

# Recent Maxima of 86 Short Period Pulsating Stars

**Gerard Samolyk**

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

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**Abstract** This paper contains times of maxima for 86 short period pulsating stars (primarily RR Lyrae and  $\delta$  Scuti stars). This represents the CCD observations received by the AAVSO Short Period Pulsator (SPP) Section in 2017.

## 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. The data in this table will be web-archived and made available through the AAVSO ftp site at <ftp://ftp.aavso.org/public/datasets/gsam0-461-spp86.txt>. The error estimate is included. RR Lyr stars in this table, 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  $\delta$  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: VY CrB (Antipin 1996); RZ Cap and DG Hya (Samolyk 2010); AM CMi, V1124 Her, and FR Psc (GEOS Database); VY LMi (Henden and Vidal-Sainz 1997); and GW UMa (Hintz *et al.* 2005).

For two  $\delta$  Sct stars in the table, no published light elements were found. The following light elements were calculated using a linear regression on the times of maxima listed in this paper.

$$\text{V521 And} \quad \text{Time of maximum (JD)} = 2454380.625 + 0.100960755 E \quad (1)$$

$$\pm 0.002 \quad 0.000000056$$

$$\text{V2416 Cyg} \quad \text{Time of maximum (JD)} = 2453612.601 + 0.055889672 E \quad (2)$$

$$\pm 0.001 \quad 0.000000017$$

## References

- Antipin S. V. 1996, *Inf. Bull. Var. Stars*, No. 4343, 1.  
 Henden, A. A., and Vidal-Sainz, J. 1997, *Inf. Bull. Var. Stars*, No. 4535, 1.  
 Hintz, E. G., Bush, T. C., and Rose, M. B. 2005, *Astron. J.*, **130**, 2876.  
 Kholopov, P. N., *et al.* 1985, *General Catalogue of Variable Stars*, 4th ed., Moscow.  
 Samolyk, G. 2010, *J. Amer. Assoc. Var. Stars*, **38**, 12.  
 Vanmunster, T. 2007, PERANSO period analysis software (<http://www.peranso.com>).

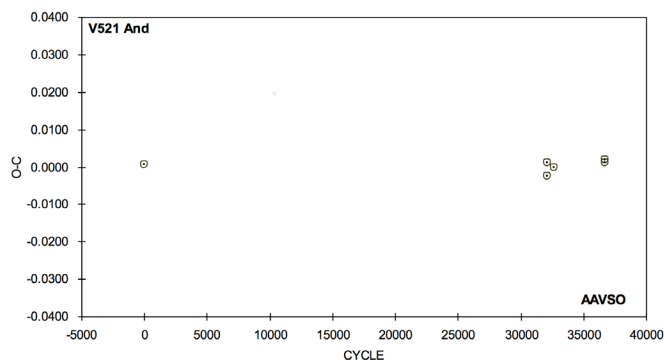


Figure 1. O-C diagram for V521 And plotted using Equation 1.

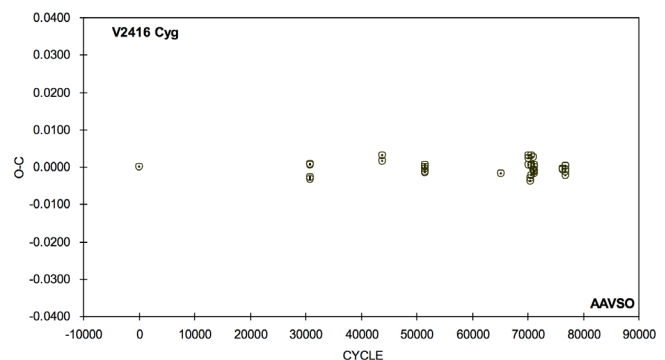


Figure 2. O-C diagram for V2416 Cyg plotted using Equation 2.

