	—	
CP And	53674.2847	3	I	—	
EP And	53310.2549	4	I	—	
GZ And	53309.0268	6	I	—	
OO Aql	52904.1768	2	I	—	
RX Ari	52911.2006	2	I	—	
	52923.0394	22	II	—	
AH Aur	52654.0523	4	I	V	
	53453.0208	1	I	—	
V534 Aur	52654.0041	5	I	V	
HL Aur	53375.2080	1	I	—	
HP Aur	53436.02843	6	I	—	
IM Aur	53366.9627	6	II	—	
SX Aur	52923.2405	8	II	—	
	53432.0841	2	I	—	
	52764.2895	1	I	—	
AC Boo	52771.1622	2	II	—	
	53492.9818	8	II	—	
	53509.1857	3	II	—	
	53428.2224	2	I	—	
TZ Boo	53509.0476	5	I	—	
	53483.0532	1	II	—	
CV Boo	53511.02437	6	I	—	
SV Cam	53331.00654	9	I	—	
	53333.9720	2	I	—	
	53415.2239	3	I	—	
	53484.0196	1	I	—	
	53691.0038	6	I	—	
UU Cam	53450.0349	4	I	—	
WW Cam	53434.1063	3	I	—	
AL Cam	53326.18745	7	I	—	
AV Cam	53667.2011	7	I	—	
AW Cam	52687.0950	1	II	—	
	53302.2444	1	I	—	
	53384.0069	1	I	—	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AZ Cam	52709.2692	2	I	—	
	52793.0362	1	I	—	
	53333.2630	2	I	—	
	53494.2091	3	I	—	
TX Cnc	52711.9677	2	II	—	
	53422.9820	3	II	—	
WX Cnc	53492.0290	4	I	—	
TW Cas	53404.96907	9	I	—	
TX Cas	53413.999	2	I	—	
ZZ Cas	53388.0081	2	II	—	
AB Cas	53305.0782	2	I	—	
AL Cas	52944.2483	3	I	—	
	52950.2548	2	I	—	
	53334.1833	2	I	—	
	53347.1970	1	I	—	
	53663.0499	4	I	—	
	53667.0542	1	I	—	
	53670.0583	6	I	—	
BS Cas	53638.0055	1	I	—	
	53667.9583	3	I	—	
BU Cas	53686.2859	3	I	—	
CW Cas	52939.2389	1	II	—	
	53318.2059	1	I	—	
DN Cas	53314.2254	5	II	—	
DO Cas	52686.9869	1	I	—	
	52904.0261	3	I	—	
	53310.0345	5	I	—	
	53342.2138	2	I	—	
V380 Cas	53700.2809	3	I	—	
V445 Cas	53640.0067	2	I	—	
V523 Cas	52910.0360	1	I	—	
	53369.00991	4	I	—	
	53369.12641	6	II	—	
	53669.1890	1	II	—	
	53669.3070	3	I	—	
V541 Cas	53330.2640	1	I	—	
V651 Cas	53640.2400	3	I	—	
VW Cep	52760.2534	1	I	—	
	53313.9518	6	II	—	
	53314.0924	3	I	—	
	53316.0408	4	I	—	
	53316.1783	4	II	—	
VZ Cep	53366.0195	2	I	—	
WY Cep	52837.1523	1	I	—	
DV Cep	52931.1107	1	I	—	
	53325.02105	7	I	—	
	53484.21172	9	I	—	
	53704.98701	8	I	—	
EG Cep	52717.2809	1	I	—	
	52744.2396	2	II	—	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
EG Cep	52757.3094	3	II	—	
	52769.2918	2	II	—	
	52776.1003	4	I	—	
	53329.98078	9	I	—	
	53510.25101	9	I	—	
	53683.98597	8	I	—	
GK Cep	52912.2368	3	I	—	
	52919.2645	13	II	—	
GW Cep	53322.2222	1	I	—	
	53378.01792	8	I	—	
	53378.17693	8	II	—	
	53378.33681	8	I	—	
	53380.2497	2	I	—	
	53385.9887	5	I	—	
	53407.98776	7	I	—	
	53619.05443	6	I	—	
	NN Cep	52935.1430	3	II	—
SU Cep	53326.03819	6	I	—	
CC Com	52800.01649	5	I	—	
	53460.1993	1	I	—	
	53460.3101	1	II	—	
EK Com	53401.2687	1	I	—	
	53473.2735	7	II	—	
	53474.0735	1	I	—	
TW CrB	53448.1887	3	I	—	
BR Cyg	53499.2292	1	I	—	
	53495.23149	6	I	—	
Z Dra	53428.00202	2	I	—	
	53482.29943	4	I	—	
RZ Dra	53464.22773	7	I	—	
