Recent Minima of 196 Eclipsing Binary Stars

Gerard Samolyk
P.O. Box 20677, Greenfield, WI 53220; gsamolyk@wi.rr.com

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Abstract This paper continues the publication of times of minima for eclipsing binary stars from observations reported to the AAVSO Eclipsing Binary section. Times or minima from observations received from February 2017 through August 2017 are presented.

1. Recent Observations

The accompanying list contains times of minima calculated from recent CCD observations made by participants in the AAVSO's eclipsing binary program. This list will be web-archived and made available through the AAVSO ftp site at ftp://ftp.aavso.org/public/datasets/gsamo-452.txt. This list, along with the eclipsing binary data from earlier AAVSO publications, is also included in the Lichtenknecker database administrated by the Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e. V. (BAV) at: http://www.bav-astro.de/LkDB/index.php?lang=en. These observations were reduced by the observers or the writer using the method of Kwee and van Woerden (1956). The standard error is included when available. Column F indicates the filter used. A "C" indicates a clear filter.

The linear elements in the *General Catalogue of Variable Stars* (GCVS; Kholopov *et al.* 1985) were used to compute the O–C values for most stars. For a few exceptions where the GCVS elements are missing or are in significant error, light elements from another source are used: CD Cam (Baldwin and Samolyk 2007), AC CMi (Samolyk 2008), CW Cas (Samolyk 1992a), DV Cep (Frank and Lichtenknecker 1987), DF Hya (Samolyk 1992b), DK Hya (Samolyk 1990), EF Ori (Baldwin and Samolyk 2005), GU Ori (Samolyk 1985).

The light elements used for V376 And, IR Cnc, IU Cnc, DX CVn, DY CVn, YY CrB, V728 Her, V878 Her, V1034 Her, V1042 Her, V400 Lyr, V1128 Tau are from (Kreiner 2004).

The light elements used for GW Boo, NO Com, VW LMi, FG Lyn, and V502 Oph are from (Paschke 2014).

The light elements used for CC Lyn are from (Nelson 2014). O–C values listed in this paper can be directly compared with values published in the AAVSO EB monographs.

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Table 1. Recent times of minima of stars in the AAVSO eclipsing binary program.

Star	*JD (min) Hel. 2400000 +*	*Cycle*	*O–C (day)*	*F*	*Observer*	*Error (day)*	*Star*	*JD (min) Hel. 2400000 +*	*Cycle*	*O–C (day)*	*F*	*Observer*	*Error (day)*
RT And	57963.8546	26747	–0.0121	V	G. Samolyk	0.0001	V346 Aql	57910.8478	14455	–0.0134	V	G. Samolyk	0.0002
UU And	57978.8808	10986	0.0929	V	G. Samolyk	0.0002	V346 Aql	57938.5069	14480	–0.0133	V	T. Arranz	0.0001
WZ And	57952.8492	24553	0.0781	V	G. Samolyk	0.0001	V346 Aql	57948.4648	14489	–0.0127	V	T. Arranz	0.0001
AB And	57911.8644	65691	–0.0421	V	G. Samolyk	0.0002	V346 Aql	57979.4424	14517	–0.0133	V	T. Arranz	0.0001
AB And	57959.8225	65835.5	–0.0424	V	G. Samolyk	0.0001	V346 Aql	57989.3999	14526	–0.0130	V	T. Arranz	0.0001
BD And	57959.8655	49681	0.0163	V	G. Samolyk	0.0001	SS Ari	57790.6114	46214	–0.3718	V	G. Samolyk	0.0001
BX And	57974.8469	35151	–0.0951	V	G. Samolyk	0.0001	SS Ari	57984.8727	46692.5	–0.3785	V	R. Sabo	0.0002
V376 And	57786.5340	6618.5	0.0135	V	K. Menzies	0.0002	RY Aur	57811.5580	7163	0.0193	V	G. Samolyk	0.0002
XZ Aql	57936.8037	7495	0.1811	V	G. Samolyk	0.0001	WW Aur	57815.7174	9849.5	0.0013	V	G. Samolyk	0.0001
KP Aql	57942.7315	5210.5	–0.0121	V	R. Sabo	0.0005	AP Aur	57807.5633	26984	1.6258	V	G. Samolyk	0.0002
OO Aql	57912.8085	38082	0.0674	V	G. Samolyk	0.0001	AP Aur	57824.6452	27014	1.6283	V	K. Menzies	0.0001
OO Aql	57943.7219	38143	0.0667	V	G. Samolyk	0.0001	CL Aur	57787.5353	19946	0.1790	V	G. Samolyk	0.0001
OO Aql	57978.6915	38212	0.0679	V	N. Simmons	0.0001	CL Aur	57828.5993	19979	0.1790	V	G. Samolyk	0.0002
V343 Aql	57949.6506	15996	–0.0360	V	G. Samolyk	0.0003	EM Aur	57803.5804	14716	–1.1098	V	G. Samolyk	0.0002

Table continued on following pages

Table 1. Recent times of minima of stars in the AAVSO eclipsing binary program, cont.

