Recent Maxima of 82 Short Period Pulsating Stars

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Abstract This paper contains times of maxima for 82 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 2016.

1. Recent observations

Table 1 contains times of maxima 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/gsamoj451.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* (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: RZ Cap and DG Hya (Samolyk 2010), and VY LMi (Henden and Vidal-Sainz 1997).

2. Errata

The following times of maxima published in Samolyk (2016) contain a one-day error.

SW And	57347.3755	T. Arranz
SW And	57351.3525	T. Arranz

Corrected times of maxima are included in this paper.

References

Henden, A. A., and Vidal-Sainz, J. 1997, *Inf. Bull. Var. Stars*, No. 4535, 1.

Kholopov, P. N., *et al.* 1985, *General Catalogue of Variable Stars*, 4th ed., Moscow.

Samolyk, G. 2010, *J. Amer. Assoc. Var. Stars*, **38**, 12.

Samolyk, G. 2016, *J. Amer. Assoc. Var. Stars*, **44**, 66.

Vanmunster, T. 2007, PERANSO period analysis software (http://www.peranso.com).

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

Star	*JD (max) Hel. 2400000 +*	*Cycle*	*O–C*	*F*	*Observer*	*Error*	*Star*	*JD (max) Hel. 2400000 +*	*Cycle*	*O–C*	*F*	*Observer*	*Error*
SW And	57348.3755	88668	-0.4506	V	T. Arranz	0.0005	YZ Aqr	57601.8444	40290	0.0791	V	G. Samolyk	0.0015
SW And	57352.3525	88677	-0.4541	V	T. Arranz	0.0005	YZ Aqr	57601.8458	40290	0.0805	V	R. Sabo	0.0021
SW And	57601.7894	89241	-0.4628	V	G. Samolyk	0.0011	YZ Aqr	57658.6915	40393	0.0773	V	G. Samolyk	0.0009
SW And	57620.8020	89284	-0.4682	V	K. Menzies	0.0015	AA Aqr	57633.7663	60578	-0.1632	V	G. Samolyk	0.0011
SW And	57674.7611	89406	-0.4672	V	R. Sabo	0.0009	AA Aqr	57669.6907	60637	-0.1633	V	G. Samolyk	0.0011
SW And	57698.6417	89460	-0.4697	V	G. Samolyk	0.0009	BO Aqr	57679.6674	23138	0.2130	V	G. Samolyk	0.0018
XX And	57595.8210	25608	0.2750	V	G. Samolyk	0.0017	BR Aqr	57623.8476	41479	-0.2097	V	G. Samolyk	0.0008
XX And	57642.7985	25673	0.2739	V	N. Simmons	0.0019	CY Aqr	57633.7543	382142	0.0141	V	G. Samolyk	0.0004
XX And	57650.7482	25684	0.2734	V	G. Samolyk	0.0015	CY Aqr	57633.8158	382143	0.0146	V	G. Samolyk	0.0004
XX And	57660.8668	25698	0.2735	V	R. Sabo	0.0014	CY Aqr	57633.8769	382144	0.0147	V	G. Samolyk	0.0003
XX And	57697.7299	25749	0.2765	V	R. Sabo	0.0011	CY Aqr	57633.9376	382145	0.0143	V	G. Samolyk	0.0005
ZZ And	57621.8029	59137	0.0295	V	K. Menzies	0.0013	CY Aqr	57642.7272	382289	0.0145	V	G. Samolyk	0.0003
ZZ And	57706.6468	59290	0.0300	V	K. Menzies	0.0015	CY Aqr	57642.7884	382290	0.0146	V	G. Samolyk	0.0004
AC And	57606.5840	47873	-0.1829	V	T. Arranz	0.0014	CY Aqr	57642.8498	382291	0.0150	V	G. Samolyk	0.0007
AT And	57602.7960	24735	-0.0108	V	G. Samolyk	0.0011	CY Aqr	57671.5986	382762	0.0147	V	G. Samolyk	0.0006
AT And	57610.8241	24748	-0.0026	V	G. Samolyk	0.0022	CY Aqr	57671.6592	382763	0.0142	V	G. Samolyk	0.0005
AT And	57634.8807	24787	-0.0057	V	G. Samolyk	0.0025	CY Aqr	57671.7205	382764	0.0145	V	G. Samolyk	0.0005
AT And	57673.7494	24850	-0.0026	V	R. Sabo	0.0013	CY Aqr	57671.7815	382765	0.0144	V	G. Samolyk	0.0005
AT And	57699.6599	24892	-0.0026	V	G. Samolyk	0.0017	DN Aqr	57668.6328	46143	0.0420	V	G. Samolyk	0.0011
DY And	57630.8420	35747	-0.1750	V	K. Menzies	0.0011	TZ Aur	57398.6340	95733	0.0157	V	N. Simmons	0.0008
DY And	57711.6522	35881	-0.1785	V	K. Menzies	0.0012	TZ Aur	57679.8567	96451	0.0160	V	G. Samolyk	0.0008
DY And	57728.5380	35909	-0.1791	V	K. Menzies	0.0018	TZ Aur	57686.9057	96469	0.0149	V	K. Menzies	0.0008
SW Aqr	57595.8294	70756	-0.0035	V	G. Samolyk	0.0008	TZ Aur	57724.8984	96566	0.0151	V	K. Menzies	0.0006
SW Aqr	57635.7903	70843	-0.0020	V	G. Samolyk	0.0007	BH Aur	57643.8917	32652	0.0056	V	G. Samolyk	0.0011
SW Aqr	57699.6329	70982	-0.0025	V	G. Samolyk	0.0008	BH Aur	57679.9240	32731	0.0068	V	G. Samolyk	0.0012
TZ Aqr	57640.6720	35175	0.0125	V	G. Samolyk	0.0006	BH Aur	57700.9040	32777	0.0066	V	R. Sabo	0.0008
TZ Aqr	57660.6652	35210	0.0139	V	R. Sabo	0.0016	RS Boo	57433.8306	41510	0.0004	V	K. Menzies	0.0006

