

BBSAG Bulletin 21

1975 April 4

54th List of Minima of Eclipsing Binaries

The following table lists 435 minima obtained visually mainly during 1975 February and March by the observers

- MB Michel Behagle, Wattrelos, France
- PC Paolo Carnevali, Roma, Italy
- RD Roger Diethelm, Reinach, Switzerland
- AF Alain Figer, Paris, France
- RG Robert Germann, Wald, Switzerland
- ZH Zoltan Hevesi, Kaposvár, Hungary
- KL Kurt Locher, Grüt, Switzerland
- HP Hermann Peter, Otelfingen, Switzerland
- PR Philippe Ralaincourt, Nantes, France
- JR Joseph Remis, St. Avoird, France
- RR Raymond Rolland, Rennes, France
- AR Alain Royer, Epinac, France
- TR Thierry Roudier, Toulouse, France

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

current star no.	minimum order	JD hel 244...	O - C	observer				
7549	XZ And	I 2459.247	-0.016	6	KL	7583	II 2460.351	+0.005 12 TR
7550		I 2501.322	-0.017	8	KL	7584	II 2460.357	+0.011 12 PR
7551	BX And	II 2467.318	-0.017	8	RD	7585	II 2460.374	+0.028 6 KL
7552	EP And	I 2448.380	+0.052	13	RD	7586	II 2464.491	+0.010 10 JR
7553		I 2450.398	+0.058	9	RD	7587	EP Aur	I 2469.314 -0.030 9 RD
7554		I 2450.400	+0.060	8	KL	7588	HL Aur	I 2448.373 -0.001 12 RD
7555	GZ And	II 2453.277	*	5	KL	7589		I 2453.338 -0.016 9 RD
7556		II 2471.286	*	6	KL	7590		I 2453.351 -0.003 7 KL
7557	S Ant	I 2445.496	+0.016	8	KL	7591		I 2471.401 -0.006 6 RD
7558		II 2446.477	+0.024	5	KL	7592		I 2501.285 -0.002 10 KL
7559		I 2458.434	-0.013	5	KL	7593	ZZ Boo	I 2449.503 -0.005 8 KL
7560	OO Aql	I 2455.694	-0.032	7	KL	7594	i Boo	I 2449.510 +0.029 8 JR
7561		II 2473.684	-0.033	6	KL	7595	Y Cam	I 2469.344 +0.034 5 KL
7562	RS Ari	I 2454.285	-0.006	8	KL	7596	SV Cam	I 2452.269 -0.016 9 RG
7563	SS Ari	I 2464.314	+0.099	9	RD	7597		I 2452.271 -0.015 5 RD
7564	RZ Aur	I 2447.516	+0.041	5	KL	7598		I 2452.276 -0.009 13 AF
7565		I 2450.531	+0.045	5	KL	7599		I 2452.276 -0.009 5 KL
7566	TT Aur	I 2467.350	-0.016	9	RD	7600		I 2465.314 -0.019 12 KL
7567		I 2467.363	-0.003	12	HP	7601		I 2465.328 -0.005 7 RG
7568		I 2471.370	+0.004	11	HP	7602		I 2468.294 -0.005 7 KL
7569	WW Aur	II 2438.352	+0.003	14	RR	7603		I 2469.477 -0.008 7 KL
7570		II 2448.441	-0.008	8	JR	7604		I 2469.487 +0.002 14 AF
7571		II 2448.446	-0.004	12	HP	7605	AL Cam	I 2460.444 -0.002 7 KL
7572		I 2452.270	+0.033	9	AF	7606		I 2460.450 +0.003 7 RD
7573		II 2453.507	+0.008	10	JR	7607	AS Cam	I 2460.420 -0.007 7 RD
7574		I 2462.336	-0.001	10	HP	7608	RY Cnc	I 2446.524 -0.042 7 KL
7575		I 2467.348	-0.039	8	RD	7609		I 2458.547 -0.041 13 KL
7576		I 2467.386	-0.001	11	HP	7610	TU Cnc	I 2473.411 -0.009 10 KL
7577		I 2472.427	-0.010	11	HP	7611	WW Cnc	I 2461.317 -0.230 7 RD
7578		I 2477.478	-0.009	12	RR	7612		I 2471.358 -0.232 7 RD
7579	ZZ Aur	I 2453.349	-0.022	7	RD	7613	WX Cnc	I 2452.348 +0.119 11 RD
7580	AM Aur	I 2469.8	+0.2	9	KL	7614	WY Cnc	I 2445.510 +0.001 12 KL
7581	AP Aur	II 2464.401	+0.183	9	RD	7615		I 2460.433 -0.004 6 RD
7582	AR Aur	I 2458.300	+0.022	7	KL	7616		I 2460.439 +0.001 6 KL
						7617	VZ CVn	I 2464.419 -0.018 6 RD
						7618	R Cma	I 2460.459 -0.029 7 RD
						7619		I 2467.300 -0.004 9 HP