Star	JD (min) Hel. 2400000 +	Cycle	O–C (day)	F	Observer	Error (day)	Star	JD (min) Hel. 2400000 +	Cycle	O–C (day)	F	Observer	Error (day)
EP Aur	57784.7104	53257	0.0153	V	K. Menzies	0.0003	IR Cas	57938.8299	22881	0.0133	V	G. Samolyk	0.0001
EP Aur	57790.6202	53267	0.0151	V	G. Samolyk	0.0001	OR Cas	57936.8538	11019	–0.0313	V	G. Samolyk	0.0004
HP Aur	57832.5433	10596	0.0671	V	K. Menzies	0.0002	PV Cas	57973.6340	10138	–0.0338	V	G. Samolyk	0.0002
SS Boo	57878.5829	4888	7.0998	V	G. Samolyk	0.0002	SU Cep	57936.7064	35069	0.0062	V	G. Samolyk	0.0001
TU Boo	57797.8204	76264.5	–0.1543	V	R. Sabo	0.0001	WZ Cep	57916.8596	71569.5	–0.1766	V	G. Samolyk	0.0002
TU Boo	57844.6790	76409	–0.1551	V	G. Samolyk	0.0001	DK Cep	57997.6928	24756	0.0310	V	K. Menzies	0.0001
TU Boo	57844.8418	76409.5	–0.1544	V	G. Samolyk	0.0001	DV Cep	57906.6860	9590	–0.0053	V	G. Samolyk	0.0001
TU Boo	57886.6747	76538.5	–0.1545	V	N. Simmons	0.0001	DV Cep	57978.7283	9652	–0.0055	V	G. Samolyk	0.0001
TU Boo	57911.6452	76615.5	–0.1541	V	G. Samolyk	0.0001	EG Cep	57844.8943	28002	0.0113	V	G. Samolyk	0.0001
TY Boo	57815.9054	73579	0.0698	V	G. Samolyk	0.0001	EG Cep	57890.6429	28086	0.0117	V	G. Samolyk	0.0001
TY Boo	57832.8727	73632.5	0.0697	V	K. Menzies	0.0001	EG Cep	57964.7106	28222	0.0108	V	N. Simmons	0.0001
TY Boo	57895.5070	73830	0.0673	V	T. Arranz	0.0001	GK Cep	57964.7036	20584	0.1416	V	N. Simmons	0.0002
TY Boo	57897.4110	73836	0.0684	V	T. Arranz	0.0001	RW Com	57784.9159	74838	0.0071	V	K. Menzies	0.0003
TY Boo	57915.4880	73893	0.0680	V	T. Arranz	0.0001	RW Com	57817.9076	74977	0.0078	V	K. Menzies	0.0001
TY Boo	57918.5034	73902.5	0.0705	V	T. Arranz	0.0002	RW Com	57856.4756	75139.5	0.0070	V	T. Arranz	0.0001
TY Boo	57920.7226	73909.5	0.0697	V	S. Cook	0.0004	RW Com	57864.4276	75173	0.0080	V	T. Arranz	0.0001
TY Boo	57930.7105	73941	0.0674	V	R. Sabo	0.0001	RW Com	57870.7167	75199.5	0.0074	V	S. Cook	0.0004
TZ Boo	57526.6652	60215.5	0.0650	V	G. Lubcke	0.0003	RW Com	57890.6534	75283.5	0.0070	V	G. Samolyk	0.0001
TZ Boo	57526.6655	60215.5	0.0653	Ic	G. Lubcke	0.0003	RW Com	57914.6265	75384.5	0.0082	V	K. Menzies	0.0001
TZ Boo	57526.6662	60215.5	0.0660	B	G. Lubcke	0.0004	RW Com	57929.6986	75448	0.0088	V	R. Sabo	0.0003
TZ Boo	57788.9084	61098	0.0627	V	G. Samolyk	0.0001	RZ Com	57784.9665	67790.5	0.0530	V	K. Menzies	0.0007
