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CCD TIMES OF MINIMA OF SOME ECLIPSING BINARIES IN 2002

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Observatory and telescope:

Piwnice Observatory of the Nicholas Copernicus University,
135 mm f/2.8 semi-automatic CCD camera

Detector:

SBIG ST-7 CCD Camera

Method of data reduction:

Reduction of the CCD frames was made with a software developed for the Semi-Automatic Variability Search¹ sky survey.

Method of minimum determination:

The minima times were computed with Kwee-van Woerden method (Kwee, van Woerden 1956), and in some cases with the digital tracing paper method.

Observed star(s):

Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
SX Aur	EB/KE:	05 ^h 11 ^m 43 ^s	+42°09'55"	HD 33785	40162.3355	1.2100802	1
CK Boo	EW/KW	14 ^h 35 ^m 04 ^s	+09°06'49"	GSC 910 654	42896.8759	0.3551501	1
ET Boo	EB	14 ^h 59 ^m 20 ^s	+46°49'04"	SAO 45350	52394.5564	0.6451	2
FI Boo	EW:	15 ^h 22 ^m 06 ^s	+51°10'55"	HD 137608	51718.3979	0.3899978	3
YY CrB	EW	15 ^h 50 ^m 32 ^s	+37°50'08"	HD 140847	52400.3669	0.376584	4
MR Cyg	EA/SD	21 ^h 58 ^m 57 ^s	+47°59'00"	HD 208786	33396.4069	1.67703362	1
V891 Cyg	EA/DM	19 ^h 33 ^m 38 ^s	+29°16'22"	SAO 87322	34663.449	1.9057825	1
DI Peg	EA/SD	23 ^h 32 ^m 15 ^s	+14°58'09"	SAO 108689	45196.488	0.7118168	1
W UMa	EW/KW	09 ^h 43 ^m 45 ^s	+55°57'09"	HD 83728	45765.7385	0.33363749	1
TX UMa	EA/SD	10 ^h 45 ^m 20 ^s	+45°33'58"	HD 93013	49749.3470	3.06328888	4
VV UMa	EA/SD	09 ^h 38 ^m 07 ^s	+56°01'07"	HD 83728	45815.3365	0.687380	1

Source(s) of the ephemeris:

1. Kholopov et al., 1998;
2. Present paper;
3. Pribulla et al., 2002;
4. Kreiner et al., 2001

¹For further information on SAVS see <http://www.astri.uni.torun.pl/~gm/SAVS/>.

Times of minima:						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
SX Aur	52358.7329	0.0032	I	<i>R</i>	-0.0010	
	52627.3752	0.0017	I	<i>V</i>	-0.0035	
CK Boo	52399.5141	0.0023	I	<i>V</i>	+0.0645	
	52399.6869	0.0008	II	<i>V</i>	+0.0597	
ET Boo	52394.5564	0.0026	I	<i>V</i>	+0.0000	
FI Boo	52400.3133	0.0011	II	<i>V</i>	-0.0126	
	52400.4915	0.0009	I	<i>V</i>	+0.0043	
YY CrB	52400.1796	0.0008	I	<i>V</i>	-0.0087	
	52400.3653	0.0009	II	<i>V</i>	-0.0113	
MR Cyg	52500.325	0.005	II	<i>V</i>	-0.011	
	52501.1736	0.0019	I	<i>V</i>	-0.0003	
V891 Cyg	52505.4276	0.0010	I	<i>V</i>	+0.0429	
DI Peg	52542.7862	0.0010	II	<i>V</i>	-0.007	
	52572.6843	0.0011	II	<i>V</i>	-0.0053	
	52573.0329	0.0006	I	<i>V</i>	-0.0126	
W UMa	52364.3776	0.0003	I	<i>R</i>	-0.0432	
	52364.2126	0.0006	II	<i>R</i>	-0.0414	
TX UMa	52365.3973	0.0031	I	<i>R</i>	+0.0017	
VV UMa	52364.6349	0.0006	I	<i>R</i>	-0.0582	
	52364.2754	0.0011	II	<i>R</i>	-0.0740	

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