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MINIMA TIMES OF SELECTED ECLIPSING BINARIES

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Observatory and telescope:

Kolonica Observatory: K1 - 2.8/180 mm photolense, K2 - 5.6/400 mm photolense, K3 - 256/1360 mm Newton, K4 - 280/1500 mm Newton, K5 - 1000/9000 mm RC, K6 - 300/2400 mm Cassegrain

Roztoky Observatory: R1 - photolense 2/200 mm, R2 - refractor 70/700 mm, R3 - 400/4000 mm Cassegrain

Astronomical Institute of the SAS: G1 - 500/2500 mm Newton, G2 - 600/6000 mm Cassegrain

David Dunlap Observatory, University of Toronto: DDO - 150 mm refractor

University Observatory Jena: GSH - 250/2250 mm Cassegrain

Detector:

K1, K2, K3, K4, R1, R2 - Meade DSI Pro, K4, K6 - SBIG ST-9XE and FLI PL1001E, K5 - two channel photoelectric photometer, G1 - SBIG ST-10XME, G2 - photoelectric photometer, DDO - SBIG ST-402 and ST-6, GSH - back-illuminated SITE TK1024

Method of data reduction:

The part of Kolonica observations and Roztoky data were reduced using C-Munipack package (<http://integral.physics.muni.cz/cmunipack/>), G1 and DDO data were analysed by scripts written under the MIDAS reduction package (<http://www.eso.org/projects/esomidass/>) by (TP). The rest of Kolonica and Jena data were reduced by scripts using Sextractor code (Bertin & Arnouts, 1996) written by (SP).

Method of minimum determination:

The minima times were computed by Kwee & van Woerden (1956) method.

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
RT And	54659.4634	0.0001	I		K1
AB And	54385.5325	0.0001	I		K1
	54680.4160	0.0002	II	V	K2
	54701.4912	0.0004	I	V	K2
CN And	54308.4784	0.0004	II		K1
	54385.3007	0.0001	II		K1
	54675.4675	0.0002	II	V	K2
	54709.4821	0.0003	I	V	K2
	54714.3435	0.0009	II		R1
EP And	54799.3940	0.0005	I	V	K3
	55042.4743	0.0002	II	V	K3
GZ And	54779.2034	0.0005	I		R1
	54779.3566	0.0002	II		R1
	55038.4709	0.0002	I	V	K3
LO And	54300.5035	0.0002	I	V	K3
	54434.4167	0.0002	I	V	K3
	54679.4224	0.0002	I		K1
	54719.3703	0.0001	I		R1
	55037.4174	0.0002	I	V	K3
V376 And	54752.3656	0.0002	II	V	K2
	54774.3113	0.0002	I	V	K2
OO Aql	53606.5916	0.0002	I		DDO
AH Aur	54433.5652	0.0003	I		K3
AR Aur	54469.4879	0.0002	I	V	K2
	54494.2967	0.0003	I		K2
	54715.4986	0.0002	II	V	K2
	54715.5004	0.0001	II		K2
	54748.5780	0.0001	II	V	K2
	54773.3864	0.0002	II	V	K2
	54775.4536	0.0001	I	V	K2
	54831.2728	0.0001	II	V	K2
V402 Aur	54749.5030	0.0003	II	V	K2
TY Boo	54507.5943	0.0004	II		K2
	54615.4260	0.0001	II	V	K3
	54912.5914	0.0005	II	V	K3
	54927.3378	0.0002	I	V	K3
TZ Boo	53868.7610	0.0003	II		DDO
	53874.7041	0.0003	II		DDO
	54173.4984	0.0002	I		K3
	54189.3978	0.0001	II	BVRI	K4
	54190.4375	0.0001	I	BVRI	K4
	54192.3696	0.0002	II	VRI	K4
	54192.5175	0.0001	I	VRI	K4
	54222.3822	0.0002	II	BVRI	K4
	54222.5230	0.0001	I	BVRI	K4