TZ Boo	57824.8638	61219	0.0615	V	K. Menzies	0.0001	RZ Com	57844.7143	67967	0.0545	V	G. Samolyk	0.0002
TZ Boo	57828.7276	61232	0.0622	V	G. Samolyk	0.0003	RZ Com	57905.6449	68147	0.0540	V	G. Samolyk	0.0001
TZ Boo	57828.8773	61232.5	0.0633	V	G. Samolyk	0.0002	SS Com	57803.8631	79460	0.9087	V	G. Samolyk	0.0003
TZ Boo	57832.8878	61246	0.0621	V	K. Menzies	0.0001	SS Com	57880.6493	79646	0.9156	V	G. Samolyk	0.0004
TZ Boo	57887.7156	61430.5	0.0636	V	G. Samolyk	0.0002	SS Com	57888.4886	79665	0.9119	V	T. Arranz	0.0001
TZ Boo	57910.4462	61507	0.0613	V	T. Arranz	0.0001	CC Com	57805.8279	82797.5	–0.0274	V	K. Menzies	0.0001
TZ Boo	57911.4892	61510.5	0.0642	V	T. Arranz	0.0001	CC Com	57866.6275	83073	–0.0268	V	G. Samolyk	0.0001
TZ Boo	57914.7566	61521.5	0.0628	V	K. Menzies	0.0001	CC Com	57909.6607	83268	–0.0275	V	G. Samolyk	0.0001
TZ Boo	57917.4315	61530.5	0.0633	V	T. Arranz	0.0002	NO Com	57817.8342	3611	0.0258	V	K. Menzies	0.0004
TZ Boo	57925.4562	61557.5	0.0646	V	T. Arranz	0.0001	RW CrB	57815.8630	23491	0.0026	V	G. Samolyk	0.0001
UW Boo	57807.9331	15331	–0.0012	V	G. Samolyk	0.0001	RW CrB	57896.4959	23602	0.0038	V	T. Arranz	0.0001
VW Boo	57788.9352	77750	–0.2629	V	G. Samolyk	0.0001	RW CrB	57904.4863	23613	0.0037	V	T. Arranz	0.0001
VW Boo	57866.6404	77977	–0.2655	V	G. Samolyk	0.0001	RW CrB	57912.4772	23624	0.0041	V	T. Arranz	0.0002
VW Boo	57882.7296	78024	–0.2656	V	R. Sabo	0.0001	TW CrB	57825.8960	33840	0.0564	V	K. Menzies	0.0001
AD Boo	57860.7774	15880	0.0352	V	G. Samolyk	0.0001	TW CrB	57881.8371	33935	0.0546	V	G. Samolyk	0.0001
AD Boo	57919.7388	15937	0.0357	V	S. Cook	0.0005	YY CrB	57943.6692	14456	0.0224	V	G. Persha	0.0001
GW Boo	57805.9387	9439.5	–0.0040	V	K. Menzies	0.0003	W Crv	57797.9380	46769	0.0197	V	G. Samolyk	0.0001
GW Boo	57811.7840	9450.5	–0.0057	V	K. Menzies	0.0002	W Crv	57880.4063	46981.5	0.0208	V	T. Arranz	0.0002
i Boo	57906.6323	67412	0.1365	V	G. Persha	0.0002	W Crv	57881.3742	46984	0.0185	V	T. Arranz	0.0001
CD Cam	57811.6565	6607	–0.0075	V	G. Samolyk	0.0003	RV Crv	57857.7588	22520.5	–0.1161	V	G. Samolyk	0.0004
WW Cnc	57841.4128	1700	0.0214	V	T. Arranz	0.0001	Y Cyg	57929.7199	16178.5	0.1305	V	G. Samolyk	0.0001
WW Cnc	57850.3409	1708	0.0219	V	T. Arranz	0.0001	SW Cyg	57923.7254	3511	–0.3658	V	G. Samolyk	0.0001
WW Cnc	57851.4565	1709	0.0216	V	T. Arranz	0.0001	WW Cyg	57925.7108	5289	0.1446	V	G. Samolyk	0.0001
