

Recent Minima of 194 Eclipsing Binary Stars

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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 of minima from CCD observations received by the author from February 2016 through July 2016 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/gsamoj442.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 Worden (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: AC CMi (Samolyk 2008), CW Cas (Samolyk 1992a), Z Dra (Danielkiewicz-Krosniak and Kurpińska-Winiarska 1996), DF Hya (Samolyk 1992b), DK Hya (Samolyk 1990), GU Ori (Samolyk 1985).

The light elements used for V471 Cas, MR Del, DE Lyn, HX UMa, KM UMa, and MS Vir are from Kreiner (2004).

The light elements used for LY And, V1713 Aql, V641 Aur, GW Boo, FV CVn, V2626 Cyg, PS Del, V1057 Her, V1097 Her, IZ Lac, AL Leo, VW LMi, FG Lyn, FI Lyn, V502 Oph, V2790 Ori, V1370 Tau, BX Tri, UY UMa, ES UMa, HN UMa, HV UMa, II UMa, and QT UMa are from Paschke (2014).

The light elements used for V560 Aur, V435 Gem, and V881 Per are from Nelson (2016).

The light elements used for V449 Aur, V610 Cyg, V2628 Cyg, V380 Gem, V383 Gem, V388 Gem, V485 Lac, V505 Lac, V740 Lyr, V736 Per, and V354 UMa are from the AAVSO VSX site (Watson *et al.* 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.	Cycle	O–C (day)	F	Observer	Error (day)	Star	JD (min) Hel.	Cycle	O–C (day)	F	Observer	Error (day)
	2400000+							2400000+					
XZ And	57359.6236	24595	0.1797	V	S. Cook	0.0002	V346 Aql	57586.6837	14162	–0.0131	V	G. Samolyk	0.0002
AB And	57061.5627	63129	–0.0361	V	V. Petriew	0.0001	V1713 Aql	57233.7248	8937	–0.0210	V	B. Manske	0.0004
AB And	57581.7995	64696.5	–0.0403	V	K. Menzies	0.0001	SS Ari	57028.5967	44337	–0.3366	V	V. Petriew	0.0001
BD And	57573.8068	48847	0.0182	V	G. Samolyk	0.0002	AP Aur	57473.6161	26397.5	1.5804	V	G. Samolyk	0.0001
CN And	57046.5729	33426	–0.1399	V	V. Petriew	0.0003	EP Aur	57027.6271	51976	0.0133	V	V. Petriew	0.0001
LY And	57430.4926	34075	0.0263	V	K. Menzies	0.0002	IM Aur	57049.5826	13256	–0.1197	V	V. Petriew	0.0001
LY And	57437.5656	34095.5	0.0262	V	K. Menzies	0.0003	LY Aur	57088.7041	4504	0.0058	V	V. Petriew	0.0002
OO Aql	57542.8497	37352	0.0642	V	G. Samolyk	0.0001	V402 Aur	57066.6405	4890	0.0270	V	V. Petriew	0.0008
OO Aql	57585.4200	37436	0.0643	V	L. Corp	0.0001	V404 Aur	57064.6557	6050	0.0030	V	V. Petriew	0.0024
OO Aql	57586.6859	37438.5	0.0632	V	N. Simmons	0.0001	V449 Aur	57090.5817	12208.5	–0.1719	V	V. Petriew	0.0007

Table continued on following pages

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