*new designation following IRVS 961. formerly ADS 1693A and not contained in

cur- rent no.	star	minimum or- der	JD hel 244...	0 - C	n	ob- ser- ver
7620	RX CMA	I	2454.440	-0.020	12	KL
7621	TU CMA	I	2446.421	+0.015	7	KL
7622		I	2454.316	+0.015	6	KL
7623	TX CMA	I	2471.394	-0.055	6	KL
7624	AG CMi	I	2460.434	-0.139	5	KL
7625		I	2460.437	-0.137	5	RD
7626	AK CMi	I	2450.321	+0.011	9	RD
7627		I	2450.329	+0.020	7	KL
7628		I	2454.290	+0.019	6	KL
7629		I	2458.253	+0.020	8	KL
7630		I	2502.391	+0.019	10	KL
7631	RZ Cas	I	2417.424	+0.005	17	RR
7632		I	2435.351	+0.002	9	RG
7633		I	2447.301	+0.001	10	KL
7634		I	2447.311	+0.011	11	MB
7635		I	2448.498	+0.002	10	HP
7636		I	2448.501	+0.006	11	JR
7637		I	2453.276	-0.001	7	RD
7638		I	2453.276	-0.001	13	PC
7639		I	2453.277	+0.001	10	HP
7640		I	2460.447	-0.001	8	RD
7641		I	2460.459	+0.011	15	AR
7642		I	2461.653	+0.009	10	KL
7643		I	2466.422	-0.002	7	ZH
7644		I	2466.425	+0.002	7	KL
7645		I	2472.403	+0.002	11	HP
7646		I	2478.379	+0.003	10	PC
7647		I	2490.339	+0.010	12	PR
7648		I	2491.531	+0.006	7	KL
7649	TV Cas	I	2465.412	-0.005	12	JR
7650	AB Cas	I	2453.387	+0.002	11	HP
7651	LR Cas	I	2467.308	-0.044	9	RD
7652	OR Cas	I	2471.371	+0.022	7	RD
7653	V523 Cas	II	2470.429	*	5	KL
7654	U Cep	I	2447.428	+0.026	8	KL
7655		I	2467.371	+0.024	15	HP
7656		I	2467.382	+0.036	10	KL
7657	VW Cep	II	2445.360	-0.083	6	KL
7658	WX Cep	I	2467.275	-0.010	8	RD
7659	WZ Cep	I	2453.332	-0.003	8	RD
7660		I	2460.432	0.000	6	RD
7661	XX Cep	I	2453.383	-0.016	12	HP
7662	EG Cep	I	2447.341	+0.020	6	KL
7663		I	2503.436	+0.019	8	KL
7664	GK Cep	I	2452.442	-0.056	11	HP
7665		I	2453.393	-0.041	10	HP
7666	SS Cet	I	2451.324	-0.053	17	RG
7667		I	2451.324	-0.052	8	KL
7668		I	2454.302	-0.049	7	KL
7669	VY Cet	II	2452.255	**	4	KL
7670	AA Cet	I	2448.244	***	4	RD
7671		I	2448.258	***	6	KL
7672		II	2452.272	***	6	KL
7673	RW Com	II	2501.379	-0.036	5	KL
7674		I	2503.398	-0.035	6	KL
7675	CC Com	II	2491.561	+0.094	6	KL
7676		II	2502.371	+0.090	6	KL
7677		I	2503.366	+0.092	7	KL
7678		II	2503.475	+0.091	6	KL
7679	U CrB	I	2449.586	-0.038	10	JR
7680	TW CrB	I	2455.662	****	6	KL
7681		I	2491.579	****	7	KL
7682		II	2493.641	****	6	KL
7683	W Crv	II	2449.508	-0.011	7	KL
7684		I	2460.574	-0.005	7	KL
7685		II	2464.650	-0.005	11	KL
7686		I	2491.628	+0.002	5	KL
7687		II	2503.443	-0.019	11	KL
7688	V Crt	I	2445.470	+0.030	4	KL
7689	ZZ Cyg	I	2455.711	-0.038	7	KL
7690		I	2491.546	-0.033	6	KL
7691	Z Dra	I	2446.370	0.000	5	KL
7692		I	2461.285	-0.006	5	RD
7693		I	2461.296	+0.004	5	KL
7694	AI Dra	I	2470.445	+0.011	8	KL
7695	RU Eri	I	2452.276	+0.017	7	RD
7696		I	2452.291	+0.032	6	KL
7697		I	2464.289	+0.018	7	RD
7698		I	2464.291	+0.020	7	KL
7699	TZ Eri	I	2453.354	-0.043	7	RD
7700		I	2453.354	-0.043	10	HP
7701		I	2453.354	-0.043	7	KL
7702	WX Eri	I	2468.290	+0.016	8	KL
7703	YY Eri	I	2448.369	-0.009	9	HP
7704		I	2450.290	-0.017	7	RG
7705		I	2450.304	-0.002	10	HP
7706		I	2451.269	-0.002	7	HP
7707		II	2451.418	-0.014	6	RG
7708		I	2458.338	-0.006	11	HP
7709		I	2467.335	-0.011	7	RG
7710		I	2469.268	-0.007	5	KL
7711		I	2477.304	-0.008	9	RG
7712	BZ Eri	I	2448.302	+0.004	10	RD
7713		I	2450.289	-0.002	8	RD
7714		I	2452.278	-0.007	7	RD
7715		I	2452.284	+0.001	7	KL
7716	RW Gem	I	2447.335	+0.003	11	KL
7717		I	2467.391	0.000	10	KL
7718	TX Gem	I	2461.319	-0.006	12	RD
7719		I	2461.326	0.000	9	KL
7720	YY Gem	I	2464.429	-0.004	5	RD
7721		II	2467.281	-0.002	6	RD
7722		I	2469.300	-0.019	10	RD
7723	AF Gem	I	2452.400	-0.015	12	HP
7724		I	2472.302	-0.010	10	HP
7725		I	2503.376	-0.024	6	KL
7726	AV Gem	I	2453.352	-0.023	8	RD
7727		I	2475.347	-0.017	12	KL
7728	BD Gem	I	2453.332	+0.043	11	RD
7729		I	2474.348	+0.041	6	KL