IR Cnc	57824.6700	7418	–0.0101	V	K. Menzies	0.0006	ZZ Cyg	57910.8081	20538	–0.0733	V	G. Samolyk	0.0001
IU Cnc	57846.5540	12680	0.0134	V	K. Menzies	0.0001	AE Cyg	57902.8564	13740	–0.0045	V	G. Samolyk	0.0001
BI CVn	57504.8008	34204	–0.2576	V	B. Harris	0.0002	BR Cyg	57916.6797	12290	0.0009	V	G. Samolyk	0.0001
DX CVn	57850.4343	14971	–0.0248	V	C. Beech	0.0001	BR Cyg	57952.6588	12317	0.0008	V	G. Samolyk	0.0001
DY CVn	57850.4758	21754	–0.0020	V	C. Beech	0.0001	BR Cyg	57952.6599	12317	0.0019	V	G. Persha	0.0002
R CMa	57786.7284	11882	0.1224	V	G. Samolyk	0.0001	CG Cyg	57939.7209	29335	0.0776	V	G. Samolyk	0.0001
TU CMa	57802.5758	27332	–0.0109	V	G. Samolyk	0.0001	CG Cyg	57942.8761	29340	0.0771	V	R. Sabo	0.0001
TU CMa	57829.6454	27356	–0.0086	V	S. Cook	0.0004	DK Cyg	57911.7943	42304	0.1175	V	G. Samolyk	0.0001
TZ CMa	57797.6220	16047	–0.2230	V	G. Samolyk	0.0001	DK Cyg	57976.7511	42442	0.1190	V	R. Sabo	0.0002
XZ CMi	57807.7457	26543	0.0034	V	G. Samolyk	0.0001	KR Cyg	57905.8250	34076	0.0227	V	G. Samolyk	0.0001
YY CMi	57828.6360	27244	0.0163	V	G. Samolyk	0.0001	MY Cyg	57928.8082	6012.5	0.0126	V	G. Samolyk	0.0001
AC CMi	57811.6545	6726	0.0046	V	K. Menzies	0.0001	MY Cyg	57952.8389	6018.5	0.0121	V	G. Samolyk	0.0002
AK CMi	57803.6638	25980	–0.0252	V	G. Samolyk	0.0001	MY Cyg	57958.8343	6020	–0.0002	V	R. Sabo	0.0002
RW Cap	57600.7741	4403	–0.6976	V	G. Samolyk	0.0004	V346 Cyg	57959.6493	8119	0.1927	V	G. Samolyk	0.0002
RW Cap	57963.7399	4510	–0.7236	V	G. Samolyk	0.0001	V387 Cyg	57939.7704	46760	0.0217	V	G. Samolyk	0.0001
TY Cap	57974.6911	9260	0.0940	V	G. Samolyk	0.0001	V388 Cyg	57909.8319	18575	–0.1214	V	G. Samolyk	0.0001
RZ Cas	57925.8270	12320	0.0777	V	G. Samolyk	0.0001	V401 Cyg	57878.9478	24100	0.0886	V	R. Sabo	0.0001
RZ Cas	57943.7558	12335	0.0778	V	N. Simmons	0.0001	V401 Cyg	57881.8613	24105	0.0885	V	G. Samolyk	0.0001
AB Cas	57684.5991	10952	0.1345	V	N. Simmons	0.0001	V456 Cyg	57931.7234	14610	0.0524	V	G. Samolyk	0.0001
AB Cas	57964.8104	11157	0.1367	V	G. Samolyk	0.0001	V466 Cyg	57906.8372	20935	0.0079	V	G. Samolyk	0.0001
CW Cas	57973.7027	51249.5	–0.1080	V	G. Samolyk	0.0001	V548 Cyg	57959.6608	7480	0.0222	V	G. Samolyk	0.0001
CW Cas	57973.8615	51250	–0.1086	V	G. Samolyk	0.0001	V548 Cyg	57997.5680	7501	0.0195	V	K. Menzies	0.0002

