

BBSAG Bulletin 12

1973 December 7

45th List of Minima of Eclipsing Binaries

The following table lists 231 minima obtained visually during October and November (except 2 addenda of BY Pegasi) 1973 by the observers

RD Roger Diethelm, Winterthur
 RG Robert Germann, Wald
 KL Kurt Locher, Grüt
 PM Peter Morger, Hinwil
 HP Hermann Peter, Otelfingen
 JS Jules Staub, Hinwil

The O-C values refer to the linear elements of the GCVS 1969, disregarding improved elements from the 1971 first supplement to the GCVS. Reductions were made using the tracing paper method by RD, RG, KL, and HP.

cur- rent no.	star	minimum or- der	JD hel 244...	O - C	ob- n ser- ver	cur- rent no.	star	minimum or- der	JD hel 244...	O - C	ob- n ser- ver
5533	RT And	I	1997.229	-0.015	14	5563	CZ Aqr	I	1976.396	+0.014	11
5534		I	1997.231	-0.013	14	5564		I	1989.332	+0.008	6
5535	TW And	I	2005.290	+0.015	7	5565		I	2008.317	+0.013	6
5536	UU And	I	1971.371	+0.102	7	5566	DX Aqr	I	1972.290	+0.007	7
5537		I	1974.345	+0.103	11	5567	EE Aqr	I	1961.300	+0.009	5
5538		I	1980.291	+0.105	5	5568		I	1965.373	+0.010	8
5539		I	1983.245	+0.186	4	5569	00 Aql	II	1959.294	-0.028	7
5540	XZ And	I	1958.429	+0.008	6	5570		II	1960.295	-0.040	6
5541		I	1993.711	+0.001	5	5571		II	1961.326	-0.022	8
5542	AB And	II	1959.347	+0.020	9	5572		II	1966.379	-0.038	11
5543		II	1960.342	+0.019	11	5573		I	1975.263	-0.022	6
5544		II	1961.336	+0.018	12	5574		I	2010.227	-0.027	8
5545		II	1961.336	+0.018	7	5575		I	2011.228	-0.040	7
5546		II	1961.338	+0.019	14	5576	V 346 Aql	I	1959.327	-0.001	7
5547		II	1975.274	+0.016	5	5577	RS Ari	I	2005.320	-0.007	8
5548		II	1981.257	+0.021	7	5578	Y Cam	I	1960.331	+0.072	5
5549		II	1983.254	+0.031	7	5579	SV Cam	I	1987.301	-0.016	7
5550		I	2005.322	+0.028	12	5580		I	2006.290	-0.006	9
5551		I	2008.297	+0.016	7	5581	TX CMa	I	1996.699	-0.065	7
5552		I	2010.293	+0.020	8	5582	UU CMa	I	1996.705	-0.039	8
5553	CN And	I	1981.301	-0.055	5	5583	TY Cap	I	1959.361	-0.077	6
5554	RY Aqr	I	2008.304	-0.079	7	5584		I	1989.255	-0.075	6
5555		I	2010.258	-0.091	8	5585	RZ Cas	I	1958.444	0.000	12
5556		I	2010.275	-0.074	9	5586		I	1982.352	+0.003	11
5557	XZ Aqr	I	2011.357	*	6	5587		I	1982.354	+0.005	15
5558	CX Aqr	I	1958.381	+0.016	10	5588		I	1988.330	+0.004	7
5559		I	1972.277	+0.012	12	5589		I	1994.304	+0.002	7
5560		I	1982.284	+0.011	7	5590		I	1994.308	+0.007	10
5561		I	1987.281	+0.004	10	5591		I	2006.254	-0.001	6
5562		I	1997.291	+0.006	8						

* no period given in the GCVS, O-C = +0.016: according to the elements of Rocznik Astronomiczny Obserwatorium Krakowskiego 44, 1977

