

Visual Times of Maxima for Short Period Pulsating Stars IV

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Abstract This compilation contains 556 times of maxima of 8 short period pulsating stars (primarily RR Lyrae type): TW Her, VX Her, AR Her, DY Her, SZ Hya, UU Hya, DG Hya, DH Hya. These were reduced from a portion of the visual observations made from 1966 to 2014 that are included in the AAVSO International Database.

1. Observations

This is the fourth in a series of papers to publish of times of maxima derived from visual observations reported to the AAVSO International Database as part of the AAVSO RR Lyr Committee legacy program. The goal of this project is to fill some historical gaps in the O–C history for these stars. This list contains times of maxima for RR Lyr stars located in the constellations Hercules and Hydra. This list will be web-archived and made available through the AAVSO ftp site at <ftp://ftp.aavso.org/public/datasets/gsamj462vismax4.txt>

These observations were reduced by the writer using the PERANSO program (Vanmunster 2007). The linear elements in the *General Catalogue of Variable Stars* (Kholopov *et al.* 1985) were used to compute the O–C values for all stars.

Figures 1, 2, and 3 are O–C plots for three of the stars included in Table 1. These plots include the visual times of maxima listed in this paper plus more recent times of maxima observed

with CCDs. The circled CCD times of maxima on the plots were previously published in *JAASO* (Samolyk 2010–2018).

References

- 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.
- Samolyk, G. 2011, *J. Amer. Assoc. Var. Star Obs.*, **39**, 23.
- Samolyk, G. 2012, *J. Amer. Assoc. Var. Star Obs.*, **40**, 923.
- Samolyk, G. 2013, *J. Amer. Assoc. Var. Star Obs.*, **41**, 85.
- Samolyk, G. 2014, *J. Amer. Assoc. Var. Star Obs.*, **42**, 124.
- Samolyk, G. 2015, *J. Amer. Assoc. Var. Star Obs.*, **43**, 74.
- Samolyk, G. 2016, *J. Amer. Assoc. Var. Star Obs.*, **44**, 66.
- Samolyk, G. 2017, *J. Amer. Assoc. Var. Star Obs.*, **45**, 116.
- Samolyk, G. 2018, *J. Amer. Assoc. Var. Star Obs.*, **46**, 74.
- Vanmunster, T. 2007, PERANSO period analysis software (<http://www.peranso.com>).

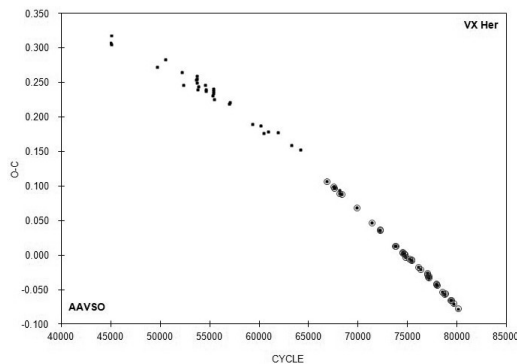


Figure 1. O–C plot for VX Her. The fundamental period of this star has been slowly decreasing since 1974.

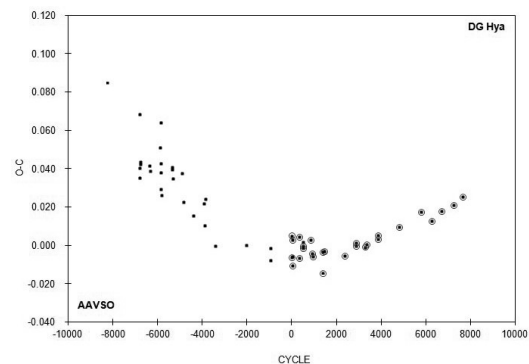


Figure 3. O–C plot for DG Hya. The fundamental period of this star has been increasing since 1985.

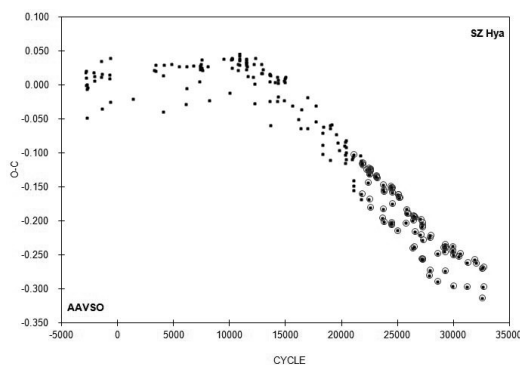


Figure 2. O–C plot for SZ Hya. There have been two significant changes in the fundamental period of this star since 1966.

