

COMMISSION 27 OF THE I. A. U.  
INFORMATION BULLETIN ON VARIABLE STARS  
Number 1053

Konkoly Observatory  
Budapest  
1975 October 20

PHOTOELECTRIC MINIMA OF ECLIPSING BINARIES

The following Table gives photoelectric minima obtained during the year 1974 at the Ege University Observatory, Izmir (Turkey) and the Nürnberg Observatory (Germany). Minima of eclipsing binaries observed at both observatories 1960-1973 were published in Astr.Nachr. 288, 69 (1964); 289, 191 (1966); 291, 111 (1968); IBVS 456 (1970), 530 (1971), 647 (1972) and 937 (1974).

The Table gives besides the heliocentric minima three different O-C's, the type of filter (UBV), the abbreviations of the names of the observers and the type of the instruments used (Izmir: 48 cm Cassegrain, Nürnberg: 34 cm Cassegrain, both with phototube 1P21).

Remarks:

O-C (I) : GCVS, Moscow 1969/70 or First or Second Supplement to the Third Edition of the GCVS, Moscow 1971 and 1974.

O-C (II) : SAC 46, Krakow 1974

O-C (III) : i Boo IBVS 209 (1967) Pohl

RZ Cas Scientific Reports of the Faculty of Science, Ege University No. 120, Astronomy No. 12 (1971), A.Kizilirmak

The (O-C)'s for secondary minima (Min II) were calculated on the supposition that they are symmetric between primary minima (if not special data are given).

m: only the elements I or the elements II give secondary minimum.

The sign= between O-C(I) and O-C(II) indicates, that the elements (I) and (II) are equal.

The sign : means that the time of minimum is uncertain.

E. POHL	A. KIZILIRMAK
Nürnberg Observatory	Ege University Observatory
Lützowstr.10,85 Nürnberg,	Bornova/Izmir P.K.21,
F.R.G.	Turkey

Star	Min.hel.	O-C (I)	O-C (II)	O-C (III)	Filt.	Obs.	Instr. cm	Rem
	2442							
RY Aqr	303.3012	-0.0159	-0.0255		B	Gl/An/Sr	48	
KO Aql	303.3015	-0.0156	-0.0252		V	Gl/An/Sr	"	
OO Aql	245.4798	+0.0960	-0.0037		B,V	Gd/Ek	"	
	247.4023	-0.0004	+0.0084(m)		B,V	Gd	"	
	252.4697	-0.0009	+0.0080(m)		B	Gd/Ek	"	
	252.4704	-0.0002	+0.0087(m)		V	Gd/Ek	"	
805 Aql	324.2660	+0.0201 =	+0.0201		B	Er/Hn	"	
	324.2663	+0.0204 =	+0.0204		V	Er/Hn	"	
SX Aur	132.3431	+0.0189	+0.0154		B,V	Ib/An/Hn	48	
	403.4045	+0.0230	+0.0195			Ar/Be/Gr	34	
XY Boo	183.400 :	-0.028 :			B,V	Od/Hn	"	
i Boo	095.454 :	+0.024 :	+0.029 :	+0.021 :	V	Sc/Sh/Vo	34	MinII
	122.371 :	+0.025 :	+0.031 :	+0.023 :	V	Gr/Sc	"	MinII
	187.440 :	+0.015 :	+0.021 :	+0.013 :	V	Eb/Gr	"	
	219.447	+0.019	+0.025	+0.016	B,V	Gl	48	MinII
	268.323	+0.019	+0.025	+0.016	B	Gl/Hn	"	MinII
	268.324	+0.020	+0.026	+0.017	V	Gl/Hn	"	MinII
SV Cam	366.281 :	-0.009	-0.005		B,V	Gl/Tn/Sr	"	
RZ Cas	289.5308	+0.0030	-0.0049	+0.0031	B	Sc/We	34	
	300.2881	+0.0031	-0.0049	+0.0033	V	Ib/Hn/Er	48	
	300.2884	+0.0034	-0.0046	+0.0036	B,V	Ib/Hn/Er	"	
	325.3889	+0.0037	-0.0044	+0.0042	B,V	Er/By	"	
TV Cas	289.582 :	-0.013	-0.005		B,V	Er/Hn/Sr	"	
TW Cas	265.4822	+0.0026	-0.0207		B	Ib/Gl/Sr	"	
	265.4836	+0.0040	-0.0193		V	Ib/Gl/Sr	"	
DO Cas	405.3628	+0.0024 =	+0.0024			Ar/Eb/We	34	
VW Cep	146.461 :	+0.016 : =	+0.016 :		V	Cp/Sb	"	MinII
	261.3962	+0.0078 =	+0.0078		V	Tn/Er/Hn	48	MinII
	261.5351	+0.0075 =	+0.0075		V	Tn/Er/Hn	"	
	263.4812	+0.0054 =	+0.0054		V	Eb/We	34	
	364.376 :	+0.011 : =	+0.011 :		V	Ki/Sr	48	MinII
	385.386	+0.009 =	+0.009		V	Ki/Er/Ek	"	

