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TIMES OF MINIMA FOR NEGLECTED ECLIPSING BINARIES IN 2003

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Observatory and telescope:	
25cm catadioptric telescope at Rolling Hills Observatory (RHO)	
Detector:	CB245 camera, Peltier cooling, TI TC245 chip, 11' × 8' FOV, 252 × 242 pixels. SBIG ST-9XE, Peltier cooling, Kodak KAF-0261 chip, 18.5' × 18.5' FOV, 512 × 512 pixels.
Method of data reduction:	
Reduction of the CCD frames was done with sextractor and custom-written applications.	
Method of minimum determination:	
The times of minima were computed using the Kwee and van Woerden method as implemented in AVE ¹ .	

Observed star(s):								
Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source	
		RA	Dec		E 2400000+	P [day]		
CN And	EW/KW	00 20 30	+40 13 34	2786-406	41577.2969	0.4627959	1	
CW Aqr	EB/KE	22 19 22	−16 53 33	6378-1382	26192.548	0.542909	1	
BF Aur	EB	05 05 03	+41 17 19	2903-882	40628.3643	1.5832208	1	
FP Aur	EA	05 43 39	+30 53 32	2405-1617	25984.3629	0.947236	1	
XY Boo	EW/KW	13 49 12	+20 11 25	1466-38	39953.9621	0.37054663	1	
WY Cnc	EA/SD/RS	09 01 55	+26 41 23	1953-287	26352.3895	0.82937122	1	
TZ CMa	EA	06 41 47	−19 40 25	5957-576	27124.8709	1.911446	1	
CX CMa	EB/KE	07 22 01	−25 52 36	6541-2195	28095.6009	0.954608	1	
DE CMa	EA/KE	07 25 10	−27 19 18	6546-3662	28083.933	0.695964	1	
UZ CMi	EW/DW	07 50 52	+03 39 04	184-1703	25243.6899	0.76195	1	
AL Cas	EW	02 13 45	+70 08 43	4315-356	44490.3659	0.50055583	1	
AX Cas	EB	01 23 50	+61 34 28	4030-2086	28626.4419	0.600376	1	
IV Cas	EA/SD	23 49 31	+53 08 05	4001-1012	40854.597	0.9985245	1	
MM Cas	EA/SD	00 54 35	+54 26 36	3672-441	35401.483	1.15847	1	
V0445 Cas	EB	00 31 40	+53 12 60	3654-1723	41921.3782	0.67352	1	
SU Cep	EB/KE	21 46 41	+57 17 37	3976-1273	26325.4649	0.9014011	1	
BE Cep	EW/KW	22 41 21	+58 36 31	3996-1253	28751.3089	0.42439595	1	
IO Cep	EA/SD	21 10 31	+57 43 09	3961-333	30729.2799	1.2358073	1	
V0496 Cyg	EA/KE:	20 19 40	+35 47 08	2684-974	28805.6069	1.474915	1	

¹AVE is written by Rafeal Barbera (rbarb@astro.gea.cesca.es) and the software can be obtained from <http://www.astrogea.org/soft/ave/introave.htm>