	53475.2454	2	I	—	
	53641.05893	8	I	—	
TZ Dra	53466.27003	7	I	—	
AR Dra	53384.2775	1	I	—	
	53443.0753	1	I	—	
AX Dra	53456.0073	1	I	—	
	53459.98414	7	I	—	
	53474.18777	6	I	—	
	53487.2564	2	I	—	
BE Dra	53456.2452	3	I	—	
	53469.3077	3	I	—	
BS Dra	53333.0237	2	I	—	
	53692.97265	8	I	—	
BV Dra	52717.0030	1	I	—	
	52717.1784	1	II	—	
BW Dra	52717.1309	1	I	—	
SX Gem	52709.01784	6	II	—	
SZ Her	52864.0214	2	II	—	
AK Her	52734.2157	2	I	—	
	52795.1275	2	II	—	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V359 Her	52718.2410	2	II	—	
XZ Leo	53421.26869	7	I	—	
CE Leo	53450.2847	1	I	—	
SX Lyn	53405.9336	26	I	—	
UV Lyn	53422.3014	3	I	—	
TZ Lyr	53477.27155	6	I	—	
FL Lyr	52911.0235	4	I	—	
FZ Ori	52957.2938	7	I	—	
RT Per	53686.97209	6	I	—	
DK Per	53299.1241	5	II	—	
DM Per	53306.0503	2	I	—	
IQ Per	52594.9767	4	I	V	
	52601.0264	6	II	V	
	52601.9503	5	I	V	
	52606.2572	5	II	V	
	53329.0185	1	I	—	
KW Per	53328.01223	9	I	—	
	53690.2701	5	I	—	
LS Per	53335.0314	8	I	—	
V432 Per	53317.2568	2	I	—	
	53686.00387	7	I	—	
	53689.0702	1	I	—	
	53693.28634	8	I	—	
DV Psc	52920.0394	1	I	—	
	52920.1955	3	II	—	
	52920.9653	5	I	—	
	52921.2735	1	I	—	
CU Sge	52933.9727	3	I	—	
RZ Tau	52580.20673	6	I	—	
AH Tau	52947.27886	7	II	—	
CT Tau	53356.2366	1	I	—	
GR Tau	53348.9474	3	I	—	
	53351.9559	2	I	—	
V781 Tau	52712.0279	6	II	—	
	53362.0065	1	I	—	
RV Tri	53676.2181	1	I	—	
	53683.00102	5	I	—	
W UMa	52687.1720	1	II	—	
	53414.99501	7	I	—	
	53420.0002	2	I	—	
	53425.0045	1	I	—	
	53425.1715	2	II	—	
	53459.0344	8	I	—	
	53461.0366	5	I	—	
XY UMa	52726.1693	1	I	—	
	53328.2676	1	I	—	
	53683.1991	2	I	—	
ZZ UMa	53352.2813	1	I	—	
AA UMa	53433.28029	5	I	—	
	53503.0298	4	I	—	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AA UMa	53510.0508	2	I	—	
W UMi	53543.1916	2	I	—	
	53680.9835	4	I	—	
RU UMi	53492.2019	1	I	—	
	53493.25151	2	I	—	
DL Vir	52726.27194	6	I	—	
AW Vul	53511.26086	8	I	—	
GP Vul	52947.9597	3	I	—	

### Remarks:

We present a total of 208 CCD timings for 103 eclipsing binaries which have been observed with a semi-automatic 35cm telescope at the Campus site of the Chungbuk National University Observatory, South Korea. The telescope equipped with a SBIG ST-8 camera has been recently established to observe systematically times of minimum light of eclipsing binaries since November, 2002.

Most of the stars in the table are members listed in the Atlas of Kreiner et al. (2001). Updated ephemeris for V534 Aur, which was recently discovered by Han et al. (2000), is as follows:

$$Min.I = HJD2451570.2412(3) + 4.^d2836529(18)E.$$

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 Kwee, K. K., & van Woerden, H., 1956, *Bull. Astron. Inst. Neth.*, **12**, 327