Table continued on following pages

Table 1. Recent times of minima of stars in the AAVSO eclipsing binary program, cont.

Star	*JD (min) Hel. 2400000 +*	*Cycle*	*O–C (day)*	*F*	*Observer*	*Error (day)*	*Star*	*JD (min) Hel. 2400000 +*	*Cycle*	*O–C (day)*	*F*	*Observer*	*Error (day)*
V704 Cyg	57931.7764	35031	0.0356	V	G. Samolyk	0.0003	DG Lac	57997.7004	6113	–0.2289	V	K. Menzies	0.0001
V836 Cyg	57931.5581	20015	0.0226	V	T. Arranz	0.0001	Y Leo	57788.7676	7326	–0.0667	V	G. Samolyk	0.0001
V836 Cyg	57948.5482	20041	0.0240	V	T. Arranz	0.0001	Y Leo	57844.4074	7359	–0.0682	V	T. Arranz	0.0001
V836 Cyg	57963.5756	20064	0.0230	V	T. Arranz	0.0001	Y Leo	57854.5253	7365	–0.0669	V	T. Arranz	0.0001
V836 Cyg	57978.6036	20087	0.0224	V	T. Arranz	0.0001	Y Leo	57876.4439	7378	–0.0677	V	T. Arranz	0.0001
V836 Cyg	57982.5243	20093	0.0226	V	T. Arranz	0.0001	UV Leo	57815.7069	32287	0.0433	V	G. Samolyk	0.0001
V1034 Cyg	57963.6727	15380	0.0149	V	G. Samolyk	0.0002	UV Leo	57830.7094	32312	0.0437	V	K. Menzies	0.0001
TY Del	57949.8456	12585	0.0687	V	G. Samolyk	0.0001	UV Leo	57848.4126	32341.5	0.0444	V	T. Arranz	0.0001
YY Del	57964.8274	18920	0.0110	V	G. Samolyk	0.0001	UV Leo	57866.4162	32371.5	0.0454	V	T. Arranz	0.0001
FZ Del	57992.6936	34050	–0.0244	V	R. Sabo	0.0001	UV Leo	57872.4181	32381.5	0.0465	V	T. Arranz	0.0003
RZ Dra	57807.8936	24743	0.0677	V	G. Samolyk	0.0001	UV Leo	57893.4202	32416.5	0.0456	V	T. Arranz	0.0001
RZ Dra	57902.6439	24915	0.0677	V	G. Samolyk	0.0001	VZ Leo	57803.7467	24442	–0.0518	V	G. Samolyk	0.0003
RZ Dra	57939.5522	24982	0.0674	V	T. Arranz	0.0001	VZ Leo	57875.6766	24508	–0.0556	V	S. Cook	0.0010
RZ Dra	57944.5106	24991	0.0680	V	T. Arranz	0.0001	XY Leo	57784.8632	44739	0.1614	V	K. Menzies	0.0001
RZ Dra	57949.4685	25000	0.0680	V	T. Arranz	0.0001	XY Leo	57845.6634	44953	0.1649	V	G. Samolyk	0.0002
RZ Dra	57951.6716	25004	0.0676	V	N. Simmons	0.0001	XZ Leo	57842.6207	26279	0.0720	V	K. Menzies	0.0001
RZ Dra	57961.5881	25022	0.0684	V	T. Arranz	0.0001	AM Leo	57810.4362	41873	0.0127	V	L. Corp	0.0002
RZ Dra	57978.6651	25053	0.0683	V	G. Samolyk	0.0001	AM Leo	57828.3599	41922	0.0123	R	L. Corp	0.0002
TW Dra	57861.7453	4890	–0.0315	V	G. Samolyk	0.0001	AM Leo	57880.6688	42065	0.0122	V	G. Samolyk	0.0003
UZ Dra	57881.6900	5001.5	0.0030	V	G. Samolyk	0.0001	AP Leo	57858.5885	42574	0.0020	V	G. Silvis	0.0001