Table continued on following pages

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

Star	*JD (max) Hel. 2400000 +*	*Cycle*	*O–C*	*F*	*Observer*	*Error*
RS Boo	57460.6184	41581	-0.0029	V	T. Arranz	0.0006
RS Boo	57462.5033	41586	-0.0047	V	T. Arranz	0.0005
RS Boo	57463.6357	41589	-0.0043	V	T. Arranz	0.0005
RS Boo	57465.5239	41594	-0.0028	V	T. Arranz	0.0005
RS Boo	57472.6894	41613	-0.0067	V	T. Arranz	0.0007
RS Boo	57484.7659	41645	-0.0051	V	K. Menzies	0.0006
RS Boo	57485.5211	41647	-0.0046	V	T. Arranz	0.0006
RS Boo	57495.7098	41674	-0.0040	V	G. Samolyk	0.0008
RS Boo	57496.8465	41677	0.0007	V	K. Menzies	0.0008
RS Boo	57528.5409	41761	-0.0014	V	T. Arranz	0.0006
RS Boo	57547.4041	41811	-0.0052	V	T. Arranz	0.0005
RS Boo	57553.4427	41827	-0.0040	V	T. Arranz	0.0006
RS Boo	57559.4834	41843	-0.0007	V	T. Arranz	0.0005
RS Boo	57567.4055	41864	-0.0027	V	T. Arranz	0.0005
RS Boo	57587.3959	41917	-0.0113	V	T. Arranz	0.0006
RS Boo	57590.4191	41925	-0.0068	V	T. Arranz	0.0007
RS Boo	57593.4350	41933	-0.0096	V	T. Arranz	0.0006
ST Boo	57502.8565	61581	0.0877	V	K. Menzies	0.0009
ST Boo	57511.5651	61595	0.0842	V	T. Arranz	0.0007
ST Boo	57518.4095	61606	0.0834	V	T. Arranz	0.0007
ST Boo	57602.4189	61741	0.0836	V	T. Arranz	0.0009
ST Boo	57607.3988	61749	0.0852	V	T. Arranz	0.0012
SW Boo	57494.8611	29061	0.4610	V	G. Samolyk	0.0009
SW Boo	57566.7600	29201	0.4660	V	R. Sabo	0.0012
SW Boo	57572.4073	29212	0.4644	V	T. Arranz	0.0011
SW Boo	57573.4348	29214	0.4649	V	T. Arranz	0.0009
SW Boo	57591.4126	29249	0.4692	V	T. Arranz	0.0007
SW Boo	57592.4389	29251	0.4684	V	T. Arranz	0.0009
SW Boo	57610.4125	29286	0.4686	V	T. Arranz	0.0007
SZ Boo	57494.8201	57103	0.0101	V	G. Samolyk	0.0009
SZ Boo	57588.4056	57282	0.0108	V	T. Arranz	0.0006
TV Boo	57409.8945	104941	0.0877	V	K. Menzies	0.0009
TV Boo	57450.8726	105072	0.1205	V	K. Menzies	0.0017
TV Boo	57464.6057	105116	0.1010	V	T. Arranz	0.0011
TV Boo	57481.5074	105170	0.1245	V	T. Arranz	0.0015
TV Boo	57510.5747	105263	0.1238	V	T. Arranz	0.0015
TV Boo	57552.4287	105397	0.0948	V	T. Arranz	0.0009
TV Boo	57559.6425	105420	0.1198	V	K. Menzies	0.0015
TV Boo	57603.3766	105560	0.0956	V	T. Arranz	0.0019
TW Boo	57447.9166	57408	-0.0884	V	K. Menzies	0.0007
TW Boo	57476.6593	57462	-0.0884	V	N. Simmons	0.0009
UU Boo	57486.8679	46840	0.3017	V	R. Sabo	0.0009