Table 1. Recent times of minima 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>(day)</i>	<i>Observer</i>	<i>Error</i> <i>(day)</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i> <i>(day)</i>	<i>Observer</i>	<i>Error</i> <i>(day)</i>
TW Her	44727.634	58014	-0.001	M. Baldwin	0.003	TW Her	53992.349	81199	-0.014	S. Swierczynski	0.002
TW Her	44866.698	58362	0.002	M. Heifner	0.003	TW Her	53996.348	81209	-0.011	S. Swierczynski	0.004
TW Her	44870.689	58372	-0.002	M. Heifner	0.003	TW Her	54002.340	81224	-0.013	S. Swierczynski	0.005
TW Her	45465.699	59861	0.003	M. Baldwin	0.003	TW Her	54008.334	81239	-0.013	S. Swierczynski	0.003
TW Her	45493.673	59931	0.006	M. Baldwin	0.004	TW Her	54682.460	82926	-0.013	S. Swierczynski	0.003
TW Her	45509.652	59971	0.000	G. Chaple	0.004	VX Her	42230.727	44974	0.307	H. Smith	0.004
TW Her	45511.650	59976	0.000	G. Chaple	0.003	VX Her	42236.645	44987	0.305	H. Smith	0.004
TW Her	45515.650	59986	0.004	G. Chaple	0.004	VX Her	42241.667	44998	0.318	H. Smith	0.003
TW Her	46173.796	61633	0.009	M. Baldwin	0.004	VX Her	44368.668	49669	0.273	M. Baldwin	0.003
TW Her	46181.782	61653	0.002	M. Baldwin	0.003	VX Her	44746.638	50499	0.283	M. Baldwin	0.003
TW Her	46193.768	61683	0.001	M. Baldwin	0.005	VX Her	45490.699	52133	0.265	M. Baldwin	0.006
TW Her	46205.751	61713	-0.004	M. Baldwin	0.003	VX Her	45562.630	52291	0.247	G. Chaple	0.004
TW Her	46211.749	61728	0.000	M. Baldwin	0.004	VX Her	46142.782	53565	0.254	M. Baldwin	0.004
TW Her	46233.732	61783	0.005	M. Baldwin	0.003	VX Her	46173.748	53633	0.255	M. Baldwin	0.006
TW Her	46275.688	61888	0.003	M. Baldwin	0.005	VX Her	46178.752	53644	0.250	M. Baldwin	0.006
TW Her	46289.676	61923	0.005	M. Baldwin	0.007	VX Her	46194.700	53679	0.260	M. Baldwin	0.005
TW Her	46325.644	62013	0.008	M. Heifner	0.003	VX Her	46210.619	53714	0.240	M. Baldwin	0.004
TW Her	46329.643	62023	0.011	M. Baldwin	0.004	VX Her	46239.767	53778	0.245	M. Baldwin	0.005
TW Her	46916.647	63492	0.003	M. Baldwin	0.002	VX Her	46571.736	54507	0.247	R. Hill	0.004
TW Her	46939.827	63550	0.007	P. Atwood	0.005	VX Her	46591.766	54551	0.240	R. Hill	0.006
TW Her	47676.680	65394	-0.004	M. Baldwin	0.002	VX Her	46602.692	54575	0.238	R. Hill	0.004
TW Her	47788.573	65674	0.002	M. Baldwin	0.003	VX Her	46914.616	55260	0.232	M. Baldwin	0.003
TW Her	47790.572	65679	0.003	M. Baldwin	0.002	VX Her	46939.668	55315	0.238	M. Baldwin	0.004
TW Her	47794.569	65689	0.004	M. Baldwin	0.003	VX Her	46944.674	55326	0.235	M. Baldwin	0.003
TW Her	47796.566	65694	0.003	M. Baldwin	0.004	VX Her	46947.868	55333	0.241	P. Atwood	0.004
TW Her	47804.550	65714	-0.005	M. Baldwin	0.003	VX Her	46968.800	55379	0.226	R. Hill	0.005
TW Her	47808.554	65724	0.002	M. Baldwin	0.003	VX Her	47678.720	56938	0.220	R. Hill	0.004
TW Her	47810.557	65729	0.008	M. Baldwin	0.003	VX Her	47703.768	56993	0.222	R. Hill	0.005
TW Her	48006.752	66220	-0.001	M. Baldwin	0.003	VX Her	48744.718	59279	0.190	M. Baldwin	0.003
TW Her	48188.568	66675	-0.003	M. Baldwin	0.003	VX Her	49117.666	60098	0.188	M. Baldwin	0.005
TW Her	48190.568	66680	-0.001	M. Baldwin	0.002	VX Her	49250.624	60390	0.177	M. Baldwin	0.004
TW Her	48194.566	66690	0.001	M. Baldwin	0.005	VX Her	49474.670	60882	0.179	M. Baldwin	0.005