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> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>
SW And	57947.6347	90023	-0.4801	V	T. Arranz	0.0006	BO Aqr	58026.6792	23638	0.2155	V	G. Samolyk	0.0015
SW And	57951.6146	90032	-0.4807	V	T. Arranz	0.0006	BR Aqr	58052.7095	42369	-0.2197	V	G. Samolyk	0.0009
SW And	57970.6318	90075	-0.4815	V	T. Arranz	0.0005	BR Aqr	58083.5497	42433	-0.2197	V	G. Samolyk	0.0009
SW And	57985.6688	90109	-0.4820	V	T. Arranz	0.0007	CY Aqr	58005.7839	388237	0.0151	V	G. Samolyk	0.0004
SW And	57986.5548	90111	-0.4806	V	T. Arranz	0.0007	CY Aqr	58005.8449	388238	0.0152	V	G. Samolyk	0.0004
SW And	57989.6497	90118	-0.4816	V	T. Arranz	0.0007	CY Aqr	58005.9056	388239	0.0148	V	G. Samolyk	0.0002
SW And	58009.5511	90163	-0.4828	V	T. Arranz	0.0006	CY Aqr	58019.3342	388459	0.0149	V	T. Arranz	0.0002
SW And	58016.6275	90179	-0.4829	V	T. Arranz	0.0006	CY Aqr	58019.3952	388460	0.0149	V	T. Arranz	0.0003
SW And	58017.5120	90181	-0.4829	V	T. Arranz	0.0006	CY Aqr	58025.3771	388558	0.0151	V	T. Arranz	0.0003
SW And	58024.5883	90197	-0.4831	V	T. Arranz	0.0007	TZ Aur	57768.7653	96678	0.0145	V	G. Samolyk	0.0008
SW And	58025.4718	90199	-0.4842	V	T. Arranz	0.0006	TZ Aur	58029.6224	97344	0.0163	V	T. Arranz	0.0006
SW And	58032.5488	90215	-0.4836	V	T. Arranz	0.0007	TZ Aur	58038.6299	97367	0.0153	V	T. Arranz	0.0006
SW And	58035.6446	90222	-0.4838	V	T. Arranz	0.0006	TZ Aur	58040.5892	97372	0.0162	V	T. Arranz	0.0007
SW And	58036.5290	90224	-0.4839	V	T. Arranz	0.0007	TZ Aur	58068.7891	97444	0.0155	V	K. Menzies	0.0006
SW And	58039.6254	90231	-0.4835	V	T. Arranz	0.0008	TZ Aur	58102.8660	97531	0.0167	V	R. Sabo	0.0007
SW And	58048.4704	90251	-0.4841	V	T. Arranz	0.0006	BH Aur	57761.5641	32910	0.0068	V	G. Samolyk	0.0009
SW And	58051.5664	90258	-0.4840	V	T. Arranz	0.0007	BH Aur	58030.6591	33500	0.0088	V	T. Arranz	0.0009
SW And	58060.8533	90279	-0.4850	V	T. Polakis	0.0011	BH Aur	58042.5165	33526	0.0079	V	T. Arranz	0.0009
SW And	58079.4284	90321	-0.4856	V	T. Arranz	0.0006	BH Aur	58042.9719	33527	0.0072	V	T. Polakis	0.0014
XX And	57952.8620	26102	0.2789	V	G. Samolyk	0.0016	BH Aur	58044.7964	33531	0.0073	V	G. Samolyk	0.0011
XX And	57973.8209	26131	0.2781	V	G. Samolyk	0.0013	BH Aur	58052.5492	33548	0.0066	V	T. Arranz	0.0009
XX And	58007.7901	26178	0.2782	V	K. Menzies	0.0011	BH Aur	58073.5312	33594	0.0085	V	T. Arranz	0.0008
XX And	58013.5727	26186	0.2788	V	T. Arranz	0.0010	BH Aur	58077.6342	33603	0.0067	V	T. Arranz	0.0007
XX And	58031.6423	26211	0.2797	V	T. Arranz	0.0010	RS Boo	57807.7658	42501	-0.0073	V	G. Samolyk	0.0008
XX And	58052.6011	26240	0.2789	V	T. Arranz	0.0011	RS Boo	57861.7289	42644	-0.0037	V	G. Samolyk	0.0013
XX And	58071.3898	26266	0.2761	V	T. Arranz	0.0008	RS Boo	57875.6893	42681	-0.0049	V	T. Polakis	0.0008
XX And	58096.6942	26301	0.2844	V	R. Sabo	0.0027	RS Boo	57877.5759	42686	-0.0049	V	K. Menzies	0.0007
XX And	58115.4844	26327	0.2832	V	K. Menzies	0.0014	RS Boo	57884.7415	42705	-0.0088	V	T. Polakis	0.0008
AC And	57990.5773	13343	0.3490	V	T. Arranz	0.0013	RS Boo	57885.8735	42708	-0.0088	V	T. Polakis	0.0009
AC And	57998.4593	13354	0.4073	V	T. Arranz	0.0011	RS Boo	57887.7598	42713	-0.0092	V	T. Polakis	0.0007
AC And	58000.5791	13357	0.3934	V	G. Samolyk	0.0019	RS Boo	57912.6682	42779	-0.0052	V	G. Samolyk	0.0009
AC And	58000.5822	13357	0.3965	V	T. Arranz	0.0018	RS Boo	57936.8172	42843	-0.0059	V	T. Polakis	0.0009
AC And	58003.5963	13361	0.5657	V	T. Arranz	0.0021	ST Boo	57797.8214	62055	0.0868	V	G. Samolyk	0.0015
