

BBSAG Bulletin 33

1977 July 12

The following table lists 249 minima obtained visually mainly during 1977 March to June by the observers

AB Alberto Buzzoni, Ferrara, Italy
 RD Roger Diethelm, Reinach, Switzerland
 RG Robert Germann, Wald, Switzerland
 RK Rudolf Kratochwill, Graz, Austria
 KL Kurt Locher, Grüt, Switzerland
 EL Eolo Lucentini, Calderola, Italy
 AP Angelo del Parigi, Matera, Italy
 HP Hermann Peter, Otelfingen, Switzerland
 CP Cosimo Plasmati, Matera, Italy
 EP Ennio Poretti, Arconate, Italy
 GT Gilles Troispoux, Fleury-lès-Aubrais, France

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.

cur- rent no.	star	minimum or- der	JD hel 244...	o-c	ob- ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	O-C	ob- ser- ver
11349	RT And	I	3269.562	-0.009	11 KL	11369	WW Aur	I	3217.319	+0.001	16 EP
11350	XZ And	I	3204.391	-0.027	10 KL	11370		I	3217.322	+0.004	11 HP
11351	AB And	II	3279.616	+0.026	11 KL	11371		I	3222.370	+0.002	9 HP
11352		II	3292.565	+0.031	8 RG	11372		II	3246.352	-0.003	8 EP
11353	EP And	I	3204.274	*	10 KL	11373		II	3246.364	+0.008	10 AB
11354		I	3291.551	*	8 KL	11374	ZZ Aur	I	3213.389	-0.019	8 HP
11355		II	3292.562	*	8 KL	11375	AR Aur	II	3258.332	-0.004	13 EP
11356		II	3311.555	*	7 KL	11376		II	3258.333	-0.003	10 AP
11357	RY Aqr	I	3292.523	-0.073	7 RG	11377	TU Boo	II	3219.665	+0.003	6 KL
11358	OO Aql	II	3219.676	-0.041	6 KL	11378		II	3273.491	-0.002	8 KL
11359		I	3231.588	-0.040	5 KL	11379	Y Cam	I	3292.503	+0.118	7 KL
11360		II	3251.604	-0.042	9 RG	11380	SV Cam	I	3239.283	-0.009	6 KL
11361		II	3311.411	-0.036	7 RG	11381		I	3265.379	-0.008	9 KL
11362	V803 Aql	I	3307.475	-0.023	6 KL	11382	TX Cnc	II	3239.446	+0.015	7 RD
11363		II	3311.555	-0.026	8 KL	11383		I	3250.346	+0.003	7 RD
11364	V805 Aql	I	3205.678	+0.020	13 KL	11384	WW Cnc	I	3212.376	-0.251	10 HP
11365	TT Aur	I	3212.362	-0.002	10 RD	11385	WY Cnc	I	3219.311	-0.001	7 RG
11366		I	3212.371	+0.007	11 HP	11386	YZ CVn	I	3220.546	**	9 KL
11367		I	3220.367	+0.006	10 HP	11387		I	3273.452	**	10 KL
11368		I	3244.374	+0.025	6 KL	11388		I	3307.538	**	11 KL

* GCVS 1969 period erroneous, O-C according to the elements of the GCVS 1975:
 +0.009 -0.001 -0.001 0.000