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
TZ Boo	54223.4218	0.0002	I	<i>BVRI</i>	K4
	54223.5730	0.0003	II	<i>RI</i>	K4
	54336.3451	0.0010	I		K1
	54469.6196	0.0001	II	<i>V</i>	K4
	54613.4445	0.0001	II	<i>V</i>	K4
	54883.5652	0.0002	II	<i>V</i>	K4
	54929.3273	0.0002	II	<i>V</i>	K3
	54938.5403	0.0002	II	<i>V</i>	K3
	54964.4156	0.0002	I	<i>V</i>	K4
AC Boo	54192.4074	0.0001	I	<i>V</i>	K3
	54531.6382	0.0003	II		K2
	54533.4012	0.0003	II		R2
	54942.4166	0.0001	I	<i>V</i>	K3
FI Boo	54305.4473	0.0003	II		K1
	54581.3785	0.0003	I	<i>V</i>	K2
	54581.5654	0.0007	II	<i>V</i>	K2
	54616.4727	0.0003	I		K2
	54657.4272	0.0001	I		K1
SV Cam	54597.5162	0.0003	II		K1
	54752.5978	0.0002	I	<i>V</i>	K2
AO Cam	54544.3486	0.0001	II		R2
	54556.3903	0.0001	I		R2
	54706.4967	0.0003	I	<i>V</i>	K2
	54803.4862	0.0003	I		K1
CD Cam	54189.4308	0.0005	I	<i>V</i>	K3
	54190.5802	0.0005	II	<i>V</i>	K3
	54892.4839	0.0002	I	<i>V</i>	K3
	54941.3923	0.0001	I	<i>V</i>	K3
DN Cam	54753.2766	0.0002	I	<i>V</i>	K2
FN Cam	54500.5055	0.0004	I		K2
TX Cnc	54507.3114	0.0004	II		K2
	54782.5980	0.0002	II	<i>V</i>	K2
EH Cnc	54167.3931	0.0002	I	<i>R</i>	K4
	54167.3931	0.0003	I	<i>V</i>	K4
	54892.2636	0.0002	I	<i>V</i>	K3
BI CVn	54922.3271	0.0001	II	<i>V</i>	K4
	54937.5033	0.0002	I	<i>V</i>	K4
RZ Cas	54765.5744	0.0001	I	<i>V</i>	K2
	54782.3076	0.0001	I	<i>V</i>	K2
BS Cas	54677.5122	0.0001	I		K3
	54689.4053	0.0001	I		K3
	55042.4412	0.0001	II	<i>V</i>	K4
CW Cas	54213.4051	0.0002	II	<i>R</i>	R3
	54263.3048	0.0002	I	<i>R</i>	R3
	54264.4219	0.0002	II	<i>R</i>	R3

