

BBSAG Bulletin 3

1972 July 5

36th List of Minima of Eclipsing Binaries

The following table lists all the remaining minima obtained by BBSAG observers until the end of June 1972 plus an addendum to the previous lists of results obtained in 1971 by members of the British BSS, who are publishing in their own place since 1972, 202 minima totally. The observers are:

- PC P.R. Clayton, Shipley GB
- RD Roger Diethelm, Winterthur
- RG Robert Germann, Wald
- KL Kurt Locher, Grüt-Wetzikon
- HP Hermann Peter, Otelfingen

cur- rent no.	star	minimum or- der	JD hel 244...	0-C	n	ob- ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	0-C	n	ob- ser- ver
3435	AB And	II	1443.580	+0.012	6	KL	3478	AB Cas	I	1410.465	+0.006	10	HP
3436		II	1446.568	+0.013	7	KL	3479	VW Cep	I	1434.379	-0.075	11	KL
3437		I	1481.579	+0.010	6	KL	3480	XX Cep	I	1490.414	-0.008	9	HP
3438		I	1487.568	+0.025	11	KL	3481	EG Cep	I	1416.351	-0.004	12	HP
3439		II	1490.390	+0.026	7	KL	3482		I	1434.351	+0.023	13	HP
3440		I	1493.544	+0.026	13	KL	3483		I	1490.431	+0.008	10	RD
3441		II	1494.378	+0.031	10	KL	3484	EK Cep	I	1411.441	+0.001	13	HP
3442	00 Aql	II	1459.590	-0.033	6	KL	3485		I	1473.432	+0.003	9	HP
3443		I	1472.527	-0.019	7	KL	3486		I	1473.434	+0.006	10	RD
3444		II	1483.414	-0.028	8	RG	3487	GK Cep	II	1434.442	+0.030	12	HP
3445		II	1487.473	-0.024	9	HP	3488		I	1471.389	-0.002	7	RD
3446		II	1490.519	-0.018	8	KL	3489	RW Com	II	1436.404	-0.035	10	HP
3447	V 346 Aql	I	1471.413	-0.008	8	RD	3490		I	1439.367	-0.039	6	KL
3448		I	1472.528	+0.001	8	KL	3491		I	1439.372	-0.034	12	HP
3449		I	1482.478	-0.007	15	HP	3492		II	1440.424	-0.050	6	KL
3450		I	1482.480	-0.005	11	KL	3493		I	1471.406	-0.042	7	RD
3451		I	1493.535	-0.013	14	KL	3494	UX Com	I	1482.471	-0.013	11	KL
3452	TY Boo	II	1460.382	+0.028	6	RD	3495	CC Com	I	1411.409	+0.060	11	KL
3453	TZ Boo	II	1449.398	+0.031	12	HP	3496		I	1434.355	+0.056	10	KL
3454	UW Boo	I	1487.398	-0.006	14	HP	3497		II	1440.413	+0.045	6	KL
3455		I	1487.412	+0.008	8	KL	3498		I	1443.402	+0.054	8	RD
3456		I	1490.422	+0.004	9	RD	3499		II	1446.385	+0.058	6	KL
3457		I	1490.437	+0.019	6	KL	3500		I	1471.430	+0.056	8	HP
3458		I	1494.451	+0.014	12	HP	3501		I	1471.431	+0.057	10	RD
3459	AD Boo	I	1402.385	+0.041	13	HP	3502		II	1472.432	+0.065	9	HP
3460		I	1433.423	+0.047	5	KL	3503		I	1473.422	+0.062	8	RD
3461		I	1434.442	+0.032	12	KL	3504		I	1490.416	+0.063	10	KL
3462		I	1434.446	+0.035	11	HP	3505		I	1494.390	+0.065	11	KL
3463		I	1494.440	+0.034	13	HP	3506	W Crv	II	1411.401	-0.002	9	KL
3464	SV Cam	I	1401.356	-0.007	11	HP	3507	RV Crv	II	1440.423	-0.014	7	KL
3465		I	1411.441	-0.004	10	HP	3508		II	1446.382	-0.034	7	KL
3466		I	1446.440	+0.004	11	HP	3509	V Crt	I	1411.380	+0.035	12	KL
3467		I	1449.396	-0.005	10	HP	3510	UW Cyg	I	1481.532	-0.032	6	KL
3468	WW Cam	II	1483.456	+0.425	9	HP	3511	KR Cyg	I	1490.417	-0.012	8	RD
3469	TX Cnc	I	1411.376	+0.009	10	RD	3512		I	1490.423	-0.005	7	KL
3470	VZ CVn	I	1443.369	-0.002	7	RD	3513	V 456 Cyg	II	1482.471	-0.006	13	HP
3471	TY Cap	I	1472.546	-0.066	11	KL	3514		I	1487.391	+0.013	11	KL
3472	RZ Cas	I	1401.459	0.000	10	HP	3515	V 548 Cyg	I	1416.499	-0.023	11	HP
3473		I	1407.432	-0.003	17	HP	3516		I	1472.429	-0.056	11	HP
3474		I	1481.541	0.000	10	KL	3517		I	1490.494	-0.043	8	KL
3475		I	1487.518	+0.001	11	HP	3518	V 687 Cyg	I	1459.555	+0.011	10	KL
3476	TV Cas	I	1401.417	+0.002	13	HP	3519	V 728 Cyg	I	1487.516	+0.043	12	HP
3477		I	1477.531	-0.014	7	KL	3520	F7 Del	I	1490.427	-0.001	11	KL