* new designation following IBVS 961, formerly K3П5867; not contained in the GCVS, 0-C according to Häussler's elements IBVS 887: +0.012

** 0-C according to the elements of BBSAG Bull 11, p.5: -0.013 (see** Bull. 20, p.2)

*** not contained in the GCVS 1969, 0-C according to the GCVS 1974: -0.025
-0.010 -0.018

**** new designation following IBVS 961, formerly K3П7265; not contained in the GCVS, 0-C according to the elements of Песевич and Каретников, Пере-

cur- rent no.	star	minimum or- der	JD hel 244...	0 - C	n	ob- ser- ver
7730	CX Gem	II	2471.344	-0.089	6	RD
7731	EG Gem	I	2471.414	+0.155	10	KL
7732	FG Gem	I	2450.421	-0.074	8	RD
7733	GW Gem	I	2461.402	-0.024	10	HP
7734	HR Gem	I	2450.279	-0.001	10	RD
7735	SZ Her	I	2470.507	+0.017	7	KL
7736	TX Her	II	2499.687	-0.022	6	KL
7737	UX Her	I	2455.662	-0.053	9	KL
7738	RX Hya	I	2464.309	+0.014	6	KL
7739		I	2464.316	+0.021	6	RD
7740		I	2473.430	+0.009	10	KL
7741	VW Hya	I	2454.352	-0.140	7	KL
7742	WY Hya	I	2445.487	+0.013	11	KL
7743		II	2446.555	+0.008	7	KL
7744		I	2448.350	+0.013	10	HP
7745		I	2453.367	+0.018	10	HP
7746		I	2458.376	+0.015	12	HP
7747		II	2472.330	+0.006	9	HP
7748		I	2501.326	+0.004	10	HP
7749		II	2502.400	+0.004	5	KL
7750		II	2502.409	+0.014	10	HP
7751	AF Hya	I	2478.466	+0.079	5	KL
7752	AI Hya	I	2464.338	-0.402	8	RD
7753	EU Hya	I	2452.330	-0.075	10	HP
7754	SW Lac	II	2450.288	-0.078	8	RG
7755	Y Leo	I	2450.364	+0.084	10	HP
7756		I	2450.365	+0.085	17	RG
7757		I	2450.367	+0.087	8	KL
7758		I	2450.369	+0.089	8	RD
7759		I	2460.482	+0.086	7	RD
7760		I	2460.485	+0.089	8	KL
7761		I	2477.338	+0.081	8	KL
7762		I	2477.343	+0.086	11	RG
7763	RW Leo	I	2478.413	+0.036	8	KL
7764	UU Leo	I	2449.508	-0.022	7	KL
7765		I	2464.615	-0.033	6	KL
7766		I	2471.346	-0.022	6	KL
7767	UV Leo	II	2445.396	-0.002	11	KL
7768		II	2448.394	-0.004	7	RD
7769		I	2450.494	-0.004	10	JR
7770		II	2451.395	-0.004	9	JR
7771		II	2451.399	0.000	6	RG
7772		I	2453.492	-0.007	12	JR
7773		II	2460.389	-0.011	11	KL
7774		II	2463.395	-0.005	9	JR
7775		I	2467.290	-0.011	7	RG
7776		I	2470.293	-0.008	8	RG
7777		II	2472.386	-0.016	11	HP
7778		II	2502.394	-0.013	11	HP
7779		II	2502.396	-0.010	6	KL
7780	UX Leo	I	2460.420	-0.244	7	RD
7781		I	2464.421	-0.272	11	RD
7782	UZ Leo	I	2445.534	-0.118	7	KL
7783		II	2448.359	-0.077	6	RD
7784		II	2464.429	-0.089	8	RD
7785	XX Leo	I	2460.452	-0.027	7	RD
7786		I	2464.292	-0.071	5	KL
7787		I	2464.293	-0.070	5	RD
7788	XY Leo	II	2460.456	-0.018	7	RD
7789	AM Leo	I	2445.489	-0.011	10	KL