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
CW Cas	54271.4381	0.0004	II	<i>R</i>	R3
	54279.4098	0.0003	II	<i>R</i>	R3
	54315.4410	0.0001	II	<i>V</i>	K3
	54691.5374	0.0002	I		K3
V459 Cas	54773.2794	0.0004	I	<i>V</i>	K4
V523 Cas	54314.5347	0.0004	I	<i>V</i>	K3
	54509.3177	0.0001	II		R2
	54676.4082	0.0002	II		K1
	55017.4829	0.0002	I	<i>V</i>	K3
	55030.4532	0.0001	II	<i>V</i>	K3
V651 Cas	54335.5124	0.0002	II		K1
V651 Cas	54716.2946	0.0007	II	<i>V</i>	K2
V776 Cas	54700.4962	0.0004	II	<i>V</i>	K2
VW Cep	54307.3801	0.0002	I		K1
	54384.4771	0.0001	I		K1
	54384.3291	0.0001	II		K1
	54677.3896	0.0002	II		K1
	54677.5289	0.0002	I		K1
WZ Cep	54433.3598	0.0008	II		K3
	55029.4650	0.0002	II	<i>V</i>	K3
GK Cep	53617.6425	0.0002	II		DDO
GW Cep	54500.3078	0.0003	I		K2
	54964.5261	0.0001	I	<i>V</i>	K3
RW Com	52311.4482	0.0001	I	<i>BV</i>	G2
	52338.5060	0.0004	I	<i>BV</i>	G2
	52338.6212	0.0001	II	<i>BV</i>	G2
	52339.4524	0.0001	I	<i>RI</i>	R3
	52339.5700	0.0001	II	<i>VRI</i>	R3
	52345.5055	0.0001	II	<i>VRI</i>	R3
	54149.5808	0.0002	II	<i>V</i>	K3
	54187.4373	0.0004	I	<i>R</i>	R3
	54187.5576	0.0007	II	<i>R</i>	R3
	54189.3367	0.0005	I	<i>R</i>	R3
	54189.4556	0.0006	II	<i>R</i>	R3
	54203.3413	0.0002	I	<i>R</i>	R3
	54203.4593	0.0007	II	<i>R</i>	R3
	54203.5762	0.0004	I	<i>R</i>	R3
	54209.6300	0.0002	II		DDO
	54209.7488	0.0002	I		DDO
	54211.5289	0.0008	II	<i>R</i>	R3
	54235.3797	0.0001	I	<i>R</i>	R3
	54235.4995	0.0002	II	<i>R</i>	R3
	54513.5513	0.0001	I	<i>V</i>	K4
	54523.5205	0.0007	I		R2
	54883.4563	0.0001	II	<i>V</i>	K4

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
RW Com	54891.4076	0.0001	I	<i>V</i>	K4
RZ Com	54582.3507	0.0001	II		R1
SS Com	54500.6509	0.0002	I	<i>V</i>	K4
	54556.5894	0.0001	II		R2
CC Com	54162.4189	0.0007	I	<i>V</i>	K3
	54162.5294	0.0003	II	<i>V</i>	K3
CC Com	54887.3738	0.0002	I	<i>V</i>	K4
	54964.3937	0.0001	I	<i>V</i>	K3
YY CrB	54224.4154	0.0002	I		K1
	54298.4116	0.0002	II		K2
	54300.4821	0.0010	I		K2
	54308.3892	0.0002	I		K1
	54500.6202	0.0003	II		K2
	54504.5744	0.0008	I		K2
	54513.6124	0.0006	I		K2
	54628.4650	0.0002	I		K2
	54632.4137	0.0003	II		K2
	54648.4184	0.0030	I		K2
	55017.4401	0.0003	I		K1
CG Cyg	54260.4664	0.0002	II		K1
	54657.4548	0.0002	II	<i>V</i>	K2
	54658.4020	0.0004	I	<i>V</i>	K2
	54675.4442	0.0001	I		K1
KR Cyg	54198.5565	0.0002	II	<i>BVRI</i>	K4
V401 Cyg	54677.4440	0.0004	I	<i>V</i>	K2
	54679.4954	0.0002	II	<i>V</i>	K2
	54684.4377	0.0002	I	<i>V</i>	K2
	54947.5336	0.0004	II	<i>V</i>	K3
	54954.5275	0.0002	II	<i>V</i>	K3
	54973.4656	0.0001	I	<i>V</i>	K3
V1191 Cyg	53879.7805	0.0002	I		DDO
	53893.7283	0.0002	II		DDO
	54258.3604	0.0005	I	<i>R</i>	R3
	54335.4533	0.0003	I	<i>R</i>	R3
	54620.4785	0.0001	II	<i>V</i>	K3
	54941.5475	0.0002	I	<i>V</i>	K3
	54946.5605	0.0002	I	<i>V</i>	K3
V1918 Cyg	54620.4841	0.0001	II		R1
	54680.3929	0.0003	II		K1
	54942.5533	0.0001	I	<i>V</i>	K3
	54969.4097	0.0002	I	<i>V</i>	K3
LS Del	54650.4699	0.0005	II	<i>V</i>	K2
CM Dra	53997.4177	0.0005	I		K3
	54020.2491	0.0001	I	<i>V</i>	K3
	54191.4819	0.0001	I	<i>V</i>	K3

