BBSAG Bulletin 55

1981 July 6

88 th List of Minima of Eclipsing Binaries

The following table lists 8 photoelectric and 59 visual minima obtained mainly during June 1981 by the observers

MA	Maria Andrakakou, Athens, Greece
(RD)	Roger Diethelm, Flüh, Switzerland, photoelectric
(DE)	Demetrius P. Elias, Penteli, Greece, photoelectric
DE	" " " " visual
RG	Robert Germann, Wald, Switzerland
KL	Kurt Locher, Grüt, Switzerland
IN	Ioulia Nikolaou, Glifada, Greece
HP	Hermann Peter, Otelfingen, Switzerland

The O - C values refer to the linear elements of the GCVS 1969, disregarding improved elements in the 1971, 1974, and 1976 supplements to the GCVS. Reductions were made mainly using the tracing paper method.

current no.	star	minimum order	JD hel 244...	O-C	n	observer
17163	TW And	I	4767.543	+.025	8	KL
17164	EP And	II	4767.566	*	5	KL
17165		I	4787.561	*	8	KL
17166	GZ And	II	4770.516	**	6	KL
17167	V 346 Aql	I	4779.438	-.014	6	KL
17168	V 479 Aql	I	4770.400	+.015	8	KL
17169	V 803 Aql	I	4770.551	***	7	KL
17170	TU Boo	II	4758.402	.000	6	KL
17171		II	4758.412	+.009	6	MA
17172	TZ Boo	II	4770.422	+.030	7	RG
17173	V 523 Cas	II	4779.524	****	6	KL
17174	U Cep (s)	I	4758.500	+.050	6	KL
17175	RW Com	II	4770.390	-.063	8	RG
17176	ZZ Cyg	I	4771.542	-.033	6	KL
17177	V 382 Cyg	II	4757.493	+.052	7	(RD)
17178	V 456 Cyg	I	4771.443	+.028	8	HP
17179	TT Del	I	4761.563	+.074	6	KL
17180	TY Del	I	4767.571	+.011	6	KL
17181		I	4779.490	+.019	7	KL
17182	RZ Dra	I	4771.405	-.017	8	HP
17183	TZ Dra	I	4770.430	+.011	6	RG

* GCVS 1969 period erroneous, O - C according to the GCVS 1976 : +.013 +.005

** not contained in the GCVS 1969, O - C according to the GCVS 1976 : +.082

*** O - C according to the GCVS 1969 exceeds one period, O - C according to the elements of BBSAG Bulletin 38, page 6 : +.009

**** not contained in the GCVS 1969, O-C according to the GCVS 1976 : -.003

(s) slightly disturbed according to the criteria of Crawford and Olson, PASP 91, page 413, 1979, but no correction applied to the symmetric solution

current no.	star	minimum order	JD hel 244...	O - C	n	observer
17184	CM Dra	I	4751.488	*	32	DE
17185		I	4755.294	*	29	DE
17186	SZ Her	I	4715.376	+.037	20	DE
17187		I	4773.457	+.033	9	IN
17188		I	4773.463	+.039	7	MA
17189	TU Her	I	4757.421	-.085	6	MA
17190		I	4757.426	-.080	7	HP
17191		I	4757.428	-.078	6	KL
17192	UX Her	I	4746.4010	-.0628	32	DE
17193	AK Her	I	4751.4257	-.0349	10	DE
17194	BC Her	I	4757.484	-.281	12	HP
17195	CC Her	I	4771.530	+.104	6	KL
17196	DQ Her	I	4770.556	+.009	7	KL
17197	ES Her	I	4763.470	-.136	9	KL
17198		I	4770.512	-.133	6	KL
17199	MT Her	I	4766.528	+.041	6	KL
17200		I	4767.506	+.044	6	KL
17201	δ Lib	I	4757.443	+.037	9	RD
17202	TT Lyr	I	4761.396	+.002	8	KL
17203	EW Lyr	I	4757.471	+.074	11	HP
17204		I	4757.477	+.080	6	KL
17205	V 451 Oph	I	4757.481	+.004	8	RD
17206	V 508 Oph	I	4757.408	+.014	7	HP
17207	V 913 Oph	I	4766.555	-.119	5	KL
17208		I	4770.396	-.113	7	KL
17209	AO Ser	I	4701.4624	+.0007	25	DE**
17210		I	4766.530	-.004	4	KL
17211		I	4767.418	+.005	9	HP
17212	AU Ser	II	4722.4745	+.0160	33	DE
17213		I	4750.4970	+.0178	31	DE
17214	V 1933 Sgr	I	4757.546	+.502	6	KL
17215	UX UMa	I	4693.335	+.001	26	DE
17216		I	4750.369	+.001	36	DE
17217		I	4757.450	+.001	7	MA
17218		I	4757.451	+.001	7	KL
17219		I	4770.430	.000	8	KL
17220	VV Vir	I	4757.415	***	6	KL
17221		I	4757.418	***	6	MA
17222	XZ Vul	I	4758.471	+.290	7	MA
17223		I	4758.486	+.305	7	KL
17224	BO Vul	I	4757.515	-.088	6	KL
17225		I	4761.407	-.087	6	KL
17226	GP Vul	I	4767.501	-.018	6	KL
17227		I	4770.587	-.028	7	KL
17228	NO Vul	II	4770.361	****	6	KL
17229		I	4779.453	****	7	KL

* GCVS elements incomplete, O-C according to Martins' elements PASP 87, page 168, 1975: -.48o -.48o

** teamwork with MA and IN

*** O-C according to the GCVS exceeds two periods, O-C according to the elements of BBSAG Bulletin 31, p.6 : -.008 -.006

**** not contained in the GCVS 1969, O-C according to the GCVS 1976: +.015 +.024