<i>Star</i>	<i>JD (min)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i> <i>(day)</i>	<i>F</i>	<i>Observer</i>	<i>Error</i> <i>(day)</i>	<i>Star</i>	<i>JD (min)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i> <i>(day)</i>	<i>F</i>	<i>Observer</i>	<i>Error</i> <i>(day)</i>
V449 Aur	57357.9682	12588.5	-0.1716	V	V. Petriew	0.0002	ZZ Cep	57568.8047	13839	-0.0165	V	N. Simmons	0.0003
V449 Aur	57360.7817	12592.5	-0.1728	V	V. Petriew	0.0004	DK Cep	57569.8096	24322	0.0311	V	G. Samolyk	0.0001
V560 Aur	57027.7762	220	-0.0111	V	V. Petriew	0.0006	DL Cep	57588.6475	14500	0.0650	V	G. Samolyk	0.0004
V585 Aur	57029.6175	10140	0.0399	V	V. Petriew	0.0003	EG Cep	57538.8174	27440	0.0119	V	G. Samolyk	0.0001
V641 Aur	57430.6675	12193	-0.0010	V	K. Menzies	0.0001	EG Cep	57573.6735	27504	0.0122	V	N. Simmons	0.0001
SU Boo	57493.7774	23329	0.0258	V	B. Manske	0.0002	RW Com	57124.7340	72056.5	0.0029	V	B. Manske	0.0001
TU Boo	57511.8008	75382.5	-0.1529	V	G. Samolyk	0.0001	RW Com	57445.8667	73409.5	0.0066	V	G. Samolyk	0.0002
TU Boo	57559.6330	75530	-0.1530	V	G. Samolyk	0.0001	RW Com	57524.6658	73741.5	0.0068	V	N. Simmons	0.0001
TY Boo	57526.6686	72667	0.0717	V	G. Samolyk	0.0001	RW Com	57530.7175	73767	0.0062	V	R. Sabo	0.0001
TY Boo	57526.8290	72667.5	0.0735	V	G. Samolyk	0.0001	RZ Com	57490.6333	66921	0.0508	V	N. Simmons	0.0001
TY Boo	57559.6526	72771	0.0723	V	G. Samolyk	0.0001	RZ Com	57493.6801	66930	0.0510	V	G. Samolyk	0.0002
TZ Boo	57473.7701	60037.5	0.0647	V	G. Samolyk	0.0002	RZ Com	57493.8487	66930.5	0.0504	V	G. Samolyk	0.0001
TZ Boo	57527.7030	60219	0.0627	V	G. Samolyk	0.0002	RZ Com	57562.7331	67134	0.0488	V	S. Cook	0.0005
TZ Boo	57527.8538	60219.5	0.0649	V	G. Samolyk	0.0003	SS Com	57473.8100	78660.5	0.8828	V	G. Samolyk	0.0002
TZ Boo	57549.6899	60293	0.0596	V	S. Cook	0.0007	SS Com	57538.6233	78817.5	0.8877	V	G. Samolyk	0.0001
TZ Boo	57559.6493	60326.5	0.0641	V	G. Samolyk	0.0001	CC Com	57445.8907	81166.5	-0.0252	V	G. Samolyk	0.0002
UW Boo	57530.6352	15055	0.0011	V	G. Samolyk	0.0001	CC Com	57494.6615	81387.5	-0.0261	V	N. Simmons	0.0001
UW Boo	57542.6910	15067	0.0004	V	S. Cook	0.0004	U CrB	57511.6976	11808	0.1325	V	G. Samolyk	0.0001
VW Boo	57495.7435	76893.5	-0.2530	V	G. Samolyk	0.0001	TW CrB	57542.6470	33359	0.0555	V	G. Samolyk	0.0001
VW Boo	57511.6614	76940	-0.2532	V	N. Simmons	0.0001	TW CrB	57575.6223	33415	0.0539	V	K. Menzies	0.0001
VW Boo	57524.6707	76978	-0.2522	V	G. Samolyk	0.0001	W Crv	57419.9457	45795	0.0181	V	G. Samolyk	0.0001
ZZ Boo	57494.6881	3792	0.0757	V	G. Samolyk	0.0001	RV Crv	57513.6643	22060	-0.1010	V	G. Samolyk	0.0002