current no.	star	minimum or-der	JD hel 244...	O - C	n	ob-ser-ver	current no.	star	minimum or-der	JD hel 244...	O - C	n	ob-ser-ver
5592		I	2006.258	+0.004	13	HP	5639	AA Cet	II	1958.476	**	8	KL
5593	TV Cas	I	1981.432	-0.019	10	KL	5640		I	1976.440	**	6	KL
5594		I	1983.259	-0.005	8	RG	5641		II	1987.409	**	14	KL
5595	AB Cas	I	1961.320	+0.009	10	HP	5642		I	1997.349	**	12	KL
5596		I	1987.290	+0.009	7	KL	5643		I	2005.384	**	9	KL
5597	VW Cep	II	1965.266	-0.079	10	KL	5644		II	2008.339	**	8	KL
5598		I	1965.417	-0.067	11	KL	5645		I	2011.287	**	10	KL
5599		I	1981.267	-0.082	6	RD	5646		II	2015.307	**	7	KL
5600	SS Cet	I	1972.516	-0.047	11	KL	5647	RW Com	I	2004.724	-0.043	6	KL
5601		I	1981.433	-0.052	7	KL	5648	Y Cyg	II	1965.271§	+0.140	11	KL
5602		I	1987.381	-0.053	10	KL	5649		II	1983.237§	+0.128	4	KL
5603	TW Cet	I	1958.456	-0.021	9	KL	5650		II	1989.230§	+0.128	11	KL
5604		II	1972.550	-0.027	6	KL	5651	WW Cyg	I	1980.368	+0.023	11	KL
5605		II	1981.428	-0.022	10	KL	5652	ZZ Cyg	I	1989.284	-0.029	11	HP
5606		II	1987.452	-0.017	10	KL	5653		I	2004.366	-0.034	11	HP
5607		II	1996.324	-0.017	8	KL	5654	V 687 Cyg	I	2009.284	+0.012	9	HP
5608		I	1997.427	-0.023	12	KL	5655	V 728 Cyg	I	1961.351	+0.048	11	HP
5609		I	2004.404	-0.017	11	KL	5656		I	1994.326	+0.061	11	HP
5610		I	2005.356	-0.016	10	KL	5657	TT Del	I	1959.351	+0.041	11	KL
5611		I	2006.299	-0.023	10	KL	5658		I	1982.318	+0.039	11	KL
5612		II	2008.356	-0.025	12	RG	5659	TY Del	I	1961.290	+0.011	10	KL
5613		II	2008.367	-0.015	7	KL	5660		I	1986.301	+0.008	5	KL
5614		II	2009.314	-0.018	10	KL	5661	FZ Del	I	1982.290	+0.004	10	HP
5615		II	2009.318	-0.014	6	RG	5662		I	1989.326	-0.008	8	RG
5616		I	2010.422	-0.019	10	KL	5663	Z Dra	I	1994.334	+0.002	11	HP
5617		I	2011.372	-0.020	10	KL	5664	RZ Dra	I	1982.325	-0.008	10	HP
5618		II	2015.336	-0.016	8	KL	5665	AI Dra	I	1981.327	+0.009	10	KL
5619	VY Cet	II	1958.436	*	11	KL	5666		I	1987.293	-0.019	6	RG
5620		II	1961.502	*	10	KL	5667		I	1987.300	-0.012	8	KL
5621		II	1971.379	*	10	KL	5668	TZ Eri	I	1989.473	-0.036	5	KL
5622		I	1980.403	*	11	KL	5669	YY Eri	II	1965.647	-0.004	8	RG
5623		I	1981.426	*	10	KL	5670		II	1989.440	-0.002	10	KL
5624		I	1982.443	*	9	KL	5671	SZ Her	I	1981.296	+0.027	10	HP
5625		II	1984.332	*	6	KL	5672		I	2008.288	+0.021	11	HP
5626		II	1987.396	*	16	KL	5673		I	2008.288	+0.021	7	KL
5627		II	1989.442	*	11	KL	5674	UX Her	I	1983.246	-0.058	5	KL
5628		I	1996.433	*	5	KL	5675	SW Lac	II	1966.338	-0.049	7	RG
5629		I	1997.451	*	12	KL	5676		I	1981.245	-0.056	7	RG
5630		II	2004.434	*	13	KL	5677		II	1985.253	-0.057	12	HP
5631		I	2005.293	*	11	KL	5678		I	1987.325	-0.070	7	RG
5632		I	2006.316	*	10	KL	5679		I	1988.298	-0.059	9	RG
5633		I	2007.331	*	10	KL	5680		I	1989.267	-0.052	7	RG
5634		I	2008.354	*	11	KL							
5635		I	2009.374	*	13	KL							
5636		I	2010.398	*	11	KL							
5637		I	2011.423	*	10	KL							
5638		II	2015.343	*	8	KL							

* GCVS period erroneous, O - C according to the elements of BBSAG Bulletin 6 (in bracket) and BBSAG Bulletin 11 (following the bracket): (-0.034)+0.008 (-0.036)+0.006 (-0.044)-0.001 (-0.052)-0.008 (-0.052)-0.007 (-0.058)-0.013 (-0.044)+0.001 (-0.047)-0.002 (-0.046)-0.001 (-0.042)+0.004 (-0.048)-0.001 (-0.052)-0.004 (-0.045)+0.002 (-0.045)+0.003 (-0.052)-0.004 (-0.052)-0.004 (-0.054)-0.006 (-0.053)-0.005 (-0.051)-0.002 (-0.051)-0.002

** not contained in the GCVS, O - C according to Bloomer's (new) elements IBVS 745: +0.002 +0.004 -0.018 +0.002 -0.006 +0.001 0.000 -0.002