cur- rent no.	star	minimum or- JD hel der 244...	0 - C	n ser- ver	ob- ser- ver	cur- rent no.	star	minimum or- JD hel der 244...	0 - C	n ser- ver	ob- ser- ver
3521		I 1493.560	0.000	9	KL	3579	II 1473.442	+0.016	8	KL	
3522	RR Dra	I 1411.406	+0.073	17	HP	3580	I 1477.396	+0.005	6	RG	
3523	RZ Dra	I 1490.421	+0.020	7	RD	3581	II 1477.554	-0.009	5	KL	
3524	TW Dra	I 1402.417	-0.025	17	HP	3582	I 1481.535	+0.007	10	KL	
3525	TZ Dra	I 1460.404	-0.035	7	RD	3583	II 1482.404	+0.014	6	KL	
3526		I 1473.428	-0.002	11	RD	3584	I 1483.426	0.000	8	RG	
3527	UZ Dra	I 1410.475	-0.003	15	HP	3585	I 1483.430	+0.006	10	HP	
3528	AI Dra	I 1433.454	-0.007	7	KL	3586	I 1487.389	0.000	10	KL	
3529		I 1439.452	-0.003	8	KL	3587	II 1487.566	+0.004	6	KL	
3530		I 1487.404	-0.003	9	HP	3588	V1010 Oph	I 1446.575	-0.029	10	KL
3531	YY Gem	II 1401.392	+0.010	11	HP	3589	I 1460.457	-0.038	6	KL	
3532		II 1410.340	-0.005	10	HP	3590	I 1493.539	-0.028	7	KL	
3533		I 1416.458	+0.006	10	HP	3591	RT Per	I 1394.397	-0.047	10	HP
3534		I 1434.366	0.000	7	RD	3592	I 1400.345	-0.046	11	HP	
3535		II 1436.388	-0.014	11	HP	3593	XZ Per	I 1410.353	+0.008	10	HP
3536	AF Gem	I 1410.349	-0.012	13	HP	3594	V 505 Sgr	I 1472.476	-0.029	6	KL
3537	AL Gem	I 1434.384	+0.002	10	RD	3595	V 701 Sco	II 1459.536	-0.013	5	KL
3538	SZ Her	I 1436.440	+0.021	11	HP	3596	U Sct	I 1482.421	+0.018	8	KL
3539		I 1449.525	+0.017	7	KL	3597	AK Ser	I 1487.479	-0.010	9	KL
3540		I 1472.441	+0.025	11	HP	3598	AO Ser	I 1487.438	-0.008	11	HP
3541		I 1490.434	+0.021	6	KL	3599	XZ Uma	I 1401.423	-0.048	9	HP
3542		I 1490.436	+0.023	6	RD	3600		I 1434.407	-0.067	13	HP
3543		I 1490.439	+0.025	10	HP	3601		I 1434.409	-0.065	10	RD
3544	TT Her	I 1473.410	-0.072	8	HP	3602	ZZ Uma	I 1490.394	-0.007	8	RG
3545		I 1494.443	-0.018	10	HP	3603		I 1490.397	-0.004	12	HP
3546	TX Her	II 1490.395	-0.007	10	HP	3604		I 1490.400	-0.001	7	RD
3547		II 1490.407	+0.005	9	RD	3605	RU Umi	I 1460.386	-0.004	8	RD
3548	CC Her	I 1473.441	+0.035	18	HP	3606		I 1471.403	-0.010	10	RD