Observed star(s):							
Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
LS Del	EW/KW	20 57 10	+19 38 52	1656-946	42687.418	0.3638	1
BV Dra	EW/KW	15 11 51	+61 51 19	4180-60	44474.327	0.3500671	1
BW Dra	EW/KW	15 11 51	+61 51 35	4180-60	42572.538	0.2921671	1
RU Eri	EB/KE	03 54 44	-14 55 59	5882-462	42359.3456	0.63219951	1
AA Eri	E	04 13 42	-11 33 30	5315-1087	24801.7999	0.50085	1
BW Eri	EB	04 06 37	-27 40 02	6462-112	43448.6839	0.6384773	1
BZ Eri	EA	04 12 13	-06 01 13	4732-1543	25558.4449	0.6641701	1
AV Gem	EA/SD	06 42 02	+13 24 57	758-2037	27832.6099	1.2216548	1
BD Gem	EA/SD:	06 34 43	+15 35 01	1329-893	27414.532	1.616727	1
FG Gem	EA	06 47 50	+16 51 55	1330-834	27102.3999	0.819129	1
CC Her	EA/SD	16 17 39	+08 55 59	946-1287	39668.342	1.7340058	1
MT Her	EB/SD:	18 21 51	+14 30 28	1022-1381	41117.4169	0.48771779	1
V0878 Her	EB	17 24 25	+49 38 34	3516-165	52118.4404	0.52947826	2
IZ Lac	EB/KE	22 13 05	+51 49 25	3618-2154	32768.515	0.798878	1
UZ Leo	EW/KE	10 40 33	+13 34 02	845-718	39800.373	0.6180428	1
AM Leo	EW/KW	11 02 11	+09 53 45	847-1357	42493.389	0.3657974	1
RZ Lyn	EB/KE	09 36 10	+41 17 01	2995-1196	25643.31	1.146918	1
UU Lyn	EB/DM	09 15 30	+42 42 16	2990-237	44674.048	0.46846016	1
DD Mon	EB/KE	06 45 57	+00 16 51	4800-1104	30321.453	0.56801193	1
GU Mon	EW	06 44 47	+00 13 20	147-1072	30345.347	0.89668149	1
IZ Mon	EB	07 00 52	+08 48 48	748-849	27344.6209	0.7798089	1
V0496 Mon	EB	06 37 45	+03 18 03	151-121	32915.4155	0.6607649	1
V0508 Oph	EW/KW	17 58 49	+13 30 39	1019-1979	45082.543	0.344792129	1
V0343 Ori	EW/DW	06 05 00	+12 33 11	725-895	33599.379	0.809126	1
V0392 Ori	EA/KE:	06 11 25	+18 33 06	1318-771	25506.62	0.659284	1
V0640 Ori	EA/SD	05 55 00	-09 22 09	5348-1219	28897.341	2.02074	1
FF Ori	EA/SD:	05 35 11	+02 57 01	118-1866	32216.367	1.810524	1
BY Peg	EW/KW	21 38 55	+28 06 45	2201-161	45565.518	0.3419372	1
KR Per	EB/KE	04 37 09	+44 12 51	2892-695	35718.4882	0.99607883	1
DS Pup	EW/KW	07 32 48	-24 58 44	6543-290	28084.628	0.3886763	1
EN Pup	EW	07 42 45	-26 36 24	6548-3387	26305.551	0.6721498	1
RZ Pyx	EB/KE	08 52 04	-27 28 59	6580-156	38431.4739	0.656273	1
AU Ser	EW/KW:	15 56 49	+22 15 37	1502-1472	44722.4744	0.38650086	1
AL Tau	EA	05 33 53	+26 01 31	1852-698	35130.4018	0.930658	1
CR Tau	EA	05 51 29	+24 03 45	1862-2270	26004.35	0.681346	1
BH UMa	EW/KE	10 45 56	+52 14 56	3449-746	45093.348	0.6986834	1
AG Vir	EW/KE	12 01 04	+13 00 31	871-330	45432.4145	0.64265075	1
CX Vir	EW	14 09 26	-15 35 07	6138-644	26092.45	0.746077	1
BK Vul	EW/KW	21 25 24	+27 51 27	2195-2142	24767.7	0.45347	1

Source(s) of the ephemeris:

