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NEW TIMES OF MINIMA OF SOME ECLIPSING BINARY STARS

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Observatory and telescope:

Two 30-cm Cassegrain-Schmidt telescopes of the Çanakkale University Observatory

Detector:

-ST237 camera, Peltier cooling, TC237 chip, 11' × 8' FOV, 640 × 480 pixels, (ÇUG301).
-ST10XME camera, Peltier cooling, KAF 3200ME chip, 17' × 12' FOV, 2184 × 1472 pixels, (ÇUG302).
-STL1001E camera, Peltier cooling, KAF-1001E chip, 28' × 28' FOV, 1024 × 1024 pixels, (ÇUG303).
-ALTA U47 camera, Peltier cooling, E2V CCD47-10 chip, 15' × 15' FOV, 1024 × 1024 pixels, (ÇUG304).

Method of data reduction:

Reduction of the CCD frames was made with C-MUNIPACK¹ software.

Method of minimum determination:

Kwee – van Woerden method (Kwee & van Woerden, 1956).

Times of minima:

Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
KO Aql	54993.4578	0.0004	I	V	ÇUG304
V602 Aql	54255.4377	0.0005	I	V	ÇUG302
Y Cam	54201.3678	0.0002	I	C	ÇUG301
	54224.5087	0.0003	I	V	ÇUG302
	54925.3356	0.0001	I	C	ÇUG301
	54991.4519	0.0002	I	C	ÇUG303
AB Cas	54930.3131	0.0001	I	C	ÇUG301
OX Cas	54362.3890	0.0004	II	<i>BVR_c</i>	ÇUG302
	54367.3655	0.0002	II	<i>BVR_c</i>	ÇUG302
	54428.3118	0.0004	I	<i>BVR_c</i>	ÇUG302
CW Cep	54331.4020	0.0001	II	<i>BVR_c</i>	ÇUG302
	54357.3533	0.0003	I	<i>BVR_c</i>	ÇUG302
GI Cep	54086.3182	0.0003	I	C	ÇUG301
AK Cmi	54932.3067	0.0001	I	C	ÇUG301
TW Crb	54930.3888	0.0001	I	C	ÇUG301
V370 Cyg	54932.5566	0.0002	I	C	ÇUG301
V909 Cyg	54966.3708	0.0001	II	C	ÇUG301
WW Cyg	54989.4204	0.0002	I	C	ÇUG301

¹Motl, D., 2004, C-MUNIPACK, <http://integral.sci.muni.cz/munipack/>

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
RZ Dra	54966.4644	0.0001	I	C	ÇUG301
TZ Eri	54084.4897	0.0003	I	C	ÇUG301
BC Her	54275.4998	0.0002	I	V	ÇUG302
CT Her	54961.4629	0.0002	I	V	ÇUG304
GL Her	54261.4514	0.0004	I	V	ÇUG302
SZ Her	54955.4927	0.0001	I	V	ÇUG304
TU Her	54225.3930	0.0005	II	I_c	ÇUG303
	54931.5389	0.0001	I	C	ÇUG301
TX Her	54925.4998	0.0005	I	C	ÇUG301
V338 Her	54941.4599	0.0001	I	V	ÇUG304
	54954.5176	0.0001	I	V	ÇUG304
CO Lac	54298.3185	0.0002	II	BVR_c	ÇUG302
	54338.4150	0.0003	II	BVR_c	ÇUG302
VX Lac	54111.2814	0.0001	I	C	ÇUG301
	54861.2885	0.0003	I	C	ÇUG301
RW Leo	54138.4234	0.0002	I	C	ÇUG301
	54939.3062	0.0002	I	V	ÇUG304
UU Leo	54844.4787	0.0002	I	V	ÇUG303
UX Leo	54138.4862	0.0002	I	C	ÇUG301
	54961.3398	0.0007	I	C	ÇUG301
	54966.3708	0.0001	I	V	ÇUG304
VZ Leo	54067.5363	0.0003	I	C	ÇUG301
	54962.3451	0.0003	I	C	ÇUG301
XZ Leo	54086.5432	0.0002	I	C	ÇUG301
Y Leo	54111.4376	0.0001	I	C	ÇUG301
	54869.3226	0.0007	II	I_c	ÇUG303
	54906.4333	0.0005	II	R_c	ÇUG304
	54955.3296	0.0001	II	R_c	ÇUG304
T LMi	54085.4845	0.0002	I	C	ÇUG301
	54218.3594	0.0002	I	V	ÇUG303
SX Lyn	54166.3883	0.0002	I	C	ÇUG301
EW Lyr	54224.4142	0.0001	I	V	ÇUG303
TZ Lyr	54930.4869	0.0002	I	C	ÇUG301
BO Mon	54117.3837	0.0001	I	C	ÇUG301
RW Mon	54117.5293	0.0001	I	C	ÇUG301
V839 Oph	54993.3433	0.0001	I	V	ÇUG304
EQ Ori	54116.5019	0.0003	I	C	ÇUG301
	54867.3056	0.0004	I	C	ÇUG301
FH Ori	54166.2980	0.0001	I	C	ÇUG301
RT Per	54085.3438	0.0002	I	C	ÇUG301
XZ Per	54116.2733	0.0001	I	C	ÇUG301
	54868.2952	0.0001	I	C	ÇUG301
AO Ser	54926.5017	0.0002	I	C	ÇUG301
AM Tau	54138.3095	0.0001	I	C	ÇUG301
	54841.4208	0.0003	I	V	ÇUG303
RV Tri	54110.3271	0.0002	I	C	ÇUG301
	54138.2132	0.0001	I	C	ÇUG301
V Tri	54117.3124	0.0001	I	C	ÇUG301
VV UMa	54117.4620	0.0002	I	C	ÇUG301
	54966.3794	0.0003	I	C	ÇUG301
XZ UMa	54129.3080	0.0001	I	C	ÇUG301
	54844.3556	0.0001	I	V	ÇUG303
	54954.3627	0.0004	I	V	ÇUG304
	54998.3666	0.0002	I	C	ÇUG302

Remarks:

We present 72 minima times of 46 eclipsing binaries. In the Remarks column of Times of Minima table, telescopes and detectors used in the observations are given.

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Reference:

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