** no period given by the GCVS, O-C according to the elements of BBSAG Bulletin
 27, p.7: +0.012 +0.020 +0.016

cur- rent no.	star	minimum or- der	JD hel 244...	0 - C	ob- n ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	0 - C	ob- n ser- ver
11389	R CMa	I	3202.272	+0.016	12 EP	11428	W Del	I	3304.511	+0.136	8 KL
11390		I	3203.396	+0.004	22 EP	11429	TT Del	I	3291.539	+0.045	7 KL
11391		I	3219.312	+0.016	13 EP	11430	Z Dra	I	3213.311	-0.002	6 KL
11392	RZ Cas	I	3182.378	+0.001	35 EL	11431		I	3217.388	+0.002	7 HP
11393		I	3182.382	+0.005	25 CP	11432	TW Dra	I	3204.414	-0.040	8 KL
11394		I	3250.506	0.000	18 EP	11433		I	3291.396	-0.071	11 RG
11395		I	3274.416	+0.004	17 EP	11434	WW Dra	II	3212.490	+0.145	10 KL
11396		I	3311.471	+0.006	25 EP	11435		I	3219.397	+0.106	8 RG
11397	LR Cas	I	3220.324	-0.060	6 RD	11436		I	3228.673	+0.124	10 RG
11398	V 523 Cas	II	3266.608	*	6 KL	11437		I	3307.414	+0.161	10 RG
11399	V 752 Cen	I	3244.457	**	9 KL	11438	AI Dra	I	3248.469	+0.004	13 EP
11400		II	3245.378	**	8 KL	11439		I	3308.412	+0.007	11 EP
11401	U Cep	I	3210.312	+0.040	7 KL	11440		I	3314.406	+0.007	16 EP
11402		I	3292.568	+0.028	10 KL	11441	CM Dra	I	3288.401	****	11 KL
11403		I	3297.561	+0.033	7 KL	11442		I	3291.573	****	10 KL
11404		I	3307.537	+0.037	9 KL	11443		I	3293.480	****	6 KL
11405		I	3322.500	+0.042	6 KL	11444		I	3307.432	****	7 KL
11406	EG Cep	I	3296.404	+0.019	8 KL	11445	S Equ	I	3311.445	+0.008	10 RG
11407	RW Com	I	3210.330	-0.041	6 RG	11446	YY Eri	I	3210.305	-0.018	8 RG
11408		I	3212.339	-0.049	10 RG	11447	RW Gem	I	3212.416	-0.005	12 HP
11409		I	3250.324	-0.040	8 RG	11448		I	3212.424	+0.004	10 KL
11410		I	3254.358	-0.040	8 RG	11449	TX Gem	I	3217.327	-0.002	7 KL
11411		I	3281.407	-0.050	8 RG	11450		I	3217.333	+0.004	11 HP
11412		II	3288.412	-0.046	7 RG	11451	AF Gem	I	3213.427	-0.012	8 HP
11413	RZ Com	I	3213.413	0.000	7 HP	11452	BD Gem	I	3250.368	+0.038	8 RD
11414	CC Com	I	3212.427	+0.108	8 HP	11453	CX Gem	I	3210.311	-0.027	10 KL
11415		II	3222.468	+0.109	8 HP	11454	FG Gem	I	3220.402	-0.078	8 HP
11416		II	3239.459	+0.107	9 HP	11455	GW Gem	I	3220.430	-0.018	9 HP
11417		I	3250.381	+0.105	7 RG	11456		I	3222.402	-0.024	9 HP
11418		I	3254.356	+0.109	9 RG	11457	RX Her	I	3291.377	+0.013	8 RG
11419		II	3254.467	+0.109	6 RD	11458		II	3307.390	+0.018	7 RG
11420	U CrB	I	3288.467	-0.042	11 KL	11459	TU Her	I	3288.429	-0.079	11 KL
11421	TW CrB	II	3254.465	***	6 RD	11460	TX Her	I	3248.458	+0.008	20 EP
11422		I	3295.393	***	7 KL	11461		I	3250.516	+0.006	31 EP
11423	VW Cyg	I	3307.473	+0.024	7 KL	11462		I	3285.528	+0.001	27 EP
11424	ZZ Cyg	I	3205.656	-0.032	10 KL	11463	CC Her	I	3278.533	+0.059	9 KL
11425		I	3278.570	-0.039	7 KL	11464		I	3304.544	+0.060	7 KL
11426		I	3297.439	-0.027	6 KL	11465		I	3311.482	+0.063	10 KL
11427	V 477 Cyg	I	3297.397	-0.030	7 RG						

* not contained in the GCVS 1969, 0 - C according to the GCVS 1976 : -0.006

** not contained in the GCVS 1969, 0 - C according to the GCVS 1974 :
-0.017 -0.022

*** not contained in the GCVS 1969, 0 - C according to the GCVS 1976 :
-0.006 -0.004

**** GCVS elements incomplete, 0 - C according to the elements of Martins, PASP 87
(1975) p.168 : -0.237 -0.237 -0.233 -0.235

