

Recent Maxima of 81 Short Period Pulsating Stars

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Abstract This paper contains times of maxima for 81 short period pulsating stars (primarily RR Lyrae and δ Scuti stars). This represents the CCD observations received by the AAVSO Short Period Pulsator (SPP) Section in 2023.

1. Recent observations

Table 1 contains times of maxima of 81 short period pulsating stars (primarily RR Lyrae and δ Scuti variables) calculated from CCD observations made by participants in the AAVSO's Short Period Pulsator (SPP) Section. This list will be web-archived and made available through the AAVSO ftp site at:

<ftp://ftp.aavso.org/public/datasets/gsamj521spp81.txt> .

The error estimate is included. RR Lyr stars in this list, along with data from earlier AAVSO publications, are included in the GEOS database at:

<http://rr-lyr.irap.omp.eu/dbrr/>

This database does not include δ Scuti stars. These observations were reduced by the writer using the PERANSO program (Vanmunster 2007). 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: V377 Boo, V488 Gem, and EH Lib (AAVSO VSX site, Watson *et al.* 2014); RZ Cap and DG Hya (Samolyk 2010); V2416 Cyg (Samolyk 2018); EF Cnc and GO Hya (GEOS Database); and GW UMa (Hintz *et al.* 2001).

References

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Table 1. Recent times of maxima of stars in the AAVSO Short Period Pulsator program.

