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**CCD TIMES OF MINIMA OF SOME ECLIPSING BINARIES IN 2003**

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<b>Observatory and telescope:</b>	
Piwnice Observatory of the Nicholas Copernicus University, 135 mm f/2.8 semi-automatic CCD camera	

<b>Detector:</b>	SBIG ST-7 CCD Camera
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<b>Method of data reduction:</b>	
Reduction of the CCD frames was performed with a software developed for the Semi-Automatic Variability Search <sup>1</sup> sky survey.	

<b>Method of minimum determination:</b>	
The minima times were computed with Kwee-van Woerden method (Kwee, van Woerden 1956).	

<b>Observed star(s):</b>							
Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
CN And	EW/KW	00 <sup>h</sup> 20 <sup>m</sup> 30 <sup>s</sup>	+40° 13' 33"	HD 1547	46711.522	0.46279428	1
SX Aur	EB/KE:	05 <sup>h</sup> 11 <sup>m</sup> 42 <sup>s</sup>	+42° 09' 55"	HD 33911	18218.7639	1.21007910	1
BF Aur	EB	05 <sup>h</sup> 05 <sup>m</sup> 03 <sup>s</sup>	+41° 17' 19"	HD 33911	40628.3692	1.58321973	1
TY Boo	EW/KW	15 <sup>h</sup> 00 <sup>m</sup> 47 <sup>s</sup>	+35° 08' 00"	HD 132546	47612.6035	0.31714910	1
TZ Boo	EW/KW	15 <sup>h</sup> 08 <sup>m</sup> 09 <sup>s</sup>	+39° 58' 12"	HD 134303	43655.4984	0.29715954	1
XY Boo	EW/KW	13 <sup>h</sup> 49 <sup>m</sup> 11 <sup>s</sup>	+20° 11' 24"	SAO 83014	39953.6892	0.37055392	1
AC Boo	EW/KW	14 <sup>h</sup> 56 <sup>m</sup> 28 <sup>s</sup>	+46° 21' 44"	HD 132255	47641.586	0.35243123	1
AD Boo	EB/SD:	14 <sup>h</sup> 35 <sup>m</sup> 14 <sup>s</sup>	+24° 38' 18"	SAO 83425	44704.1934	2.06880519	1
CV Boo	EA	15 <sup>h</sup> 26 <sup>m</sup> 19 <sup>s</sup>	+36° 58' 53"	SAO 45022	38883.454	0.84699280	1
ET Boo	EB	14 <sup>h</sup> 59 <sup>m</sup> 20 <sup>s</sup>	+46° 49' 04"	HD 132255	52394.5564	0.6451	2
GSC 3472-641	EW	14 <sup>h</sup> 21 <sup>m</sup> 44 <sup>s</sup>	+46° 41' 59"	BD+47° 2136	52749.5329	0.318665	3
AW Cam	EB/KE	06 <sup>h</sup> 47 <sup>m</sup> 28 <sup>s</sup>	+69° 38' 12"	HD 48026	38738.4514	0.77134661	1
XX Cas	EA/DM	01 <sup>h</sup> 29 <sup>m</sup> 34 <sup>s</sup>	+60° 58' 04"	HD 9722	36527.6183	3.06717750	1
CQ Cep	EB/DM/WR	22 <sup>h</sup> 36 <sup>m</sup> 53 <sup>s</sup>	+56° 54' 20"	HD 214220	32456.635	1.641251	1
DM Del	EB/KE	20 <sup>h</sup> 39 <sup>m</sup> 37 <sup>s</sup>	+14° 25' 43"	SAO 106358	45523.4283	0.84467445	1
LS Del	EW/KW	20 <sup>h</sup> 57 <sup>m</sup> 10 <sup>s</sup>	+19° 38' 59"	HD 199549	47790.4284	0.36383914	1
GSC 2511-167	EW	10 <sup>h</sup> 34 <sup>m</sup> 12 <sup>s</sup>	+32° 08' 52"	HD 91987	52366.884	0.4368897	4
RZ Lyn	EB/KE	09 <sup>h</sup> 36 <sup>m</sup> 10 <sup>s</sup>	+41° 16' 54"	SAO 42927	25643.311	1.1469174	1
SW Lyn	EA/DW	08 <sup>h</sup> 07 <sup>m</sup> 41 <sup>s</sup>	+41° 48' 01"	HD 66174	43975.3863	0.644066253	1
UV Lyn	EW/KW	09 <sup>h</sup> 03 <sup>m</sup> 24 <sup>s</sup>	+38° 05' 54"	GSC 2983-1974	40271.531	0.4149798	1
BG Lyn	EB	07 <sup>h</sup> 56 <sup>m</sup> 15 <sup>s</sup>	+40° 43' 43"	HD 66469	42776.961	1.199839	5
BX Peg	EW/KW	21 <sup>h</sup> 38 <sup>m</sup> 53 <sup>s</sup>	+26° 42' 24"	HD 206124	48174.533	0.28042200	1
GP Peg	EA	23 <sup>h</sup> 06 <sup>m</sup> 45 <sup>s</sup>	+30° 55' 22"	HD 218199	41238.330	0.97561472	1