UU Boo	57539.4140	46955	0.3019	V	T. Arranz	0.0006
UU Boo	57560.4334	47001	0.3030	V	T. Arranz	0.0007
UY Boo	57489.8507	24051	0.8880	V	R. Sabo	0.0015
UY Boo	57495.7147	24060	0.8945	V	N. Simmons	0.0011
UY Boo	57527.6123	24109	0.9011	V	G. Samolyk	0.0011
UY Cam	57398.5283	81760	-0.0924	V	G. Samolyk	0.0019
UY Cam	57398.7928	81761	-0.0950	V	G. Samolyk	0.0016
UY Cam	57684.7939	82832	-0.0962	V	G. Samolyk	0.0028
RW Cnc	57436.8045	32676	0.2160	V	G. Samolyk	0.0009
RW Cnc	57733.9379	33219	0.2203	V	K. Menzies	0.0009
TT Cnc	57390.0167	30962	0.1294	V	R. Sabo	0.0015
TT Cnc	57428.8665	31031	0.1012	V	R. Sabo	0.0018
VZ Cnc	57436.6569	98334	0.0158	V	G. Samolyk	0.0008
VZ Cnc	57436.8428	98335	0.0234	V	G. Samolyk	0.0007
VZ Cnc	57446.6422	98390	0.0128	V	G. Samolyk	0.0011
KV Cnc	57450.5988	9341	-0.0764	V	T. Arranz	0.0004
KV Cnc	57453.6144	9347	-0.0728	V	T. Arranz	0.0004
KV Cnc	57457.6356	9355	-0.0676	V	T. Arranz	0.0005
KV Cnc	57474.7541	9389	-0.0171	V	R. Sabo	0.0027
KV Cnc	57487.7680	9415	-0.0552	V	R. Sabo	0.0018
KV Cnc	57507.3788	9454	-0.0224	V	T. Arranz	0.0016
KV Cnc	57509.3829	9458	-0.0263	V	T. Arranz	0.0012
KV Cnc	57510.3853	9460	-0.0279	V	T. Arranz	0.0013
KV Cnc	57511.3878	9462	-0.0294	V	T. Arranz	0.0011
KV Cnc	57512.3903	9464	-0.0309	V	T. Arranz	0.0009
KV Cnc	57513.3931	9466	-0.0321	V	T. Arranz	0.0011
KV Cnc	57525.4129	9490	-0.0603	V	T. Arranz	0.0008
KV Cnc	57526.4130	9492	-0.0642	V	T. Arranz	0.0006
KV Cnc	57527.4136	9494	-0.0676	V	T. Arranz	0.0005
KV Cnc	57528.4161	9496	-0.0691	V	T. Arranz	0.0004
KV Cnc	57529.4201	9498	-0.0691	V	T. Arranz	0.0005
KV Cnc	57531.4276	9502	-0.0696	V	T. Arranz	0.0005
SS CVn	57409.8932	37172	-0.3944	V	K. Menzies	0.0011
SS CVn	57477.8739	37314	-0.3637	V	K. Menzies	0.0008
RV Cap	57607.7855	52987	-0.0884	V	G. Samolyk	0.0021
RZ Cap	57598.8368	15496	0.0015	V	R. Sabo	0.0011
VW Cap	57604.8207	102447	0.2265	V	G. Samolyk	0.0035
YZ Cap	57602.7733	50732	0.0473	V	G. Samolyk	0.0012
AN Cap	57579.8145	6627	-0.0065	V	G. Samolyk	0.0012
AN Cap	57659.6913	6739	0.0020	V	G. Samolyk	0.0015
RR Cet	57631.8981	44212	0.0140	V	R. Sabo	0.0022
RU Cet	57658.8273	30416	0.1238	V	G. Samolyk	0.0011
RU Cet	57668.7950	30433	0.1248	V	G. Samolyk	0.0010
RV Cet	57390.5542	29318	0.2620	V	G. Samolyk	0.0021
RV Cet	57649.8885	29734	0.2607	V	G. Samolyk	0.0017
