

Recent Maxima of 75 Short Period Pulsating Stars

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Abstract This paper contains times of maxima for 75 short period pulsating stars (primarily RR Lyrae and δ Scuti stars). This represents the CCD observations received by the AAVSO SPP section in 2013.

1. Recent observations

This accompanying list 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/gsamoj421.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/dbrr-V1.0_0.php. This database does not include δ Scuti stars. Most of these observations were reduced by the writer or using the PERANSO program (Vanmunster 2007). Pierre de Ponthière supplied some additional times of maxima. Column F indicates the filter used; "SG" indicates Sloan g.

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: RZ Cap (Samolyk 2010), V421 Her (Drake *et al.*, 2013), and GW UMa (Hintz *et al.*, 2001).

References

- Drake A. J. *et al.* 2013, *Astrophys. J.*, **763** 32.
de Ponthière, P. 2013, **private communication**.
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. Star Obs.*, **38**, 12.
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.

| <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 | 56525.7686 | 86808 | -0.4177 | V | K. Menzies | 0.0006 |
| SW And | 56532.8557 | 86824 | -0.4071 | V | R. Sabo | 0.0026 |
| SW And | 56563.8024 | 86894 | -0.4199 | V | K. Menzies | 0.0007 |
| SW And | 56563.8057 | 86894 | -0.4166 | V | G. Samolyk | 0.0012 |
| SW And | 56575.7456 | 86921 | -0.4183 | V | G. Samolyk | 0.0013 |
| SW And | 56582.3771 | 86936 | -0.4210 | V | T. Arranz | 0.0007 |
| SW And | 56587.6869 | 86948 | -0.4185 | V | R. Sabo | 0.0014 |
| SW And | 56587.6870 | 86948 | -0.4184 | B | R. Sabo | 0.0013 |
| SW And | 56593.4334 | 86961 | -0.4217 | V | T. Arranz | 0.0008 |
| SW And | 56597.4121 | 86970 | -0.4235 | V | T. Arranz | 0.0007 |
| SW And | 56609.3553 | 86997 | -0.4218 | V | T. Arranz | 0.0007 |
| SW And | 56616.4328 | 87013 | -0.4208 | V | T. Arranz | 0.0011 |
| SW And | 56617.3165 | 87015 | -0.4217 | V | T. Arranz | 0.0007 |
| SW And | 56619.5272 | 87020 | -0.4224 | V | G. Samolyk | 0.0011 |
| SW And | 56620.4127 | 87022 | -0.4214 | V | T. Arranz | 0.0006 |
| SW And | 56621.2989 | 87024 | -0.4198 | V | T. Arranz | 0.0008 |
| SW And | 56623.5049 | 87029 | -0.4252 | V | T. Arranz | 0.0004 |
| SW And | 56624.3929 | 87031 | -0.4217 | V | T. Arranz | 0.0008 |
| SW And | 56625.2770 | 87033 | -0.4222 | V | T. Arranz | 0.0007 |
| SW And | 56627.4893 | 87038 | -0.4213 | V | T. Arranz | 0.0007 |
| SW And | 56628.3697 | 87040 | -0.4255 | V | T. Arranz | 0.0005 |
| SW And | 56629.2580 | 87042 | -0.4217 | V | T. Arranz | 0.0012 |
| SW And | 56631.4705 | 87047 | -0.4206 | V | T. Arranz | 0.0013 |
| SW And | 56635.4479 | 87056 | -0.4237 | V | T. Arranz | 0.0007 |
| SW And | 56636.3326 | 87058 | -0.4236 | V | T. Arranz | 0.0006 |
| SW And | 56643.4065 | 87074 | -0.4262 | V | T. Arranz | 0.0013 |
| XX And | 56539.8719 | 24147 | 0.2595 | V | G. Samolyk | 0.0015 |