AI Dra	57824.8927	12123	0.0363	V	G. Samolyk	0.0001	AP Leo	57865.4751	42590	0.0029	V	L. Corp	0.0002
YY Eri	57786.5347	50404.5	0.1588	V	G. Samolyk	0.0001	T LMi	57911.6428	4144	–0.1286	V	G. Samolyk	0.0002
TX Gem	57830.5625	13565	–0.0394	V	K. Menzies	0.0001	VW LMi	57856.3860	19592	0.0247	V	L. Corp	0.0003
AL Gem	57807.7455	22628	0.0912	V	G. Samolyk	0.0001	VW LMi	57860.4434	19600.5	0.0229	V	L. Corp	0.0002
SZ Her	57881.8227	19579	–0.0287	V	G. Samolyk	0.0001	SS Lib	57866.8134	11621	0.1752	V	G. Samolyk	0.0001
SZ Her	57919.4540	19625	–0.0299	V	T. Arranz	0.0001	SS Lib	57928.6493	11664	0.1771	V	G. Samolyk	0.0001
SZ Her	57923.5445	19630	–0.0299	V	T. Arranz	0.0001	SS Lib	57951.6585	11680	0.1784	V	G. Samolyk	0.0001
SZ Her	57936.6348	19646	–0.0292	V	G. Samolyk	0.0001	CC Lyn	57788.5516	6244	0.0140	V	G. Persha	0.0006
SZ Her	57950.5419	19663	–0.0297	V	T. Arranz	0.0001	FG Lyn	57825.5789	4432	–0.0168	V	K. Menzies	0.0004
SZ Her	57959.5408	19674	–0.0299	V	T. Arranz	0.0001	UZ Lyr	57902.8139	7515	–0.0419	V	G. Samolyk	0.0001
TT Her	57880.8412	19609	0.0455	V	G. Samolyk	0.0001	EW Lyr	57938.7290	16133	0.2838	V	G. Samolyk	0.0001
TU Her	57905.7886	6107	–0.2455	V	G. Samolyk	0.0001	V400 Lyr	57931.7302	21433	–0.0155	G	M. Sadh	0.0003
TU Her	57928.4587	6117	–0.2454	V	T. Arranz	0.0001	V400 Lyr	57931.7309	21433	–0.0148	R	M. Sadh	0.0006
UX Her	57866.8257	11747	0.1309	V	G. Samolyk	0.0001	V400 Lyr	57931.8557	21433.5	–0.0167	R	M. Sadh	0.0006
UX Her	57925.6838	11785	0.1328	V	G. Samolyk	0.0001	V400 Lyr	57931.8591	21433.5	–0.0134	G	M. Sadh	0.0004
UX Her	57967.5035	11812	0.1336	V	T. Arranz	0.0001	RW Mon	57786.7352	12647	–0.0852	V	G. Samolyk	0.0001
AK Her	57909.6759	37301	0.0234	V	G. Persha	0.0001	RW Mon	57830.5750	12670	–0.0856	V	K. Menzies	0.0001
CC Her	57922.5291	10527	0.3080	V	T. Arranz	0.0001	BB Mon	57803.6724	42476	–0.0046	V	G. Samolyk	0.0001
CC Her	57929.4656	10531	0.3085	V	T. Arranz	0.0001	BO Mon	57815.7355	6430	–0.0216	V	G. Samolyk	0.0001
CC Her	57962.4134	10550	0.3102	V	T. Arranz	0.0001	EP Mon	57827.6151	21722	0.0261	V	G. Samolyk	0.0003
CT Her	57817.8854	8562	0.0124	V	K. Menzies	0.0002	V501 Oph	57902.6834	27885	–0.0085	V	G. Samolyk	0.0001
CT Her	57921.4934	8620	0.0106	V	T. Arranz	0.0001	V501 Oph	57964.6318	27949	–0.0089	V	G. Samolyk	0.0001
LT Her	57910.6330	15825	–0.1512	V	G. Samolyk	0.0005	V502 Oph	57921.4992	20780	–0.0017	V	L. Corp	0.0002