AD Boo	57526.6652	15557	0.0346	V	G. Samolyk	0.0001	SX Crv	57513.6415	52100.5	-0.8435	V	G. Samolyk	0.0003
AD Boo	57557.6966	15587	0.0340	V	G. Samolyk	0.0001	ZZ Cyg	57497.8109	19881	-0.0695	V	B. Harris	0.0001
EF Boo	57502.6881	11896	0.0183	V	B. Harris	0.0001	BR Cyg	57596.8644	12050	0.0010	V	G. Samolyk	0.0001
ET Boo	57088.8269	3265.5	-0.0112	V	V. Petriew	0.0003	CG Cyg	57564.8205	28741	0.0749	V	G. Samolyk	0.0001
GW Boo	57498.7097	8861.5	0.0000	V	K. Menzies	0.0002	CG Cyg	57573.6556	28755	0.0740	V	G. Samolyk	0.0001
i Boo	57552.7058	66090.5	0.1288	V	S. Cook	0.0013	DK Cyg	57541.8296	41518	0.1155	V	G. Samolyk	0.0001
WY Cnc	57470.3564	37520	-0.0413	V	L. Corp	0.0003	DK Cyg	57600.6658	41643	0.1154	V	G. Samolyk	0.0001
AC Cnc	57446.7095	43785	-0.0147	V	B. Harris	0.0001	KR Cyg	57573.6791	33683	0.0214	V	G. Samolyk	0.0001
FV CVn	57112.8928	12897.5	0.0007	V	V. Petriew	0.0003	KR Cyg	57589.7367	33702	0.0211	V	R. Sabo	0.0001
R Cma	57468.6640	11602	0.1213	V	S. Cook	0.0030	KV Cyg	57588.6818	9905	0.0612	V	G. Samolyk	0.0003
R Cma	57476.6118	11609	0.1175	V	G. Samolyk	0.0001	V387 Cyg	57543.8809	46142	0.0208	V	R. Sabo	0.0001
RT Cma	57425.6086	23807	-0.7684	V	G. Samolyk	0.0001	V401 Cyg	57246.6847	23015	0.0789	B	G. Lubcke	0.0004
SX Cma	57419.7785	18054	0.0177	V	G. Samolyk	0.0001	V401 Cyg	57246.6853	23015	0.0794	V	G. Lubcke	0.0002
TZ Cma	57430.6267	15855	-0.2206	V	G. Samolyk	0.0001	V401 Cyg	57246.6858	23015	0.0800	Ic	G. Lubcke	0.0002
UU Cma	57421.7480	5919	-0.0840	V	G. Samolyk	0.0001	V401 Cyg	57255.7179	23030.5	0.0798	V	G. Lubcke	0.0002
XZ CMi	57090.5968	25304	-0.0005	B	G. Lubcke	0.0001	V401 Cyg	57255.7186	23030.5	0.0805	Ic	G. Lubcke	0.0002
XZ CMi	57090.5968	25304	-0.0004	V	G. Lubcke	0.0001	V401 Cyg	57255.7190	23030.5	0.0810	B	G. Lubcke	0.0002
XZ CMi	57090.5973	25304	0.0000	Ic	G. Lubcke	0.0001	V401 Cyg	57265.6232	23047.5	0.0789	V	G. Lubcke	0.0011
XZ CMi	57428.6228	25888	0.0008	V	G. Samolyk	0.0001	V401 Cyg	57265.6258	23047.5	0.0815	Ic	G. Lubcke	0.0010
XZ CMi	57458.7214	25940	0.0013	V	S. Cook	0.0004	V401 Cyg	57265.6280	23047.5	0.0837	B	G. Lubcke	0.0009
AC CMi	57445.6882	6304	0.0038	V	G. Samolyk	0.0002	V401 Cyg	57279.6107	23071.5	0.0811	V	G. Lubcke	0.0001
AM CMi	57476.6355	31625	0.2252	V	G. Samolyk	0.0002	V401 Cyg	57279.6108	23071.5	0.0812	Ic	G. Lubcke	0.0001
CW Cas	57596.6548	50067	-0.0991	V	G. Samolyk	0.0001	V401 Cyg	57279.6110	23071.5	0.0813	B	G. Lubcke	0.0002
CW Cas	57596.8143	50067.5	-0.0990	V	G. Samolyk	0.0002	V401 Cyg	57557.8603	23549	0.0809	V	G. Samolyk	0.0002
IV Cas	57568.7786	16739	-0.1200	V	G. Samolyk	0.0001	V456 Cyg	57596.6333	14234	0.0505	V	G. Samolyk	0.0002