7790		I	2449.496	-0.028	11	JR
7791		II	2451.502	-0.034	11	JR
7792		I	2452.446	-0.004	8	HP
7793		I	2453.520	-0.028	9	JR
7794		II	2458.463	-0.023	11	HP
7795		I	2463.396	-0.028	9	JR
7796		II	2502.363	-0.019	8	HP
7797	CE Leo	I	2460.467	+0.081	7	RD
7798	RS Lep	I	2448.314	-0.011	9	RD
7799		I	2448.318	-0.007	10	KL
7800		I	2457.335	-0.010	5	KL
7801	RY Lep		2467.315	*	5	RD
7802			2469.352	*	10	RD
7803			2471.385	*	6	RD
7804	AS Lib	I	2461.698	-0.057	6	KL
7805		II	2478.620	-0.026	6	KL
7806	SW Lyn	I	2464.420	+0.023	10	RD
7807	SX Lyn	I	2452.259	-0.233	5	KL
7808		I	2452.262	-0.230	6	RD
7809		I	2454.249	-0.266	7	KL
7810		I	2458.279	-0.281	7	KL
7811		I	2464.345	-0.283	8	RD
7812		I	2464.350	-0.278	6	KL
7813		I	2470.400	-0.296	6	KL
7814	UU Lyn	I	2464.322	-0.027	6	RD
7815	UV Lyn	I	2469.273	-0.024	6	RD
7816	TZ Lyr	I	2468.672	+0.017	10	KL
7817	RW Mon	I	2448.482	-0.002	13	HP
7818		I	2450.384	-0.007	7	RD
7819		I	2450.385	-0.006	7	KL
7820		I	2450.388	-0.003	13	HP
7821		I	2452.292	-0.005	11	HP
7822		I	2452.296	-0.001	6	RD
7823		I	2452.297	0.000	6	KL
7824		I	2471.352	-0.006	13	HP
7825		I	2471.557	-0.001	6	RD
7826		I	2492.320	-0.005	10	KL
7827	TU Mon	I	2449.440	-0.075	4	KL
7828	AO Mon	I	2450.289	-0.156	7	KL
7829		I	2450.314	-0.131	9	RD
7830	AN Mon	I	2447.479	+0.060	9	KL
7831	AW Mon	I	2470.4	+0.4	6	KL
7832	BO Mon	I	2448.399	+0.131	15	HP
7833	FS Mon	I	2469.325	+0.052	11	RD
7834	FW Mon	I	2448.425	+0.024	13	HP
7835	HI Mon	I	2469.316	-0.045	9	RD
7836	IZ Mon	I	2450.298	-0.061	7	RD
7837	V 448 Mon	I	2469.289	-0.013	8	RD
7838	V 453 Mon	II	2450.346	+0.001	9	RD
7839	U Oph	II	2491.611	-0.018	7	KL
7840	V 508 Oph	II	2461.607	+0.008	6	KL
7841		I	2468.676	+0.009	7	KL
7842		II	2473.670	+0.004	6	KL
7843	V 1010 Oph	I	2491.606	-0.068	7	KL
7844	ER Ori	II	2445.480	-0.021	10	KL
7845		II	2446.328	-0.020	6	KL
7846		I	2450.345	-0.024	11	RG
7847		I	2450.354	-0.016	10	HP
7848		II	2451.410	-0.019	6	RD
7849		II	2452.262	-0.013	7	RG
7850		I	2458.390	-0.025	10	HP
7851		I	2464.322	-0.020	10	RD
7852		I	2464.325	-0.017	8	KL
7853		I	2467.288	-0.026	7	RG