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
CM Dra	54309.4420	0.0002	I	<i>V</i>	K3
	54621.4660	0.0001	I	<i>V</i>	K3
FU Dra	54509.4701	0.0004	I		R2
	54509.6229	0.0005	II		K2
	54597.3436	0.0002	II		K1
	54613.4462	0.0001	I	<i>V</i>	K3
	54893.4794	0.0001	I	<i>V</i>	K3
	54977.3681	0.0002	II	<i>V</i>	K3
HL Dra	53168.6961	0.0005	I		DDO
	54660.4646	0.0002	II		K1
AK Her	54309.4458	0.0003	I		K1
	54335.3687	0.0003	II		K1
	54346.3304	0.0001	II	<i>V</i>	K5
	54365.2989	0.0001	II	<i>V</i>	K5
	54595.4526	0.0002	II	<i>BV</i>	K6
	54615.4727	0.0003	I		K2
	54699.3556	0.0001	I	<i>R</i>	K6
	54706.3122	0.0003	II		K2
	54926.5551	0.0003	I	<i>BVRI</i>	K6
	54929.5064	0.0001	I	<i>B</i>	K6
V624 Her	54621.4195	0.0005	II		K2
	54697.3858	0.0002	I	<i>V</i>	K2
V728 Her	54936.5598	0.0002	II	<i>V</i>	K3
	54938.4453	0.0002	II	<i>V</i>	K3
	54959.4181	0.0001	I	<i>V</i>	K3
V829 Her	54195.4842	0.0003	II	<i>V</i>	K3
	54500.6311	0.0002	II	<i>V</i>	K3
	54912.5088	0.0002	II	<i>V</i>	K3
	54929.5190	0.0002	I	<i>V</i>	K3
	54959.4292	0.0002	II	<i>V</i>	K4
V857 Her	52049.4447	0.0003	II	<i>BV</i>	G2
	52119.3930	0.0003	II	<i>BV</i>	G2
	52320.6342	0.0004	I	<i>BV</i>	G2
	52348.5389	0.0004	I	<i>BV</i>	G2
	52387.5201	0.0002	I	<i>RI</i>	R3
	52401.4672	0.0002	II	<i>VRI</i>	R3
	52402.4296	0.0002	I	<i>VRI</i>	R3
	52387.5203	0.0001	I	<i>V</i>	R3
	54709.3811	0.0003	II	<i>V</i>	K2
	54710.3397	0.0004	I	<i>V</i>	K2
	54977.5181	0.0002	I	<i>V</i>	K3
SW Lac	54749.3417	0.0001	I	<i>V</i>	K2
PP Lac	54299.4201	0.0002	I	<i>V</i>	K3
	55000.4517	0.0002	II	<i>V</i>	K3
	55001.4536	0.0002	I	<i>V</i>	K3