RV Cet	57659.8480	29750	0.2458	V	R. Sabo	0.0012
RV Cet	57669.8201	29766	0.2434	V	G. Samolyk	0.0012
RX Cet	57659.8705	30563	0.3290	V	G. Samolyk	0.0011
RZ Cet	57406.5196	46023	-0.2105	V	G. Samolyk	0.0014
RZ Cet	57663.8664	46527	-0.2115	V	G. Samolyk	0.0017
TY Cet	52314.5591	2742	-0.0115	V	G. Samolyk	0.0048
TY Cet	52581.6121	3567	0.0056	V	G. Samolyk	0.0039
TY Cet	52602.6511	3632	0.0054	V	G. Samolyk	0.0032
TY Cet	53672.7431	6938	0.0112	V	G. Samolyk	0.0027
XX Cyg	57531.6511	96958	0.0050	V	G. Samolyk	0.0008
XX Cyg	57531.7855	96959	0.0045	V	G. Samolyk	0.0008
XX Cyg	57557.6792	97151	0.0041	V	G. Samolyk	0.0005
XX Cyg	57557.8143	97152	0.0043	V	G. Samolyk	0.0009
XX Cyg	57564.6924	97203	0.0043	V	G. Samolyk	0.0007
XX Cyg	57564.8265	97204	0.0036	V	G. Samolyk	0.0008
XX Cyg	57579.6616	97314	0.0035	V	G. Samolyk	0.0007
XX Cyg	57595.7105	97433	0.0034	V	G. Samolyk	0.0009
XX Cyg	57595.8458	97434	0.0039	V	G. Samolyk	0.0006
XZ Cyg	57501.7529	28669	-2.5094	V	G. Samolyk	0.0008
XZ Cyg	57528.8000	28727	-2.5309	V	G. Samolyk	0.0009
XZ Cyg	57528.8022	28727	-2.5287	V	H. Smith	0.0009
XZ Cyg	57542.8101	28757	-2.5218	V	G. Samolyk	0.0009
XZ Cyg	57549.8093	28772	-2.5231	V	R. Sabo	0.0016
XZ Cyg	57556.8129	28787	-2.5200	V	G. Samolyk	0.0008
XZ Cyg	57559.6117	28793	-2.5214	V	T. Arranz	0.0004
XZ Cyg	57561.4804	28797	-2.5195	V	T. Arranz	0.0007
XZ Cyg	57564.7420	28804	-2.5248	V	G. Samolyk	0.0009
XZ Cyg	57566.6056	28808	-2.5280	V	T. Arranz	0.0005
XZ Cyg	57567.5399	28810	-2.5271	V	T. Arranz	0.0006
XZ Cyg	57568.4710	28812	-2.5294	V	T. Arranz	0.0005
XZ Cyg	57579.6641	28836	-2.5371	V	G. Samolyk	0.0011
XZ Cyg	57581.5248	28840	-2.5432	V	T. Arranz	0.0005
XZ Cyg	57583.3925	28844	-2.5423	V	T. Arranz	0.0006
XZ Cyg	57595.5302	28870	-2.5388	V	T. Arranz	0.0006
XZ Cyg	57602.5389	28885	-2.5306	V	T. Arranz	0.0006
XZ Cyg	57603.4724	28887	-2.5305	V	T. Arranz	0.0006
XZ Cyg	57609.5359	28900	-2.5341	V	T. Arranz	0.0005
XZ Cyg	57610.4683	28902	-2.5351	V	T. Arranz	0.0006
XZ Cyg	57611.4004	28904	-2.5364	V	T. Arranz	0.0006
XZ Cyg	57614.6672	28911	-2.5365	V	G. Samolyk	0.0011
XZ Cyg	57616.5275	28915	-2.5430	V	T. Arranz	0.0006
XZ Cyg	57676.7229	29044	-2.5519	V	H. Smith	0.0007
DM Cyg	57559.7339	35672	0.0820	V	K. Menzies	0.0009
DM Cyg	57566.8734	35689	0.0839	V	R. Sabo	0.0009
DM Cyg	57586.6070	35736	0.0840	V	T. Arranz	0.0006