| XX And | 56552.8786 | 24165 | 0.2568 | V | G. Samolyk | 0.0015 |
| XX And | 56568.7825 | 24187 | 0.2602 | V | K. Menzies | 0.0009 |
| ZZ And | 56493.8806 | 57103 | 0.0266 | V | R. Sabo | 0.0017 |
| ZZ And | 56589.8160 | 57276 | 0.0278 | V | R. Sabo | 0.0017 |
| ZZ And | 56589.8163 | 57276 | 0.0282 | I | R. Sabo | 0.0034 |
| AT And | 56489.8793 | 22931 | -0.0133 | V | R. Sabo | 0.0025 |
| AT And | 56539.8589 | 23012 | -0.0038 | V | G. Samolyk | 0.0021 |
| AT And | 56549.7300 | 23028 | -0.0034 | V | G. Samolyk | 0.0021 |
| AT And | 56567.6170 | 23057 | -0.0069 | V | G. Samolyk | 0.0020 |
| DM And | 55865.3621 | 31961 | 0.0683 | V | P. de Ponthière | 0.0037 |
| DM And | 55875.4443 | 31977 | 0.0642 | V | P. de Ponthière | 0.0063 |

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> |
|-------------|---|--------------|------------|----------|-----------------|--------------|
| DM And | 56521.5951 | 33002 | 0.0663 | V | K. Menzies | 0.0022 |
| DM And | 56586.5290 | 33105 | 0.0702 | V | K. Menzies | 0.0012 |
| DY And | 56315.5307 | 33515 | 0.0047 | V | K. Menzies | 0.0012 |
| GM And | 55837.5116 | 42725 | 0.0447 | V | P. de Ponthière | 0.0035 |
| GM And | 55856.5940 | 42752 | 0.0446 | V | P. de Ponthière | 0.0120 |
| GM And | 55886.2794 | 42794 | 0.0462 | V | P. de Ponthière | 0.0036 |
| GM And | 55888.3975 | 42797 | 0.0440 | V | P. de Ponthière | 0.0021 |
| SW Aqr | 56449.8691 | 68261 | -0.0024 | V | R. Sabo | 0.0009 |
| SW Aqr | 56570.6654 | 68524 | -0.0028 | V | R. Sabo | 0.0009 |
| TZ Aqr | 56565.6797 | 33293 | 0.0079 | V | G. Samolyk | 0.0014 |
| YZ Aqr | 56610.5659 | 38494 | 0.0703 | V | G. Samolyk | 0.0015 |
| AA Aqr | 56609.6308 | 58896 | -0.1455 | V | G. Samolyk | 0.0018 |
| BO Aqr | 56620.5731 | 21612 | 0.1911 | V | G. Samolyk | 0.0019 |
| BR Aqr | 56575.7809 | 39304 | -0.1907 | V | G. Samolyk | 0.0013 |
| CY Aqr | 56571.4471 | 364738 | 0.0180 | V | T. Arranz | 0.0002 |
| CY Aqr | 56579.5609 | 364871 | 0.0137 | V | G. Samolyk | 0.0007 |
| CY Aqr | 56579.6214 | 364872 | 0.0132 | V | G. Samolyk | 0.0008 |
| CY Aqr | 56579.6830 | 364873 | 0.0138 | V | G. Samolyk | 0.0007 |
| CY Aqr | 56579.7441 | 364874 | 0.0138 | V | G. Samolyk | 0.0007 |
| CY Aqr | 56579.8045 | 364875 | 0.0132 | V | G. Samolyk | 0.0004 |
| CY Aqr | 56593.5391 | 365100 | 0.0142 | V | G. Samolyk | 0.0006 |
| CY Aqr | 56593.5997 | 365101 | 0.0137 | V | G. Samolyk | 0.0004 |
| CY Aqr | 56593.6605 | 365102 | 0.0135 | V | G. Samolyk | 0.0006 |
| CY Aqr | 56603.6092 | 365265 | 0.0130 | V | G. Samolyk | 0.0004 |
| CY Aqr | 56603.6708 | 365266 | 0.0134 | V | G. Samolyk | 0.0004 |
| TZ Aur | 56572.9815 | 93625 | 0.0133 | V | R. Sabo | 0.0009 |
| TZ Aur | 56603.9264 | 93704 | 0.0159 | V | G. Samolyk | 0.0008 |
| TZ Aur | 56655.6262 | 93836 | 0.0146 | V | G. Samolyk | 0.0009 |
| BH Aur | 56552.9237 | 30260 | 0.0044 | V | R. Sabo | 0.0022 |
| BH Aur | 56563.8689 | 30284 | 0.0034 | V | N. Simmons | 0.0011 |
| BH Aur | 56563.8694 | 30284 | 0.0039 | V | G. Samolyk | 0.0013 |