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
V344 Lac	54615.5126	0.0002	II	<i>V</i>	K3
	54627.4759	0.0001	I	<i>V</i>	K3
	54691.4146	0.0004	I	<i>V</i>	K3
	54978.5359	0.0005	I	<i>V</i>	K3
V398 Lac	54783.2979	0.0002	I	<i>V</i>	K2
UV Leo	54494.5256	0.0002	II		K2
AM Leo	54149.5323	0.0002	I	<i>V</i>	K2
	54513.5000	0.0003	I		K2
CE Leo	54449.6271	0.0004	II		K3
	54538.5313	0.0003	II		R2
	54947.4012	0.0001	I	<i>V</i>	K3
EX Leo	54506.4816	0.0004	I		K2
RT LMi	54410.5999	0.0001	II		K3
	54525.3253	0.0001	II		R2
	54525.5127	0.0001	I		R2
	54530.3866	0.0002	I		R2
	54828.6332	0.0002	II	<i>V</i>	K3
	54893.3065	0.0001	I	<i>V</i>	K3
VW LMi	54938.5253	0.0002	I	<i>V</i>	K1
V714 Mon	54424.5840	0.0001	I	<i>V</i>	K4
RV Oph	55002.3858	0.0002	I	<i>R</i>	K1
V508 Oph	54513.6267	0.0001	I	<i>V</i>	K4
	54969.4403	0.0001	I	<i>V</i>	K4
V2610 Oph	54618.5275	0.0003	I	<i>V(R)_C</i>	G1
	54620.4424	0.0003	II		K2
	54627.4764	0.0002	I		K2
	54667.3591	0.0002	II	<i>BV(R)_C</i>	G1
V2612 Oph	54597.5346	0.0002	II	<i>V</i>	K2
FZ Ori	54506.2466	0.0001	II	<i>V(RI)_C</i>	G1
	54507.2462	0.0001	I	<i>BV(R)_C</i>	G1
V1363 Ori	52618.63160	0.0004	II		DDO
V1387 Ori	54480.3920	0.0012	II		K2
	54506.3058	0.0003	I		K2
	54533.3164	0.0012	I		K2
U Peg	54737.3508	0.0002	II	<i>V</i>	K2
AT Peg	54686.4720	0.0002	I	<i>V</i>	K2
BB Peg	54298.5034	0.0001	I	<i>V</i>	K3
	55033.4355	0.0001	I	<i>V</i>	K3
BX Peg	53928.4221	0.0002	I	<i>V</i>	K3
	54297.4537	0.0002	I	<i>V</i>	K3
	54678.4008	0.0002	II		K1
	54690.4604	0.0002	II		R2
DI Peg	54309.5089	0.0002	II		K1
	54738.3787	0.0002	I	<i>V</i>	K2
KW Peg	53928.4864	0.0007	II	<i>V</i>	K3

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
KW Peg	54297.5015	0.0002	II	<i>V</i>	K3
V351 Peg	53972.4606	0.0010	I		K2
	54328.4409	0.0002	I	<i>V</i>	K1
	54710.5267	0.0004	I	<i>V</i>	K2
V357 Peg	53607.7475	0.0002	II		DDO
	53616.7127	0.0002	I		DDO
	54329.3641	0.0002	I	<i>V</i>	K1
	54676.4345	0.0005	I	<i>V</i>	K2
	54680.4845	0.0003	I		K1
V432 Per	54434.2272	0.0001	I		K3
	54480.4152	0.0005	II		R3
	54489.4239	0.0003	I		R3
DV Psc	53666.3867	0.0002	I	<i>BV(RI)_C</i>	G1
	53667.4640	0.0001	II	<i>BV(RI)_C</i>	G1
	53668.3987	0.0001	II	<i>BV(RI)_C</i>	G1
	54404.4076	0.0004	I		K3
	54410.2698	0.0002	I		K3
	54410.4260	0.0002	II		K3
	54433.2610	0.0002	II	<i>BV(RI)_C</i>	G1
	54715.4127	0.0001	I	<i>BV(RI)_C</i>	G1
	54715.5771	0.0002	II	<i>BV(RI)_C</i>	G1
	54716.4977	0.0002	II	<i>BV(RI)_C</i>	G1
	54737.3162	0.0002	I	<i>I</i>	R3
	54737.4691	0.0003	II	<i>I</i>	R3
	54739.3226	0.0002	II	<i>R</i>	R3
	54748.4252	0.0002	I	<i>R</i>	R3
GSC 8-901	54410.3290	0.0001	I		K3
	54433.1982	0.0002	II	<i>BV(RI)_C</i>	G1
	54433.3434	0.0003	I	<i>BV(RI)_C</i>	G1
	54715.4478	0.0005	II	<i>BV(RI)_C</i>	G1
	54715.5896	0.0005	I	<i>BV(RI)_C</i>	G1
	54716.4581	0.0004	I	<i>BV(RI)_C</i>	G1
AO Ser	54491.6646	0.0003	II	<i>VRI</i>	G1
AU Ser	54507.6122	0.0001	II	<i>V</i>	K4
	54508.5803	0.0001	I	<i>V</i>	K4
	54955.3711	0.0001	I	<i>V</i>	K3
OU Ser	54554.5940	0.0001	I		K2
	54594.4996	0.0001	II	<i>V</i>	K2
BD +7 3142	54211.7133	0.0001	II		DDO
	54211.8532	0.0001	I		DDO
Y Sex	54213.4053	0.0002	I	<i>BVRI</i>	K4
	54507.4968	0.0004	II		K2
CW Sge	54988.4833	0.0003	II	<i>V</i>	K4
	55027.4461	0.0003	II	<i>V</i>	K3
	55028.4405	0.0002	I	<i>V</i>	K3