<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> 2400000+	<i>Cycle</i>	<i>O-C</i> (day)	<i>F</i>	<i>Observer</i>	<i>Error</i> (day)	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> 2400000+	<i>Cycle</i>	<i>O-C</i> (day)	<i>F</i>	<i>Observer</i>	<i>Error</i> (day)
SW And	59949.3009	94549	-0.5707	V	T. Arranz	0.0009	SZ Boo	60024.7513	61942	0.0162	I	K. Menzies	0.0015
SW And	59972.2987	94601	-0.5714	V	T. Arranz	0.0007	TV Boo	60023.8885	113304	0.1478	V	K. Menzies	0.0011
SW And	60217.7477	95156	-0.5875	V	G. Samolyk	0.0011	TV Boo	60065.4457	113437	0.1346	V	T. Arranz	0.0018
SW And	60305.3202	95354	-0.5863	V	T. Arranz	0.0013	TV Boo	60066.3717	113440	0.1229	V	T. Arranz	0.0016
XX And	59969.3552	28892	0.3074	V	T. Arranz	0.0011	TV Boo	60070.4473	113453	0.1352	V	T. Arranz	0.0036
XX And	59984.5357	28913	0.3102	V	K. Menzies	0.0013	TV Boo	60075.4500	113469	0.1370	V	T. Arranz	0.0017
XX And	60218.7008	29237	0.3052	V	G. Samolyk	0.0011	TV Boo	60076.3720	113472	0.1213	V	T. Arranz	0.0011
XX And	60292.4284	29339	0.3126	V	T. Arranz	0.0011	TV Boo	60079.4976	113482	0.1213	V	T. Arranz	0.0017
ZZ And	60188.7434	63766	0.0387	V	K. Menzies	0.0015	TV Boo	60081.3941	113488	0.1425	V	T. Arranz	0.0020
ZZ And	60269.7049	63912	0.0384	V	K. Menzies	0.0016	TV Boo	60084.5117	113498	0.1345	V	T. Arranz	0.0019
AC And	60172.7406	16411	0.4280	V	G. Samolyk	0.0022	TW Boo	60075.7087	62345	-0.1288	V	G. Samolyk	0.0010
AC And	60294.4388	16582	0.5041	V	T. Arranz	0.0012	TW Boo	60120.4190	62429	-0.1295	V	T. Arranz	0.0008
AT And	59948.3080	28537	-0.0087	V	T. Arranz	0.0014	TW Boo	60293.9377	62755	-0.1318	V	K. Menzies	0.0005
AT And	60219.7606	28977	0.0014	V	G. Samolyk	0.0017	UU Boo	60001.8652	52344	0.4085	V	G. Samolyk	0.0011
AT And	60292.5452	29095	-0.0100	V	G. Samolyk	0.0018	UU Boo	60078.6301	52512	0.4108	V	K. Menzies	0.0008
AT And	60294.3948	29098	-0.0111	V	T. Arranz	0.0019	UU Boo	60112.4445	52586	0.4131	V	T. Arranz	0.0007
DM And	60276.3136	38958	0.1879	V	T. Arranz	0.0010	UU Boo	60123.4105	52610	0.4130	V	T. Arranz	0.0009
DM And	60281.3555	38966	0.1868	V	T. Arranz	0.0013	UY Boo	60022.8357	27943	0.8174	V	G. Samolyk	0.0009
SW Aqr	60174.8232	76371	0.0029	V	G. Samolyk	0.0008	UY Boo	60122.4118	28096	0.8155	V	T. Arranz	0.0014
SW Aqr	60201.4634	76429	0.0036	V	T. Arranz	0.0013	V377 Boo	60122.5513	11843	0.0006	V	T. Arranz	0.0006
SW Aqr	60219.3755	76468	0.0028	V	T. Arranz	0.0009	UY Cam	60044.6575	91669	-0.0858	V	K. Menzies	0.0026
SW Aqr	60225.3482	76481	0.0046	V	T. Arranz	0.0001	RW Cnc	59986.7843	37336	0.2484	V	G. Samolyk	0.0016
TZ Aqr	60172.7807	39608	0.0169	V	G. Samolyk	0.0019	RW Cnc	60028.3830	37412	0.2600	V	T. Arranz	0.0019
TZ Aqr	60273.3086	39784	0.0146	V	T. Arranz	0.0014	RW Cnc	60040.4145	37434	0.2531	V	T. Arranz	0.0013
YZ Aqr	60219.6794	45033	0.1011	V	G. Samolyk	0.0006	RW Cnc	60052.4562	37456	0.2565	V	T. Arranz	0.0019
AA Aqr	60262.2921	64895	-0.2159	V	T. Arranz	0.0012	RW Cnc	60057.3759	37465	0.2514	V	T. Arranz	0.0012
AA Aqr	60266.5549	64902	-0.2154	V	G. Samolyk	0.0013	RW Cnc	60260.9310	37837	0.2484	V	K. Menzies	0.0014
BO Aqr	60217.7334	26795	0.2530	V	G. Samolyk	0.0009	TT Cnc	59993.7174	35583	0.1304	V	G. Samolyk	0.0011
BO Aqr	60266.3141	26865	0.2524	V	T. Arranz	0.0014	TT Cnc	60030.3431	35648	0.1319	V	T. Arranz	0.0012
BR Aqr	60205.7058	46837	-0.2565	V	G. Samolyk	0.0009	TT Cnc	60039.3608	35664	0.1344	V	T. Arranz	0.0011
BR Aqr	60248.5917	46926	-0.2578	V	G. Samolyk	0.0009	TT Cnc	60044.4364	35673	0.1390	V	T. Arranz	0.0013