§ excentric secondary minimum

cur- rent no.	star	minimum			ob- ser- ver	cur- rent no.	star	minimum			ob- ser- ver		
		or- der	JD hel 244...	O - C				or- der	JD hel 244...	O - C			
5681		II	2007.379	-0.061	7	KL	5723	IQ Per	I	1971.394	*	6	KL
5682		II	2008.352	-0.050	8	RG	5724	β Per	I	1994.296	-0.052	8	KL
5683		II	2008.356	-0.046	10	HP	5725		I	1994.309	-0.039	11	HP
5684		II	2009.317	-0.048	6	RG	5726	Y Psc	I	1982.411	+0.126	7	KL
5685		II	2010.268	-0.059	7	RG	5727		I	1982.413	+0.128	18	HP
5686	TW Lac	I	1974.370	-0.050	14	HP	5728		I	1997.471	+0.123	13	KL
5687	VX Lac	I	1981.258	-0.051	9	HP	5729	UV Psc	I	1989.241	+0.019	6	KL
5688		I	1981.260	-0.049	5	RD	5730	RW PsA	II	1971.273	-0.044	10	KL
5689		I	1981.270	-0.040	6	KL	5731		II	1984.241	-0.052	11	KL
5690	AU Lac	I	1958.304	-0.046	8	KL	5732		II	1989.276	-0.064	5	KL
5691	CM Lac	I	1980.438	+0.001	11	KL	5733	AY Pup	I	1974.697	+0.057	10	KL
5692		I	1985.250	-0.001	12	HP	5734		I	1991.582	+0.060	6	KL
5693		I	1985.260	+0.009	7	KL	5735		I	2004.711	+0.059	8	KL
5694		I	2009.319	-0.002	7	RG	5736	U Sge	I	1981.340	+0.003	15	HP
5695		I	2009.320	-0.002	13	HP	5737		I	1981.342	+0.005	6	KL
5696	DG Lac	I	2009.414	+0.145	12	HP	5738	RW Tau	I	1965.672	-0.068	14	RG
5697	UV Leo	I	1974.636	+0.005	10	KL	5739		I	2004.434	-0.070	10	KL
5698	UZ Lyr	I	1961.321	+0.020	12	HP	5740		I	2004.435	-0.069	20	HP
5699		I	1961.329	+0.028	9	RG	5741	EQ Tau	II	1972.509	+0.043	8	KL
5700		I	1997.246	+0.011	10	KL	5742		I	1973.629	+0.060	8	KL
5701	FL Lyr	I	1996.290	-0.004	8	HP	5743		I	1974.672	+0.047	8	KL
5702		I	2009.368	+0.005	8	HP	5744	X Tri	I	2004.327	-0.030	10	HP
5703	BO Mon	I	1996.679	+0.122	10	KL	5745		I	2005.299	-0.029	8	KL
5704	V449 Oph	I	1981.288	+0.046	6	KL	5746		I	2006.270	-0.029	15	HP
5705	V508 Oph	I	1965.275	+0.008	10	KL	5747		I	2007.242	-0.029	11	HP
5706		I	1985.268	-0.001	7	KL	5748	RW Tri	I	1976.435	-0.002	11	KL
5707		I	2004.236	+0.003	8	HP	5749		I	1980.376	-0.002	6	KL
5708	ER Ori	II	1974.660	-0.019	8	KL	5750		I	1984.322	+0.001	5	KL
5709	U Peg	II	1989.280	-0.014	10	HP	5751		I	2006.349	-0.002	7	KL
5710		II	2004.272	-0.013	10	HP	5752		I	2009.362	-0.002	7	KL
5711	UX Peg	I	1996.362	0.000	8	KL	5753		I	2010.290	0.000	5	KL
5712	BY Peg	I	1900.464	+0.013	7	KL	5754		I	2011.448	-0.003	10	KL
5713		I	1901.481	+0.004	7	KL	5755	TX UMa	I	2008.416	-0.014	10	HP
5714	DI Peg	I	1988.321	-0.022	7	RG	5756	Z Vul	I	2007.242	+0.014	11	HP
5715		I	2008.263	-0.011	8	HP	5757	BO Vul	I	1959.357	-0.056	11	KL
5716	RT Per	I	1981.335	-0.050	15	HP	5758		I	1961.302	-0.058	11	KL
5717		I	1991.526	-0.051	6	KL	5759		I	1996.329	-0.057	10	KL
5718		I	2009.361	-0.055	11	HP	5760	BP Vul	I	1965.387	+0.013	13	KL
5719	RV Per	I	2011.392	+0.007	6	KL	5761	BU Vul	I	2004.280	+0.004	12	HP
5720		I	2015.346	+0.014	8	KL	5762		I	2009.397	0.000	9	HP
5721	ST Per	I	1994.312	+0.004	7	KL	5763	FR Vul	I	1981.289	-0.003	7	RD
5722		I	1994.315	+0.007	10	HP							

* no period given in the GCVS, O - C = -0.009 according to Bischof's elements IBVS 673

Note on the O - C of RW Parsei

During the late evening hours of 1973 October 24 (JD 2441980) I observed a considerable part of the descending branch of this EA type binary. A check just before dawn showed it still at or near minimum, from which an O - C value of