Table continued on next page

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

Star	JD (max) Hel. 2400000 +	Cycle	O–C	F	Observer	Error	Star	JD (max) Hel. 2400000 +	Cycle	O–C	F	Observer	Error
DM Cyg	57590.8040	35746	0.0824	V	R. Sabo	0.0009	AR Her	57605.3755	34364	-1.0137	V	T. Arranz	0.0007
DM Cyg	57592.4844	35750	0.0834	V	T. Arranz	0.0007	AR Her	57611.5013	34377	-0.9983	V	T. Arranz	0.0014
DM Cyg	57594.5857	35755	0.0854	V	T. Arranz	0.0007	AR Her	57613.3987	34381	-0.9810	V	T. Arranz	0.0008
DM Cyg	57597.5266	35762	0.0873	V	T. Arranz	0.0007	DL Her	57541.6928	32678	0.0494	V	G. Samolyk	0.0012
DM Cyg	57600.4624	35769	0.0841	V	T. Arranz	0.0006	DL Her	57557.6641	32705	0.0467	V	G. Samolyk	0.0012
DM Cyg	57601.7212	35772	0.0833	V	R. Sabo	0.001	DY Her	57437.9194	161463	-0.0312	V	K. Menzies	0.0005
DM Cyg	57605.5027	35781	0.0860	V	T. Arranz	0.0007	DY Her	57484.8862	161779	-0.0320	V	K. Menzies	0.0005
DM Cyg	57607.6009	35786	0.0849	V	T. Arranz	0.0006	DY Her	57495.8847	161853	-0.0322	V	R. Sabo	0.0008
DM Cyg	57611.7979	35796	0.0833	V	R. Sabo	0.0009	DY Her	57541.6643	162161	-0.0310	V	G. Samolyk	0.0006
DM Cyg	57613.4780	35800	0.0840	V	T. Arranz	0.0007	DY Her	57541.8123	162162	-0.0317	V	G. Samolyk	0.0006
DM Cyg	57622.7142	35822	0.0833	V	R. Sabo	0.0011	DY Her	57543.7446	162175	-0.0316	V	R. Sabo	0.0007
DM Cyg	57624.8146	35827	0.0844	V	K. Menzies	0.001	LS Her	57484.8612	127725	-0.0006	V	K. Menzies	0.0012
DM Cyg	57627.7551	35834	0.0859	V	R. Sabo	0.0013	LS Her	57542.7835	127976	-0.0110	V	N. Simmons	0.0025
DM Cyg	57659.6655	35910	0.0869	V	R. Sabo	0.0008	SZ Hya	57423.8188	31168	-0.2964	V	G. Samolyk	0.0012
RW Dra	57524.8155	40972	0.2292	V	G. Samolyk	0.0009	SZ Hya	57429.7640	31179	-0.2608	V	G. Samolyk	0.0013
RW Dra	57541.6648	41010	0.2476	V	G. Samolyk	0.0011	UU Hya	57421.9633	34251	0.0037	V	G. Samolyk	0.0011
RW Dra	57594.3896	41129	0.2653	V	T. Arranz	0.0006	DG Hya	57406.8903	6672	0.0180	V	G. Samolyk	0.0016
RW Dra	57601.4631	41145	0.2521	V	T. Arranz	0.0008	DH Hya	57422.8337	53674	0.1003	V	G. Samolyk	0.0009
RW Dra	57609.4070	41163	0.2235	V	T. Arranz	0.0009	DH Hya	57473.6917	53778	0.1025	V	N. Simmons	0.0011
RW Dra	57629.3723	41208	0.2576	V	T. Arranz	0.0008	RR Leo	57451.8456	31292	0.1525	V	G. Samolyk	0.0008
XZ Dra	57526.8457	32736	-0.1341	V	G. Samolyk	0.0009	SS Leo	57473.7307	25054	-0.1034	V	G. Samolyk	0.0009