LT Her	57911.7163	15826	–0.1519	V	N. Simmons	0.0003	V508 Oph	57905.6802	37191	–0.0269	V	G. Samolyk	0.0001
LT Her	57923.6396	15837	–0.1531	V	G. Samolyk	0.0002	V508 Oph	57939.4707	37289	–0.0260	V	L. Corp	0.0001
V728 Her	57910.6738	11480	0.0141	V	G. Samolyk	0.0001	V839 Oph	57949.6371	42790	0.3145	V	G. Samolyk	0.0002
V728 Her	57951.6756	11567	0.0134	V	G. Samolyk	0.0003	V1010 Oph	57878.8412	28637	–0.1879	V	G. Samolyk	0.0005
V878 Her	57915.6505	10228	–0.0066	V	G. Persha	0.0002	V1010 Oph	57880.8241	28640	–0.1893	V	G. Samolyk	0.0001
V1034 Her	57929.6331	6659	–0.0023	V	G. Silvis	0.0001	V1010 Oph	57943.6588	28735	–0.1900	V	G. Samolyk	0.0001
V1042 Her	57931.6756	10626	–0.0051	V	G. Silvis	0.0001	EF Ori	57788.7031	3358	0.0067	V	G. Samolyk	0.0003
WY Hya	57804.5735	24069	0.0375	V	G. Silvis	0.0001	EQ Ori	57786.7027	15090	–0.0404	V	G. Samolyk	0.0002
AV Hya	57811.6982	30931	–0.1150	V	K. Menzies	0.0001	ER Ori	57807.5755	38217	0.1324	V	G. Samolyk	0.0001
AV Hya	57811.6993	30931	–0.1139	V	G. Samolyk	0.0001	ER Ori	57827.6857	38264.5	0.1311	V	S. Cook	0.0004
DF Hya	57802.7122	45416.5	0.0036	V	G. Samolyk	0.0002	FH Ori	57786.5766	14823	–0.4551	V	G. Samolyk	0.0002
DF Hya	57863.7110	45601	0.0058	V	R. Sabo	0.0002	FT Ori	57787.5693	5218	0.0207	V	G. Samolyk	0.0001
DI Hya	57845.6008	43356	–0.0357	V	G. Samolyk	0.0001	FT Ori	57831.6763	5232	0.0219	V	S. Cook	0.0002
DK Hya	57797.7914	28652	0.0015	V	G. Samolyk	0.0002	FZ Ori	57802.5611	34446.5	–0.0356	V	G. Silvis	0.0001
SW Lac	57906.8628	39385	–0.0775	V	G. Samolyk	0.0001	FZ Ori	57811.5599	34469	–0.0365	V	K. Menzies	0.0001
SW Lac	57938.6128	39484	–0.0789	V	T. Arranz	0.0001	GU Ori	57788.7403	31271.5	–0.0636	V	G. Samolyk	0.0002
SW Lac	57952.5646	39527.5	–0.0785	V	T. Arranz	0.0001	U Peg	57951.8129	57207.5	–0.1645	V	G. Samolyk	0.0001
SW Lac	57955.6114	39537	–0.0785	V	T. Arranz	0.0001	BB Peg	57926.8746	39177	–0.0266	V	R. Sabo	0.0001
SW Lac	57967.6383	39574.5	–0.0787	V	T. Arranz	0.0001	BB Peg	57949.8313	39240.5	–0.0253	V	G. Samolyk	0.0002
SW Lac	57981.5906	39618	–0.0777	V	T. Arranz	0.0001	BX Peg	57951.7154	49056.5	–0.1247	V	G. Samolyk	0.0002
VX Lac	57969.8172	11830	0.0848	V	R. Sabo	0.0001	BX Peg	57951.8552	49057	–0.1251	V	G. Samolyk	0.0002
VX Lac	57997.7542	11856	0.0850	V	R. Sabo	0.0002	BX Peg	57967.8385	49114	–0.1258	V	R. Sabo	0.0001
AR Lac	57978.7933	8262	–0.0516	V	N. Simmons	0.0001	DI Peg	57972.8953	17949	0.0076	V	R. Sabo	0.0001