AC And	58005.6968	13364	0.5324	V	G. Samolyk	0.0021	ST Boo	57883.6999	62193	0.0892	V	R. Sabo	0.0019
AC And	58008.3813	13368	0.3720	V	T. Arranz	0.0012	ST Boo	57891.7921	62206	0.0916	V	T. Polakis	0.0011
AC And	58010.5031	13371	0.3601	V	T. Arranz	0.0012	SW Boo	57798.8881	29653	0.4794	V	G. Samolyk	0.0011
AC And	58012.6183	13374	0.3415	V	T. Arranz	0.0011	SW Boo	57875.9209	29803	0.4829	V	T. Polakis	0.0017
AC And	58022.5859	13388	0.3518	V	T. Arranz	0.0011	SZ Boo	57803.8056	57694	0.0091	V	G. Samolyk	0.0002
AC And	58026.8261	13394	0.3245	V	G. Samolyk	0.0015	SZ Boo	57828.9028	57742	0.0109	V	G. Samolyk	0.0013
AT And	57974.7996	25338	-0.0068	V	G. Samolyk	0.0019	SZ Boo	57873.8661	57828	0.0117	V	T. Polakis	0.0011
AT And	57989.6040	25362	-0.0084	V	T. Arranz	0.0012	TV Boo	57796.8628	106179	0.1075	V	R. Sabo	0.0024
AT And	58031.5571	25430	-0.0055	V	T. Arranz	0.0014	TV Boo	57877.8023	106438	0.0941	V	T. Polakis	0.0014
AT And	58034.6461	25435	-0.0011	V	T. Arranz	0.0016	TV Boo	57879.7084	106444	0.1249	V	R. Sabo	0.0026
AT And	58039.5785	25443	-0.0040	V	T. Arranz	0.0016	TW Boo	57857.7624	58178	-0.0929	V	G. Samolyk	0.0011
AT And	58070.4189	25493	-0.0093	V	T. Arranz	0.0013	TW Boo	57889.6978	58238	-0.0939	V	T. Polakis	0.0009
DY And	57917.9144	36223	-0.1720	V	T. Polakis	0.0017	UU Boo	57788.9034	47501	0.3127	V	G. Samolyk	0.0013
GM And	57981.8191	45759	0.0469	V	R. Sabo	0.0011	UU Boo	57874.8073	47689	0.3156	V	T. Polakis	0.0008
GM And	58037.6543	45838	0.0482	V	R. Sabo	0.0029	UU Boo	57881.6621	47704	0.3166	V	N. Simmons	0.0011
GM And	58047.5467	45852	0.0460	V	K. Menzies	0.0016	UY Boo	57815.9180	24552	0.8863	V	G. Samolyk	0.0009
V521 And	54380.6257	0	0.0007	V	G. Samolyk	0.0019	UY Boo	57907.6819	24693	0.8822	V	N. Simmons	0.0010
V521 And	57623.7886	32123	0.0013	V	G. Samolyk	0.0022	YZ Boo	57905.7162	151398	0.1076	V	N. Simmons	0.0007
V521 And	57623.8858	32124	-0.0025	V	G. Samolyk	0.0025	YZ Boo	57905.8203	151399	0.1076	V	N. Simmons	0.0009
V521 And	57676.5896	32646	-0.0002	V	G. Samolyk	0.0034	UY Cam	57811.6478	83307	-0.0874	V	G. Samolyk	0.0039
V521 And	58083.5637	36677	0.0011	V	N. Simmons	0.0034	UY Cam	58008.9899	84046	-0.0896	V	T. Polakis	0.0028
V521 And	58083.6655	36678	0.0019	V	N. Simmons	0.0028	UY Cam	58012.9972	84061	-0.0879	V	T. Polakis	0.0024
SW Aqr	57904.9420	71429	-0.0019	V	T. Polakis	0.0010	UY Cam	58042.9035	84173	-0.0904	V	T. Polakis	0.0011
SW Aqr	57951.7912	71531	-0.0017	V	G. Samolyk	0.0009	UY Cam	58083.7579	84326	-0.0935	V	G. Samolyk	0.0027
SW Aqr	58024.3615	71689	-0.0013	V	T. Arranz	0.0007	UY Cam	58107.7935	84416	-0.0917	V	G. Samolyk	0.0033
SW Aqr	58030.3324	71702	-0.0013	V	T. Arranz	0.0008	RW Cnc	57783.7399	33310	0.2272	V	G. Samolyk	0.0015
SW Aqr	58032.6288	71707	-0.0014	V	T. Polakis	0.0009	TT Cnc	57787.7912	31668	0.1086	V	G. Samolyk	0.0021
SW Aqr	58042.7334	71729	-0.0015	V	T. Polakis	0.0005	VZ Cnc	57798.5654	100363	0.0244	V	G. Samolyk	0.0011
SW Aqr	58064.3200	71776	-0.0021	V	T. Arranz	0.0006	VZ Cnc	57798.7318	100364	0.0124	V	G. Samolyk	0.0006
TZ Aqr	57998.8126	35802	0.0143	V	G. Samolyk	0.0018	AM Cnc	58108.8382	3723	0.0020	V	K. Menzies	0.0021
YZ Aqr	57978.8133	40973	0.0786	V	G. Samolyk	0.0012	SS CVn	57824.8045	38039	-0.3608	V	K. Menzies	0.0010
YZ Aqr	58077.6067	41152	0.0762	V	G. Samolyk	0.0016	SS CVn	57877.8913	38150	-0.3898	V	T. Polakis	0.0013
AA Aqr	58035.6229	61238	-0.1740	V	G. Samolyk	0.0012	SS CVn	57926.7242	38252	-0.3661	V	T. Polakis	0.0008

