

BBSAG Bulletin 80

1986 August 7

113th List of Minima of Eclipsing Binaries

The following tables list 9 photoelectric (underlined) and 137 visual minima obtained mainly 1986 April to July by the observers

RD	Roger Diethelm, Rodersdorf, Switzerland
DE	Demetrius P. Elias, Penteli, Greece
RG	Robert Germann, Wald, Switzerland
KL	Kurt Locher, Grüt, Switzerland
GM	George Mavrofridis, Nikea, Greece
APs	Anton Paschke, Rüti, Switzerland
PWi	Patrick Wils, Niel, Belgium

The columns mean

- 1 current number
- 2 1950 right ascension hours and *minutes
- 3 1950 declination degrees and *tenths
- 4 star name
- 5 p for a primary, s for a secondary minimum
- 6 observed heliocentric Julian date of the minimum, minus 2400000
- 7 observed minus computed date of the minimum, computed by means of the elements of the GCVS....
....1985 for stars alphabetically prior to PAVO
....1969 otherwise
- Exceptions are denoted and have been specified in BBSAG Bulletin 76 page 1, cipher 7
- 8 number of observations used, systematically weighted only in the case of the observer APs
- 9 observer, abbreviated as above

Reductions were made mainly using the tracing paper method.

* last digits, formerly rounded, from now on cut down following truncated
a recent recommendation in the IAU Bulletin

A O Aquarii , the correct Period

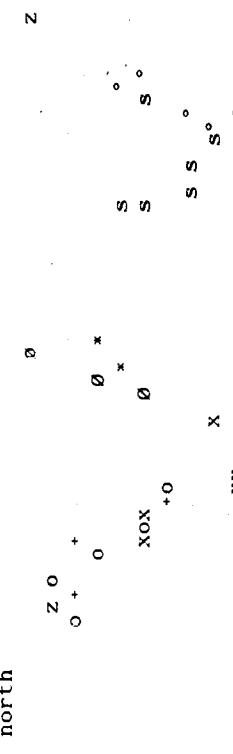
23312	2205+059	DO Peg	p 46612.554	+.201	5 KL
23313	0405+464	XZ Per	p 46629.556	+.010	7 KL
23314	0304+407	B Per	p 46633.605	-.180	9 RG
23315	1843-103	AC Sct	p 46563.550	+.144	5 KL
23316	1849-063	BS Sct	p 46598.521	+.091	8 KL
23317	1842-061	FG Sct <i>huc</i>	s 46642.473	-.061	7 KL
23318	1556+173	AO Ser	p 46611.410	+.006	11 APS
23319	2224+159	AU Ser	p 46607.425	-.020	* 7 RG * elements according to GCVS 1974
23320	1534+190	LX Ser	p 46622.456	+.044	* 11 DE * elements according to IAUC 3466
23321			p 46622.456	+.045	* 7 KL
23322	1206+563	TY UMa	p 46625.466	+.044	* 8 KL
23323			s 46535.367	-.001	* 7 RG * elements according to IBVS 1949
23324			s 46552.377	-.009	* 6 RG
23325	1334+521	UX UMa	p 46556.401	-.001	6 KL
23326	1108+466	BM UMa	p 46561.385	+.003	* 5 KL * elements according to GCVS 1976
23327	1620+863	W UMi	p 46614.481	-.033	11 APS
23328	1402-099	VV Vir	p 46559.359	-.007	6 KL
23329	1158+132	AH Vir	p 46528.384	+.080	21 APS
23330			p 46561.394	+.091	14 APS
23331	1340+048	AZ Vir	s 46553.388	+.010	* 7 RG * elements according to GCVS 1976
23332			p 46607.410	+.008	* 6 RG
23333			s 46610.388	+.014	* 6 RG
23334	1345-003	BF Vir	p 46552.383	-.053	18 APS
23335			p 46559.427	-.045	14 APS
23336			p 46591.443	-.068	12 APS
23337	1934+266	FR Vul	p 46611.474	+.005	8 PWI
23338	1944+287	GP Vul	p 46606.395	-.016	6 KL

My visual survey during 8 nights in July and August, 1986,
results in the rough elements

$$JD_{\min} I \text{ hel.} = 2446628.59 + .490 E$$

and in the corresponding lightcurve shown in figure 77.
K.Locher

Fig. 77

comparison
magnitude

Visual Duplicity of NSV 11987 Dra

In a first investigation (BBSAG Bulletin 72, page 4), which had yielded the previously unknown period, no visual companion was got aware of.

Near the mid-eclipse of 1986 July 13 we were able to see a faint visual companion and estimated



D.P.Elias & K.Locher

plot symbols:

JD 2446600+

z 26 27 28 29 39 40 42 44

phase