TW Her	48196.571	66695	0.008	M. Baldwin	0.004	VX Her	49928.675	61879	0.177	M. Baldwin	0.004
TW Her	48202.554	66710	-0.003	M. Baldwin	0.003	VX Her	50539.767	63221	0.160	M. Baldwin	0.003
TW Her	48208.554	66725	0.003	M. Baldwin	0.003	VX Her	50957.793	64139	0.153	R. Hill	0.005
TW Her	48210.545	66730	-0.004	M. Baldwin	0.006	VX Her	52494.621	67514	0.098	R. Berg	0.006
TW Her	48414.743	67241	-0.001	M. Baldwin	0.002	VX Her	52556.552	67650	0.098	R. Berg	0.003
TW Her	48444.715	67316	0.000	M. Baldwin	0.003	VX Her	52757.823	68092	0.094	R. Hill	0.004
TW Her	48452.709	67336	0.002	M. Baldwin	0.003	VX Her	52812.462	68212	0.089	T. Fabjan	0.005
TW Her	48454.702	67341	-0.003	M. Baldwin	0.004	AR Her	39668.702	-3798	-0.479	M. Baldwin	0.006
TW Her	48480.673	67406	-0.006	M. Baldwin	0.003	AR Her	44431.950	6336	-0.494	G. Samolyk	0.007
TW Her	48482.673	67411	-0.003	M. Baldwin	0.004	AR Her	44792.515	7103	-0.441	G. Samolyk	0.005
TW Her	48484.673	67416	-0.002	M. Baldwin	0.003	AR Her	46174.735	10044	-0.573	M. Baldwin	0.006
TW Her	48508.652	67476	0.001	M. Baldwin	0.003	AR Her	46181.744	10059	-0.615	M. Baldwin	0.006
TW Her	48526.628	67521	-0.005	M. Baldwin	0.005	AR Her	46206.668	10112	-0.602	M. Baldwin	0.007
TW Her	48546.616	67571	0.004	M. Baldwin	0.004	AR Her	46211.832	10123	-0.608	M. Baldwin	0.005
TW Her	48894.662	68442	-0.003	M. Baldwin	0.003	AR Her	46247.626	10199	-0.537	G. Samolyk	0.003
TW Her	49129.624	69030	-0.005	M. Baldwin	0.003	AR Her	46253.709	10212	-0.564	M. Baldwin	0.006
TW Her	49133.627	69040	0.002	M. Baldwin	0.005	AR Her	46270.638	10248	-0.556	G. Samolyk	0.006
TW Her	49857.698	70852	-0.003	M. Baldwin	0.004	AR Her	46324.675	10363	-0.572	M. Baldwin	0.004
TW Her	49859.699	70857	0.000	M. Baldwin	0.004	AR Her	46325.601	10365	-0.586	M. Baldwin	0.006
TW Her	49873.681	70892	-0.004	M. Baldwin	0.004	AR Her	46333.590	10382	-0.588	M. Baldwin	0.005
TW Her	49901.653	70962	-0.003	M. Baldwin	0.003	AR Her	46348.593	10414	-0.626	M. Baldwin	0.007
TW Her	49953.605	71092	0.000	M. Baldwin	0.003	AR Her	46511.721	10761	-0.597	M. Baldwin	0.006
TW Her	49955.602	71097	0.000	M. Baldwin	0.004	AR Her	46520.666	10780	-0.583	M. Baldwin	0.003
TW Her	49965.589	71122	-0.003	M. Baldwin	0.005	AR Her	46526.755	10793	-0.604	M. Baldwin	0.006
TW Her	50351.607	72088	0.001	M. Baldwin	0.003	AR Her	46527.682	10795	-0.617	M. Baldwin	0.003
TW Her	50539.813	72559	-0.005	M. Baldwin	0.005	AR Her	46606.693	10963	-0.571	G. Samolyk	0.006
TW Her	50541.814	72564	-0.002	M. Baldwin	0.004	AR Her	46654.598	11065	-0.609	G. Samolyk	0.007
TW Her	50957.793	73605	-0.007	R. Hill	0.004	AR Her	46659.742	11076	-0.635	G. Samolyk	0.003
TW Her	51021.733	73765	-0.003	R. Berg	0.004	AR Her	46678.584	11116	-0.594	G. Samolyk	0.003
TW Her	51025.721	73775	-0.011	R. Berg	0.003	AR Her	46701.631	11165	-0.579	M. Baldwin	0.007
TW Her	51318.630	74508	-0.008	M. Baldwin	0.003	AR Her	46709.597	11182	-0.603	G. Samolyk	0.004
TW Her	51397.754	74706	-0.005	M. Baldwin	0.003	AR Her	46725.541	11216	-0.640	M. Baldwin	0.006
TW Her	51439.704	74811	-0.013	M. Baldwin	0.005	AR Her	46831.807	11442	-0.600	M. Baldwin	0.003
TW Her	53990.353	81194	-0.011	S. Swierczynski	0.004	AR Her	46888.672	11563	-0.609	M. Baldwin	0.007