CY Aqr	60220.6246	424523	0.0191	V	G. Samolyk	0.0003	TT Cnc	60057.4049	35696	0.1481	V	T. Arranz	0.0011
CY Aqr	60220.6854	424524	0.0189	V	G. Samolyk	0.0005	EF Cnc	60050.4015	31621	-0.0289	V	T. Arranz	0.0028
CY Aqr	60220.7465	424525	0.0189	V	G. Samolyk	0.0003	SS CVn	60088.6646	42770	-0.3836	V	G. Samolyk	0.0012
CY Aqr	60266.2813	425271	0.0191	V	T. Arranz	0.0004	RZ Cap	60164.7900	58698	-0.1499	V	G. Samolyk	0.0009
CY Aqr	60266.3424	425272	0.0191	V	T. Arranz	0.0003	RZ Cap	60179.7260	21932	0.0084	V	G. Samolyk	0.0012
RV Ari	60187.8377	270276	-0.0094	V	G. Samolyk	0.0006	VW Cap	60189.6449	110672	0.2622	V	G. Samolyk	0.0041
RV Ari	60188.8657	270287	-0.0058	V	G. Samolyk	0.0009	YZ Cap	60184.7309	60174	0.0305	V	G. Samolyk	0.0031
RV Ari	60249.6857	270940	0.0015	V	G. Samolyk	0.0008	RR Cet	59967.3439	48435	0.0219	V	T. Arranz	0.0013
RV Ari	60249.7721	270941	-0.0053	V	G. Samolyk	0.0004	RR Cet	60191.8758	48841	0.0244	V	G. Samolyk	0.0009
RV Ari	60249.8626	270942	-0.0079	V	G. Samolyk	0.0006	RR Cet	60280.3604	49001	0.0245	V	T. Arranz	0.0011
RV Ari	60264.5867	271100	0.0019	V	G. Samolyk	0.0006	RR Cet	60308.5651	49052	0.0248	V	G. Samolyk	0.0009
RV Ari	60264.6707	271101	-0.0072	V	G. Samolyk	0.0005	RV Cet	60290.6655	33970	0.3026	V	G. Samolyk	0.0021
RV Ari	60264.7631	271102	-0.0079	V	G. Samolyk	0.0009	RX Cet	60292.5315	35152	0.3183	V	G. Samolyk	0.0016
RV Ari	60264.8671	271103	0.0029	V	G. Samolyk	0.0010	RZ Cet	59975.3598	51054	-0.2529	V	T. Arranz	0.0006
TZ Aur	59983.6903	102333	0.0195	V	G. Samolyk	0.0007	RZ Cet	60217.8932	51529	-0.2596	V	G. Samolyk	0.0009
TZ Aur	59986.4312	102340	0.0187	V	T. Arranz	0.0007	RZ Cet	60293.4625	51677	-0.2607	V	T. Arranz	0.0011
TZ Aur	59987.6060	102343	0.0185	V	K. Menzies	0.0005	TY Cet	60278.6914	27347	-0.0255	V	G. Samolyk	0.0016
TZ Aur	60024.4232	102437	0.0183	V	T. Arranz	0.0006	XX Cyg	60086.6710	115903	0.0053	V	G. Samolyk	0.0006
TZ Aur	60292.7207	103122	0.0187	V	G. Samolyk	0.0006	XX Cyg	60086.8061	115904	0.0055	V	G. Samolyk	0.0005
BH Aur	59975.4307	37764	0.0135	V	T. Arranz	0.0012	XX Cyg	60095.8407	115971	0.0042	V	K. Menzies	0.0009
BH Aur	60002.3405	37823	0.0140	V	T. Arranz	0.0009	XX Cyg	60117.6900	116133	0.0053	V	G. Samolyk	0.0004
BH Aur	60293.7819	38462	0.0140	V	K. Menzies	0.0011	XX Cyg	60117.8248	116134	0.0053	V	G. Samolyk	0.0005
RS Boo	60017.8101	48358	-0.0373	V	G. Samolyk	0.0007	XX Cyg	60130.6368	116229	0.0051	V	G. Samolyk	0.0005
RS Boo	60074.4119	48508	-0.0364	V	T. Arranz	0.0009	XX Cyg	60130.7717	116230	0.0051	V	G. Samolyk	0.0005
RS Boo	60077.4370	48516	-0.0300	V	T. Arranz	0.0008	XX Cyg	60152.6197	116392	0.0050	V	T. Arranz	0.0005
ST Boo	60036.8582	65653	0.1217	V	G. Samolyk	0.0011	XX Cyg	60153.5632	116399	0.0044	V	T. Arranz	0.0003
ST Boo	60065.4700	65699	0.1082	V	T. Arranz	0.0010	XX Cyg	60157.6094	116429	0.0047	V	T. Arranz	0.0004
ST Boo	60070.4479	65707	0.1077	V	T. Arranz	0.0009	XX Cyg	60159.6319	116444	0.0042	V	T. Arranz	0.0004
ST Boo	60075.4241	65715	0.1056	V	T. Arranz	0.0009	XX Cyg	60160.5764	116451	0.0046	V	T. Arranz	0.0004
ST Boo	60116.4961	65781	0.1064	V	T. Arranz	0.0035	XX Cyg	60162.5992	116466	0.0044	V	T. Arranz	0.0004
ST Boo	60126.4538	65797	0.1075	V	T. Arranz	0.0015	XX Cyg	60171.6353	116533	0.0046	V	T. Arranz	0.0004
SW Boo	59993.8513	33927	0.6235	V	G. Samolyk	0.0011	XX Cyg	60172.5793	116540	0.0045	V	T. Arranz	0.0004
SW Boo	60073.4536	34082	0.6289	V	T. Arranz	0.0011	XX Cyg	60175.5465	116562	0.0047	V	T. Arranz	0.0004
SZ Boo	60024.7501	61942	0.0150	V	K. Menzies	0.0009	XZ Cyg	60085.7508	34207	-3.0961	V	G. Samolyk	0.0009