| BH Aur | 56574.8173 | 30308 | 0.0056 | V | G. Samolyk | 0.0019 |
| BH Aur | 56588.9551 | 30339 | 0.0047 | V | R. Sabo | 0.0013 |
| BH Aur | 56588.9556 | 30339 | 0.0052 | I | R. Sabo | 0.0018 |
| BH Aur | 56619.9689 | 30407 | 0.0044 | V | R. Sabo | 0.0010 |
| BH Aur | 56643.6862 | 30459 | 0.0050 | V | K. Menzies | 0.0013 |
| RS Boo | 56376.9058 | 38709 | 0.0020 | V | R. Sabo | 0.0008 |
| RS Boo | 56409.7314 | 38796 | -0.0009 | V | R. Sabo | 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)</i> <i>Hel.</i> <i>2400000 +</i> | <i>Cycle</i> | <i>O-C</i> | <i>F</i> | <i>Observer</i> | <i>Error</i> |
|-------------|---|--------------|------------|----------|-----------------|--------------|
| RS Boo | 56449.7265 | 38902 | -0.0037 | V | R. Sabo | 0.0010 |
| ST Boo | 56447.4606 | 59885 | 0.0968 | V | T. Arranz | 0.0014 |
| ST Boo | 56457.4216 | 59901 | 0.1012 | V | T. Arranz | 0.0010 |
| ST Boo | 56474.8294 | 59929 | 0.0848 | V | R. Sabo | 0.0015 |
| ST Boo | 56480.4408 | 59938 | 0.0956 | V | T. Arranz | 0.0012 |
| ST Boo | 56490.4029 | 59954 | 0.1011 | V | T. Arranz | 0.0015 |
| ST Boo | 56503.4698 | 59975 | 0.0998 | V | T. Arranz | 0.0009 |
| ST Boo | 56513.4286 | 59991 | 0.1020 | V | T. Arranz | 0.0011 |
| ST Boo | 56518.4107 | 59999 | 0.1058 | V | T. Arranz | 0.0011 |
| ST Boo | 56523.3934 | 60007 | 0.1101 | V | T. Arranz | 0.0009 |
| SW Boo | 56339.8722 | 26812 | 0.3968 | V | R. Sabo | 0.0012 |
| SW Boo | 56361.9526 | 26855 | 0.3955 | V | R. Sabo | 0.0011 |
| SW Boo | 56378.9013 | 26888 | 0.3977 | V | R. Sabo | 0.0015 |
| SW Boo | 56444.6357 | 27016 | 0.4006 | V | K. Menzies | 0.0011 |
| SZ Boo | 56437.6815 | 55081 | 0.0131 | V | G. Samolyk | 0.0026 |
| TV Boo | 56356.8737 | 101572 | 0.0794 | V | R. Sabo | 0.0015 |
| TV Boo | 56408.7683 | 101738 | 0.0891 | V | R. Poklar | 0.0016 |
| TV Boo | 56467.5459 | 101926 | 0.1056 | V | M. Rodríguez | 0.0041 |
| TW Boo | 56437.6745 | 55510 | -0.0761 | V | G. Samolyk | 0.0014 |
| UU Boo | 56392.9584 | 44446 | 0.2599 | V | R. Sabo | 0.0008 |
| UU Boo | 56400.7280 | 44463 | 0.2618 | V | R. Poklar | 0.0011 |
| UU Boo | 56441.3992 | 44552 | 0.2671 | V | T. Arranz | 0.0007 |
| UU Boo | 56446.4260 | 44563 | 0.2678 | V | T. Arranz | 0.0007 |
| UU Boo | 56456.4795 | 44585 | 0.2690 | V | T. Arranz | 0.0008 |
| UU Boo | 56472.4711 | 44620 | 0.2684 | V | T. Arranz | 0.0008 |
| UU Boo | 56478.4110 | 44633 | 0.2683 | V | T. Arranz | 0.0008 |
| UU Boo | 56483.4357 | 44644 | 0.2669 | V | T. Arranz | 0.0007 |
| UU Boo | 56494.4016 | 44668 | 0.2667 | V | T. Arranz | 0.0007 |
| UU Boo | 56499.4282 | 44679 | 0.2672 | V | T. Arranz | 0.0009 |
| UU Boo | 56504.4522 | 44690 | 0.2651 | V | T. Arranz | 0.0008 |
| UU Boo | 56515.4197 | 44714 | 0.2665 | V | T. Arranz | 0.0007 |
| UU Boo | 56520.4452 | 44725 | 0.2658 | V | T. Arranz | 0.0007 |
| UY Boo | 56401.6570 | 22379 | 0.8930 | V | R. Poklar | 0.0014 |
| UY Boo | 56465.4690 | 22477 | 0.9230 | V | T. Arranz | 0.0011 |