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)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>
RV Cap	57949.8732	53751	-0.0771	V	G. Samolyk	0.0012	V2416 Cyg	56493.8797	51553	-0.0016	V	G. Samolyk	0.0016
RZ Cap	57998.6419	16493	0.0024	V	G. Samolyk	0.0016	V2416 Cyg	57257.6119	65218	-0.0018	V	N. Simmons	0.0024
YZ Cap	58006.6684	52209	0.0474	V	G. Samolyk	0.0021	V2416 Cyg	57531.6437	70121	0.0030	V	G. Samolyk	0.0017
RR Cet	58006.8537	44890	0.0165	V	G. Samolyk	0.0013	V2416 Cyg	57531.6989	70122	0.0023	V	G. Samolyk	0.0015
RR Cet	58030.6334	44933	0.0160	V	T. Arranz	0.0011	V2416 Cyg	57531.8649	70125	0.0006	V	G. Samolyk	0.0016
RU Cet	58088.5851	31149	0.1384	V	G. Samolyk	0.0012	V2416 Cyg	57557.6255	70586	-0.0039	V	G. Samolyk	0.0015
RV Cet	58065.7157	30401	0.2781	V	G. Samolyk	0.0027	V2416 Cyg	57557.6823	70587	-0.0030	V	G. Samolyk	0.0013
RX Cet	58093.5888	31319	0.3363	V	G. Samolyk	0.0019	V2416 Cyg	57564.6693	70712	-0.0022	V	G. Samolyk	0.0016
RZ Cet	58043.7499	47271	-0.2224	V	G. Samolyk	0.0017	V2416 Cyg	57564.7303	70713	0.0029	V	G. Samolyk	0.0017
UU Cet	57642.9041	27116	-0.1643	V	G. Samolyk	0.0021	V2416 Cyg	57564.7838	70714	0.0005	V	G. Samolyk	0.0015
UU Cet	58044.7245	27779	-0.1756	V	G. Samolyk	0.0019	V2416 Cyg	57564.8393	70715	0.0002	V	G. Samolyk	0.0021
VY CrB	57878.8188	34782	-0.1616	V	T. Polakis	0.0012	V2416 Cyg	57579.6524	70980	0.0025	V	G. Samolyk	0.0017
VY CrB	58011.6807	35069	-0.1683	V	T. Polakis	0.0008	V2416 Cyg	57579.7052	70981	-0.0007	V	G. Samolyk	0.0016
VY CrB	58043.6258	35138	-0.1673	V	T. Polakis	0.0014	V2416 Cyg	57595.6349	71266	0.0005	V	G. Samolyk	0.0015
XX Cyg	57881.6259	99553	0.0048	V	G. Samolyk	0.0010	V2416 Cyg	57595.6893	71267	-0.0010	V	G. Samolyk	0.0014
XX Cyg	57881.7591	99554	0.0031	V	G. Samolyk	0.0005	V2416 Cyg	57595.7448	71268	-0.0014	V	G. Samolyk	0.0017
XX Cyg	57902.6644	99709	0.0043	V	G. Samolyk	0.0006	V2416 Cyg	57595.8003	71269	-0.0017	V	G. Samolyk	0.0009
XX Cyg	57902.7988	99710	0.0039	V	G. Samolyk	0.0005	V2416 Cyg	57595.8580	71270	0.0001	V	G. Samolyk	0.0016
XX Cyg	57928.8273	99903	0.0034	V	T. Polakis	0.0005	V2416 Cyg	57881.6770	76384	-0.0007	V	G. Samolyk	0.0022
XZ Cyg	57886.6916	29494	-2.5982	V	G. Samolyk	0.0008	V2416 Cyg	57881.7330	76385	-0.0006	V	G. Samolyk	0.0018
XZ Cyg	57905.8261	29535	-2.5984	V	G. Samolyk	0.0014	V2416 Cyg	57902.6367	76759	0.0003	V	G. Samolyk	0.0021