V380 Cas	57595.6420	23540	-0.0694	V	G. Samolyk	0.0002	V466 Cyg	57568.6857	20692	0.0070	V	N. Simmons	0.0001
V471 Cas	57310.6561	11998	0.0048	V	G. Lubcke	0.0002	V488 Cyg	57573.6545	50629.5	-0.2494	V	G. Samolyk	0.0005
V471 Cas	57310.6563	11998	0.0050	Ic	G. Lubcke	0.0004	V548 Cyg	57531.8148	7243	0.0164	V	G. Samolyk	0.0002
V471 Cas	57310.6572	11998	0.0058	B	G. Lubcke	0.0017	V610 Cyg	57254.7327	0	-0.0013	V	V. Petriew	0.0005
V471 Cas	57311.6578	12000.5	0.0041	V	G. Lubcke	0.0003	V836 Cyg	57198.7553	18893.5	0.0216	V	V. Petriew	0.0007
V471 Cas	57311.6578	12000.5	0.0041	Ic	G. Lubcke	0.0004	V2551 Cyg	57559.8194	25164.5	-0.0509	V	K. Menzies	0.0001
V471 Cas	57311.6583	12000.5	0.0046	B	G. Lubcke	0.0008	V2626 Cyg	57194.8436	28652.5	-0.0292	V	V. Petriew	0.0005
V471 Cas	57334.7125	12058	0.0050	B	G. Lubcke	0.0006	V2628 Cyg	57194.8061	38354.5	0.0073	V	V. Petriew	0.0001
V471 Cas	57334.7126	12058	0.0050	V	G. Lubcke	0.0013	TY Del	57581.7866	12276	0.0679	V	K. Menzies	0.0001
V471 Cas	57334.7127	12058	0.0051	Ic	G. Lubcke	0.0001	YY Del	57573.8315	18427	0.0095	V	G. Samolyk	0.0001
V471 Cas	57335.5143	12060	0.0049	V	G. Lubcke	0.0019	MR Del	57598.5207	9772.5	-0.0074	V	L. Corp	0.0001
V471 Cas	57335.5143	12060	0.0049	B	G. Lubcke	0.0002	PS Del	57590.7989	6181	-0.0036	V	K. Menzies	0.0002
V471 Cas	57361.5751	12125	0.0048	V	G. Lubcke	0.0006	Z Dra	57140.6155	5375	-0.0024	Ic	G. Lubcke	0.0001
V471 Cas	57361.5755	12125	0.0052	Ic	G. Lubcke	0.0005	Z Dra	57140.6155	5375	-0.0024	B	G. Lubcke	0.0001
SU Cep	57560.8224	34652	0.0065	V	G. Samolyk	0.0001	Z Dra	57140.6156	5375	-0.0023	V	G. Lubcke	0.0001
WZ Cep	57542.8404	70673.5	-0.1632	V	G. Samolyk	0.0001	Z Dra	57573.6395	5694	-0.0004	V	G. Samolyk	0.0001
WZ Cep	57586.6690	70778.5	-0.1666	V	G. Samolyk	0.0002	RZ Dra	57530.8023	24240	0.0659	V	G. Samolyk	0.0001
ZZ Cep	57221.8340	13677	-0.0156	V	N. Simmons	0.0003	TW Dra	57586.6814	4792	-0.0244	V	G. Samolyk	0.0001
ZZ Cep	57538.8188	13825	-0.0172	V	N. Simmons	0.0002	AI Dra	57588.7244	11926	0.0345	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.

<i>Star</i>	<i>JD (min)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i> <i>(day)</i>	<i>F</i>	<i>Observer</i>	<i>Error</i> <i>(day)</i>	<i>Star</i>	<i>JD (min)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i> <i>(day)</i>	<i>F</i>	<i>Observer</i>	<i>Error</i> <i>(day)</i>
YY Eri	57431.6025	49300.5	0.1561	V	G. Samolyk	0.0001	RY Lyn	57495.5972	10180	-0.0236	V	G. Samolyk	0.0001
WW Gem	57445.7339	25417	0.0347	V	G. Samolyk	0.0002	SW Lyn	57046.7274	20295	0.0707	V	V. Petriew	0.0001
V380 Gem	57454.6106	17352	0.0227	V	K. Menzies	0.0001	SW Lyn	57504.6639	21006	0.0781	V	B. Harris	0.0001