| UY Boo | 56467.4246 | 22480 | 0.9261 | V | T. Arranz | 0.0011 |
| UY Cam | 56603.8054 | 78784 | -0.0973 | V | G. Samolyk | 0.0033 |
| RW Cnc | 56339.6722 | 30671 | 0.2177 | V | R. Sabo | 0.0015 |
| RW Cnc | 56356.6295 | 30702 | 0.2118 | V | R. Sabo | 0.0010 |

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> |
|-------------|---|--------------|------------|----------|-----------------|--------------|
| RW Cnc | 56385.6299 | 30755 | 0.2107 | V | N. Simmons | 0.0008 |
| RW Cnc | 56396.5794 | 30775 | 0.2162 | V | M. Rodríguez | 0.0013 |
| RW Cnc | 56406.4260 | 30793 | 0.2132 | V | T. Arranz | 0.0008 |
| TT Cnc | 56334.6656 | 29089 | 0.1190 | V | R. Sabo | 0.0012 |
| TT Cnc | 56361.6898 | 29137 | 0.0976 | V | R. Sabo | 0.0027 |
| VZ Cnc | 56340.7877 | 92190 | 0.0132 | V | G. Samolyk | 0.0011 |
| VZ Cnc | 56651.8589 | 93934 | 0.0181 | V | R. Sabo | 0.0017 |
| VZ Cnc | 56651.8604 | 93934 | 0.0196 | B | R. Sabo | 0.0016 |
| VZ Cnc | 56651.8620 | 93934 | 0.0212 | I | R. Sabo | 0.0020 |
| VZ Cnc | 56652.0252 | 93935 | 0.0061 | I | R. Sabo | 0.0018 |
| VZ Cnc | 56652.0265 | 93935 | 0.0074 | B | R. Sabo | 0.0006 |
| VZ Cnc | 56652.0270 | 93935 | 0.0079 | V | R. Sabo | 0.0010 |
| SS CVn | 56411.7482 | 35086 | -0.3446 | V | R. Poklar | 0.0013 |
| RZ Cap | 56566.6435 | 12922 | 0.0007 | V | G. Samolyk | 0.0012 |
| YZ Cap | 56574.5821 | 46972 | 0.0518 | V | G. Samolyk | 0.0021 |
| RR Cet | 56567.8702 | 42288 | 0.0122 | V | G. Samolyk | 0.0014 |
| RU Cet | 56557.7861 | 28538 | 0.1165 | V | G. Samolyk | 0.0021 |
| RV Cet | 56573.8579 | 28008 | 0.2237 | V | G. Samolyk | 0.0023 |
| RX Cet | 56633.5342 | 28774 | 0.3273 | V | G. Samolyk | 0.0013 |
| RZ Cet | 56619.6725 | 44482 | -0.2064 | V | G. Samolyk | 0.0013 |
| UU Cet | 56604.6880 | 25403 | -0.1636 | V | R. Poklar | 0.0026 |
| SZ CrB | 56389.7881 | 44807 | -0.0205 | V | K. Menzies | 0.0014 |
| SZ CrB | 56397.8639 | 44825 | -0.0199 | V | K. Menzies | 0.0018 |
| XX Cyg | 56493.7281 | 89262 | 0.0039 | V | G. Samolyk | 0.0008 |
| XX Cyg | 56493.8612 | 89263 | 0.0021 | V | G. Samolyk | 0.0006 |
| XZ Cyg | 56431.8321 | 26376 | -2.2871 | V | G. Samolyk | 0.0012 |
| XZ Cyg | 56446.7707 | 26408 | -2.2829 | V | G. Samolyk | 0.0016 |
| XZ Cyg | 56460.7759 | 26438 | -2.2787 | V | G. Samolyk | 0.0013 |
| XZ Cyg | 56488.7582 | 26498 | -2.2984 | V | G. Samolyk | 0.0019 |
| XZ Cyg | 56506.4973 | 26536 | -2.2939 | V | T. Arranz | 0.0009 |
| XZ Cyg | 56507.4308 | 26538 | -2.2938 | V | T. Arranz | 0.0006 |
| XZ Cyg | 56514.4354 | 26553 | -2.2897 | V | T. Arranz | 0.0005 |
| XZ Cyg | 56521.4387 | 26568 | -2.2869 | V | T. Arranz | 0.0007 |
| XZ Cyg | 56528.4291 | 26583 | -2.2970 | V | T. Arranz | 0.0006 |
| XZ Cyg | 56529.3618 | 26585 | -2.2977 | V | T. Arranz | 0.0007 |
| XZ Cyg | 56535.4227 | 26598 | -2.3039 | V | T. Arranz | 0.0007 |
| XZ Cyg | 56549.4108 | 26628 | -2.3168 | V | T. Arranz | 0.0006 |
| XZ Cyg | 56550.3513 | 26630 | -2.3097 | V | T. Arranz | 0.0010 |