XZ Cyg	57912.8201	29550	-2.6049	V	H. Smith	0.0008	V2416 Cyg	57902.6899	76760	-0.0023	V	G. Samolyk	0.0016
XZ Cyg	57928.6800	29584	-2.6128	V	G. Samolyk	0.0007	V2416 Cyg	57902.7468	76761	-0.0013	V	G. Samolyk	0.0014
XZ Cyg	57939.4160	29607	-2.6109	V	T. Arranz	0.0006	V2416 Cyg	57902.8031	76762	-0.0009	V	G. Samolyk	0.0011
XZ Cyg	57942.6774	29614	-2.6164	V	G. Samolyk	0.0011	V2416 Cyg	57902.8601	76763	0.0002	V	G. Samolyk	0.0014
XZ Cyg	57943.6154	29616	-2.6118	V	T. Arranz	0.0011	RW Dra	57811.8438	41620	0.2473	V	G. Samolyk	0.0011
XZ Cyg	57952.4836	29635	-2.6109	V	T. Arranz	0.0005	RW Dra	57886.7176	41789	0.2681	V	T. Polakis	0.0011
XZ Cyg	57957.6196	29646	-2.6086	V	T. Arranz	0.0007	RW Dra	57886.7187	41789	0.2692	V	G. Samolyk	0.0008
XZ Cyg	57960.4175	29652	-2.6109	V	T. Arranz	0.0005	RW Dra	57889.8125	41796	0.2626	V	T. Polakis	0.0009
XZ Cyg	57963.6827	29659	-2.6126	V	G. Samolyk	0.0007	RW Dra	57970.4312	41978	0.2704	V	T. Arranz	0.0007
XZ Cyg	57964.6145	29661	-2.6142	V	T. Arranz	0.0006	RW Dra	57978.3771	41996	0.2438	V	T. Arranz	0.0008
XZ Cyg	57972.5466	29678	-2.6160	V	T. Arranz	0.0004	XZ Dra	57861.8290	33439	-0.1282	V	G. Samolyk	0.0009
XZ Cyg	57973.4787	29680	-2.6173	V	T. Arranz	0.0004	XZ Dra	57925.6771	33573	-0.1307	V	G. Samolyk	0.0010
XZ Cyg	57981.4055	29697	-2.6244	V	T. Arranz	0.0007	XZ Dra	57943.7924	33611	-0.1223	V	N. Simmons	0.0008
XZ Cyg	57987.4664	29710	-2.6306	V	T. Arranz	0.0007	SV Eri	58107.7016	31598	1.0540	V	G. Samolyk	0.0021
XZ Cyg	57998.6730	29734	-2.6248	V	G. Samolyk	0.0012	RR Gem	57788.5870	41358	-0.5898	V	G. Samolyk	0.0008
XZ Cyg	58011.7408	29762	-2.6246	V	T. Polakis	0.0016	RR Gem	58037.6740	41985	-0.6165	V	T. Arranz	0.0006
XZ Cyg	58022.4760	29785	-2.6235	V	T. Arranz	0.0005	RR Gem	58053.5689	42025	-0.6141	V	T. Arranz	0.0007
XZ Cyg	58031.3353	29804	-2.6315	V	T. Arranz	0.0006	RR Gem	58074.6214	42078	-0.6190	V	T. Arranz	0.0005
XZ Cyg	58037.3943	29817	-2.6396	V	T. Arranz	0.0006	RR Gem	58104.8201	42154	-0.6159	V	R. Sabo	0.0008
XZ Cyg	58038.3276	29819	-2.6397	V	T. Arranz	0.0006	RR Gem	58108.7881	42164	-0.6210	V	K. Menzies	0.0006
XZ Cyg	58052.3277	29849	-2.6406	V	T. Arranz	0.0007	TW Her	57844.8896	90840	-0.0178	V	G. Samolyk	0.0008
XZ Cyg	58074.2637	29896	-2.6395	V	T. Arranz	0.0005	TW Her	57848.8866	90850	-0.0168	V	R. Sabo	0.0009
DM Cyg	57923.7617	36539	0.0912	V	G. Samolyk	0.0009	TW Her	57926.8069	91045	-0.0186	V	T. Polakis	0.0006