Table continued on following pages

Table 1. Recent times of maxima of stars in the AAVSO Short Period Pulsator program, cont.

<i>Star</i>	<i>JD (max) 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 (max) Hel. 2400000 +</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>F</i>	<i>Observer</i>	<i>Error (day)</i>
XZ Cyg	60091.8155	34220	-3.0985	V	G. Samolyk	0.0007	XZ Dra	60138.5707	38217	-0.0891	V	T. Arranz	0.0008
XZ Cyg	60112.8034	34265	-3.1121	V	G. Samolyk	0.0011	XZ Dra	60139.5240	38219	-0.0888	V	T. Arranz	0.0009
XZ Cyg	60113.7339	34267	-3.1150	V	G. Samolyk	0.0010	XZ Dra	60140.4708	38221	-0.0950	V	T. Arranz	0.0013
XZ Cyg	60128.6647	34299	-3.1186	V	G. Samolyk	0.0009	XZ Dra	60143.8164	38228	-0.0849	V	G. Samolyk	0.0009
XZ Cyg	60136.6056	34316	-3.1116	V	T. Arranz	0.0008	XZ Dra	60148.5819	38238	-0.0844	V	T. Arranz	0.0009
XZ Cyg	60137.5400	34318	-3.1106	V	T. Arranz	0.0008	XZ Dra	60150.4856	38242	-0.0867	V	T. Arranz	0.0014
XZ Cyg	60138.4737	34320	-3.1103	V	T. Arranz	0.0006	XZ Dra	60151.4314	38244	-0.0939	V	T. Arranz	0.0007
XZ Cyg	60139.4079	34322	-3.1095	V	T. Arranz	0.0009	XZ Dra	60152.3938	38246	-0.0845	V	T. Arranz	0.0009
XZ Cyg	60146.4080	34337	-3.1099	V	T. Arranz	0.0006	XZ Dra	60159.5421	38261	-0.0836	V	T. Arranz	0.0009
XZ Cyg	60150.6044	34346	-3.1138	V	T. Arranz	0.0008	XZ Dra	60160.4940	38263	-0.0847	V	T. Arranz	0.0009
XZ Cyg	60151.5391	34348	-3.1125	V	T. Arranz	0.0006	XZ Dra	60162.3977	38267	-0.0870	V	T. Arranz	0.0009
XZ Cyg	60152.4703	34350	-3.1147	V	T. Arranz	0.0006	XZ Dra	60169.5417	38282	-0.0905	V	T. Arranz	0.0013
XZ Cyg	60153.4025	34352	-3.1159	V	T. Arranz	0.0006	XZ Dra	60171.4439	38286	-0.0942	V	T. Arranz	0.0011
XZ Cyg	60156.6681	34359	-3.1172	V	G. Samolyk	0.0007	RX Eri	59977.3994	65194	-0.0097	V	T. Arranz	0.0013
XZ Cyg	60157.6005	34361	-3.1182	V	T. Arranz	0.0007	RX Eri	59980.3357	65199	-0.0096	V	T. Arranz	0.0010
XZ Cyg	60158.5323	34363	-3.1198	V	T. Arranz	0.0005	RX Eri	60262.8020	65680	-0.0087	V	G. Samolyk	0.0011
XZ Cyg	60159.4666	34365	-3.1189	V	T. Arranz	0.0006	BB Eri	59989.3587	35848	0.3642	V	T. Arranz	0.0011
XZ Cyg	60160.3983	34367	-3.1206	V	T. Arranz	0.0007	BB Eri	60249.8100	36305	0.3721	V	G. Samolyk	0.0012
XZ Cyg	60165.5288	34378	-3.1238	V	T. Arranz	0.0006	RR Gem	59981.6003	46878	-0.7310	V	G. Samolyk	0.0008
XZ Cyg	60166.4614	34380	-3.1246	V	T. Arranz	0.0008	RR Gem	59986.3661	46890	-0.7329	V	T. Arranz	0.0007