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> 2400000 + | <i>Cycle</i> | <i>O-C</i> | <i>F</i> | <i>Observer</i> | <i>Error</i> |
|-------------|--|--------------|------------|----------|-----------------|--------------|
| XZ Cyg | 56556.4213 | 26643 | -2.3068 | V | T. Arranz | 0.0008 |
| XZ Cyg | 56557.3571 | 26645 | -2.3044 | V | T. Arranz | 0.0008 |
| XZ Cyg | 56570.4201 | 26673 | -2.3090 | V | T. Arranz | 0.0005 |
| XZ Cyg | 56571.3539 | 26675 | -2.3086 | V | T. Arranz | 0.0006 |
| XZ Cyg | 56577.4200 | 26688 | -2.3096 | V | T. Arranz | 0.0005 |
| XZ Cyg | 56578.3544 | 26690 | -2.3086 | V | T. Arranz | 0.0006 |
| XZ Cyg | 56592.3473 | 26720 | -2.3167 | V | T. Arranz | 0.0010 |
| DM Cyg | 56471.8685 | 33081 | 0.0738 | V | R. Sabo | 0.0010 |
| DM Cyg | 56484.8846 | 33112 | 0.0743 | V | R. Sabo | 0.0012 |
| DM Cyg | 56490.7649 | 33126 | 0.0765 | V | G. Samolyk | 0.0016 |
| DM Cyg | 56497.9020 | 33143 | 0.0760 | V | R. Sabo | 0.0022 |
| DM Cyg | 56509.6576 | 33171 | 0.0755 | V | K. Menzies | 0.0008 |
| DM Cyg | 56537.7899 | 33238 | 0.0772 | V | R. Sabo | 0.0012 |
| DM Cyg | 56558.3668 | 33287 | 0.0810 | V | T. Arranz | 0.0008 |
| DM Cyg | 56560.4653 | 33292 | 0.0802 | V | T. Arranz | 0.0008 |
| DM Cyg | 56574.3196 | 33325 | 0.0791 | V | T. Arranz | 0.0007 |
| DM Cyg | 56608.3223 | 33406 | 0.0731 | V | T. Arranz | 0.0007 |
| DM Cyg | 56637.2984 | 33475 | 0.0789 | V | T. Arranz | 0.0009 |
| DM Cyg | 56642.3384 | 33487 | 0.0806 | V | T. Arranz | 0.0005 |
| RW Dra | 56446.7250 | 38538 | 0.1987 | V | G. Samolyk | 0.0012 |
| RW Dra | 56449.8202 | 38545 | 0.1934 | V | R. Sabo | 0.0010 |
| XZ Dra | 56436.6457 | 30448 | -0.1090 | V | N. Simmons | 0.0013 |
| SV Eri | 56620.7316 | 29515 | 0.9219 | V | G. Samolyk | 0.0021 |
| RX For | 56301.6863 | 27574 | -0.0369 | V | R. Poklar | 0.0034 |
| RR Gem | 56382.5990 | 37819 | -0.4956 | V | K. Menzies | 0.0007 |
| RR Gem | 56587.9956 | 38336 | -0.5086 | V | R. Sabo | 0.0012 |
| RR Gem | 56603.8875 | 38376 | -0.5091 | V | G. Samolyk | 0.0007 |
| TW Her | 56436.7001 | 87316 | -0.0166 | V | G. Samolyk | 0.0007 |
| TW Her | 56462.6754 | 87381 | -0.0153 | V | N. Simmons | 0.0006 |
| TW Her | 56545.3942 | 87588 | -0.0137 | V | T. Arranz | 0.0008 |
| TW Her | 56547.3922 | 87593 | -0.0137 | V | T. Arranz | 0.0007 |
| TW Her | 56551.3875 | 87603 | -0.0144 | V | T. Arranz | 0.0007 |
| TW Her | 56553.3854 | 87608 | -0.0145 | V | T. Arranz | 0.0007 |
| TW Her | 56561.3758 | 87628 | -0.0161 | V | T. Arranz | 0.0005 |
| TW Her | 56573.3627 | 87658 | -0.0172 | V | T. Arranz | 0.0006 |
| TW Her | 56575.3620 | 87663 | -0.0159 | V | T. Arranz | 0.0006 |
| VX Her | 56382.9349 | 76053 | -0.0169 | V | R. Sabo | 0.0008 |
| VX Her | 56497.6855 | 76305 | -0.0202 | V | G. Samolyk | 0.0010 |

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> 2400000 + | <i>Cycle</i> | <i>O-C</i> | <i>F</i> | <i>Observer</i> | <i>Error</i> |
|-------------|--|--------------|------------|----------|-----------------|--------------|
| VZ Her | 56463.7050 | 44682 | 0.0762 | V | G. Samolyk | 0.0013 |