current no.	star	minimum or-der	JD 244...	hel O-C	n	ob- ser- ver
7854		I	2467.288	-0.018	8	RD
7855		I	2467.288	-0.017	6	KL
7856		II	2471.300	-0.028	10	RG
7857		II	2471.316	-0.012	9	HP
7858	EW Ori	II	2471.424	-0.033	7	KL
7859		II	2478.373	-0.020	10	KL
7860	FL Ori	I	2453.353	+0.091	17	KL
7861		I	2453.356	+0.094	11	RD
7862	GG Ori	II	2469.372	+0.466*	12	RD
7863	OS Ori	I	2452.253	-0.001	6	RD
7864		I	2471.302	-0.021	15	KL
7865	V 343 Ori	I	2448.389	-0.008	6	RD
7866		II	2450.396	-0.016	6	RD
7867		II	2453.262	-0.029	5	RD
7868	V 640 Ori	I	2448.409	-0.014	10	RD
7869		I	2448.412	-0.012	9	KL
7870		I	2450.427	-0.017	9	KL
7871		I	2450.431	-0.013	8	RD
7872	RT Per	I	2460.391	-0.060	12	KL
7873	RV Per	I	2453.457	+0.011	6	KL
7874	ST Per	I	2460.412	-0.006	6	KL
7875	WY Per	I	2452.300	-0.036	6	KL
7876	XZ Per	I	2450.274	+0.004	6	RD
7877		I	2450.277	+0.007	6	KL
7878		I	2450.280	+0.010	9	HP
7879		I	2458.342	+0.011	11	KL
7880		I	2458.345	+0.014	10	HP
7881	DK Per	I	2492.371	+0.074	12	KL
7882		I	2501.359	+0.073	8	KL
7883	IT Per	I	2453.350	+0.089	8	RD
7884	IQ Per	I	2461.318	**	9	RD
7885	IU Per	I	2453.268	+0.025	6	RD
7886		I	2464.418	+0.034	7	RD
7887	KW Per	I	2458.336	+0.025	7	KL
7888	NP Per	I	2453.319	-0.020	6	RD
7889	β Per	I	2444.465	-0.064	8	PR
7890		I	2447.332	-0.064	15	RG
7891		I	2467.401	-0.066	13	HP
7892		I	2467.402	-0.065	10	ZH
7893		I	2470.275	-0.059	10	RG
7894	UZ Pup	II	2454.477	-0.039	8	KL
7895		II	2466.410	-0.029	8	KL
7896		II	2470.393	-0.021	7	KL
7897	XZ Pup	I	2460.425	-0.012	6	RD
7898		I	2460.430	-0.007	12	KL
7899		I	2471.383	-0.015	11	KL
7900	AY Pup	I	2446.476	+0.062	6	KL
7901		I	2447.421	+0.070	8	KL
7902		II	2450.449	+0.050	7	KL
7903		II	2458.423	+0.051	9	KL
7904		I	2471.332	+0.064	8	KL
7985		I	2478.374	+0.071	10	KL
7906	RZ Pyx	II	2453.445	+0.192	8	KL
7907		II	2470.501	+0.185	7	KL
7908		II	2478.383	+0.192	6	KL
7909	RS Sct	I	2491.619	+0.016	11	KL
7910	AU Ser	I	2455.652	+0.004	8	KL
7911		II	2461.640	0.000	8	KL
7912		II	2466.666	+0.002	8	KL
7913		I	2491.596	+0.002	6	KL