DM Cyg	57971.6214	36653	0.0868	V	T. Arranz	0.0008	TW Her	57998.7346	91225	-0.0189	V	R. Sabo	0.0009
DM Cyg	57977.5016	36667	0.0890	V	T. Arranz	0.0007	TW Her	58000.3342	91229	-0.0177	V	T. Arranz	0.0006
DM Cyg	57979.6004	36672	0.0885	V	T. Arranz	0.0007	TW Her	58004.3297	91239	-0.0182	V	T. Arranz	0.0005
DM Cyg	57983.3785	36681	0.0878	V	T. Arranz	0.0008	VX Her	57877.8755	79336	-0.0652	V	R. Sabo	0.0013
DM Cyg	57998.4955	36717	0.0899	V	T. Arranz	0.0008	VX Her	57910.6624	79408	-0.0652	V	G. Samolyk	0.0007
DM Cyg	58001.4322	36724	0.0876	V	T. Arranz	0.0008	VX Her	58012.6612	79632	-0.0699	V	T. Polakis	0.0010
DM Cyg	58004.3694	36731	0.0857	V	T. Arranz	0.0008	VZ Her	57876.7265	47891	0.0855	V	G. Samolyk	0.0008
DM Cyg	58009.4110	36743	0.0890	V	T. Arranz	0.0009	VZ Her	57891.6963	47925	0.0842	V	T. Polakis	0.0007
DM Cyg	58021.5852	36772	0.0873	V	K. Menzies	0.0008	VZ Her	57923.8413	47998	0.0852	V	R. Sabo	0.0007
DM Cyg	58028.7251	36789	0.0896	V	K. Menzies	0.0011	AR Her	57824.8657	34831	-1.0266	V	G. Samolyk	0.0011
DM Cyg	58033.3416	36800	0.0876	V	T. Arranz	0.0008	AR Her	57857.7566	34901	-1.0376	V	G. Samolyk	0.0018
V2416 Cyg	53612.6009	0	-0.0001	V	G. Samolyk	0.0021	AR Her	57866.6851	34920	-1.0397	V	G. Samolyk	0.0027
V2416 Cyg	55341.6604	30937	0.0006	V	G. Samolyk	0.0019	AR Her	57880.8140	34950	-1.0116	V	G. Samolyk	0.0010
V2416 Cyg	55341.7162	30938	0.0006	V	G. Samolyk	0.0018	AR Her	57906.6743	35005	-1.0028	V	G. Samolyk	0.0019
V2416 Cyg	55341.7687	30939	-0.0029	V	G. Samolyk	0.0017	AR Her	57911.8367	35016	-1.0107	V	G. Samolyk	0.0009
V2416 Cyg	55341.8240	30940	-0.0034	V	G. Samolyk	0.0019	AR Her	57928.7169	35052	-1.0516	V	G. Samolyk	0.0011
V2416 Cyg	56064.8193	43876	0.0031	V	G. Samolyk	0.0015	AR Her	57928.7177	35052	-1.0508	V	T. Polakis	0.0028
V2416 Cyg	56064.8737	43877	0.0016	V	G. Samolyk	0.0023	AR Her	57936.7525	35069	-1.0064	V	G. Samolyk	0.0010
V2416 Cyg	56493.6581	51549	0.0004	V	G. Samolyk	0.0021	AR Her	57952.6955	35103	-1.0444	V	G. Samolyk	0.0011
V2416 Cyg	56493.7136	51550	0.0001	V	G. Samolyk	0.0019	AR Her	57956.4385	35111	-1.0616	V	T. Arranz	0.0008
V2416 Cyg	56493.7681	51551	-0.0014	V	G. Samolyk	0.0011	AR Her	57965.4164	35130	-1.0142	V	T. Arranz	0.0009
V2416 Cyg	56493.8250	51552	-0.0004	V	G. Samolyk	0.0015	AR Her	57981.3771	35164	-1.0345	V	T. Arranz	0.0007