Table continued on following pages

Table 1. Recent times of minima 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>Observer</i>	<i>Error (day)</i>	<i>Star</i>	<i>JD (max) Hel. 2400000+</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>Observer</i>	<i>Error (day)</i>
AR Her	46905.589	11599	-0.613	M. Baldwin	0.006	AR Her	49965.652	18110	-0.902	M. Baldwin	0.003
AR Her	46910.729	11610	-0.643	M. Baldwin	0.004	AR Her	50006.529	18197	-0.918	G. Samolyk	0.003
AR Her	46911.702	11612	-0.610	M. Baldwin	0.006	AR Her	50284.749	18789	-0.954	G. Samolyk	0.002
AR Her	46912.608	11614	-0.644	M. Baldwin	0.003	AR Her	50286.636	18793	-0.947	G. Chaple	0.002
AR Her	46920.621	11631	-0.622	G. Samolyk	0.005	AR Her	50301.712	18825	-0.912	M. Baldwin	0.005
AR Her	46935.661	11663	-0.623	M. Baldwin	0.005	AR Her	50302.642	18827	-0.922	M. Baldwin	0.004
AR Her	46942.683	11678	-0.651	M. Baldwin	0.006	AR Her	50326.591	18878	-0.945	M. Baldwin	0.003
AR Her	46948.829	11691	-0.615	M. Baldwin	0.005	AR Her	50542.820	19338	-0.928	M. Baldwin	0.008
AR Her	46951.641	11697	-0.624	G. Samolyk	0.002	AR Her	50575.676	19408	-0.974	M. Baldwin	0.005
AR Her	46974.674	11746	-0.622	M. Baldwin	0.005	AR Her	50614.686	19491	-0.977	G. Samolyk	0.004
AR Her	46997.731	11795	-0.596	M. Baldwin	0.005	AR Her	50726.567	19729	-0.962	G. Samolyk	0.003
AR Her	47022.641	11848	-0.598	M. Baldwin	0.004	AR Her	50950.768	20206	-0.965	G. Samolyk	0.003
AR Her	47037.639	11880	-0.641	M. Baldwin	0.003	AR Her	50957.803	20221	-0.980	R. Hill	0.006
AR Her	47038.573	11882	-0.647	M. Baldwin	0.005	AR Her	50965.768	20238	-1.006	R. Hill	0.008
AR Her	47086.552	11984	-0.611	M. Baldwin	0.004	AR Her	50967.668	20242	-0.986	R. Berg	0.006
AR Her	47232.685	12295	-0.656	M. Baldwin	0.006	AR Her	50981.780	20272	-0.975	R. Hill	0.007
AR Her	47241.651	12314	-0.621	M. Baldwin	0.005	AR Her	50991.634	20293	-0.991	M. Baldwin	0.005
AR Her	47248.699	12329	-0.623	M. Baldwin	0.003	AR Her	51005.762	20323	-0.964	R. Berg	0.004
AR Her	47264.638	12363	-0.665	M. Baldwin	0.003	AR Her	51006.693	20325	-0.973	G. Samolyk	0.002
AR Her	47271.712	12378	-0.642	M. Baldwin	0.005	AR Her	51006.714	20325	-0.952	R. Berg	0.006
AR Her	47295.671	12429	-0.654	G. Samolyk	0.004	AR Her	51007.642	20327	-0.964	M. Baldwin	0.003
AR Her	47308.825	12457	-0.661	R. Hill	0.006	AR Her	51012.795	20338	-0.981	G. Samolyk	0.004
AR Her	47325.747	12493	-0.660	M. Baldwin	0.004	AR Her	51021.698	20357	-1.009	R. Berg	0.005
AR Her	47358.633	12563	-0.676	M. Baldwin	0.004	AR Her	51045.708	20408	-0.970	R. Berg	0.005
AR Her	47382.637	12614	-0.643	M. Baldwin	0.004	AR Her	51046.635	20410	-0.983	M. Baldwin	0.004
AR Her	47390.608	12631	-0.663	M. Baldwin	0.006	AR Her	51069.670	20459	-0.980	G. Samolyk	0.004
AR Her	47406.620	12665	-0.632	M. Baldwin	0.004	AR Her	51069.678	20459	-0.972	M. Baldwin	0.005
AR Her	47632.691	13146	-0.644	G. Samolyk	0.005	AR Her	51109.598	20544	-1.004	G. Samolyk	0.004
AR Her	47670.743	13227	-0.664	R. Hill	0.004	AR Her	51319.697	20991	-1.008	M. Baldwin	0.006
AR Her	47685.808	13259	-0.640	M. Baldwin	0.009	AR Her	51421.709	21208	-0.992	M. Baldwin	0.004
AR Her	47687.674	13263	-0.654	M. Baldwin	0.004	AR Her	51423.591	21212	-0.990	M. Baldwin	0.004
AR Her	47688.621	13265	-0.647	M. Baldwin	0.006	AR Her	51428.751	21223	-1.000	M. Baldwin	0.006