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

<b>Observed star(s):</b>							
Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
V Tri	EB/SD	01 <sup>h</sup> 31 <sup>m</sup> 47 <sup>s</sup>	+30°22'01''	HD 9445	48573.6604	0.58520570	1
RS Tri	EA/DM	01 <sup>h</sup> 34 <sup>m</sup> 49 <sup>s</sup>	+29°35'21''	HD 9445	37940.490	1.9089234	1
AK Tri	EW	02 <sup>h</sup> 24 <sup>m</sup> 39 <sup>s</sup>	+33°15'58''	HD 15127	50416.41635	0.70170	6
W UMa	EW/KW	09 <sup>h</sup> 43 <sup>m</sup> 45 <sup>s</sup>	+55°57'09''	HD 83728	35918.417	0.3336374	1
TX UMa	EA/SD	10 <sup>h</sup> 45 <sup>m</sup> 20 <sup>s</sup>	+45°33'58''	HD 93471	49749.368	3.0632939	1
VV UMa	EA/SD	09 <sup>h</sup> 38 <sup>m</sup> 06 <sup>s</sup>	+56°01'07''	HD 83728	39245.394	0.68737571	1
XY UMa	EA/DW/RS	09 <sup>h</sup> 09 <sup>m</sup> 55 <sup>s</sup>	+54°29'17''	HD 78414	35216.5018	0.47899493	1
ZZ UMa	EA/D	10 <sup>h</sup> 30 <sup>m</sup> 03 <sup>s</sup>	+61°48'41''	HD 91007	35951.484	2.2992596	1

**Source(s) of the ephemeris:**

1. Kreiner et al., 2001;
2. Karska and Maciejewski, 2003;
3. Present paper;
4. Bernasconi and Behrend, 2003;
5. Boninsegna, 1990;
6. Gomez-Forrellad and Sanchez, 1997

<b>Times of minima:</b>						
Star name	Time of min.	Error	Type	Filter	$O - C$	Rem.
	HJD 2400000+				[day]	
CN And	52963.1468	0.0008	II	V	-0.0318	
	52963.3745	0.0016	I	V	-0.0354	
SX Aur	52671.5437	0.0013	II	V	+0.0127	
	52672.1509	0.0010	I	V	+0.0148	
BF Aur	52686.2141	0.0035	I	V	+0.0434	
	52685.398	0.003	II	V	+0.019	
TY Boo	52745.8427	0.0022	II	V	+0.0225	
	52745.9967	0.0009	I	V	+0.0179	
TZ Boo	52767.4793	0.0008	II	V	+0.0293	
XY Boo	52753.5771	0.0012	II	V	+0.0291	
	52753.7581	0.0016	I	V	+0.0248	
	52753.9478	0.0012	II	V	+0.0293	
	52754.1308	0.0007	I	V	+0.0270	
	52774.6988	0.0004	II	V	+0.0292	
AC Boo	52774.8863	0.0003	I	V	+0.0315	
	52717.7662	0.0011	I	V	+0.1132	
	52717.9422	0.0005	II	V	+0.1130	
AD Boo	52745.6521	0.0012	I	V	+0.0130	
CV Boo	52750.4242	0.0006	I	V	+0.0041	
ET Boo	52718.0421	0.0006	II	V	-0.0320	
	52718.3638	0.0010	I	V	-0.0328	
	52749.5328	0.0007	I	V	+0.0000	
AW Cam	52725.6605	0.0021	II	V	-0.0047	
	52726.0434	0.0025	I	V	-0.0074	
XX Cas	52947.8024	0.0027	II	V	+0.0494	
	52949.2971	0.0034	I	V	+0.0105	
CQ Cep	52858.962	0.004	I	V	-0.064	
DM Del	52854.7056	0.0026	II	V	-0.0746	
	52855.1382	0.0012	I	V	-0.0643	

<b>Times of minima:</b>						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
LS Del	52854.9024	0.0011	II	V	+0.0151	
	52855.0924	0.0021	I	V	+0.0232	
GSC 2511-167	52997.9701	0.0018	I	V	+0.2174	
RZ Lyn	52727.7061	0.0014	I	V	-0.0593	
SW Lyn	52642.9195	0.0016	II	V	+0.0116	
	52643.2338	0.0008	I	V	+0.0038	
	52695.4032	0.0014	I	V	+0.0039	
	52712.1489	0.0005	II	V	+0.0039	
UV Lyn	52726.5818	0.0014	II	V	+0.0546	
	52726.7944	0.0018	I	V	+0.0597	
BG Lyn	52648.637	0.003	II	V	+0.001	
	52649.2322	0.0016	I	V	-0.0041	
BX Peg	52914.715	0.001	I	V	-0.072	
	52914.8564	0.0003	II	V	-0.0703	
GP Peg	52898.3872	0.0010	I	V	+0.0486	
V Tri	52944.2703	0.0011	II	V	+0.0011	
	52944.5625	0.0005	I	V	+0.0007	
RS Tri	52944.6149	0.0015	I	V	-0.0130	
AK Tri	52942.2337	0.0005	II	V	+0.0482	
	52942.5876	0.0008	I	V	+0.0513	
W UMa	52694.8466	0.0003	II	V	-0.0301	
	52695.0117	0.0003	I	V	-0.0319	
TX UMa	52702.3579	0.0005	I	V	-0.0254	
VV UMa	52694.5831	0.0009	I	V	-0.0041	
XY UMa	52694.3332	0.0035	II	V	+0.0249	
	52694.5580	0.0007	I	V	+0.0102	
	52979.556	0.002	I	V	+0.007	
ZZ UMa	52695.846	0.004	II	V	+0.004	

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