Table continued on next page

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> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>
AR Her	57999.7446	35203	-0.9981	V	R. Sabo	0.0021	RR Lyr	57951.7430	26512	-0.4744	V	N. Simmons	0.0016
DL Her	57884.8465	33258	0.0589	V	R. Sabo	0.0009	RR Lyr	57959.6762	26526	-0.4773	V	G. Samolyk	0.0009
DL Her	57912.6546	33305	0.0605	V	G. Samolyk	0.0015	RZ Lyr	57876.9569	32653	-0.0639	V	T. Polakis	0.0008
DL Her	57969.4360	33401	0.0456	V	T. Arranz	0.0014	RZ Lyr	57936.7800	32770	-0.0562	V	N. Simmons	0.0010
DL Her	57985.4252	33428	0.0609	V	T. Arranz	0.0008	RZ Lyr	58024.7158	32942	-0.0540	V	R. Sabo	0.0011
DL Her	57993.6995	33442	0.0524	V	R. Sabo	0.0013	CX Lyr	57921.7122	40300	1.5557	V	T. Polakis	0.0038
DL Her	58001.3826	33455	0.0443	V	T. Arranz	0.0015	CX Lyr	58032.7404	40480	1.5878	V	T. Polakis	0.0010
DY Her	57881.7312	164449	-0.0327	V	G. Samolyk	0.0006	CX Lyr	58068.4803	40538	1.5623	V	K. Menzies	0.0020
DY Her	57883.8124	164463	-0.0323	V	R. Sabo	0.0009	MW Lyr	57936.7174	55035	-0.4029	V	T. Polakis	0.0010
DY Her	57883.9597	164464	-0.0336	V	R. Sabo	0.0010	V340 Lyr	57919.8645	47931	-0.0210	V	T. Polakis	0.0039
DY Her	57886.7850	164483	-0.0323	V	T. Polakis	0.0005	ST Oph	57882.8607	65407	-0.0270	V	R. Sabo	0.0011
DY Her	57912.6469	164657	-0.0323	V	G. Samolyk	0.0008	AV Peg	57754.5856	35771	0.1762	V	R. Sabo	0.0009
DY Her	57912.7957	164658	-0.0321	V	G. Samolyk	0.0007	AV Peg	57990.3788	36375	0.1831	V	T. Arranz	0.0007
DY Her	57926.7663	164752	-0.0329	V	R. Sabo	0.0008	AV Peg	58056.3534	36544	0.1844	V	T. Arranz	0.0007
DY Her	57983.3957	165133	-0.0320	V	T. Arranz	0.0006	BH Peg	57928.9370	28961	-0.1413	V	T. Polakis	0.0024
LS Her	57877.7286	129427	0.0321	V	T. Polakis	0.0017	BH Peg	58012.9133	29092	-0.1351	V	T. Polakis	0.0016
LS Her	57916.7204	129596	0.0174	V	G. Samolyk	0.0016	DY Peg	58005.5959	185167	-0.0182	V	G. Samolyk	0.0006
V365 Her	57873.8253	47031	-0.1060	V	T. Polakis	0.0017	DY Peg	58005.6693	185168	-0.0177	V	G. Samolyk	0.0005
V1124 Her	57875.8228	11269	0.0512	V	T. Polakis	0.0012	DY Peg	58005.7424	185169	-0.0175	V	G. Samolyk	0.0005
SZ Hya	57783.8092	31838	-0.2569	V	G. Samolyk	0.0009	DY Peg	58005.8149	185170	-0.0179	V	G. Samolyk	0.0006
SZ Hya	57860.6298	31981	-0.2617	V	G. Samolyk	0.0013	DY Peg	58005.8881	185171	-0.0177	V	G. Samolyk	0.0007
UU Hya	57781.8625	34938	0.0053	V	G. Samolyk	0.0013	GV Peg	56183.6504	19872	0.2126	V	K. Menzies	0.0011
DG Hya	57815.6930	7214	0.0212	V	G. Samolyk	0.0013	GV Peg	56260.6466	20008	0.1072	V	K. Menzies	0.0012
DH Hya	57802.7900	54451	0.1050	V	G. Samolyk	0.0011	FR Psc	58012.7628	9439	0.0105	V	T. Polakis	0.0007
XZ Lac	57878.8780	31720	0.3940	V	T. Polakis	0.0015	FR Psc	58043.7177	9507	-0.0211	V	T. Polakis	0.0013
XZ Lac	57936.9392	31812	0.4768	V	T. Polakis	0.0014	FR Psc	58095.6649	9621	-0.0219	V	R. Sabo	0.0017
RR Leo	57755.8614	31964	0.1600	V	K. Menzies	0.0006	DF Ser	57863.8268	64317	0.1041	V	R. Sabo	0.0008