AR Her	47712.610	13316	-0.630	G. Samolyk	0.003	AR Her	51429.681	21225	-1.010	M. Baldwin	0.005
AR Her	47718.701	13329	-0.649	M. Baldwin	0.005	AR Her	51437.645	21242	-1.037	M. Baldwin	0.005
AR Her	47733.723	13361	-0.668	M. Baldwin	0.004	AR Her	51486.568	21346	-0.997	M. Baldwin	0.004
AR Her	47773.661	13446	-0.682	M. Baldwin	0.005	AR Her	51657.607	21710	-1.048	M. Baldwin	0.006
AR Her	47790.602	13482	-0.662	G. Samolyk	0.003	AR Her	51664.661	21725	-1.044	M. Baldwin	0.005
AR Her	47790.611	13482	-0.653	M. Baldwin	0.005	AR Her	51805.651	22025	-1.063	G. Samolyk	0.006
AR Her	47798.594	13499	-0.661	G. Samolyk	0.005	AR Her	51813.643	22042	-1.061	G. Samolyk	0.006
AR Her	47807.547	13518	-0.639	M. Baldwin	0.004	AR Her	51814.594	22044	-1.050	M. Baldwin	0.005
AR Her	47978.619	13882	-0.657	M. Baldwin	0.005	AR Her	52471.693	23442	-1.050	R. Berg	0.003
AR Her	48000.713	13929	-0.654	M. Baldwin	0.005	AR Her	52487.657	23476	-1.067	R. Berg	0.004
AR Her	48048.654	14031	-0.656	R. Hill	0.006	AR Her	52494.697	23491	-1.078	R. Berg	0.004
AR Her	48415.644	14812	-0.758	M. Baldwin	0.005	AR Her	55387.486	29646	-1.311	J. Starzomski	0.004
AR Her	48421.806	14825	-0.706	M. Baldwin	0.004	DY Her	39672.643	41937	0.003	M. Baldwin	0.003
AR Her	48445.740	14876	-0.744	M. Baldwin	0.005	DY Her	39672.791	41938	0.003	M. Baldwin	0.005
AR Her	48452.836	14891	-0.698	M. Baldwin	0.003	DY Her	39686.758	42032	-0.002	M. Baldwin	0.005
AR Her	48526.607	15048	-0.721	M. Baldwin	0.004	DY Her	44771.727	76244	-0.008	M. Heifner	0.002
AR Her	48744.674	15512	-0.747	M. Baldwin	0.005	DY Her	44778.713	76291	-0.008	M. Heifner	0.002
AR Her	48773.814	15574	-0.749	G. Samolyk	0.005	DY Her	45465.690	80913	-0.005	M. Baldwin	0.006
AR Her	48822.659	15678	-0.787	M. Baldwin	0.003	DY Her	45520.684	81283	-0.005	M. Heifner	0.004
AR Her	48885.630	15812	-0.800	G. Samolyk	0.004	DY Her	45535.697	81384	-0.004	M. Heifner	0.002
AR Her	48893.623	15829	-0.797	G. Samolyk	0.003	DY Her	45556.651	81525	-0.007	G. Chaple	0.002
AR Her	49213.687	16510	-0.822	M. Baldwin	0.005	DY Her	46194.720	85818	-0.012	M. Baldwin	0.006
AR Her	49254.601	16597	-0.801	G. Samolyk	0.003	DY Her	46211.826	85933	0.001	M. Baldwin	0.005
AR Her	49278.547	16648	-0.826	G. Samolyk	0.004	DY Her	46944.718	90864	-0.008	M. Baldwin	0.003
AR Her	49423.782	16957	-0.830	M. Baldwin	0.005	DY Her	46948.730	90891	-0.009	M. Baldwin	0.003
AR Her	49480.659	17078	-0.826	G. Samolyk	0.003	DY Her	46973.701	91059	-0.008	M. Baldwin	0.003
AR Her	49614.571	17363	-0.872	M. Baldwin	0.004	DY Her	46974.746	91066	-0.003	M. Baldwin	0.003
AR Her	49637.621	17412	-0.854	G. Samolyk	0.004	DY Her	47027.647	91422	-0.015	M. Baldwin	0.004
AR Her	49832.670	17827	-0.866	M. Baldwin	0.003	DY Her	47388.684	93851	-0.004	M. Baldwin	0.004
AR Her	49900.786	17972	-0.904	M. Baldwin	0.005	DY Her	47412.609	94012	-0.008	M. Baldwin	0.002
AR Her	49901.729	17974	-0.901	M. Baldwin	0.004	DY Her	47676.722	95789	-0.013	M. Baldwin	0.004
AR Her	49918.672	18010	-0.879	M. Baldwin	0.008	DY Her	47683.715	95836	-0.006	M. Baldwin	0.005
AR Her	49926.662	18027	-0.880	M. Baldwin	0.006	DY Her	47748.663	96273	-0.010	M. Baldwin	0.004
AR Her	49957.674	18093	-0.890	M. Baldwin	0.005	DY Her	48004.748	97996	-0.017	M. Baldwin	0.004