XZ Cyg	60171.5951	34391	-3.1246	V	T. Arranz	0.0011	RR Gem	59988.3550	46895	-0.7306	V	T. Arranz	0.0008
XZ Cyg	60172.5267	34393	-3.1264	V	T. Arranz	0.0009	RR Gem	59990.3374	46900	-0.7347	V	T. Arranz	0.0007
XZ Cyg	60178.5981	34406	-3.1221	V	T. Arranz	0.0006	RR Gem	59992.3229	46905	-0.7358	V	T. Arranz	0.0006
XZ Cyg	60210.3307	34474	-3.1251	V	T. Arranz	0.0009	RR Gem	59994.3141	46910	-0.7311	V	T. Arranz	0.0008
XZ Cyg	60217.3248	34489	-3.1315	V	T. Arranz	0.0007	RR Gem	60007.4217	46943	-0.7348	V	T. Arranz	0.0006
DM Cyg	60129.7252	41793	0.1102	V	G. Samolyk	0.0006	RR Gem	60017.3566	46968	-0.7327	V	T. Arranz	0.0006
DM Cyg	60201.5186	41964	0.1076	V	T. Arranz	0.0007	RR Gem	60028.4764	46996	-0.7376	V	T. Arranz	0.0006
DM Cyg	60207.3993	41978	0.1102	V	T. Arranz	0.0007	RR Gem	60030.4669	47001	-0.7336	V	T. Arranz	0.0007
DM Cyg	60210.3361	41985	0.1080	V	T. Arranz	0.0007	RR Gem	60036.4243	47016	-0.7359	V	T. Arranz	0.0007
DM Cyg	60222.5130	42014	0.1090	V	T. Arranz	0.0008	RR Gem	60040.3967	47026	-0.7366	V	T. Arranz	0.0007
DM Cyg	60225.4541	42021	0.1110	V	T. Arranz	0.0007	RR Gem	60042.3820	47031	-0.7378	V	T. Arranz	0.0006
DM Cyg	60228.3929	42028	0.1108	V	T. Arranz	0.0007	RR Gem	60044.3711	47036	-0.7353	V	T. Arranz	0.0008
DM Cyg	60269.5397	42126	0.1113	V	K. Menzies	0.0009	RR Gem	60046.3577	47041	-0.7352	V	T. Arranz	0.0007
DM Cyg	60273.3155	42135	0.1084	V	T. Arranz	0.0008	RR Gem	60293.8689	47664	-0.7485	V	G. Samolyk	0.0006
V2416 Cyg	60086.6917	115837	-0.0013	V	G. Samolyk	0.0012	GQ Gem	60285.8953	52508	-0.2213	V	K. Menzies	0.0021
V2416 Cyg	60086.7476	115838	-0.0012	V	G. Samolyk	0.0011	V488 Gem	60019.5008	58733	-0.0307	V	T. Arranz	0.0007
V2416 Cyg	60086.8056	115839	0.0009	V	G. Samolyk	0.0015	TW Her	60009.9196	96258	-0.0212	V	K. Menzies	0.0008
V2416 Cyg	60086.8632	115840	0.0026	V	G. Samolyk	0.0013	TW Her	60075.8530	96423	-0.0218	V	K. Menzies	0.0009
V2416 Cyg	60117.6546	116391	-0.0013	V	G. Samolyk	0.0017	TW Her	60091.8374	96463	-0.0214	V	G. Samolyk	0.0007
V2416 Cyg	60117.7098	116392	-0.0019	V	G. Samolyk	0.0016	TW Her	60095.8333	96473	-0.0215	V	K. Menzies	0.0012
V2416 Cyg	60117.7673	116393	-0.0003	V	G. Samolyk	0.0012	TW Her	60120.6099	96535	-0.0201	V	T. Arranz	0.0006
V2416 Cyg	60117.8234	116394	0.0000	V	G. Samolyk	0.0011	VX Her	60040.8230	84086	-0.1386	V	G. Samolyk	0.0007