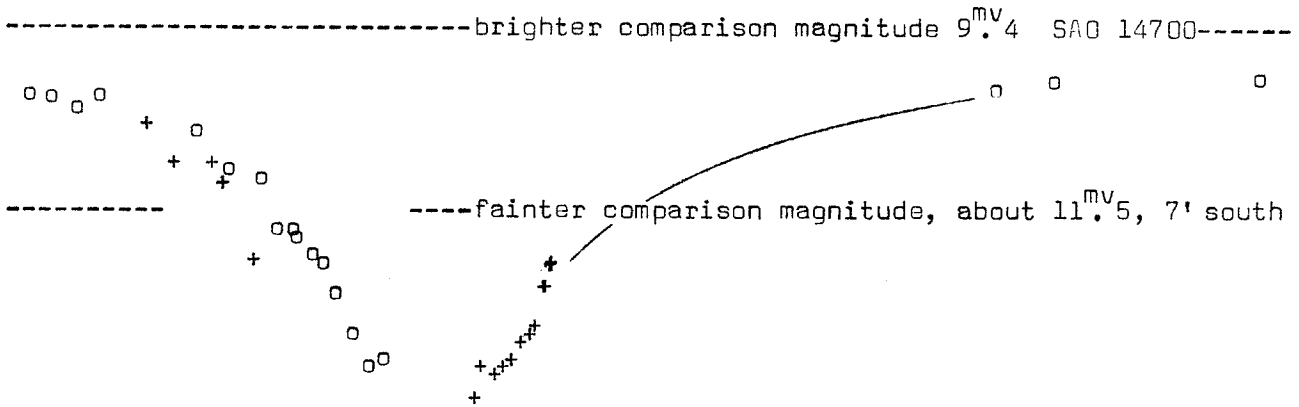
7914	RW Tau	I	2447.448	-0.071	10	KL
7915		I	2461.294	-0.072	9	HP
7916		I	2472.369	-0.070	19	HP
7917	SV Tau	I	2469.482	-0.013	11	KL
7918	WY Tau	I	2448.310	0.000	8	RD
7919	AH Tau	I	2446.332	-0.009	5	KL
7920		I	2447.332	-0.006	11	KL
7921		I	2448.317	-0.019	7	RD
7922		I	2450.309	-0.024	5	RD
7923		I	2450.312	-0.021	6	KL
7924		I	2452.308	-0.021	5	RD
7925	AM Tau	I	2457.313	-0.130	6	KL
7926		I	2461.401	-0.130	9	HP
7927	CD Tau	II	2452.403	-0.081	10	HP
7928	CT Tau	I	2446.308	+0.030	10	KL
7929		II	2447.303	+0.024	11	KL
7930		I	2448.286	+0.007	7	RD
7931		I	2448.314	+0.035	6	KL
7932		I	2450.291	+0.011	8	RD
7933		II	2453.297	+0.017	6	RD
7934		II	2461.304	+0.022	7	RD
7935		II	2469.300	+0.015	7	RD
7936		II	2469.318	+0.034	6	KL
7937		II	2471.318	+0.033	11	HP
7938		I	2472.310	+0.026	9	HP
7939		II	2501.320	+0.028	12	HP
7940	EN Tau	II	2450.325	+0.019	11	RD
7941	GR Tau	I	2448.311	+0.035	8	RD
7942	HU Tau	I	2445.360	+0.016	7	KL
7943		I	2445.362	+0.018	12	JR
7944		I	2447.409	+0.008	10	KL
7945		I	2449.464	+0.008	11	JR
7946		I	2449.476	+0.019	11	RR
7947		I	2451.508	-0.005	12	JR
7948	V Tri	I	2448.310	+0.012	12	HP
7949	X Tri	I	2445.401	-0.034	12	KL
7950		I	2446.368	-0.038	8	KL
7951		I	2447.346	-0.032	8	KL
7952		I	2448.315	-0.035	10	RD
7953		I	2448.315	-0.035	9	KL
7954		I	2448.316	-0.033	11	HP
7955		I	2450.254	-0.039	5	KL
7956		I	2450.259	-0.033	15	RG
7957		I	2450.261	-0.031	11	HP
7958		I	2450.264	-0.029	8	RD
7959	W UMa	I	2445.376	-0.100	15	RR
7960		I	2459.397	-0.092	9	TR
7961		I	2464.392	-0.102	7	RD
7962		I	2471.398	-0.102	16	AF
7963	TY UMa	II	2464.341	-0.022	8	RD
7964	VV UMa	I	2453.359	+0.059	7	RD
7965		I	2453.363	+0.062	7	KL
7966		I	2464.360	+0.062	8	RD
7967	ZZ UMa	I	2458.395	+0.005	11	HP
7968		I	2465.283	-0.004	7	RG
7969	AA UMa	I	2461.326	+0.076	7	RD
7970		I	2464.348	+0.044	5	KL
7971		I	2464.351	+0.046	7	RD
7972	AC UMa	I	2473.597	+0.241	15	KL
7973	RU UMi	I	2448.296	-0.005	8	RD
7974		I	2469.290	-0.008	6	RD
7975		I	2469.298	0.000	7	KL
7976	VV Vir	I	2461.608	-0.038	10	KL
7977		I	2478.536	-0.062	10	KL
7978	AH Vir	I	2449.449	+0.031	10	KL
7979		I	2460.454	+0.032	13	KL
7980	AK Vir	I	2460.620	+0.030	14	KL
7981		I	2466.594	+0.036	6	KL
7982		I	2478.541	+0.047	8	KL
7983	BF Vir	I	2461.714	-0.003	9	KL

A C U M a :

The Amplitude is 4^m instead of the 1^m catalogued

This long period EA type binary is given an 1.0^m photographic amplitude by the GCVS including its 1971 and 1974 extensions. My first attempt to a visual survey immediately showed that it is nearly impossible anyway to photograph it at minimum, situated some $30''$ only from the 9.4^{mv} star SAO 14700 and becoming indeed some 4^m fainter than the latter. Figure 21 shows my superplotted fractional surveys of 2 consecutive minima:

figure 21



(o): JD 2442466/7, UT hour scale:
 22 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0
 (+): JD 2442473/4, UT hour scale:
 19 20 21 22 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

K. Locher

Minimum Brightness of V 640 Ori

The GCVS 1969/1971/1974 contains as photographic minimum brightness of V 640 Ori

$$m_{pg \min} = 12.6$$

From the observation of the minima during the nights of JD 2442448 and ..50 we evaluated the visual value as $m_v \min = 13.8 \pm .3$,

which is considerably fainter than the value which could be deduced from the GCVS photographic information.