Table continued on following pages

Table 1. Recent times of minima 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>Observer</i>	<i>Error (day)</i>	<i>Star</i>	<i>JD (max) Hel. 2400000+</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>Observer</i>	<i>Error (day)</i>
DY Her	48061.680	98379	-0.010	M. Baldwin	0.003	SZ Hya	46517.640	10867	0.039	M. Baldwin	0.003
DY Her	48065.687	98406	-0.016	M. Baldwin	0.002	SZ Hya	46518.722	10869	0.046	M. Baldwin	0.005
DY Her	48067.775	98420	-0.009	M. Baldwin	0.003	SZ Hya	46532.688	10895	0.044	M. Baldwin	0.006
DY Her	48151.600	98984	-0.012	M. Baldwin	0.003	SZ Hya	46829.771	11448	0.033	M. Baldwin	0.003
DY Her	49076.835	105209	-0.008	M. Baldwin	0.006	SZ Hya	46835.671	11459	0.023	G. Samolyk	0.003
DY Her	49161.696	105780	-0.015	M. Baldwin	0.006	SZ Hya	46850.727	11487	0.037	M. Baldwin	0.004
DY Her	49482.742	107940	-0.013	M. Baldwin	0.003	SZ Hya	46857.705	11500	0.030	M. Baldwin	0.005
DY Her	49488.692	107980	-0.008	M. Baldwin	0.006	SZ Hya	46857.713	11500	0.038	G. Samolyk	0.002
DY Her	49859.675	110476	-0.009	M. Baldwin	0.004	SZ Hya	46858.782	11502	0.033	M. Baldwin	0.004
DY Her	49868.738	110537	-0.012	M. Baldwin	0.003	SZ Hya	46878.655	11539	0.028	M. Baldwin	0.004
DY Her	51436.647	121086	-0.016	M. Baldwin	0.004	SZ Hya	46914.635	11606	0.013	M. Baldwin	0.003
DY Her	52487.622	128157	-0.013	R. Berg	0.003	SZ Hya	47161.765	12066	0.013	G. Samolyk	0.004
DY Her	52489.700	128171	-0.016	R. Berg	0.006	SZ Hya	47219.805	12174	0.031	G. Samolyk	0.003
SZ Hya	39140.775	-2864	0.019	M. Baldwin	0.002	SZ Hya	47231.596	12196	0.002	M. Baldwin	0.004
SZ Hya	39148.815	-2849	0.000	M. Baldwin	0.006	SZ Hya	47232.642	12198	-0.026	M. Baldwin	0.005
SZ Hya	39168.704	-2812	0.011	M. Baldwin	0.006	SZ Hya	47267.629	12263	0.040	M. Baldwin	0.004
SZ Hya	39169.788	-2810	0.021	M. Baldwin	0.005	SZ Hya	47557.730	12803	0.031	M. Baldwin	0.004
SZ Hya	39182.613	-2786	-0.048	M. Baldwin	0.006	SZ Hya	47558.791	12805	0.018	M. Baldwin	0.004
SZ Hya	39197.705	-2758	0.002	M. Baldwin	0.007	SZ Hya	47585.653	12855	0.018	M. Baldwin	0.005
SZ Hya	39204.682	-2745	-0.006	M. Baldwin	0.006	SZ Hya	47621.653	12922	0.023	M. Baldwin	0.006
SZ Hya	39225.637	-2706	-0.003	M. Baldwin	0.006	SZ Hya	47948.786	13531	-0.023	M. Baldwin	0.006
SZ Hya	39530.811	-2138	0.019	M. Baldwin	0.003	SZ Hya	47952.586	13538	0.016	G. Samolyk	0.002
SZ Hya	39556.593	-2090	0.013	M. Baldwin	0.002	SZ Hya	47954.724	13542	0.005	M. Baldwin	0.006
SZ Hya	39558.735	-2086	0.006	M. Baldwin	0.004	SZ Hya	47976.763	13583	0.017	M. Baldwin	0.008
SZ Hya	39890.755	-1468	0.012	M. Baldwin	0.004	SZ Hya	47997.639	13622	-0.059	M. Baldwin	0.005
SZ Hya	39896.688	-1457	0.035	M. Baldwin	0.007	SZ Hya	48004.697	13635	0.015	M. Baldwin	0.006
SZ Hya	39912.736	-1427	-0.034	M. Baldwin	0.007	SZ Hya	48216.897	14030	0.005	M. Baldwin	0.006
SZ Hya	39918.696	-1416	0.016	M. Baldwin	0.004	SZ Hya	48320.592	14223	0.012	M. Baldwin	0.005
SZ Hya	40293.689	-718	0.015	M. Baldwin	0.008	SZ Hya	48335.599	14251	-0.023	G. Samolyk	0.004
SZ Hya	40294.758	-716	0.010	M. Baldwin	0.005	SZ Hya	48357.633	14292	-0.016	M. Baldwin	0.006
SZ Hya	40321.650	-666	0.040	M. Baldwin	0.007	SZ Hya	48357.652	14292	0.003	G. Samolyk	0.004