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
AH Tau	52195.4372	0.0001	II	<i>UBV</i>	G2
	52195.6032	0.0001	I	<i>UBV</i>	G2
	52203.4208	0.0001	II	<i>BV</i>	G2
	52278.2731	0.0001	II	<i>BV</i>	G2
	52278.4389	0.0001	I	<i>BV</i>	G2
	54434.4958	0.0001	I		K3
	54720.5937	0.0002	I		R1
EQ Tau	54508.2903	0.0004	I		K2
	54803.3890	0.0004	II		K1
V781 Tau	54751.4730	0.0002	II	<i>V</i>	K2
UX UMa	54433.6781	0.0003	I	<i>BV(RI)_C</i>	G1
	54508.6094	0.0001	I	<i>BV(RI)_C</i>	G1
	54509.5928	0.0001	I	<i>BV(RI)_C</i>	G1
	54521.5899	0.0001	I	<i>BV(RI)_C</i>	G1
	54651.3927	0.0001	I	<i>BV</i>	G1
XY UMa	54594.5000	0.0001	II		K1
AA UMa	54469.4804	0.0001	II	<i>V</i>	K4
	54937.3747	0.0002	I	<i>V</i>	K4
AW UMa	54887.5735	0.0001	I	<i>BVRI</i>	K6
HH UMa	54424.5872	0.0002	I		K3
	54532.3577	0.0002	I		R2
	54532.5416	0.0003	II		R2
	54912.3530	0.0002	I	<i>V</i>	K3
	54922.3052	0.0002	II	<i>V</i>	K3
	53897.4349	0.0002	I		K3
TV UMi	54173.3534	0.0003	I	<i>V</i>	K2
	54190.3975	0.0005	I	<i>V</i>	K2
	54506.6337	0.0003	I		K2
	54508.5070	0.0003	II		K2
	54479.6439	0.0003	I		K2
AH Vir	54595.4420	0.0001	I		K1
AZ Vir	54943.4170	0.0001	I	<i>V</i>	K3
	54946.3894	0.0002	II	<i>V</i>	K3
HW Vir	54925.4281	0.0003	II	<i>VR</i>	GSH
	54925.4870	0.0005	I	<i>VR</i>	GSH
	54947.4298	0.0002	I	<i>R</i>	GSH
PY Vir	54202.4175	0.0003	I	<i>BVRI</i>	K4
	54228.4062	0.0004	II	<i>BVRI</i>	K4
	54505.5802	0.0003	I		K2

Explanation of the remarks in the table:

Observatory ID's are given

Remarks:

Times of minima are weighted averages from all filters used. The minimum types are calculated according to Kreiner's (2004) up to date linear elements of eclipsing binaries (<http://www.as.up.krakow.pl/ephem/>). The elements for HL Del are taken from Pribulla et al. (2006), for V398 Lac from Cakirli et al. (2007), for V1387 Ori from Pribulla et al. (2009), for BD+7 3142 from Rucinski et al. (2008) and for GSC 8-901 from Parimucha et al. (2008).

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ERRATUM FOR IBVS 5715

The orbital inclination of XZ UMa had been omitted from IBVS 5715. It should be $83.9^\circ \pm 0.1^\circ$.

Bob Nelson

*THIS VERSION OF THE PAPER CONTAINS CORRECTIONS, AND DIFFERS FROM THE ONE APPEARED ON-LINE ORIGINALLY.
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