R. Diethelm & K. Locher

On the visual brightness of OS Ori

The GCVS 1969/1971/1974 gives the following photographic values for the brightness of the little observed eclipsing binary OS Ori:

$$m_{pg \max} = 10.5 \qquad m_{pg \min} = 11.5$$

The visual observations of the minima at JD 2442452 and ..71 and at maximum in a following night yield the following estimations:

$$m_v \max = 11.5 \pm .5 \qquad m_v \min = 13.7 \pm .5$$

R. Diethelm & K. Locher

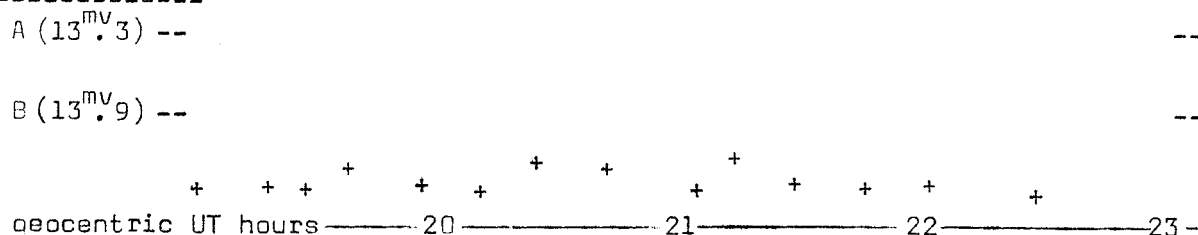
Erratum

N W A u r :

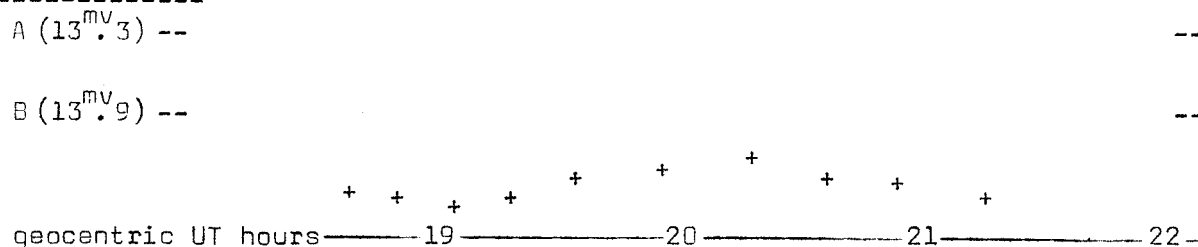
An Unsuccessful Attempt to Improve its Period

According to the GCVS 1974 this star should be an ultrarapid eclipsing binary, whose EB-shaped primary minima might be easy for visual timing and hence for an improvement of its period so far given to only 3 digits ($0^d.125$). However, I was not able to register any minimum nearly $0^m.6$ deep, as the GCVS states, during two surveys each of which covered all phases. Consulting reference no. 6307 of the GCVS 1974, a misidentification is nearly impossible. For visual comparison I used the stars 'A' ($\approx 13^m.3$, some $40''$ south-southeast) and 'B' ($\approx 13^m.9$, some $40''$ northwest):

1975 February 9



1975 February 14



K. Locher

B V 1 6 1 6 L e p :

7 0 d a y s ' M i n i m u m e n d e d 1 9 7 5 M a r c h 2

(For preliminary reports see BBSAG Bull 19, p.4 & 20, p.3.) Meanwhile its duplicity (see fig.23) has been discovered, which was probably unknown before, since the companion is somewhat fainter than the variable at minimum, which itself was not reached by the Bamberg surveyors (IBVS 921). Unfortunately very bad weather produced a break between March 6 and March 28, so that the shape of the ascending branch was missed to be performed and the suggested EA type could not be positively confirmed by us.

J. Lienhard & K. Locher

Figure 22

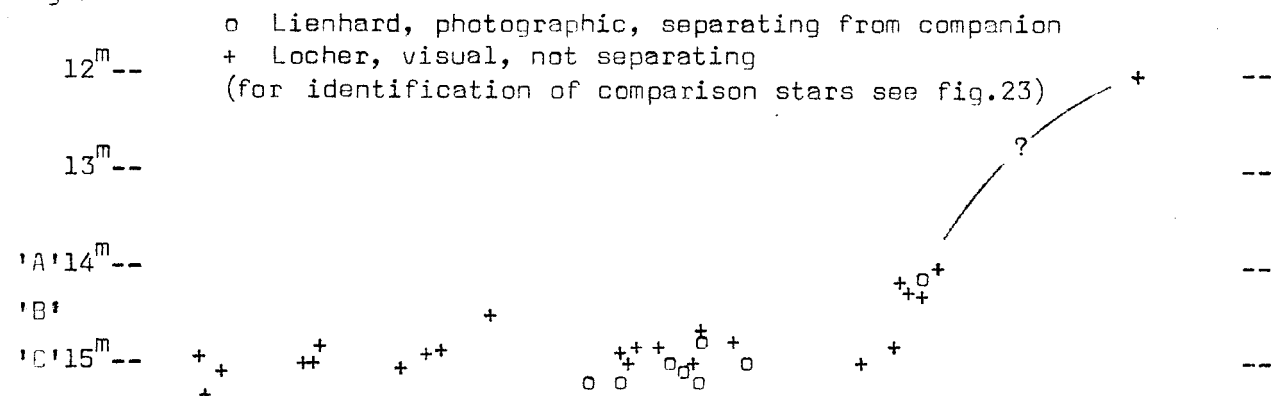


figure 23 :