RR Leo	58101.9499	32729	0.1676	V	G. Samolyk	0.0007	DF Ser	57877.8311	64349	0.0989	V	K. Menzies	0.0009
RR Leo	58116.8798	32762	0.1685	V	K. Menzies	0.0008	DF Ser	57878.7102	64351	0.1024	V	T. Polakis	0.0008
SS Leo	57786.9014	25554	-0.1047	V	G. Samolyk	0.0018	DF Ser	57909.7954	64422	0.1042	V	G. Samolyk	0.0011
ST Leo	57781.8214	62468	-0.0199	V	G. Samolyk	0.0009	DF Ser	57938.6889	64488	0.1032	V	G. Samolyk	0.0011
TV Leo	57786.9103	30832	0.1289	V	G. Samolyk	0.0017	RV UMa	57761.9372	27104	0.1280	V	G. Samolyk	0.0009
WW Leo	57811.6636	38035	0.0498	V	G. Samolyk	0.0013	RV UMa	57858.8259	27311	0.1282	V	K. Menzies	0.0008
WW Leo	58079.9342	38480	0.0542	V	G. Samolyk	0.0024	RV UMa	57904.7015	27409	0.1340	V	T. Polakis	0.0009
AA Leo	57787.8987	30387	-0.1071	V	K. Menzies	0.0009	RV UMa	58083.9696	27792	0.1351	V	G. Samolyk	0.0009
VY LMi	57772.0176	13845	0.0193	V	R. Sabo	0.0012	AE UMa	57754.6806	257511	0.0047	V	G. Samolyk	0.0008
VY LMi	57817.7928	13932	0.0197	V	K. Menzies	0.0015	AE UMa	57754.7623	257512	0.0004	V	G. Samolyk	0.0007
VY LMi	57836.7392	13968	0.0248	V	R. Sabo	0.0011	AE UMa	57754.8453	257513	-0.0026	V	G. Samolyk	0.0006
SZ Lyn	57768.8532	162977	0.0353	V	G. Samolyk	0.0008	AE UMa	57754.9361	257514	0.0022	V	G. Samolyk	0.0009
SZ Lyn	57768.9751	162978	0.0367	V	G. Samolyk	0.0008	AE UMa	57755.0237	257515	0.0038	V	G. Samolyk	0.0011
SZ Lyn	57787.7784	163134	0.0365	V	K. Menzies	0.0011	AE UMa	57759.7519	257570	0.0010	V	G. Samolyk	0.0006
SZ Lyn	57803.6864	163266	0.0339	V	N. Simmons	0.0005	AE UMa	57759.8336	257571	-0.0033	V	G. Samolyk	0.0015
SZ Lyn	57844.6678	163606	0.0334	V	G. Samolyk	0.0006	AE UMa	57759.9251	257572	0.0022	V	G. Samolyk	0.0009
SZ Lyn	58011.9660	164994	0.0292	V	T. Polakis	0.0008	AE UMa	57760.0123	257573	0.0034	V	G. Samolyk	0.0007
SZ Lyn	58035.8330	165192	0.0303	V	G. Samolyk	0.0008	AE UMa	57760.6137	257580	0.0027	V	G. Samolyk	0.0005
SZ Lyn	58035.9539	165193	0.0306	V	G. Samolyk	0.0008	AE UMa	57760.6953	257581	-0.0017	V	G. Samolyk	0.0005
SZ Lyn	58061.0229	165401	0.0284	V	T. Polakis	0.0006	AE UMa	57760.7835	257582	0.0004	V	G. Samolyk	0.0008
SZ Lyn	58079.7062	165556	0.0287	V	N. Simmons	0.0006	AE UMa	57760.8729	257583	0.0038	V	G. Samolyk	0.0007
SZ Lyn	58079.8272	165557	0.0292	V	N. Simmons	0.0006	AE UMa	57760.9544	257584	-0.0007	V	G. Samolyk	0.0005
SZ Lyn	58079.9474	165558	0.0289	V	N. Simmons	0.0005	AE UMa	57761.7332	257593	0.0040	V	G. Samolyk	0.0008
SZ Lyn	58079.9478	165558	0.0293	V	G. Samolyk	0.0006	AE UMa	57761.8163	257594	0.0010	V	G. Samolyk	0.0005
SZ Lyn	58090.6754	165647	0.0293	V	G. Samolyk	0.0007	AE UMa	57761.8992	257595	-0.0021	V	G. Samolyk	0.0005
SZ Lyn	58090.7951	165648	0.0284	V	G. Samolyk	0.0011	AE UMa	57761.9899	257596	0.0026	V	G. Samolyk	0.0007
SZ Lyn	58090.9163	165649	0.0291	V	G. Samolyk	0.0009	GW UMa	57802.7358	28558	0.0020	V	G. Samolyk	0.0012
SZ Lyn	58102.9686	165749	0.0279	V	K. Menzies	0.0009	GW UMa	57802.9381	28559	0.0011	V	G. Samolyk	0.0009
RR Lyr	57909.8036	26438	-0.4655	V	G. Samolyk	0.0016							