Star	Min. hel.	O-C (I)	O-C (II)	O-C (III)	Filt.	Obs.	Instr. cm	Rem
	2442							
KR Cyg	221.4741	-0.0127	+0.0073			Eb	34	
MY Cyg	276.5320	+0.0107 =	+0.0107			Eb/We	"	
548 Cyg	279.3841	+0.0065	-0.0126		B,V	Ib/Er/Hn	48	
1034 Cyg	223.350 :	+0.030 :	-0.002 :		B	Ib/Hn	"	
	223.348 :	+0.028 :	-0.004 :		V	Ib/Hn	"	
TW Dra	258.5032 :	-0.0351 :	+0.0009 :			Eb/Sb/We	34	
AI Dra	283.4262	+0.0002	+0.0076		B	Er/Hn	48	
	283.4267	+0.0007	+0.0081		V	Eb/We	34	
	283.4269	+0.0009	+0.0083			Er/Hn	48	
BS Dra	302.4277	-0.0567	-0.0567		B	Er/EK	"	
	302.4280	-0.0570	-0.0570		V	Er/EK	"	
	371.3907	-0.0567(m)	-0.0567			Eb/Sc	34	
TT Her	190.364 :	-0.014 :=	-0.014 :		B	Od/Hn	48	
	190.362 :	-0.016 :=	-0.016 :		V	Od/Hn	"	
TX Her	279.303 :	-0.006 :	+0.003 :		B,V	Ib/Er/Hn	"	MinII
	280.3332	-0.0060	+0.0036		B,V	Gd	"	
AK Her	186.4592	+0.0007	-0.0216		B	Eb/Gp	34	
	240.4135	0.0000	-0.0225		V	Gd	48	
	240.4142	+0.0007	-0.0218			Gd	"	
UV Leo	147.4502:	-0.0054:	+0.0072:			Eb/Hu	34	
FL Lyr	194.5042	-0.0019	+0.0047			Eb/Gr	"	
U Oph	217.3754	-0.0048	-0.0021		B,V	Ki/Gd	48	
451 Oph	286.3136	-0.0022	-0.0019		B,V	Ib/An	"	
456 Oph	239.410	+0.167			B,V	Od/By/Ek	"	MinII
566 Oph	193.4828	+0.0176 =	+0.0176			Bo/Mi	34	
	251.4448:	+0.0154:=	0.0154 :			Re/Sb	"	MinII
	268.4480	+0.0185 =	+0.0185		B	Gl	48	
	268.4474	+0.0179 =	+0.0179		V	Gl	"	

Star	Min.hel.	O-C (I)	O-C (II)	O-C (III)	Filt.	Obs.	Instr. cm	Rem
	2442							
FT Ori	095.334 :	+0.016 :	+0.027 :			Pf/Sc	34	
DI Peg	289.429	-0.002	-0.010	B		Od/Er/Sr	48	
	289.428	-0.003	-0.011	V		Od/Er/Sr	"	
AG Per	096.386	-0.012	+0.007			Eb/We	34	MinII
IZ Per	324.4202	+0.0163 =	+0.0163	B, V		Er/Hn	48	
U Sge	275.4572	-0.0045	-0.0045			Be/Sc/We	34	
CC Ser	251.400 :	+0.001 :=	+0.001 :	B		Od/Hn	48	
	251.401 :	+0.002 :=	+0.002 :	V		Od/Hn	"	
471 Tau	006.3140	-0.0007		B		Ib	"	
	387.301 :	+0.001 :		B		Ib	"	
W UMa	089.3858	-0.0889	-0.0058			Pf/We	34	
TX UMa	201.4143:	-0.0003:	-0.0001:			Ar/Gr/Sc	"	
Z Vul	267.4608	+0.0106 =	+0.0106			Eb/We	"	
DR Vul	281.380	+0.010				Eb/We	"	

Abbreviations of the observers' names:

An = H. Alkan	Gl = Ö. Gülmen	Pf = T. Pfeiffer
Ar = G. Arneth	Gp = G. Grampp	Sb = R. Sendelbeck
Be = G. Besold	Gr = R. Gröbel	Sc = H. Schellemann
Bo = G. Bode	Hn = H. Halicinarli	Sh = T. Scharold
By = C. Baygün	Hu = R. Hufnagel	Sr = C. Sezer
Eb = J. Ebersberger	Ib = C. Ibanoglu	Tn = Z. Tunca
Ek = S. Ertükel	Ki = A. Kizilirmak	Vo = H. Vogel
Er = A.Y.Ertan	Mi = P. Mittermeier	We = Th. Weber
Gd = N. Güdür	Od = O. Demircan	