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**MINIMUM TIMES OF SEVERAL ECLIPSING BINARIES**

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<b>Observatory and telescope:</b>	
1.5m Carlos Sanchez Telescope ( <b>TCS</b> ), Teide Obsv., Tenerife, Spain	
36" Crossley Telescope ( <b>CRO</b> ) of Lick Observatory	

<b>Detector:</b>	<b>TCS:</b> Single channel NIR photometer equipped with an InSb detector and standard H (1.6 $\mu$ m) filter, switching between source and sky every 10 seconds. <b>CRO:</b> CCD Kodak KAF4200 with Johnson-Cousins R filter, 12' $\times$ 12' field of view.
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<b>Method of data reduction:</b>	
<b>TCS:</b> derivation of source magnitudes by on-line reduction. Nearby reference stars that were observed before and after the eclipses were used to remove any extinction slope. <b>CRO:</b> 'Vaphot' <sup>1</sup> (Deeg & Doyle, 2001) differential photometry package for IRAF, using as references several stars visible in the same CCD field.	

<b>Method of minimum determination:</b>	
Unless noted otherwise, minimum times were determined with the Kwee-van-woerden Algorithm (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]	
RT And	EA/DW/RS	23 11 10.1	+53 01 33	–	36697.8570	0.628930880	1
EE Aqr	EB/KE:	22 34 42.0	–19 51 35	–	40828.7804	0.50899590	1
44i Boo	EW/KW	15 03 47.3	+47 39 15	–	39852.4644	0.2678176	2
VW Cep	EW/KW	20 37 21.5	+75 36 01	–	51067.2820	0.2783140	3
XX Cep	EA/SD	23 38 20.3	+64 20 03	–	41539.5307	2.3373260	1
BV Dra	EW/KW	15 11 50.4	+61 51 25	–	45739.1151	0.350066568	1
FL Lyr	EA/DM	19 12 04.9	+46 19 27	–	38221.5535	2.17815381	1
TZ Lyr	EB/D	18 15 49.7	+41 06 38	–	20669.455	0.52882516	1
V566 Oph	EW/KW	17 56 52.4	+04 59 15	–	40418.540	0.40964360	1
UV Psc	EA/D:/RS	01 16 55.1	+06 48 42	–	44932.2977	0.86104716	1
ER Vul	EW/DW/RS	21 02 25.5	+27 48 26	–	40182.2593	0.69809479	1

<sup>1</sup>Code available from [ftp://ftp.iac.es/pub/users/hdeeg/tep\\_dist/](ftp://ftp.iac.es/pub/users/hdeeg/tep_dist/)

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

1.: Kreiner et al., 2001; 2.: Rovithis & Rovithis-Livaniou, 1990; 3.: Pribulla et al., 2000

<b>Times of minima:</b>						
Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
RT And	50328.6564	0.0001	I	H	-0.0196	TCS
	50329.6002	0.0002	II	H	-0.0192	TCS
	50330.5441	0.0001	I	H	-0.0187	TCS
	51340.9203	0.0001	II	R	-0.0199	CRO
	51379.9158	0.0002	II	R	-0.0182	CRO
EE Aqr	50654.6889	0.0002	II	H	-0.0029	TCS
44i Boo	50328.4390	0.002	I	H	0.0214	TCS,tp
	50655.4455	0.0003	I	H	0.0225	TCS
VW Cep	50271.7420	0.003	II	R	0.0206	CRO,tp
	51362.8508	0.0003	I	R	-0.0007	CRO
XX Cep	50285.7620	0.002	I	R	-0.0426	CRO,tp
	50993.9636	0.0002	I	R	-0.0507	CRO
	51346.8959	0.0001	I	R	-0.0547	CRO
BV Dra	50330.4145	0.001	II	H	0.0013	TCS,tp
	50653.5264	0.0001	II	H	0.0018	TCS
FL Lyr	50654.4547	0.0004	I	H	-0.0008	TCS
	50655.5427	0.0002	II	H	-0.0019	TCS
TZ Lyr	50657.5611	0.0003	I	H	0.0178	TCS
V566 Oph	50334.4103	0.0002	I	H	0.0373	TCS
	50652.5025	0.0001	II	H	0.0413	TCS
	50654.5506	0.0001	II	H	0.0411	TCS
UV Psc	50333.6434	0.0001	I	H	-0.0032	TCS
	50334.5051	0.0002	I	H	-0.0025	TCS
	50652.6656	0.0001	II	H	0.0011	TCS
	50655.6767	0.0001	I	H	-0.0015	TCS
ER Vul	50329.4115	0.0005	II	H	-0.0046	TCS

**Explanation of the remarks in the table:**

TCS, CRO indicate the telescope. *tp*: minimum determined by tracing paper. Used in cases where data were not apt for processing by Kwee-van-Woerden algorithm

## References:

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