V383 Gem	57467.5963	5443	-0.0040	V	K. Menzies	0.0002	DE Lyn	57032.7707	11087	-0.0079	V	V. Petriew	0.0001
V388 Gem	57424.5734	9697	0.0065	V	K. Menzies	0.0001	DE Lyn	57436.6787	12075	-0.0125	V	K. Menzies	0.0002
V388 Gem	57484.5631	9796	0.0077	V	K. Menzies	0.0001	DE Lyn	57459.5720	12131	-0.0131	V	K. Menzies	0.0002
V435 Gem	57075.6819	1186	-0.0018	V	V. Petriew	0.0002	FG Lyn	57031.8084	3878	0.1224	V	V. Petriew	0.0005
V435 Gem	57075.8495	1186.5	-0.0025	V	V. Petriew	0.0002	FI Lyn	57026.9292	14596	-0.0004	V	V. Petriew	0.0001
RX Her	57586.6398	13728	-0.0001	V	G. Samolyk	0.0001	EW Lyr	57556.7701	15937	0.2746	V	G. Samolyk	0.0001
SZ Her	57526.7681	19145	-0.0286	V	N. Simmons	0.0001	FL Lyr	57493.8609	8848	-0.0017	V	G. Samolyk	0.0001
TT Her	57485.9135	19176	0.0465	V	R. Sabo	0.0002	FL Lyr	57530.8892	8865	-0.0021	V	R. Sabo	0.0001
TT Her	57560.7029	19258	0.0457	V	N. Simmons	0.0001	V740 Lyr	57214.8540	13267.5	0.0084	V	V. Petriew	0.0003
TT Her	57562.5274	19260	0.0460	V	L. Corp	0.0004	V740 Lyr	57223.7294	13294.5	0.0086	V	V. Petriew	0.0003
TT Her	57581.6811	19281	0.0462	V	K. Menzies	0.0001	V740 Lyr	57223.8932	13295	0.0080	V	V. Petriew	0.0003
TU Her	57531.7400	5942	-0.2390	V	G. Samolyk	0.0001	AT Mon	57446.5841	15199	0.0091	V	G. Samolyk	0.0001
UX Her	57575.6360	11559	0.1246	V	K. Menzies	0.0001	BB Mon	57422.6697	41956	-0.0040	V	G. Samolyk	0.0001
AK Her	57172.8492	35553	0.0172	V	V. Petriew	0.0002	BB Mon	57444.6516	41986	-0.0030	V	R. Sabo	0.0002
AK Her	57572.4521	36501	0.0172	V	L. Corp	0.0003	BO Mon	57419.6395	6252	-0.0286	V	G. Samolyk	0.0001
CC Her	57476.8677	10270	0.2861	V	G. Samolyk	0.0001	SX Oph	57527.8300	11694	-0.0016	V	G. Samolyk	0.0002
CT Her	57560.6480	8418	0.0129	V	G. Samolyk	0.0001	V501 Oph	57600.6820	27573	-0.0094	V	G. Samolyk	0.0001
LT Her	57537.7255	15481	-0.1469	V	R. Sabo	0.0003	V502 Oph	57596.4237	20063	0.0013	V	L. Corp	0.0003
V1057 Her	56810.7692	5845	0.0001	C	G. Frey	0.0003	V502 Oph	57598.4594	20067.5	-0.0032	V	L. Corp	0.0001
V1097 Her	57227.6847	13203	0.0016	V	B. Manske	0.0001	V508 Oph	57490.8965	35988	-0.0256	V	R. Sabo	0.0001
WY Hya	57430.8167	23547	0.0361	V	G. Samolyk	0.0001	V508 Oph	57523.6519	36083	-0.0255	V	B. Harris	0.0001
AV Hya	57431.7260	30375	-0.1133	V	G. Samolyk	0.0002	V508 Oph	57538.8219	36127	-0.0263	V	G. Samolyk	0.0001
DF Hya	57429.6222	44288	0.0016	V	G. Samolyk	0.0001	V508 Oph	57564.6817	36202	-0.0260	V	N. Simmons	0.0001
DI Hya	57425.7557	42673	-0.0317	V	G. Samolyk	0.0001	V508 Oph	57579.5088	36245	-0.0249	V	L. Corp	0.0001
DK Hya	57427.7508	27943	0.0027	V	G. Samolyk	0.0001	V839 Oph	57530.8153	41766	0.3039	V	G. Samolyk	0.0002