XZ Dra	57569.7358	32826	-0.1287	V	G. Samolyk	0.0008	ST Leo	57490.7291	61859	-0.0197	V	R. Sabo	0.0008
XZ Dra	57622.6210	32937	-0.1347	V	G. Samolyk	0.0008	TV Leo	57451.8300	30334	0.1292	V	G. Samolyk	0.0012
SV Eri	57680.8343	31000	1.0369	V	G. Samolyk	0.0018	TV Leo	57455.8658	30340	0.1279	V	R. Sabo	0.0015
SV Eri	57743.6412	31088	1.0297	V	G. Samolyk	0.0021	WW Leo	57445.7345	37428	0.0477	V	G. Samolyk	0.0012
BB Eri	57423.6097	31346	0.2960	V	G. Samolyk	0.0011	AA Leo	57498.7483	29904	-0.1068	V	R. Sabo	0.0015
BB Eri	57750.7407	31920	0.3055	V	G. Samolyk	0.0012	VY LMi	57502.6292	13333	0.0176	V	K. Menzies	0.0015
RX For	57424.6287	29454	-0.0449	V	G. Samolyk	0.0009	U Lep	57698.8493	28112	0.0444	V	G. Samolyk	0.0011
RX For	57668.9246	29863	-0.0504	V	G. Samolyk	0.0016	SZ Lyn	57411.7092	160014	0.0363	V	G. Samolyk	0.0008
RR Gem	57423.4842	40439	-0.5642	V	T. Arranz	0.0007	SZ Lyn	57411.8287	160015	0.0352	V	G. Samolyk	0.0008
RR Gem	57686.8844	41102	-0.5809	V	K. Menzies	0.0009	SZ Lyn	57433.5245	160195	0.0348	V	K. Menzies	0.0008
RR Gem	57719.8522	41185	-0.5899	V	G. Samolyk	0.0006	SZ Lyn	57436.5389	160220	0.0358	V	G. Samolyk	0.0006
TW Her	57482.8540	89934	-0.0158	V	R. Sabo	0.0010	SZ Lyn	57436.6602	160221	0.0365	V	G. Samolyk	0.0005
TW Her	57494.8410	89964	-0.0168	V	N. Simmons	0.0007	SZ Lyn	57436.7804	160222	0.0362	V	G. Samolyk	0.0006
TW Her	57496.8383	89969	-0.0175	V	K. Menzies	0.0006	SZ Lyn	57436.9019	160223	0.0372	V	G. Samolyk	0.0008
TW Her	57528.8080	90049	-0.0158	V	G. Samolyk	0.0007	SZ Lyn	57442.6868	160271	0.0364	V	R. Sabo	0.0013
TW Her	57577.5576	90171	-0.0174	V	T. Arranz	0.0004	SZ Lyn	57494.6387	160702	0.0377	V	G. Samolyk	0.0007
TW Her	57583.5520	90186	-0.0170	V	T. Arranz	0.0005	SZ Lyn	57524.6530	160951	0.0389	V	G. Samolyk	0.0007
TW Her	57585.5504	90191	-0.0166	V	T. Arranz	0.0007	SZ Lyn	57676.8892	162214	0.0394	V	G. Samolyk	0.0008
TW Her	57587.5479	90196	-0.0171	V	T. Arranz	0.0006	SZ Lyn	57686.7710	162296	0.0374	V	G. Samolyk	0.0008
TW Her	57591.5440	90206	-0.0170	V	T. Arranz	0.0006	SZ Lyn	57686.8914	162297	0.0372	V	G. Samolyk	0.0007
TW Her	57593.5416	90211	-0.0174	V	T. Arranz	0.0005	SZ Lyn	57696.8959	162380	0.0374	V	G. Samolyk	0.0006
TW Her	57599.5360	90226	-0.0170	V	T. Arranz	0.0006	SZ Lyn	57701.7170	162420	0.0371	V	G. Samolyk	0.0007