cur- rent no.	star	minimum or- der	JD hel 244...	O - C	n	ob- ser- ver
11466	DP Her	I	3273.446	-0.178	6	KL
11467	MT Her	I	3283.369	+0.027	6	KL
11468	u Her	I	3306.408	+0.013	9	EP
11469		I	3308.470	+0.024	10	EP
11470	UY Hya	I	3250.354	-0.001	9	RD
11471	VY Hya	I	3239.359	-0.010	15	RG
11472		I	3265.368	-0.016	4	KL
11473		I	3273.378	-0.012	6	KL
11474	WY Hya	II	3213.403	+0.014	9	HP
11475	AV Hya	I	3220.421	-0.006	9	HP
11476	FG Hya	II	3220.356	+0.012	7	RD
11477	AU Lac	I	3275.553	-0.055	7	KL
11478	CM Lac	I	3291.460	-0.010	8	RG
11479	FP Lac	I	3304.451	-0.061	10	KL
11480	PP Lac	I	3291.560	*	6	KL
11481		II	3292.573	*	6	KL
11482	Y Leo	I	3212.481	+0.097	10	HP
11483		I	3212.481	+0.097	10	KL
11484		I	3239.457	+0.095	7	RD
11485		I	3239.459	+0.098	9	HP
11486	RW Leo	I	3210.315	+0.035	6	KL
11487	UV Leo	II	3201.494	-0.012	20	EP
11488		I	3202.397	-0.009	20	EP
11489		II	3212.312	+0.004	8	RG
11490		II	3215.298	-0.009	12	EP
11491		I	3217.403	-0.005	8	HP
11492		II	3228.500	-0.010	26	EP
11493		II	3239.302	-0.010	6	KL
11494		II	3246.503	-0.010	27	EP
11495		I	3247.406	-0.006	33	EP
11496		II	3249.505	-0.008	27	EP
11497		I	3250.406	-0.006	30	EP
11498		I	3259.407	-0.007	36	EP
11499		I	3274.406	-0.010	30	EP
11500		I	3277.403	-0.013	30	EP
11501	VZ Leo	I	3239.386	-0.154	11	HP
11502	XY Leo	I	3212.337	-0.033	9	RD
11503		I	3220.303	-0.022	5	RD
11504	BL Leo	I	3217.391	-0.006	4	KL
11505		II	3218.371	-0.014	5	KL

cur- rent no.	star	minimum or- der	JD hel 244...	O - C	n	ob- ser- ver
11506	RY Lyn		3220.350	**	9	RD
11507	SX Lyn	I	3273.337	-0.316	10	RG
11508	UU Lyn	I	3213.381	-0.037	9	HP
11509		I	3220.426	-0.017	8	HP
11510		I	3250.395	-0.031	8	RD
11511	TZ Lyr	I	3211.678	+0.026	6	KL
11512	EW Lyr	I	3307.581	+0.045	6	KL
11513		I	3311.490	+0.056	10	KL
11514	RW Mon	I	3222.356	-0.003	11	HP
11515	BO Mon	I	3218.312	+0.133	11	HP
11516		I	3218.313	+0.135	8	KL
11517	U Oph	I	3292.558	-0.003	10	RG
11518	RV Oph	I	3288.405	-0.002	7	KL
11519	V449 Oph	I	3281.565	+0.064	7	KL
11520		I	3291.506	+0.061	10	KL
11521	V502 Oph	I	3312.435	-0.039	14	GT
11522	V508 Oph	I	3281.356	+0.016	7	RG
11523		II	3297.386	+0.013	10	KL
11524	V752 Oph	I	3281.566	***	6	KL
11525		I	3283.412	***	7	KL
11526	V868 Oph	I	3283.436	-0.051	6	KL
11527	V916 Oph	I	3292.579	+0.044	7	KL
11528	V1010 Oph	I	3251.591	-0.073	8	RG
11529		I	3255.562	-0.070	10	KL
11530		I	3273.416	-0.075	8	RG
11531		I	3292.595	-0.078	9	RG
11532		I	3306.486	-0.076	14	EP
11533		I	3308.480	-0.067	13	EP
11534		I	3312.426	-0.090	13	GT
11535		I	3312.440	-0.076	21	EP
11536		I	3314.430	-0.070	15	EP
11537	ER Ori	II	3217.335	-0.026	7	HP
11538	OS Ori	I	3217.342	-0.027	10	HP
11539	V392 Ori	I	3212.367	+0.016	10	RD
11540	V640 Ori	I	3218.311	-0.015	7	KL
11541	BN Peg	I	3322.595	-0.296	5	KL
11542	DI Peg	I	3311.594	-0.020	5	KL
11543	RT Per	I	3216.364	-0.058	4	KL