| AR Her | 56431.8485 | 31868 | -1.3508 | V | G. Samolyk | 0.0015 |
| AR Her | 56447.7858 | 31902 | -1.3945 | V | G. Samolyk | 0.0015 |
| AR Her | 56457.6384 | 31923 | -1.4124 | V | G. Samolyk | 0.0017 |
| AR Her | 56462.8464 | 31934 | -1.3748 | V | G. Samolyk | 0.0011 |
| AR Her | 56468.4972 | 31946 | -1.3643 | V | T. Arranz | 0.0013 |
| AR Her | 56469.4292 | 31948 | -1.3723 | V | T. Arranz | 0.0008 |
| AR Her | 56476.4764 | 31963 | -1.3756 | V | T. Arranz | 0.0010 |
| AR Her | 56477.4129 | 31965 | -1.3791 | V | T. Arranz | 0.0008 |
| AR Her | 56484.4358 | 31980 | -1.4066 | V | T. Arranz | 0.0011 |
| AR Her | 56493.4094 | 31999 | -1.3636 | V | T. Arranz | 0.0006 |
| AR Her | 56500.4552 | 32014 | -1.3682 | V | T. Arranz | 0.0010 |
| AR Her | 56508.4261 | 32031 | -1.3878 | V | T. Arranz | 0.0006 |
| AR Her | 56509.3699 | 32033 | -1.3840 | V | T. Arranz | 0.0007 |
| AR Her | 56516.3917 | 32048 | -1.4126 | V | T. Arranz | 0.0009 |
| AR Her | 56532.4223 | 32082 | -1.3630 | V | T. Arranz | 0.0005 |
| DL Her | 56409.9010 | 30765 | 0.0417 | V | R. Sabo | 0.0034 |
| DL Her | 56489.7906 | 30900 | 0.0615 | V | R. Sabo | 0.0029 |
| DY Her | 56330.9156 | 154015 | -0.0287 | V | K. Menzies | 0.0006 |
| DY Her | 56463.6425 | 154908 | -0.0296 | V | G. Samolyk | 0.0008 |
| DY Her | 56495.4531 | 155122 | -0.0261 | V | T. Arranz | 0.0007 |
| DY Her | 56496.4962 | 155129 | -0.0235 | V | T. Arranz | 0.0006 |
| DY Her | 56497.3858 | 155135 | -0.0256 | V | T. Arranz | 0.0006 |
| V394 Her | 56404.8270 | 61133 | -0.1679 | V | K. Menzies | 0.0014 |
| V394 Her | 56448.4337 | 61233 | -0.1670 | V | P. de Ponthière | 0.0015 |
| V394 Her | 56451.4869 | 61240 | -0.1662 | V | P. de Ponthière | 0.0020 |
| V394 Her | 56475.4688 | 61295 | -0.1674 | V | P. de Ponthière | 0.0024 |
| V421 Her | 56374.7980 | 5068 | 0.0744 | V | K. Menzies | 0.0018 |
| V434 Her | 56410.7537 | 53214 | -0.0668 | V | K. Menzies | 0.0019 |
| V434 Her | 56425.6718 | 53243 | -0.0664 | V | K. Menzies | 0.0017 |
| V434 Her | 56440.5893 | 53272 | -0.0666 | V | K. Menzies | 0.0017 |
| V434 Her | 56443.6743 | 53278 | -0.0680 | V | K. Menzies | 0.0017 |
| V434 Her | 56447.7914 | 53286 | -0.0662 | V | K. Menzies | 0.0015 |
| SZ Hya | 56340.7940 | 29152 | -0.2449 | V | G. Samolyk | 0.0027 |
| SZ Hya | 56353.6948 | 29176 | -0.2379 | V | R. Poklar | 0.0014 |
| SZ Hya | 56360.6821 | 29189 | -0.2347 | V | R. Sabo | 0.0018 |
| SZ Hya | 56368.7017 | 29204 | -0.2737 | V | R. Poklar | 0.0034 |
| SZ Hya | 56382.7045 | 29230 | -0.2391 | V | R. Sabo | 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)</i> <i>Hel.</i> 2400000 + | <i>Cycle</i> | <i>O-C</i> | <i>F</i> | <i>Observer</i> | <i>Error</i> |
|-------------|--|--------------|------------|----------|-----------------|--------------|
| UU Hya | 56308.7481 | 32126 | 0.0089 | SG | F.J. Hamsch | 0.0011 |
| UU Hya | 56309.7928 | 32128 | 0.0058 | SG | F.J. Hamsch | 0.0008 |
| UU Hya | 56310.8461 | 32130 | 0.0114 | SG | F.J. Hamsch | 0.0016 |