TW Her	57615.5193	90266	-0.0177	V	T. Arranz	0.0006	SZ Lyn	57701.8375	162421	0.0370	V	G. Samolyk	0.0005
VX Her	57499.9284	78506	-0.0529	V	R. Sabo	0.0013	SZ Lyn	57701.9581	162422	0.0371	V	G. Samolyk	0.0006
VX Her	57586.4455	78696	-0.0566	V	T. Arranz	0.0008	SZ Lyn	57736.6715	162710	0.0364	V	G. Samolyk	0.0006
VX Her	57606.4829	78740	-0.0556	V	T. Arranz	0.0008	SZ Lyn	57736.7916	162711	0.0360	V	G. Samolyk	0.0007
VZ Her	57495.8373	47026	0.0799	V	K. Menzies	0.0007	RR Lyr	57494.9216	25706	-0.4003	V	G. Samolyk	0.0009
VZ Her	57603.7198	47271	0.0821	V	R. Sabo	0.0009	RR Lyr	57556.7029	25815	-0.4076	V	G. Samolyk	0.0012
VZ Her	57630.5793	47332	0.0816	V	K. Menzies	0.0006	RZ Lyr	57506.8174	31929	-0.0640	V	K. Menzies	0.0009
AR Her	57487.9249	34114	-0.9573	V	R. Sabo	0.0014	RZ Lyr	57552.8500	32019	-0.0432	V	R. Sabo	0.0021
AR Her	57511.8481	34165	-1.0055	V	G. Samolyk	0.0012	RZ Lyr	57569.7117	32052	-0.0525	V	G. Samolyk	0.0017
AR Her	57520.8182	34184	-0.9660	V	R. Sabo	0.0016	CX Lyr	57706.4744	39951	1.5270	V	K. Menzies	0.0016
AR Her	57527.8685	34199	-0.9661	V	G. Samolyk	0.0011	KM Lyr	57477.8725	42297	-0.1998	V	K. Menzies	0.0012
AR Her	57538.6339	34222	-1.0113	V	G. Samolyk	0.0011	V340 Lyr	57624.6998	47426	-0.0355	V	K. Menzies	0.0021
AR Her	57547.5932	34241	-0.9825	V	T. Arranz	0.0012	ST Oph	57524.8286	64612	-0.0259	V	G. Samolyk	0.0009
AR Her	57548.5490	34243	-0.9668	V	T. Arranz	0.0012	AV Peg	57594.9204	35362	0.1743	V	R. Sabo	0.0009
AR Her	57550.8942	34248	-0.9717	V	R. Sabo	0.0019	AV Peg	57614.8316	35413	0.1763	V	G. Samolyk	0.0009
AR Her	57558.4233	34264	-0.9631	V	T. Arranz	0.0008	BH Peg	57614.7991	28471	-0.1926	V	G. Samolyk	0.0008
AR Her	57560.7616	34269	-0.9749	V	G. Samolyk	0.0009	BH Peg	57675.7430	28566	-0.1430	V	G. Samolyk	0.0015
AR Her	57563.5769	34275	-0.9798	V	T. Arranz	0.0006	DY Peg	57646.5819	180244	-0.0160	V	G. Samolyk	0.0005
AR Her	57564.5101	34277	-0.9867	V	T. Arranz	0.0006	DY Peg	57646.6546	180245	-0.0163	V	G. Samolyk	0.0005
AR Her	57565.4507	34279	-0.9861	V	T. Arranz	0.0008	DY Peg	57646.7265	180246	-0.0173	V	G. Samolyk	0.0006
AR Her	57568.7283	34286	-0.9987	V	G. Samolyk	0.0015	DY Peg	57646.8009	180247	-0.0158	V	G. Samolyk	0.0008
AR Her	57581.4531	34313	-0.9647	V	T. Arranz	0.0011	DY Peg	57646.8722	180248	-0.0174	V	G. Samolyk	0.0006
AR Her	57582.4063	34315	-0.9515	V	T. Arranz	0.0019	DY Peg	57671.5217	180586	-0.0170	V	G. Samolyk	0.0004