SW Lac	57262.8452	37377	-0.0876	V	V. Petriew	0.0001	V839 Oph	57596.6642	41927	0.3045	V	G. Samolyk	0.0001
SW Lac	57538.8286	38237.5	-0.0845	V	G. Samolyk	0.0001	V1010 Oph	57493.8992	28055	-0.1799	V	G. Samolyk	0.0001
CM Lac	57579.6399	19040	-0.0042	V	N. Simmons	0.0001	V1010 Oph	57560.7017	28156	-0.1814	V	G. Samolyk	0.0001
IZ Lac	57259.8594	30655.5	0.0103	V	V. Petriew	0.0010	EQ Ori	57428.7643	14885	-0.0371	V	G. Samolyk	0.0001
IZ Lac	57267.8461	30665.5	0.0078	V	V. Petriew	0.0009	GU Ori	57427.7299	30504.5	-0.0617	V	R. Sabo	0.0001
IZ Lac	57275.8346	30675.5	0.0072	V	V. Petriew	0.0031	GU Ori	57473.6221	30602	-0.0609	V	G. Samolyk	0.0002
IZ Lac	57278.6275	30679	0.0038	V	V. Petriew	0.0010	V2790 Ori	57459.5788	20629	0.0015	V	K. Menzies	0.0001
IZ Lac	57283.8247	30685.5	0.0080	V	V. Petriew	0.0008	BB Peg	57579.8358	38217	-0.0234	V	G. Samolyk	0.0001
V342 Lac	57259.6968	33398.5	-0.0496	V	V. Petriew	0.0004	BX Peg	56922.7233	45387	-0.1126	V	B. Manske	0.0001
V342 Lac	57260.7489	33400	-0.0484	V	V. Petriew	0.0005	BX Peg	57227.8163	46475	-0.1175	V	B. Manske	0.0001
V342 Lac	57267.7549	33410	-0.0481	V	V. Petriew	0.0005	BX Peg	57596.8471	47791	-0.1205	V	G. Samolyk	0.0002
V342 Lac	57272.6598	33417	-0.0473	V	V. Petriew	0.0022	XZ Per	57392.6574	12057	-0.0726	B	G. Lubcke	0.0001
V342 Lac	57275.8098	33421.5	-0.0499	V	V. Petriew	0.0004	XZ Per	57392.6574	12057	-0.0726	Ic	G. Lubcke	0.0001
V342 Lac	57276.8633	33423	-0.0473	V	V. Petriew	0.0004	XZ Per	57392.6574	12057	-0.0726	V	G. Lubcke	0.0001
V342 Lac	57283.8677	33433	-0.0487	V	V. Petriew	0.0004	IT Per	57365.7513	18245	-0.0216	V	S. Cook	0.0006
V485 Lac	57258.8790	0	0.0030	V	V. Petriew	0.0004	V736 Per	57421.5579	2321	0.0064	V	K. Menzies	0.0003
V485 Lac	57259.7587	1.5	0.0139	V	V. Petriew	0.0005	V873 Per	57301.8149	20111.5	-0.0199	V	V. Petriew	0.0001
V485 Lac	57267.8726	15.5	0.0185	V	V. Petriew	0.0006	V873 Per	57301.9611	20112	-0.0212	V	V. Petriew	0.0001
V485 Lac	57275.6781	29	0.0044	V	V. Petriew	0.0014	V881 Per	57031.6675	138	-0.0052	V	V. Petriew	0.0002
V485 Lac	57276.8337	31	0.0015	V	V. Petriew	0.0004	V881 Per	57310.7746	858.5	-0.0039	V	V. Petriew	0.0013
V485 Lac	57278.8734	34.5	0.0139	V	V. Petriew	0.0005	V881 Per	57310.9655	859	-0.0068	V	V. Petriew	0.0002
V485 Lac	57283.7879	43	0.0049	V	V. Petriew	0.0004	UZ Pup	57473.5854	16179	-0.0105	V	G. Samolyk	0.0001
V505 Lac	57284.6478	10150	-0.0798	V	V. Petriew	0.0003	V1968 Sgr	57225.7380	34452	-0.0166	V	G. Samolyk	0.0001
V505 Lac	57285.7923	10153.5	-0.0798	V	V. Petriew	0.0003	V1968 Sgr	57524.8241	34983	-0.0162	V	G. Samolyk	0.0002