V2416 Cyg	60130.6245	116623	0.0023	V	G. Samolyk	0.0014	VX Her	60081.8046	84176	-0.1406	V	G. Samolyk	0.0007
V2416 Cyg	60130.6792	116624	0.0011	V	G. Samolyk	0.0015	VX Her	60117.7786	84255	-0.1410	V	G. Samolyk	0.0008
V2416 Cyg	60130.7353	116625	0.0013	V	G. Samolyk	0.0015	VX Her	60141.4562	84307	-0.1428	V	T. Arranz	0.0007
V2416 Cyg	60130.7886	116626	-0.0013	V	G. Samolyk	0.0015	VZ Her	60037.8733	52799	0.1030	V	K. Menzies	0.0013
V2416 Cyg	60130.8490	116627	0.0032	V	G. Samolyk	0.0016	VZ Her	60086.7493	52910	0.1026	V	G. Samolyk	0.0008
V2416 Cyg	60152.6424	117017	-0.0004	V	T. Arranz	0.0008	VZ Her	60122.4143	52991	0.1011	V	T. Arranz	0.0008
V2416 Cyg	60153.5922	117034	-0.0006	V	T. Arranz	0.0009	AR Her	60034.7348	39533	-1.2291	V	K. Menzies	0.0009
V2416 Cyg	60153.6483	117035	-0.0005	V	T. Arranz	0.0009	AR Her	60048.8520	39563	-1.2128	V	G. Samolyk	0.0008
V2416 Cyg	60157.5589	117105	-0.0021	V	T. Arranz	0.0009	AR Her	60075.6154	39620	-1.2410	V	G. Samolyk	0.0011
V2416 Cyg	60157.6154	117106	-0.0016	V	T. Arranz	0.0009	AR Her	60081.7624	39633	-1.2043	V	G. Samolyk	0.0014
RW Dra	59984.8408	46526	0.2935	V	K. Menzies	0.0011	AR Her	60083.6359	39637	-1.2109	V	K. Menzies	0.0012
RW Dra	60090.7180	46765	0.3135	V	G. Samolyk	0.0008	AR Her	60090.6799	39652	-1.2174	V	G. Samolyk	0.0009
RW Dra	60120.4036	46832	0.3237	V	T. Arranz	0.0009	AR Her	60096.7791	39665	-1.2285	V	K. Menzies	0.0008
RW Dra	60124.3944	46841	0.3282	V	T. Arranz	0.0008	AR Her	60097.7213	39667	-1.2264	V	G. Samolyk	0.0009
RW Dra	60127.4927	46848	0.3261	V	T. Arranz	0.0008	AR Her	60112.7702	39699	-1.2184	V	G. Samolyk	0.0012
RW Dra	60129.7067	46853	0.3255	V	G. Samolyk	0.0011	AR Her	60113.7146	39701	-1.2140	V	G. Samolyk	0.0015
RW Dra	60135.4454	46866	0.3063	V	T. Arranz	0.0008	AR Her	60118.4107	39711	-1.2182	V	T. Arranz	0.0010
RW Dra	60166.4691	46936	0.3258	V	T. Arranz	0.0008	AR Her	60125.4590	39726	-1.2203	V	T. Arranz	0.0008
XZ Dra	60040.8907	38012	-0.0873	V	G. Samolyk	0.0011	AR Her	60128.7374	39733	-1.2321	V	G. Samolyk	0.0008
XZ Dra	60061.8525	38056	-0.0913	V	G. Samolyk	0.0009	AR Her	60140.4635	39758	-1.2567	V	T. Arranz	0.0010
XZ Dra	60103.7807	38144	-0.0949	V	G. Samolyk	0.0010	AR Her	60141.3995	39760	-1.2608	V	T. Arranz	0.0010
XZ Dra	60116.6605	38171	-0.0805	V	G. Samolyk	0.0013	AR Her	60152.7213	39784	-1.2197	V	G. Samolyk	0.0009
XZ Dra	60137.6188	38215	-0.0881	V	T. Arranz	0.0009	AR Her	60157.4089	39794	-1.2323	V	T. Arranz	0.0006