SCHMIDT EXPOSURE OF THE FIELD OF BV 1616 Lep

taken 1975 February 10.81 UT on TRI-X-ortho
by J.Lienhard, Innertkirchen

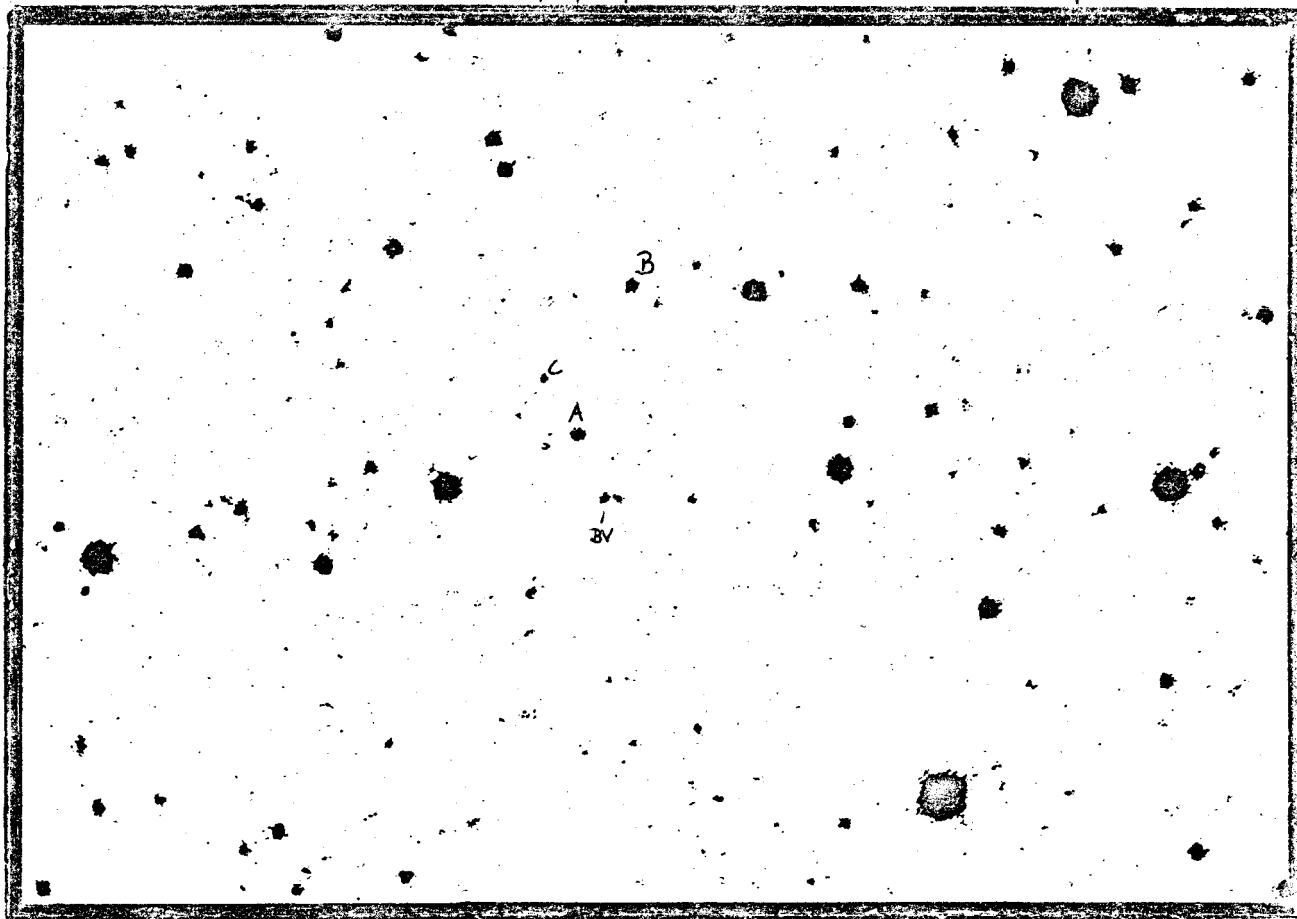
scale 6mm/' , north at top, enlargement 52x from original

comparison star referred to as 'A', $\approx 14^m.0$,
55mm inward from edge

comparison star referred
to as 'C', $\approx 15^m.0$,
48mm inward from edge

comparison star referred to as 'B',
 $\approx 14^m.5$, 36mm inward from edge

SAO 151161, $8^{mv}.9$



55mm inward from edge each

SAO 151168, $8^{mv}.0$

SAO 151159, $8^{mv}.9$

BV 1616 Lep

its companion,
 $\approx 15^m.2$, possibly variable,
separated 18"