Table continued on following pages

Table 1. Recent times of minima of stars in the AAVSO eclipsing binary program, cont.

Star	JD (min) Hel. 2400000 +	Cycle	O–C (day)	F	Observer	Error (day)	Star	JD (min) Hel. 2400000 +	Cycle	O–C (day)	F	Observer	Error (day)
GP Peg	57942.8029	17122	–0.0548	V	G. Samolyk	0.0001	VV UMa	57798.7053	17433.5	–0.0704	Ic	G. Lubcke	0.0003
KW Peg	57951.7139	11995.5	0.2121	V	G. Samolyk	0.0003	VV UMa	57798.7066	17433.5	–0.0691	V	G. Lubcke	0.0006
XZ Per	57817.6087	12426	–0.0743	V	K. Menzies	0.0001	VV UMa	57798.7075	17433.5	–0.0682	B	G. Lubcke	0.0011
IT Per	57684.7488	18453	–0.0391	V	N. Simmons	0.0002	VV UMa	57828.6061	17477	–0.0707	B	G. Lubcke	0.0001
V432 Per	57997.8297	68809.5	0.0297	V	K. Menzies	0.0001	VV UMa	57828.6061	17477	–0.0707	V	G. Lubcke	0.0001
RV Psc	57973.7965	60637	–0.0631	V	G. Samolyk	0.0002	VV UMa	57828.6063	17477	–0.0705	Ic	G. Lubcke	0.0001
UZ Pup	57786.7570	16573	–0.0102	V	G. Samolyk	0.0001	VV UMa	57830.6685	17480	–0.0704	V	K. Menzies	0.0001
AV Pup	57828.6580	47903	0.2247	V	G. Samolyk	0.0001	XZ UMa	57798.6597	9515	–0.1411	V	G. Samolyk	0.0001
U Sge	57910.8331	12063	0.0107	V	G. Samolyk	0.0001	AW UMa	57881.6430	30125.5	–0.1139	V	G. Persha	0.0002
V505 Sgr	57943.8541	11398	–0.1066	V	G. Samolyk	0.0001	RU UMi	57788.7201	30847	–0.0143	V	G. Samolyk	0.0001
V1968 Sgr	57925.8552	35695	–0.0190	V	G. Samolyk	0.0003	VV Vir	57860.8295	59712	–0.0476	V	G. Samolyk	0.0003
RS Ser	57949.6892	38499	0.0451	V	G. Samolyk	0.0002	AG Vir	57798.9299	19243	–0.0131	V	G. Samolyk	0.0003
RS Ser	57964.6428	38524	0.0452	V	G. Samolyk	0.0001	AG Vir	57878.6157	19367	–0.0160	V	G. Samolyk	0.0001
AO Ser	57942.6648	27076	–0.0108	V	G. Samolyk	0.0001	AG Vir	57885.6853	19378	–0.0155	V	S. Cook	0.0004
CC Ser	57878.8478	39527	1.1007	V	G. Samolyk	0.0004	AH Vir	57828.7977	29481	0.2861	V	G. Samolyk	0.0001
CC Ser	57906.7139	39581	1.1025	V	G. Samolyk	0.0001	AH Vir	57851.4163	29536.5	0.2873	V	L. Corp	0.0001
CC Ser	57952.6415	39670	1.1055	V	G. Samolyk	0.0002	AH Vir	57930.6789	29731	0.2870	V	S. Cook	0.0004
Y Sex	57860.5983	38336	–0.0166	V	G. Samolyk	0.0002	AK Vir	57886.6516	12827	–0.0392	V	G. Samolyk	0.0001
WY Tau	57827.6119	29484	0.0652	V	G. Samolyk	0.0003	AW Vir	57811.8766	36128	0.0298	V	G. Samolyk	0.0002
AC Tau	57788.5766	5947	0.1485	V	G. Samolyk	0.0001	AW Vir	57890.6396	36350.5	0.0285	V	G. Samolyk	0.0001
AQ Tau	57787.6786	23137	0.5338	V	K. Menzies	0.0001	AW Vir	57931.7047	36466.5	0.0299	V	S. Cook	0.0003
EQ Tau	57807.5846	51543.5	–0.0358	V	G. Samolyk	0.0001	AX Vir	57876.7469	43139	0.0252	V	G. Samolyk	0.0001
V1128 Tau	57778.3388	17284.5	0.0001	R	L. Corp	0.0001	AX Vir	57921.7124	43203	0.0290	V	S. Cook	0.0008
V Tri	57786.5469	56924	–0.0074	V	G. Samolyk	0.0001	AZ Vir	57811.8914	39567.5	–0.0228	V	G. Samolyk	0.0001
TX UMa	57802.7122	4180	0.2290	V	G. Samolyk	0.0001	Z Vul	57939.7471	6107	–0.0125	V	G. Samolyk	0.0002
TY UMa	57817.6835	51573.5	0.3905	V	K. Menzies	0.0001	Z Vul	57976.5703	6122	–0.0133	V	T. Arranz	0.0001
TY UMa	57878.6671	51745.5	0.3935	V	G. Samolyk	0.0001	AW Vul	57929.7880	14439	–0.0289	V	G. Samolyk	0.0001
UX UMa	57786.9201	103493	–0.0011	V	K. Menzies	0.0001	AW Vul	57938.6601	14450	–0.0278	V	G. Samolyk	0.0001
UX UMa	57842.7749	103777	–0.0009	V	K. Menzies	0.0001	AX Vul	57929.7615	6458	–0.0362	V	G. Samolyk	0.0001
UX UMa	57907.6763	104107	–0.0010	V	G. Samolyk	0.0001	BE Vul	57925.8473	11478	0.1053	V	G. Samolyk	0.0001
VV UMa	57476.6726	16965	–0.0656	V	G. Lubcke	0.0001	BE Vul	57964.6488	11503	0.1057	V	G. Samolyk	0.0001
VV UMa	57476.6729	16965	–0.0653	B	G. Lubcke	0.0002	BE Vul	57975.5135	11510	0.1061	V	T. Arranz	0.0001
VV UMa	57476.6730	16965	–0.0652	Ic	G. Lubcke	0.0002	BO Vul	57938.8180	11280	–0.0153	V	G. Samolyk	0.0001
VV UMa	57797.6737	17432	–0.0710	V	G. Samolyk	0.0001	BS Vul	57943.8421	30826	–0.0324	V	G. Samolyk	0.0001
VV UMa	57797.6745	17432	–0.0702	B	G. Lubcke	0.0001	BT Vul	57964.8505	19771	0.0053	V	G. Samolyk	0.0001
VV UMa	57797.6746	17432	–0.0701	Ic	G. Lubcke	0.0001	BU Vul	57925.8584	42869	0.0145	V	G. Samolyk	0.0001
VV UMa	57797.6746	17432	–0.0701	V	G. Lubcke	0.0001	BU Vul	57973.6536	42953	0.0143	V	G. Samolyk	0.0001