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Table 1. Recent times of maxima of stars in the AAVSO Short Period Pulsator program, cont.

<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> 2400000+	<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 (max)</i> <i>Hel.</i> 2400000+	<i>Cycle</i>	<i>O-C</i> (<i>day</i>)	<i>F</i>	<i>Observer</i>	<i>Error</i> (<i>day</i>)
AR Her	60165.3815	39811	-1.2502	V	T. Arranz	0.0009	EH Lib	60119.5188	301775	0.0037	V	T. Arranz	0.0008
AR Her	60181.4046	39845	-1.2081	V	T. Arranz	0.0010	SZ Lyn	59975.6174	181285	0.0462	V	G. Samolyk	0.0008
DL Her	60085.6988	36978	0.0556	V	G. Samolyk	0.0021	SZ Lyn	59975.7376	181286	0.0459	V	G. Samolyk	0.0005
DL Her	60117.6465	37032	0.0554	V	G. Samolyk	0.0024	SZ Lyn	59975.8581	181287	0.0458	V	G. Samolyk	0.0005
DL Her	60123.5665	37042	0.0591	V	T. Arranz	0.0009	SZ Lyn	59985.5004	181367	0.0453	V	T. Arranz	0.0005
DL Her	60126.5335	37047	0.0680	V	T. Arranz	0.0009	SZ Lyn	59987.5502	181384	0.0460	V	T. Arranz	0.0008
DL Her	60158.4747	37101	0.0613	V	T. Arranz	0.0016	SZ Lyn	59990.5641	181409	0.0466	I	K. Menzies	0.0005
DL Her	60161.4374	37106	0.0658	V	T. Arranz	0.0010	SZ Lyn	59990.5645	181409	0.0470	V	K. Menzies	0.0017
DL Her	60177.4075	37133	0.0620	V	T. Arranz	0.0008	SZ Lyn	60008.7643	181560	0.0460	V	G. Samolyk	0.0007
DL Her	60193.3797	37160	0.0602	V	T. Arranz	0.0013	SZ Lyn	60278.7558	183800	0.0393	V	G. Samolyk	0.0006
DY Her	60018.8954	178828	-0.0387	V	G. Samolyk	0.0007	SZ Lyn	60278.8764	183801	0.0393	V	G. Samolyk	0.0006
DY Her	60047.8786	179023	-0.0386	V	G. Samolyk	0.0006	SZ Lyn	60305.7548	184024	0.0384	V	G. Samolyk	0.0007
DY Her	60061.8501	179117	-0.0385	V	G. Samolyk	0.0007	RR Lyr	60116.8209	30332	-0.8313	V	G. Samolyk	0.0014
DY Her	60090.8330	179312	-0.0387	V	G. Samolyk	0.0006	RR Lyr	60168.3952	30423	-0.8420	V	T. Arranz	0.0012
DY Her	60112.5332	179458	-0.0386	V	T. Arranz	0.0006	RZ Lyr	60115.6869	37032	-0.0640	V	G. Samolyk	0.0011
DY Her	60144.6378	179674	-0.0384	V	G. Samolyk	0.0006	RZ Lyr	60134.5999	37069	-0.0669	V	T. Arranz	0.0009
DY Her	60158.6088	179768	-0.0388	V	K. Menzies	0.0006	RZ Lyr	60135.6217	37071	-0.0676	V	T. Arranz	0.0011
LS Her	60132.4251	139196	-0.0319	V	T. Arranz	0.0034	RZ Lyr	60136.6438	37073	-0.0680	V	T. Arranz	0.0005
LS Her	60132.6660	139197	-0.0218	V	G. Samolyk	0.0033	RZ Lyr	60170.3942	37139	-0.0596	V	T. Arranz	0.0008
LS Her	60138.4577	139222	-0.0003	V	T. Arranz	0.0013	RZ Lyr	60171.4158	37141	-0.0605	V	T. Arranz	0.0007
SZ Hya	59976.7295	35920	-0.3512	V	G. Samolyk	0.0016	RZ Lyr	60173.4608	37145	-0.0604	V	T. Arranz	0.0010
SZ Hya	59983.7578	35933	-0.3070	V	G. Samolyk	0.0012	RZ Lyr	60192.3840	37182	-0.0532	V	T. Arranz	0.0008
SZ Hya	60018.6703	35998	-0.3151	V	G. Samolyk	0.0009	RZ Lyr	60216.4127	37229	-0.0529	V	T. Arranz	0.0010