Table continued on next page

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

Star	*JD (max) Hel. 2400000 +*	*Cycle*	*O–C*	*F*	*Observer*	*Error*	*Star*	*JD (max) Hel. 2400000 +*	*Cycle*	*O–C*	*F*	*Observer*	*Error*
DY Peg	57671.5951	180587	-0.0166	V	G. Samolyk	0.0005	AE UMa	57405.5347	253452	0.0021	V	G. Samolyk	0.0009
DY Peg	57671.6685	180588	-0.0160	V	G. Samolyk	0.0004	AE UMa	57405.6240	253453	0.0054	V	G. Samolyk	0.0012
DY Peg	57671.7391	180589	-0.0184	V	G. Samolyk	0.0007	AE UMa	57405.7061	253454	0.0014	V	G. Samolyk	0.0007
DF Ser	57447.9172	63367	0.0998	V	K. Menzies	0.0013	AE UMa	57405.7963	253455	0.0056	V	G. Samolyk	0.0013
DF Ser	57501.7681	63490	0.1019	V	G. Samolyk	0.0009	AE UMa	57406.5606	253464	-0.0042	V	G. Samolyk	0.0006
DF Ser	57604.6483	63725	0.1003	V	G. Samolyk	0.0012	AE UMa	57406.6491	253465	-0.0017	V	G. Samolyk	0.0007
RV UMa	57411.8305	26356	0.1301	V	G. Samolyk	0.0012	AE UMa	57406.7402	253466	0.0033	V	G. Samolyk	0.0009
RV UMa	57563.4802	26680	0.1284	V	T. Arranz	0.0006	AE UMa	57406.8232	253467	0.0003	V	G. Samolyk	0.0006
RV UMa	57564.4170	26682	0.1291	V	T. Arranz	0.0005	AE UMa	57406.9077	253468	-0.0012	V	G. Samolyk	0.0009
RV UMa	57571.4362	26697	0.1274	V	T. Arranz	0.0005	AE UMa	57712.7860	257024	0.0005	V	G. Samolyk	0.0006
RV UMa	57586.4105	26729	0.1238	V	T. Arranz	0.0007	AE UMa	57712.8698	257025	-0.0018	V	G. Samolyk	0.0008
AE UMa	57158.4059	250579	0.0003	V	T. Arranz	0.0003	AE UMa	57712.9608	257026	0.0032	V	G. Samolyk	0.0009
AE UMa	57390.7357	253280	-0.0020	V	G. Samolyk	0.0001	AE UMa	57736.6984	257302	0.0001	V	G. Samolyk	0.0009
AE UMa	57392.6348	253302	0.0047	V	G. Samolyk	0.0008	AE UMa	57736.7884	257303	0.0041	V	G. Samolyk	0.0009
AE UMa	57392.7175	253303	0.0014	V	G. Samolyk	0.0005	AE UMa	57737.7311	257314	0.0006	V	G. Samolyk	0.0006
AE UMa	57392.7996	253304	-0.0025	V	G. Samolyk	0.0006	AE UMa	57737.8141	257315	-0.0024	V	G. Samolyk	0.0006
AE UMa	57392.8903	253305	0.0022	V	G. Samolyk	0.0007	AE UMa	57750.7168	257465	-0.0023	V	G. Samolyk	0.0005
AE UMa	57392.9780	253306	0.0039	V	G. Samolyk	0.0004							