| UU Hya | 56311.8928 | 32132 | 0.0104 | SG | F.J. Hamsch | 0.0011 |
| UU Hya | 56312.9463 | 32134 | 0.0161 | SG | F.J. Hamsch | 0.0016 |
| UU Hya | 56323.9431 | 32155 | 0.0117 | SG | F.J. Hamsch | 0.0035 |
| UU Hya | 56329.6961 | 32166 | 0.0021 | SG | F.J. Hamsch | 0.0022 |
| UU Hya | 56330.7410 | 32168 | -0.0007 | V | R. Sabo | 0.0023 |
| UU Hya | 56334.9298 | 32176 | -0.0028 | SG | F.J. Hamsch | 0.0014 |
| UU Hya | 56351.7083 | 32208 | 0.0119 | V | R. Poklar | 0.0013 |
| UU Hya | 56353.8113 | 32212 | 0.0194 | SG | F.J. Hamsch | 0.0015 |
| UU Hya | 56354.8622 | 32214 | 0.0226 | SG | F.J. Hamsch | 0.0013 |
| UU Hya | 56363.7539 | 32231 | 0.0085 | SG | F.J. Hamsch | 0.0022 |
| UU Hya | 56364.8003 | 32233 | 0.0072 | SG | F.J. Hamsch | 0.0022 |
| UU Hya | 56365.8506 | 32235 | 0.0097 | SG | F.J. Hamsch | 0.0014 |
| RR Leo | 56350.6934 | 28858 | 0.1255 | V | R. Poklar | 0.0009 |
| RR Leo | 56384.6249 | 28933 | 0.1276 | V | N. Simmons | 0.0009 |
| RR Leo | 56415.3889 | 29001 | 0.1288 | V | T. Arranz | 0.0006 |
| RR Leo | 56424.4368 | 29021 | 0.1288 | V | T. Arranz | 0.0007 |
| RR Leo | 56434.3895 | 29043 | 0.1289 | V | T. Arranz | 0.0007 |
| RR Leo | 56438.4606 | 29052 | 0.1284 | V | T. Arranz | 0.0008 |
| RR Leo | 56443.4367 | 29063 | 0.1282 | V | T. Arranz | 0.0008 |
| RR Leo | 56448.4112 | 29074 | 0.1264 | V | T. Arranz | 0.0008 |
| SS Leo | 56363.8655 | 23282 | -0.0868 | V | R. Sabo | 0.0012 |
| ST Leo | 56383.7151 | 59543 | -0.0221 | V | R. Poklar | 0.0009 |
| TV Leo | 56384.6725 | 28748 | 0.1160 | V | R. Poklar | 0.0020 |
| AA Leo | 56363.7093 | 28008 | -0.0945 | V | R. Poklar | 0.0015 |
| AA Leo | 56408.6087 | 28083 | -0.0943 | V | K. Menzies | 0.0013 |
| AA Leo | 56414.5950 | 28093 | -0.0946 | V | K. Menzies | 0.0011 |
| U Lep | 56298.6537 | 25704 | 0.0435 | V | R. Poklar | 0.0011 |
| RY Lib | 56396.8658 | 62671 | -0.0697 | V | F.J. Hamsch | 0.0021 |
| RY Lib | 56397.8302 | 62673 | -0.0713 | V | F.J. Hamsch | 0.0019 |
| VY Lib | 56387.8223 | 28549 | -0.0350 | V | F.J. Hamsch | 0.0017 |
| VY Lib | 56388.8893 | 28551 | -0.0359 | V | F.J. Hamsch | 0.0018 |
| VY Lib | 56395.8327 | 28564 | -0.0337 | V | F.J. Hamsch | 0.0017 |
| SZ Lyn | 56340.6348 | 151128 | 0.0352 | V | G. Samolyk | 0.0006 |
| SZ Lyn | 56381.6173 | 151468 | 0.0358 | V | N. Simmons | 0.0008 |
| SZ Lyn | 56574.9515 | 153072 | 0.0320 | V | G. Samolyk | 0.0005 |

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> |
|-------------|---|--------------|------------|----------|-----------------|--------------|
| SZ Lyn | 56604.8449 | 153320 | 0.0327 | V | G. Samolyk | 0.0007 |
| SZ Lyn | 56604.9641 | 153321 | 0.0314 | V | G. Samolyk | 0.0006 |
| SZ Lyn | 56615.8127 | 153411 | 0.0318 | V | G. Samolyk | 0.0008 |
| RR Lyr | 56457.7231 | 23876 | -0.2308 | V | G. Samolyk | 0.0011 |
| RR Lyr | 56457.7233 | 23876 | -0.2306 | V | N. Simmons | 0.0013 |
| RZ Lyr | 56457.7699 | 29877 | -0.0423 | V | N. Simmons | 0.0012 |
| RZ Lyr | 56457.7718 | 29877 | -0.0404 | V | G. Samolyk | 0.0014 |