3549		I 1473.443	+0.038	10	RD	3607	AH Vir	II 1416.571	+0.017	6	KL
3550	PW Her	I 1443.519	-0.032	11	KL	3608		I 1422.469	+0.006	5	KL
3551	V 338 Her	I 1416.510	+0.070	16	HP	3609		I 1438.368	+0.011	6	KL
3552	V 450 Her	II 1434.429	+0.006	7	RD	3610		II 1439.384	+0.009	7	KL
3553		I 1471.394	+0.007	9	RD	3611		I 1440.410	+0.016	8	KL
3554	EU Hya	I 1410.368	-0.014	14	HP	3612		II 1443.459	+0.008	7	RD
3555	SW Lac	II 1477.563	-0.035	5	KL	3613		II 1443.470	+0.020	10	KL
3556		I 1481.573	-0.034	9	KL	3614		I 1460.365	+0.002	5	RD
3557		II 1490.396	-0.030	7	KL	3615		I 1460.359	+0.007	5	KL
3558		II 1490.405	-0.022	11	HP	3616		I 1473.409	+0.006	7	KL
3559		I 1494.401	-0.034	13	HP	3617		I 1473.410	+0.007	8	RD
3560		I 1494.404	-0.031	10	KL	3618		I 1482.382	+0.014	8	KL
3561	Y Leo	I 1472.412	+0.051	7	RG	3619		II 1494.397	+0.007	7	KL
3562	UV Leo	II 1396.442	-0.007	9	HP	3620	AZ Vir	I 1439.380	+0.053	10	KL
3563		II 1402.450	+0.001	9	HP	3621		II 1440.420	+0.052	6	KL
3564	AM Leo	I 1460.387	-0.016	6	RD	3622		I 1450.384	+0.050	11	HP
3565		I 1471.366	-0.011	5	RD	3623		I 1472.419	+0.071	11	HP
3566	T LMi	I 1450.373	-0.084	12	HP	3624		II 1473.420	+0.030	7	RD
3567	TY Lib	I 1471.500	-0.031	5	KL	3625		I 1483.430	+0.074	12	HP
3568	EI Lib	I 1471.408	-0.054	7	KL	3626		I 1494.441	+0.077	12	KL
3569		I 1473.382	-0.067	11	KL	3627	BF Vir	I 1439.368	+0.011	10	KL
3570	TZ Lyr	I 1473.424	+0.016	11	RD	3628		I 1446.405	+0.001	7	KL
3571	EW Lyr	I 1450.429	+0.039	14	HP	3629		I 1471.390	+0.004	7	RD
3572		I 1487.453	+0.038	15	HP	3630		I 1471.392	+0.006	7	KL
3573	U Oph	II 1473.476	-0.004	12	HP	3631	BH Vir	I 1438.387	-0.003	4	KL
3574		I 1494.443	-0.005	14	HP	3632		I 1487.408	+0.006	7	KL
3575		I 1494.451	+0.004	8	KL	3633	BE Vul	I 1472.525	+0.013	8	KL
3576	V 508 Oph	I 1459.463	+0.001	10	RG	3634	BC Vul	I 1490.401	-0.054	8	RD
3577		II 1472.406	+0.015	9	HP	3635	BU Vul	I 1490.486	+0.009	11	HP
3578		II 1473.427	+0.001	10	RD	3636	CD Vul	I 1490.412	-0.011	8	RD