SZ Hya	40323.734	-662	-0.025	M. Baldwin	0.007	SZ Hya	48379.684	14333	0.008	M. Baldwin	0.006
SZ Hya	41393.384	1329	-0.020	M. Baldwin	0.006	SZ Hya	48654.721	14845	-0.022	G. Samolyk	0.003
SZ Hya	42429.763	3258	0.022	M. Baldwin	0.004	SZ Hya	48661.734	14858	0.007	G. Samolyk	0.003
SZ Hya	42477.585	3347	0.030	M. Baldwin	0.004	SZ Hya	48682.684	14897	0.004	M. Baldwin	0.005
SZ Hya	42507.661	3403	0.021	M. Baldwin	0.003	SZ Hya	48683.764	14899	0.010	M. Baldwin	0.008
SZ Hya	42845.579	4032	0.014	M. Baldwin	0.002	SZ Hya	48718.687	14964	0.012	M. Baldwin	0.004
SZ Hya	42861.643	4062	-0.039	M. Baldwin	0.002	SZ Hya	49064.627	15608	-0.030	G. Samolyk	0.005
SZ Hya	42874.605	4086	0.029	M. Baldwin	0.003	SZ Hya	49333.765	16109	-0.050	G. Samolyk	0.002
SZ Hya	43242.616	4771	0.031	M. Baldwin	0.003	SZ Hya	49433.678	16295	-0.063	M. Baldwin	0.005
SZ Hya	43610.622	5456	0.027	M. Baldwin	0.004	SZ Hya	49483.669	16388	-0.036	M. Baldwin	0.006
SZ Hya	43935.597	6061	-0.028	M. Baldwin	0.003	SZ Hya	49778.586	16937	-0.064	M. Baldwin	0.006
SZ Hya	43970.573	6126	0.027	G. Samolyk	0.003	SZ Hya	49787.765	16954	-0.018	M. Baldwin	0.005
SZ Hya	43986.658	6156	-0.005	G. Samolyk	0.005	SZ Hya	50169.707	17665	-0.053	M. Baldwin	0.005
SZ Hya	44317.632	6772	0.029	M. Baldwin	0.004	SZ Hya	50190.683	17704	-0.030	M. Baldwin	0.004
SZ Hya	44608.793	7314	0.006	G. Samolyk	0.004	SZ Hya	50488.793	18259	-0.088	G. Samolyk	0.003
SZ Hya	44622.779	7340	0.024	G. Samolyk	0.003	SZ Hya	50492.572	18266	-0.070	G. Samolyk	0.005
SZ Hya	44629.766	7353	0.027	G. Samolyk	0.002	SZ Hya	50514.567	18307	-0.102	G. Samolyk	0.003
SZ Hya	44629.768	7353	0.029	G. Hanson	0.004	SZ Hya	50523.741	18324	-0.061	G. Samolyk	0.004
SZ Hya	44672.750	7433	0.031	G. Samolyk	0.004	SZ Hya	50869.726	18968	-0.058	M. Baldwin	0.006
SZ Hya	44686.724	7459	0.037	G. Hanson	0.003	SZ Hya	50870.796	8970	-0.063	R. Hill	0.006
SZ Hya	44700.680	7485	0.025	M. Heifner	0.005	SZ Hya	50876.659	18981	-0.110	R. Hill	0.006
SZ Hya	44736.672	7552	0.022	G. Samolyk	0.004	SZ Hya	50926.674	19074	-0.058	G. Samolyk	0.003
SZ Hya	44995.628	8034	0.028	G. Samolyk	0.003	SZ Hya	51160.896	19510	-0.073	G. Samolyk	0.003
SZ Hya	45060.584	8155	-0.022	G. Samolyk	0.003	SZ Hya	51223.741	19627	-0.085	G. Samolyk	0.007
SZ Hya	45753.685	9445	0.039	G. Samolyk	0.004	SZ Hya	51308.614	19785	-0.096	M. Baldwin	0.005
SZ Hya	46058.787	10013	-0.011	M. Baldwin	0.006	SZ Hya	51549.842	20234	-0.089	M. Baldwin	0.005
SZ Hya	46114.709	10117	0.038	M. Baldwin	0.006	SZ Hya	51583.674	20297	-0.103	M. Baldwin	0.004
SZ Hya	46142.647	10169	0.039	M. Baldwin	0.005	SZ Hya	51603.571	20334	-0.084	M. Baldwin	0.005
SZ Hya	46142.648	10169	0.040	G. Samolyk	0.004	SZ Hya	51606.764	20340	-0.114	R. Hill	0.006
SZ Hya	46143.708	10171	0.026	M. Baldwin	0.005	SZ Hya	51611.632	20349	-0.081	M. Baldwin	0.005
SZ Hya	46150.705	10184	0.039	M. Baldwin	0.006	SZ Hya	51633.641	20390	-0.099	M. Baldwin	0.004
SZ Hya	46435.435	10714	0.031	T. Cooper	0.005	SZ Hya	51633.649	20390	-0.091	G. Samolyk	0.003
SZ Hya	46436.500	10716	0.022	T. Cooper	0.004	SZ Hya	51640.615	20403	-0.109	M. Baldwin	0.005
SZ Hya	46511.722	10856	0.030	G. Samolyk	0.002	SZ Hya	51930.725	20943	-0.109	G. Samolyk	0.004
SZ Hya	46511.728	10856	0.036	M. Baldwin	0.005	SZ Hya	51937.712	20956	-0.106	G. Samolyk	0.005