| ST Oph | 56464.6937 | 62258 | -0.0223 | V | G. Samolyk | 0.0012 |
| AE Peg | 56128.9017 | 33659 | -0.0542 | V | F.J. Hamsch | 0.0043 |
| AE Peg | 56129.8934 | 33661 | -0.0559 | V | F.J. Hamsch | 0.0029 |
| AE Peg | 56130.8873 | 33663 | -0.0554 | V | F.J. Hamsch | 0.0034 |
| AE Peg | 56131.8788 | 33665 | -0.0574 | V | F.J. Hamsch | 0.0031 |
| AE Peg | 56132.8723 | 33667 | -0.0573 | V | F.J. Hamsch | 0.0026 |
| AE Peg | 56134.8590 | 33671 | -0.0574 | V | F.J. Hamsch | 0.0027 |
| AE Peg | 56140.8218 | 33683 | -0.0551 | V | F.J. Hamsch | 0.0026 |
| AV Peg | 56519.8052 | 32608 | 0.1510 | V | R. Sabo | 0.0008 |
| AV Peg | 56537.7677 | 32654 | 0.1562 | V | G. Samolyk | 0.0014 |
| AV Peg | 56566.6521 | 32728 | 0.1529 | V | R. Sabo | 0.0012 |
| AV Peg | 56574.4640 | 32748 | 0.1573 | V | T. Arranz | 0.0007 |
| AV Peg | 56576.4112 | 32753 | 0.1527 | V | T. Arranz | 0.0007 |
| AV Peg | 56583.4381 | 32771 | 0.1528 | V | T. Arranz | 0.0007 |
| AV Peg | 56608.4231 | 32835 | 0.1538 | V | T. Arranz | 0.0008 |
| AV Peg | 56610.3717 | 32840 | 0.1506 | V | T. Arranz | 0.0007 |
| AV Peg | 56614.6678 | 32851 | 0.1525 | V | R. Sabo | 0.0009 |
| AV Peg | 56619.3485 | 32863 | 0.1487 | V | T. Arranz | 0.0004 |
| AV Peg | 56630.2823 | 32891 | 0.1520 | V | T. Arranz | 0.0006 |
| DF Ser | 56488.7023 | 61176 | 0.0940 | V | G. Samolyk | 0.0011 |
| RV UMa | 56340.9068 | 24068 | 0.1277 | V | G. Samolyk | 0.0024 |
| RV UMa | 56403.6239 | 24202 | 0.1248 | V | N. Simmons | 0.0009 |
| AE UMa | 56428.4637 | 242093 | -0.0012 | V | M. Rodríguez | 0.0005 |
| AE UMa | 56458.3993 | 242441 | 0.0005 | V | M. Rodríguez | 0.0010 |
| AE UMa | 56610.7385 | 244212 | 0.0035 | V | G. Samolyk | 0.0007 |
| AE UMa | 56610.8199 | 244213 | -0.0012 | V | G. Samolyk | 0.0006 |
| AE UMa | 56610.9054 | 244214 | -0.0017 | V | G. Samolyk | 0.0008 |
| AE UMa | 56615.7275 | 244270 | 0.0035 | V | G. Samolyk | 0.0005 |
| AE UMa | 56615.8091 | 244271 | -0.0009 | V | G. Samolyk | 0.0005 |
| AE UMa | 56615.8948 | 244272 | -0.0013 | V | G. Samolyk | 0.0008 |
| AE UMa | 56615.9849 | 244273 | 0.0028 | V | G. Samolyk | 0.0013 |

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> |
|-------------|---|--------------|------------|----------|-----------------|--------------|
| AE UMa | 56619.7701 | 244317 | 0.0033 | V | G. Samolyk | 0.0008 |
| AE UMa | 56620.7171 | 244328 | 0.0041 | V | G. Samolyk | 0.0006 |
| AE UMa | 56620.7979 | 244329 | -0.0011 | V | G. Samolyk | 0.0004 |
| AE UMa | 56620.8839 | 244330 | -0.0011 | V | G. Samolyk | 0.0008 |
| AE UMa | 56633.7012 | 244479 | -0.0004 | V | G. Samolyk | 0.0005 |
| AE UMa | 56633.7859 | 244480 | -0.0017 | V | G. Samolyk | 0.0007 |
| AE UMa | 56633.8762 | 244481 | 0.0026 | V | G. Samolyk | 0.0013 |
| AE UMa | 56633.9627 | 244482 | 0.0031 | V | G. Samolyk | 0.0007 |
| AE UMa | 56655.7221 | 244735 | 0.0001 | V | G. Samolyk | 0.0003 |
| GW UMa | 56403.5425 | 21672 | 0.0018 | V | M. Rodríguez | 0.0010 |
| GW UMa | 56436.4588 | 21834 | 0.0007 | V | M. Rodríguez | 0.0014 |