* no period given by the GCVS, O - C according to Figer's (1st set) elements IBVS 1231: +0.039 +0.049

** period unknown

*** no period given by the GCVS, O - C according to the elements of BBSAG Bulletin 27, page 4, footnote 1 : -0.014 -0.004

current no.	star	minimum or-der	JD hel 244...	O - C	observer	current no.	star	minimum or-der	JD hel 244...	O - C	observer
11544	ST Per	I	3154.281	-0.004	6 KL	11571	UX Uma	I	3219.677	+0.001	6 KL
11545	KW Per	I	3204.284	+0.037	10 KL	11572		I	3273.368	0.000	5 KL
11546		I	3217.328	+0.043	7 KL	11573		I	3275.532	+0.001	5 KL
11547		I	3281.582	+0.041	4 KL	11574		I	3284.575	-0.003	5 KL
11548	β Per	I	3204.278	-0.109	10 RG	11575		I	3288.513	+0.002	7 KL
11549		I	3224.376	-0.083	11 RK	11576		I	3303.457	-0.001	7 KL
11550	UZ Pup	I	3220.333	-0.025	5 RD	11577		I	3304.440	-0.001	6 KL
11551	XZ Pup	I	3212.408	-0.016	11 HP	11578		I	3307.392	+0.001	6 KL
11552		I	3212.408	-0.016	7 KL	11579		I	3311.522	0.000	6 KL
11553		I	3245.284	-0.026	6 KL	11580	XY Uma	I	3212.361	-0.011	9 RD
11554	U Sge	I	3296.407	+0.009	10 KL	11581	XZ Uma	I	3204.303	-0.081	7 KL
11555	UZ Sge	I	3284.526	+0.062	6 KL	11582		I	3254.413	-0.086	12 RG
11556		I	3304.462	+0.057	7 KL	11583		I	3254.427	-0.072	6 RD
11557	XY Sgr	I	3291.547	+0.015	7 KL	11584	UW Vir	I	3273.432	+0.273	10 KL
11558	AK Ser	I	3275.467	-0.009	7 KL	11585	VV Vir	I	3220.496	**	6 KL
11559	AO Ser	I	3205.694	+0.002	6 KL	11586		I	3275.367	**	10 KL
11560		I	3279.560	+0.003	7 KL	11587		I	3283.398	**	7 KL
11561	AU Ser	I	3211.639	*	7 KL	11588		I	3303.476:	**	4 KL
11562		I	3275.406	*	10 KL	11589		I	3304.364:	**	5 KL
11563		II	3281.395	*	9 RG	11590		I	3307.488	**	7 KL
11564		II	3288.362	*	7 RG	11591	AH Vir	I	3291.398	+0.040	7 RG
11565	RW Tau	I	3239.330	-0.080	8 HP	11592	AZ Vir	I	3254.465	***	6 RD
11566	HU Tau	I	3212.352	+0.009	9 RD	11593		I	3281.403	***	12 RG
11567		I	3212.369	+0.026	9 HP	11594	BH Vir	I	3222.441	+0.004	7 HP
11568	TX Uma	I	3212.283	-0.001	9 RG	11595	Z Vul	I	3266.609	+0.003	11 KL
11569		I	3215.352:	-0.004:	19 EP	11596	BO Vul	I	3284.496	-0.068	7 KL
11570		I	3218.400	-0.011	15 EP	11597	BU Vul	I	3219.651	+0.006	8 KL

- * GCVS 1969 period too inaccurate for reasonable reduction, O-C according to the GCVS 1974: -0.006 -0.011 -0.013 -0.004
- ** O - C according to the GCVS exceeds 2 periods, O - C according to the elements of BBSAG Bulletin 31, page 5 : +0.010 +0.006 +0.007 +0.009: +0.005: +0.006
- *** GCVS 1969 period erroneous, O - C according to the GCVS 1976: -0.002 +0.012

The Amplitude of V 868 Ophiuchi

is unknown according to the GCVS which states 12.9 ... (13.8p . From comparison to several nearby AAVSO sequences I obtain a smaller amplitude,

$$|m_{\max} - m_{\min}| = .9 \pm .1 ,$$

but, on the other hand, a fainter minimum in spite :

$$m_V \min = 14.3 \pm .2$$

K. Locher