1.: Kholopov et al., 1985; 2.: Agerer et al., 2002
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Times of minima:						
Star name	Time of min.	Error	Type	Filter	$O - C$	Rem.
	HJD 2400000+				[day]	
CN And	52901.8225	3	I	V	0.0590	
	52935.6071	3	I	V	0.0600	
CW Aqr	52971.5268	3	I	-	-0.0076	
BF Aur	52657.691	2	I	V	0.014	
FP Aur	52957.7890	6	I	-	-0.0663	
XY Boo	52684.8363	3	I	V	0.0036	
WY Cnc	52744.6172	1	I	V	-0.0233	
TZ CMa	52980.8107	1	I	-	-0.1903	
CX CMa	52654.7236	3	I	V	-0.0774	
DE CMa	52648.6607	5	I	-	-0.0176	
UZ CMi	52663.6934	6	II	V	0.0897	
AL Cas	52966.775	1	I	-	-0.003	
AX Cas	52992.6268	2	I	V	-0.0752	

Times of minima:						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
IV Cas	52935.703	1	I	V	-0.042	
	52964.6589	3	I	-	-0.0432	
MM Cas	52646.5415	2	I	-	0.0741	
V0445 Cas	52648.5846	2	I	-	0.0534	
SU Cep	52816.7475	4	I	V	0.0056	
BE Cep	52976.5927	3	I	-	-0.0859	
IO Cep	52894.7165	5	I	V	-0.0032	
V0496 Cyg	52750.860	1	I	V	0.008	
LS Del	52952.6005	6	I	-	0.1587	
BV Dra	52729.7820	2	II	V	0.1726	
BW Dra	52729.6943	2	I	V	-0.0329	
RU Eri	52991.6526	2	I	-	-0.0244	
AA Eri	52980.691	2	I	-	0.0685	
BW Eri	52664.5848	4	I	V	0.1195	
BZ Eri	52982.6971	3	I	-	0.0045	
CC Her	52723.8039	2	I	V	0.1322	
MT Her	52788.806	2	II	V	0.058	
V0878 Her	52743.7486	3	I	V	-0.0056	
AV Gem	52645.613	3	I	-	-0.027	
BD Gem	52966.8781	4	I	-	-0.0241	
FG Gem	52959.8128	3	I	-	-0.0323	
	52991.7589	1	I	-	-0.0323	
IZ Lac	52967.642	2	I	-	0.296	
UZ Leo	52785.5981	4	I	V	0.1459	
AM Leo	52682.8617	4	II	V	-0.0058	
RZ Lyn	52773.5830	5	I	V	-0.0723	
UU Lyn	52644.8921	3	I	-	-0.0056	
DD Mon	52695.5718	3	I	V	0.1289	
	52964.8129	2	I	-	0.1323	
GU Mon	52647.6482	4	I	-	0.0392	
IZ Mon	52992.820	2	I	V	-0.255	
V0496 Mon	52647.8098	3	I	-	0.0462	
V0508 Oph	52935.5247	4	I	V	-0.0038	
FF Ori	52682.550	1	I	V	0.020	
V0343 Ori	52683.5875	4	I	V	0.1627	
V0392 Ori	52654.6209	4	I	V	0.0043	
V0640 Ori	53000.6207	1	I	V	-0.1070	
BY Peg	52973.5522	1	I	-	-0.0352	
KR Per	52712.5783	6	I	V	-0.0108	
	52957.6093	3	I	-	-0.0152	
	52966.5746	4	I	-	-0.0146	
DS Pup	52991.8610	2	I	-	0.0783	
	53000.8011	2	I	V	0.0789	
EN Pup	52956.9100	4	I	-	-0.0527	
RZ Pyx	52660.8009	8	I	V	0.0157	
AU Ser	52673.8759	3	I	V	-0.0808	
AL Tau	52656.6115	3	I	-	0.0582	
CR Tau	53000.5484	3	I	V	-0.0928	
BH UMa	52669.875	1	I	V	0.004	
AG Vir	52747.700	1	I	V	-0.025	
CX Vir	52681.8951	8	I	V	0.0069	
BK Vul	52959.5348	6	I	-	0.0584	

References:

- Agerer, Franz, et al., 2002, *IBVS* No. 5296
Kholopov, P.N., et al., 1985, *General Catalog of Variable Stars*, 4th Eds.