V505 Lac	57285.9559	10154	-0.0798	V	V. Petriew	0.0003	RS Ser	57526.8089	37792	0.0501	V	G. Samolyk	0.0001
Y Leo	57476.8417	7141	-0.0637	V	G. Samolyk	0.0001	CC Ser	57430.9254	38659	1.0717	V	G. Samolyk	0.0002
UV Leo	57040.9949	30996	0.0407	V	V. Petriew	0.0001	CC Ser	57530.7795	38852.5	1.0786	V	N. Simmons	0.0002
UV Leo	57518.6626	31792	0.0409	V	S. Cook	0.0003	CC Ser	57597.6069	38982	1.0832	V	K. Menzies	0.0002
XY Leo	57512.6891	43781	0.1521	V	S. Cook	0.0007	V384 Ser	57225.6858	18086	-0.0044	V	B. Manske	0.0002
XZ Leo	57439.9934	25453.5	0.0700	V	R. Sabo	0.0003	EQ Tau	57034.6058	49279	-0.0309	V	V. Petriew	0.0001
AL Leo	57083.6309	5767	-0.0045	V	V. Petriew	0.0002	V1370 Tau	57032.5954	18830	-0.0007	V	V. Petriew	0.0002
AM Leo	57057.9915	39816	0.0132	V	V. Petriew	0.0001	V1370 Tau	57467.5970	20302	-0.0002	V	K. Menzies	0.0003
AM Leo	57460.5510	40916.5	0.0127	V	L. Corp	0.0002	BX Tri	57304.7911	30901.5	-0.0092	V	V. Petriew	0.0005
RT LMi	57037.8361	32101.5	-0.0088	V	V. Petriew	0.0001	W UMa	57032.9215	33771	-0.0887	V	V. Petriew	0.0001
VW LMi	57045.7340	17894.5	0.0150	V	V. Petriew	0.0002	W UMa	57092.6413	33950	-0.0899	V	G. Lubcke	0.0003
VW LMi	57045.9717	17895	0.0139	V	V. Petriew	0.0002	W UMa	57092.6414	33950	-0.0899	Ic	G. Lubcke	0.0001
VW LMi	57136.7080	18085	0.0156	V	V. Petriew	0.0003	W UMa	57092.6415	33950	-0.0897	B	G. Lubcke	0.0002
RR Lep	57421.6108	29543	-0.0406	V	G. Samolyk	0.0001	W UMa	57471.6480	35086	-0.0955	V	S. Cook	0.0004

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

<i>Star</i>	<i>JD (min) Hel. 2400000+</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>F</i>	<i>Observer</i>	<i>Error (day)</i>	<i>Star</i>	<i>JD (min) Hel. 2400000+</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>F</i>	<i>Observer</i>	<i>Error (day)</i>
W UMa	57498.6714	35167	-0.0967	V	B. Harris	0.0001	QT UMa	57029.7681	11542	0.0017	V	V. Petriew	0.0002
TX UMa	57465.7467	4070	0.2197	V	S. Cook	0.0004	QT UMa	57030.0043	11542.5	0.0012	V	V. Petriew	0.0001
TY UMa	57445.7561	50524.5	0.3741	V	N. Simmons	0.0001	QT UMa	57498.5735	12532	0.0040	V	K. Menzies	0.0001
UX UMa	57074.7729	99872	-0.0016	V	V. Petriew	0.0000	V354 UMa	57089.8088	19294	0.0493	V	V. Petriew	0.0006
UX UMa	57494.6662	102007	-0.0015	V	G. Samolyk	0.0001	V354 UMa	57089.9538	19294.5	0.0473	V	V. Petriew	0.0006
UX UMa	57530.6573	102190	-0.0012	V	G. Samolyk	0.0001	W UMi	57564.6779	14039	-0.1966	V	G. Samolyk	0.0003
UX UMa	57568.6152	102383	-0.0009	V	G. Samolyk	0.0001	RU UMi	57513.6583	30323	-0.0148	V	G. Samolyk	0.0002
UX UMa	57569.7955	102389	-0.0006	V	N. Krumm	0.0001	RU UMi	57556.7027	30405	-0.0143	V	S. Cook	0.0004
