

COMMISSIONS 27 AND 42 OF THE IAU  
INFORMATION BULLETIN ON VARIABLE STARS

Number 5988

Konkoly Observatory  
Budapest  
26 April 2011

*HU ISSN 0374 – 0676*

**CCD TIMES OF MINIMA OF SOME ECLIPSING VARIABLES**

DOĞRU, S. S.; ERDEM, A.; ALIÇAVUŞ, F.; AKIN, T.; KANVERMEZ, Ç.

Astrophysics Research Centre and Observatory, Çanakkale Onsekiz Mart University, Terzioğlu Kampüsü,  
TR-17020, Çanakkale, Turkey; e-mail: dogru@comu.edu.tr (SSD); aerdem@comu.edu.tr (AE)

<b>Observatory and telescope:</b>	
30-cm Cassegrain-Schmidt (T30), 40-cm Cassegrain-Schmidt (T40) and 122-cm Cassegrain-Nasmyth (T122) telescopes of the Çanakkale University Observatory.	
<b>Detector:</b>	-STL1001E camera, Peltier cooling, KAF-1001E chip, 28' × 28' FOV, 1024 × 1024 pixels, (STL). -Alta U47 camera, Peltier cooling, E2V CCD47-10 chip, 11'5 × 11'5 FOV, 1024 × 1024 pixels, (U47). -Alta U42 camera, Peltier cooling, E2V CCD42-40 chip, 7'8 × 7'8 FOV, 2048 × 2048 pixels, (U42).
<b>Method of data reduction:</b>	
Reduction of the CCD frames was made with C-MUNIPACK <sup>1</sup> software.	
<b>Method of minimum determination:</b>	
Kwee – van Woerden method (Kwee & van Woerden, 1956).	

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
XZ And	55423.4600	0.0002	II	<i>VR<sub>c</sub></i>	T40-U47
XZ Aql	55425.3846	0.0001	I	<i>VR<sub>c</sub></i>	T40-U47
FK Aql	55406.4212	0.0001	I	<i>VR<sub>c</sub></i>	T30-STL
KO Aql	55351.4724	0.0003	I	<i>BVR<sub>c</sub></i>	T30-STL
	55417.3468	0.0002	I	<i>VR<sub>c</sub></i>	T40-U47
V342 Aql	55333.5445	0.0009	I	<i>BVR<sub>c</sub></i>	T30-STL
RY Aqr	55418.4068	0.0001	I	<i>VR<sub>c</sub></i>	T30-STL
AC Boo	55352.4902	0.0006	II	<i>R<sub>c</sub>I<sub>c</sub></i>	T30-STL
Y Cam	55424.5094	0.0001	I	<i>VR<sub>c</sub></i>	T40-U47
	55573.2684	0.0002	I	<i>BV</i>	T30-STL
ZZ Cas	55159.4166	0.0003	I	<i>V</i>	T30-STL
RY Cnc	55290.3103	0.0002	II	<i>V</i>	T30-STL
	55522.5645	0.0001	I	<i>VR<sub>c</sub></i>	T122-U42
WW Cnc	55580.4715	0.0001	I	<i>BV</i>	T30-STL
RW CrB	55337.3467	0.0009	I	<i>VR<sub>c</sub></i>	T30-STL
WW Cyg	55324.5222	0.0008	I	<i>R<sub>c</sub>I<sub>c</sub></i>	T30-STL
ZZ Cyg	55350.4707	0.0001	I	<i>R</i>	T30-STL
DK Cyg	55346.4988	0.0007	I	<i>R<sub>c</sub>I<sub>c</sub></i>	T30-STL
V401 Cyg	55346.4145	0.0002	I	<i>R</i>	T30-STL
V548 Cyg	55432.3217	0.0002	I	<i>VR<sub>c</sub></i>	T40-U47
V753 Cyg	55321.5236	0.0004	I	<i>VR<sub>c</sub></i>	T30-STL
V959 Cyg	55400.4192	0.0002	I	<i>VR<sub>c</sub></i>	T30-STL

<sup>1</sup>Motl, D., 2007, C-MUNIPACK, <http://c-munipack.sourceforge.net/>

<b>Times of minima:</b>					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
TT Del	55410.4457	0.0002	I	$VR_c$	T30-STL
FZ Del	55406.5121	0.0001	I	$R_c$	T30-STL
TW Dra	55310.3782	0.0001	I	$VR_c$	T30-STL
	55568.6043	0.0001	I	$BV$	T30-STL
TZ Dra	55327.3619	0.0010	I	$VR_c$	T30-STL
AF Gem	55595.5667	0.0008	II	$R_cI_c$	T30-STL
SZ Her	55342.4524	0.0002	I	$VR_c$	T30-STL
CT Her	55329.4581	0.0003	I	$VR_c$	T30-STL
V338 Her	55432.4244	0.0001	I	$VR_c$	T40-U47
DG Lac	55162.3125	0.0003	I	$V$	T30-STL
	55409.4433	0.0002	I	$VR_c$	T30-STL
	55568.3133	0.0005	I	$BV$	T30-STL
UU Leo	55568.4594	0.0001	I	$V$	T30-STL
UX Leo	55321.3862	0.0020	II	$R_cI_c$	T30-STL
UZ Leo	55340.3432	0.0015	II	$VR_cI_c$	T30-STL
SX Lyn	55329.3167	0.0004	I	$VR_c$	T30-STL
V913 Oph	55400.3617	0.0003	I	$BVR_c$	T30-STL
	55423.3714	0.0001	I	$VR_c$	T40-U47
BN Peg	55455.4545	0.0001	II	$R_c$	T40-U47
DI Peg	55429.5569	0.0000	I	$V$	T40-U47
Z Per	55454.4698	0.0001	I	$V$	T40-U47
RT Per	55432.5053	0.0000	I	$VR_c$	T40-U47
XZ Per	55500.5411	0.0001	I	$VR_c$	T40-U47
AO Ser	55316.4953	0.0018	II	$BVR_c$	T30-STL
	55327.4831	0.0002	I	$VR_c$	T30-STL
VV UMa	55342.3744	0.0002	I	$VR_c$	T30-STL
RU UMi	55316.3180	0.0004	I	$BVR_c$	T30-STL
	55522.6142	0.0001	I	$BV$	T40-U47
	55580.3566	0.0001	I	$BV$	T30-STL
UW Vir	55311.4153	0.0002	I	$VR_c$	T30-STL
VV Vir	55324.3324	0.0005	II	$VR_cI_c$	T30-STL
AH Vir	55346.3230	0.0006	II	$VR_cI_c$	T30-STL
BE Vul	55425.4798	0.0002	I	$VR_c$	T40-U47
BO Vul	55398.4621	0.0004	II	$R_c$	T30-STL

**Remarks:**

We present 56 minima times of 46 eclipsing binaries. In the Remarks column of Times of Minima table, telescopes and detectors used in the observations are given.

**Acknowledgements:**

This study was supported by the Turkish *TUBITAK* under the grant no. 108T714, and it was also partly supported by the Research Found of Çanakkale Onsekiz Mart University.

Reference:

Kwee, K. K., & van Woerden, H., 1956, *Bull. Astron. Inst. Neth.*, **12**, 327.

**ERRATUM FOR IBVS 5924**

ZX Per should be changed as XZ Per.