SZ Hya	60032.6521	36024	-0.3016	V	G. Samolyk	0.0018	CX Lyr	60079.7732	43799	1.9761	V	K. Menzies	0.0010
SZ Hya	60051.4372	36059	-0.3199	V	T. Arranz	0.0016	ST Oph	60127.4319	70391	-0.0310	V	T. Arranz	0.0007
UU Hya	60036.5899	39242	0.0031	V	G. Samolyk	0.0016	AV Peg	60188.6342	42006	0.2386	V	G. Samolyk	0.0008
UU Hya	60048.6544	39265	0.0187	V	G. Samolyk	0.0012	AV Peg	60212.4481	42067	0.2396	V	T. Arranz	0.0008
UU Hya	60055.4653	39278	0.0193	V	T. Arranz	0.0007	BH Peg	60196.7797	32499	-0.1318	V	G. Samolyk	0.0019
DG Hya	59975.8735	10078	0.0506	V	G. Samolyk	0.0017	BH Peg	60215.3631	32528	-0.1372	V	T. Arranz	0.0017
DH Hya	59981.7947	58907	0.1337	V	G. Samolyk	0.0016	BH Peg	60292.2841	32648	-0.1354	V	T. Arranz	0.0017
DH Hya	60033.6290	59013	0.1342	V	G. Samolyk	0.0011	DY Peg	60218.5377	215512	-0.0248	V	G. Samolyk	0.0005
DH Hya	60046.3433	59039	0.1346	V	T. Arranz	0.0008	DY Peg	60218.6105	215513	-0.0250	V	G. Samolyk	0.0005
GO Hya	59987.7498	8589	0.0015	V	G. Samolyk	0.0019	DY Peg	60218.6837	215514	-0.0247	V	G. Samolyk	0.0005
GO Hya	60040.5753	8672	0.0028	V	G. Samolyk	0.0034	DY Peg	60218.7561	215515	-0.0253	V	G. Samolyk	0.0005
RR Leo	59989.8371	36902	0.2175	V	G. Samolyk	0.0007	DY Peg	60220.5799	215540	-0.0246	V	G. Samolyk	0.0005
RR Leo	60051.3639	37038	0.2189	V	T. Arranz	0.0006	DY Peg	60220.6528	215541	-0.0246	V	G. Samolyk	0.0004
RR Leo	60060.4126	37058	0.2197	V	T. Arranz	0.0008	DY Peg	60220.7253	215542	-0.0250	V	G. Samolyk	0.0004
SS Leo	60041.7176	29154	-0.1273	V	G. Samolyk	0.0012	DY Peg	60262.2943	216112	-0.0241	V	T. Arranz	0.0005
SS Leo	60072.4065	29203	-0.1293	V	T. Arranz	0.0010	DY Peg	60262.3654	216113	-0.0259	V	T. Arranz	0.0006
ST Leo	60008.7539	67127	-0.0162	V	G. Samolyk	0.0009	DF Ser	60034.8657	69276	0.1170	V	K. Menzies	0.0009
ST Leo	60075.6705	67267	-0.0174	V	K. Menzies	0.0014	DF Ser	60118.4832	69467	0.1156	V	T. Arranz	0.0009
ST Leo	60081.4066	67279	-0.0171	V	T. Arranz	0.0008	RV UMa	59976.8153	31836	0.1461	V	G. Samolyk	0.0008
TV Leo	60041.6510	34183	0.1406	V	G. Samolyk	0.0018	RV UMa	60043.7453	31979	0.1436	V	G. Samolyk	0.0010
TV Leo	60050.3986	34196	0.1411	V	T. Arranz	0.0014	RV UMa	60077.4492	32051	0.1471	V	T. Arranz	0.0010
TV Leo	60052.4157	34199	0.1396	V	T. Arranz	0.0012	RV UMa	60078.3862	32053	0.1480	V	T. Arranz	0.0010
WW Leo	60018.6942	41696	0.0638	V	G. Samolyk	0.0018	AE UMa	60008.6685	283715	0.0017	V	G. Samolyk	0.0004
WW Leo	60043.4094	41737	0.0624	V	T. Arranz	0.0014	AE UMa	60008.7511	283716	-0.0017	V	G. Samolyk	0.0005
WW Leo	60055.4652	41757	0.0613	V	T. Arranz	0.0018	AE UMa	60008.8410	283717	0.0022	V	G. Samolyk	0.0007
AA Leo	60054.3799	34173	-0.1363	V	T. Arranz	0.0011	AE UMa	60030.5130	283969	-0.0021	V	T. Arranz	0.0005
EH Lib	60119.4307	301774	0.0041	V	T. Arranz	0.0005	GW UMa	60075.6652	39744	0.0045	V	G. Samolyk	0.0017