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NEW CCD TIMES OF MINIMA OF ECLIPSING BINARY SYSTEMS

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Observatory and telescope:	
50-cm <i>f</i> /8.4 Ritchey–Chrétien telescope of the Baja Astronomical Observatory (Hungary)	

Detector:	SBIG ST-7 CCD camera Apogee AP-7 CCD camera
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Method of data reduction:
Reduction of the CCD frames was made with a customly developed IRAF ¹ package.

Method of minimum determination:
The minima times were computed with parabolic fitting, and in some cases with linearized Pogson-method.

Observed star(s):							
Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
RT And	RS	23 11 10	+53 01 33	HD 218915	51463.2480	0.62892951	1
OO Aql	EW	19 48 13	+09 18 32	HD 187146	38613.2222	0.50678848	2
IM Aur	EA	05 15 30	+46 24 21	3358-0542* 3358-1208**	38327.7974	1.2472891	3
PV Cas	EA	23 10 03	+59 12 06	4010-1432	40227.4044	1.75046986	2
VW Cep	EW	20 37 21	+75 35 57	4585-2387	44157.4131	0.2783146	2
DL Cyg	EA	21 39 46	+48 32 24	SAO 51164	51038.48378	4.83039702	1
AK Her	EW	17 13 58	+16 21 01	1536-1834	42186.4600	0.42152201	2
GU Her	EA	16 32 05	+30 23 10	2581-2418	50983.46694	4.34320188	1
UV Leo	EA	10 38 21	+14 16 04	0845-0255	38440.72633	0.60008478	2
DW UMa	EA	10 33 53	+58 46 54	3822-0070	46229.00691	0.13660653	4
GSC 3822-1056	EW:	10 33 58	+58 52 16	3822-0070	50495.5212	0.30989069	5

Source(s) of the ephemeris:
1. present paper 2. Kholopov et al., 1985 3. Bartolini & Zoffoli, 1986 4. Bíró, 2000 5. Bíró & Borkovits, 2000

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Times of minima:						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
RT And	52186.5154	1	I	<i>R</i>	-0.0015	Bor/AP7
OO Aql	52107.4975	2	I	<i>R</i>	0.0184	Bor+Kov/ST7
IM Aur	51848.396	1	I	-	-0.015	Bor/AP7*
	51871.471	4	II	-	-0.015	Bir/AP7**
	51891.4282	2	II	-	-0.0145	Bir/AP7**
	51909.5119	5	I	-	-0.0165	Bor/AP7**
	51919.4885	6	I	-	-0.0182	Bir/AP7**
	52189.5265	8	II	<i>R</i>	-0.0183	Bor/AP7**
PV Cas	51872.3979	1	II	-	-0.0072	Bir/AP7
VW Cep	52138.3668	3	II	<i>R</i>	0.1434	Bor/AP7
	52138.5030	2	I	<i>R</i>	0.1404	Bor/AP7
DL Cyg	51840.3356	6	I	-	0.0059	Bor/AP7
AK Her	52044.3945	1	II	<i>V</i>	0.0100	Bor/AP7
	52044.3950	1	II	<i>B, R</i>	0.0105	Bor/AP7
	52066.522	1	I	<i>B</i>	0.008	Bor/AP7
	52066.523	1	I	<i>V, R</i>	0.009	Bor/AP7
	52073.479	1	II	<i>R</i>	0.009	Bor/AP7
	52076.4275	1	II	<i>V</i>	0.0073	Bor/AP7
	52076.4279	3	II	<i>B, R</i>	0.0077	Bor/AP7
	52087.3897	3	II	<i>R</i>	0.0099	Bor/AP7
GU Her	52121.385	5	I	-	-0.001	Bor/ST7
UV Leo	51958.5580	2	II	-	0.0219	Bor/AP7
DW UMa	51731.38091	1	I	-	-0.0042	Bir/AP7
	51842.5785	2	I	-	-0.0006	Bir/AP7
	51916.4822	2	I	-	-0.0010	Bir/AP7
	51925.36220	5	I	-	-0.00040	Bor/AP7
	51958.2848	1	I	-	0.0000	Bor/AP7
	51958.4210	2	I	-	-0.0004	Bor/AP7
	51967.4371	1	I	-	-0.0003	Bor/AP7
	52000.35978	5	I	<i>V</i>	0.0002	Bor/AP7
GSC 3822 1056	51731.3672	2	I	-	0.0020	Bir/AP7
	51840.6029	3	II	-	0.0012	Bor/AP7
	51842.6236	8	I	-	0.0076	Bir/AP7
	51925.360	1	I	-	0.003	Bor/AP7
	51958.3628	3	II	-	0.0026	Bor/AP7
	51967.5078	4	I	-	0.0058	Bor/AP7
	52000.3560	5	I	<i>V</i>	0.0056	Bor/AP7

Explanation of the remarks in the table:

Observer(s)/Instrument

Acknowledgements:

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- Bartolini, C., Zoffoli, M., 1986, *A&A*, **168**, 377
 Bíró, I.B., 2000, *A&A*, **364**, 573
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 Kholopov, P.N., et al., 1985, *General Catalog of Variable Stars*, 4th Eds.