UX UMa	57579.6287	102439	-0.0010	V	G. Samolyk	0.0001	VV Vir	57428.9706	58744	-0.0471	V	G. Samolyk	0.0001
UY UMa	57079.8009	78435	0.0025	V	V. Petriew	0.0002	AG Vir	57493.6718	18768	-0.0121	V	G. Samolyk	0.0001
UY UMa	57079.9896	78435.5	0.0032	V	V. Petriew	0.0002	AH Vir	57493.6044	28658.5	0.2788	V	G. Samolyk	0.0002
VV UMa	57089.6828	16402	-0.0605	Ic	G. Lubcke	0.0002	AH Vir	57513.3699	28707	0.2796	V	L. Corp	0.0002
VV UMa	57089.6832	16402	-0.0601	B	G. Lubcke	0.0004	AH Vir	57520.7056	28725	0.2799	V	S. Cook	0.0004
VV UMa	57089.6836	16402	-0.0597	V	G. Lubcke	0.0003	AK Vir	57425.9278	12441	-0.0342	V	G. Samolyk	0.0001
VV UMa	57476.6719	16965	-0.0663	V	G. Samolyk	0.0002	AW Vir	57424.9571	35035	0.0290	V	G. Samolyk	0.0001
XZ UMa	57446.6380	9227	-0.1346	V	G. Samolyk	0.0001	AW Vir	57573.6355	35455	0.0286	V	G. Samolyk	0.0001
XZ UMa	57446.6380	9227	-0.1346	V	N. Simmons	0.0001	AZ Vir	57427.9575	38469.5	-0.0244	V	G. Samolyk	0.0002
ZZ UMa	57511.6424	9377	-0.0026	V	G. Samolyk	0.0001	AZ Vir	57442.9936	38512.5	-0.0239	V	R. Sabo	0.0001
BM UMa	57505.6933	74320	0.0129	V	B. Harris	0.0001	AZ Vir	57542.6470	38797.5	-0.0251	V	G. Samolyk	0.0001
DN UMa	57087.7045	7600	0.0463	V	V. Petriew	0.0005	BH Vir	57431.9109	17385	-0.0110	V	G. Samolyk	0.0001
ES UMa	57070.7144	15063.5	0.0081	V	V. Petriew	0.0010	BH Vir	57521.7670	17495	-0.0108	V	S. Cook	0.0003
ES UMa	57070.9788	15064	0.0081	V	V. Petriew	0.0001	BH Vir	57476.8382	17440	-0.0117	V	G. Samolyk	0.0001
HN UMa	57086.8462	22442	0.0026	V	V. Petriew	0.0007	MS Vir	57531.6815	16104.5	0.0045	V	G. Samolyk	0.0002
HV UMa	57081.8609	8069	0.0178	V	V. Petriew	0.0003	MS Vir	57553.7098	16175	0.0059	V	S. Cook	0.0007
HX UMa	57045.0318	11987	-0.0225	V	V. Petriew	0.0008	Z Vul	57588.6910	5964	-0.0131	V	G. Samolyk	0.0001
II UMa	57066.7360	10381	0.0126	V	V. Petriew	0.0004	AW Vul	57579.7919	14005	-0.0251	V	N. Simmons	0.0001
KM UMa	57080.7182	13018	-0.0026	V	V. Petriew	0.0002	AX Vul	57595.6624	6293	-0.0369	V	G. Samolyk	0.0001
KM UMa	57080.9001	13018.5	0.0033	V	V. Petriew	0.0006	AY Vul	57579.6843	6174	-0.1392	V	G. Samolyk	0.0002
KM UMa	57098.8516	13069.5	0.0099	V	V. Petriew	0.0012	BE Vul	57579.7385	11255	0.1023	V	G. Samolyk	0.0001
KM UMa	57099.9069	13072.5	0.0097	V	V. Petriew	0.0013	BS Vul	57557.8294	30015	-0.0323	V	G. Samolyk	0.0001
KM UMa	57128.7501	13154.5	0.0003	V	V. Petriew	0.0007	BU Vul	57586.7383	42273	0.0142	V	G. Samolyk	0.0002
KM UMa	57128.9253	13155	-0.0004	V	V. Petriew	0.0001	CD Vul	57581.6646	16502	-0.0004	V	K. Menzies	0.0001
KM UMa	57502.5971	14217	-0.0042	V	B. Harris	0.0001	CD Vul	57596.7064	16524	-0.0010	V	G. Samolyk	0.0002