New Period Determination
for V 505 Sagittarii

From 41 visually observed minima of the bright eclipsing binary V 505 Sgr from 1966 to 1971 by members of the BBSAG I have deduced the following light elements:

$$\text{Min hel JD} = 2433515.384 + 1.182858 \times E$$

All observations were weighted equally, and the standard method of least squares was applied.

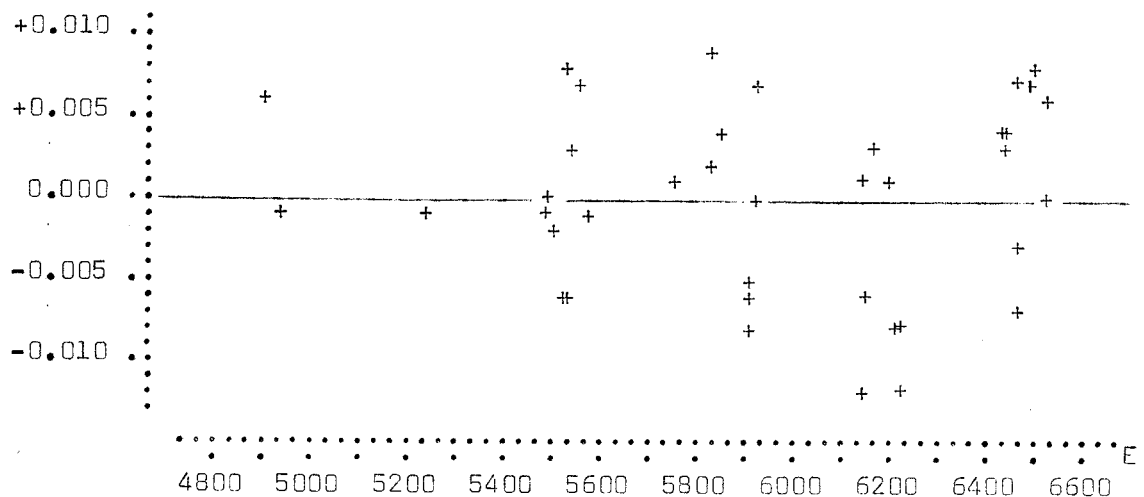
Table 5 lists all observations along with the new O-C values, while figure 4 shows the same values plotted against time.

R. Diethelm

Table 5

	2440417.370 +0.009 KL	2440857.376 -0.008 KL
2439350.429 +0.006 KL	418.545 +0.002 RG	876.297 -0.012 HP
376.444 -0.002 KL	443.387 +0.004 HP	876.302 -0.008 KL
725.388 -0.001 KL	443.387 +0.004 KL	41136.542 +0.004 RD
40010.456 -0.001 RG	507.250 -0.008 KL	142.456 +0.003 KL
010.457 0.000 KL	507.252 -0.006 RG	148.371 +0.004 KL
030.564 -0.002 KL	507.253 -0.005 HP	155.471 +0.007 KL
062.497 -0.006 KL	520.269 0.000 KL	162.554 -0.007 KL
068.411 -0.006 RG	520.276 +0.007 HP	162.558 -0.003 RG
068.425 +0.008 HP	780.486 -0.012 RG	181.494 +0.007 KL
081.432 +0.003 KL	780.499 +0.001 KL	200.421 +0.008 HP
094.447 +0.007 HP	786.406 -0.006 KL	232.350 0.000 KL
107.451 -0.001 KL	805.341 +0.003 RG	232.350 0.000 HP
315.636 +0.001 KL	844.373 +0.001 KL	238.270 +0.006 HP

Figure 4



Note on the O-C of TY Hydrae

In the evening of 1972 March 18 (JD 2441395) I was able to observe the descending branch of the lightcurve of this eclipsing binary down to minimum, which began at UT 22^h45^m. Therefore the O-C amounts to at least +0.008, the duration of totality, probably present, being unknown.

H. Peter

Note on the Period of
V 983 Ophiuchi

I observed this eclipsing binary of amplitude $0.^m.7$ and unknown period (GCVS 1969) visually during 29 nights from March to July 1972, always finding it at maximum or at possibly unreal fades less than $0.^m.15$. From these results I conclude that any period less than about 8 days is very improbable except for values lying very close to a multiple of the sidereal day. In the latter case minima should be observable this summer from the longitude of America or the Far East.

K. Locher

Errata

BBSAG Bulletin 2, pages 1/2, 1972:

SV Cam minima no. 3265 & 3266: The observers' names must be interchanged.

V 1010 Oph minimum no. 3384: The date should read 2441401.

BBSAG Prediction Book 1972:

XZ Aql The minimum of June 8/9 must be cancelled.

