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NEW TIMES OF MINIMA OF ECLIPSING BINARY SYSTEMS

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Observatory and telescope:

50-cm $f/8.4$ Ritchey–Chrétien telescope of the Baja Astronomical Observatory, Hungary (BA50)

40-cm Cassegrain telescope of the TUBITAK National Observatory, Turkey (TUG40)

30-cm Cassegrain telescope of Ege University Observatory, Turkey (EGE30)

Detector:

Hamamatsu, R 4457 PMT at TUBITAK National Observatory

Hamamatsu, R 4457 PMT at Ege University Observatory
Apogee Ap-7 SiTE 502B CCD at Baja Astronomical Observatory

Method of data reduction:

Reduction of the CCD frames was made with a customly developed IRAF[†] package.

Method of minimum determination:

The minima times were computed with parabolic fitting, and in some cases with linearized Pogson-method or Kwee-van Woerden method (Kwee & van Woerden, 1956).

Observed star(s):

Star name	GCVS type	Coordinates (J2000)		Comp. star	Ephemeris		Source
		RA	Dec		E 2400000+	P [day]	
V397 Cep	EA	00 03 24	+73 10 28	BD+72° 1135	48501.1800	2.08684	1
V442 Cyg	EA	20 27 52	+30 47 28	GSC 2685-1364	44919.561	2.3859437	2
MR Del	EA	20 31 13	+05 13 09	HD 195235	51744.37964	0.52168929	3
V401 Lac	EA	22 08 21	+49 13 16	BD+48° 3613	48501.7900	1.95010	1
V402 Lac	EA	22 09 15	+44 50 47	GSC 3210-1215	48500.980	3.7820	1
V1123 Tau	EB	03 34 59	+17 42 38	GSC 1238-0661	48500.3570	0.399957	1
V1128 Tau	EB	03 49 28	+12 54 44	GSC 0664-1304	48500.0620	0.3053732	1

[†]IRAF is distributed by the National Optical Astronomical Observatories, operated by the Association of the Universities for Research in Astronomy, inc., under cooperative agreement with the National Science Foundation

Source(s) of the ephemeris:

1. ESA, 1997
2. Lacy and Frueh, 1987
3. Soydugan et al., 2002

Times of minima:

Star name	Time of min. HJD 2400000+	Error	Type	Filter	$O - C$ [day]	Rem.
V397 Cep	51727.4294	12	I	U, B, V	-0.0052	TUG40
	51747.4065	8	II	U, B, V	0.1469	TUG40
	51752.471	1	I	-	-0.006	Bor+SzI/BA50
	51800.4655	2	I	-	-0.0085	Bır/BA50
	51843.4053	1	II	-	0.1510	Bor/BA50
	51845.48217	1	II	-	0.14107	Bır/BA50
	51850.5486	17	I	U, B, V	-0.0096	TUG40
V442 Cyg	51780.3424	2	II	-	0.0003	Bor/BA50
	51739.4231	16	II	B, V, R	-0.0005	TUG40
MR Del	51744.3804	8	I	B, V, R	0.0008	TUG40
	51781.4196	4	I	-	0.0000	Bor/BA50
	51822.3719	4	II	-	-0.0003	Bır/BA50
	52130.4291	9	I	B, V, R	-0.0006	EGE30
	52135.3863	8	II	B, V, R	0.0005	EGE30
V401 Lac	51842.3465	2	I	-	0.0035	Bır/BA50
V402 Lac	51839.3033	1	II	-	0.7083	Bır/BA50
V1123 Tau	51832.5518	5	II	-	-0.0470	Bır/BA50
	51837.3523	5	II	-	-0.0459	Bor/BA50
	51877.5481	1	I	-	-0.0458	Heg/BA50
V1128 Tau	51822.5237	2	I	-	0.0013	Bır/BA50
	51830.4633	4	I	-	0.0012	Bır/BA50
	51830.6165	4	II	-	0.0017	Bır/BA50

Explanation of the remarks in the table:

Observer(s) (only at Baja Observatory)/Instrument

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 Soydugan, F., Erdem, A., Demircan, O., Soydugan, E. et al., 2002, in *XIII. National Astronomy Meeting*, 02-06 September 2002, Antalya, Turkey, in press.