Table continued on following pages

Table 1. Recent times of minima 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>Observer</i>	<i>Error (day)</i>	<i>Star</i>	<i>JD (max) Hel. 2400000+</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>Observer</i>	<i>Error (day)</i>
SZ Hya	51981.724	21038	-0.148	R. Hill	0.006	DG Hya	47586.671	-6348	0.039	M. Baldwin	0.004
SZ Hya	51988.701	21051	-0.155	R. Hill	0.007	DG Hya	47914.779	-5913	0.051	M. Baldwin	0.006
SZ Hya	51995.700	21064	-0.140	R. Hill	0.006	DG Hya	47942.673	-5876	0.038	M. Baldwin	0.009
SZ Hya	52319.693	21667	-0.103	M. Baldwin	0.004	DG Hya	47945.716	-5872	0.064	M. Baldwin	0.006
SZ Hya	52347.621	21719	-0.111	M. Baldwin	0.005	DG Hya	47948.698	-5868	0.029	M. Baldwin	0.006
SZ Hya	52356.698	21736	-0.167	R. Hill	0.006	DG Hya	47954.745	-5860	0.043	M. Baldwin	0.007
UU Hya	39178.795	-573	0.029	M. Baldwin	0.008	DG Hya	47976.602	-5831	0.026	M. Baldwin	0.007
UU Hya	39197.624	-537	-0.001	M. Baldwin	0.011	DG Hya	48320.550	-5375	0.039	M. Baldwin	0.007
UU Hya	39530.814	99	0.008	M. Baldwin	0.006	DG Hya	48335.636	-5355	0.041	M. Baldwin	0.005
UU Hya	39595.756	223	-0.010	M. Baldwin	0.007	DG Hya	48356.749	-5327	0.035	R. Hill	0.004
UU Hya	39912.666	828	-0.040	M. Baldwin	0.006	DG Hya	48654.678	-4932	0.038	M. Baldwin	0.008
UU Hya	39915.826	834	-0.023	M. Baldwin	0.005	DG Hya	48718.773	-4847	0.023	M. Baldwin	0.006
UU Hya	42832.726	6402	-0.023	M. Baldwin	0.004	DG Hya	49047.616	-4411	0.016	M. Baldwin	0.008
UU Hya	42843.734	6423	-0.016	M. Baldwin	0.004	DG Hya	49397.591	-3947	0.022	G. Samolyk	0.004
UU Hya	42844.788	6425	-0.010	M. Baldwin	0.004	DG Hya	49430.766	-3903	0.010	M. Baldwin	0.008
UU Hya	42863.631	6461	-0.026	M. Baldwin	0.008	DG Hya	49443.602	-3886	0.024	M. Baldwin	0.004
UU Hya	42874.645	6482	-0.013	M. Baldwin	0.005	DG Hya	49780.724	-3439	0.000	M. Baldwin	0.003
UU Hya	42886.702	6505	-0.005	M. Baldwin	0.005	DG Hya	50842.698	-2031	0.000	M. Baldwin	0.007
UU Hya	43610.679	7887	-0.015	M. Baldwin	0.004	DG Hya	51640.679	-973	-0.008	M. Baldwin	0.008
UU Hya	43631.609	7927	-0.039	M. Baldwin	0.004	DG Hya	51643.702	-969	-0.001	M. Baldwin	0.007
UU Hya	43960.622	8555	-0.015	M. Baldwin	0.007	DG Hya	52380.593	8	-0.006	M. Baldwin	0.006
UU Hya	44696.679	9960	0.007	M. Baldwin	0.005	DG Hya	52757.722	508	0.002	R. Hill	0.007
UU Hya	46114.775	12667	-0.009	M. Baldwin	0.005	DH Hya	39178.705	16365	0.005	M. Baldwin	0.004
UU Hya	46517.641	13436	0.002	M. Baldwin	0.003	DH Hya	39180.663	16369	0.007	M. Baldwin	0.003
UU Hya	46529.714	13459	0.026	M. Baldwin	0.008	DH Hya	39181.643	16371	0.009	M. Baldwin	0.005
UU Hya	46850.831	14072	0.012	M. Baldwin	0.005	DH Hya	39182.622	16373	0.010	M. Baldwin	0.005
UU Hya	46858.668	14087	-0.009	M. Baldwin	0.008	DH Hya	39197.772	16404	0.002	M. Baldwin	0.004
UU Hya	46881.753	14131	0.026	R. Hill	0.007	DH Hya	39200.709	16410	0.005	M. Baldwin	0.004
UU Hya	46912.632	14190	-0.003	M. Baldwin	0.004	DH Hya	39203.658	16416	0.020	M. Baldwin	0.006
UU Hya	47231.675	14799	0.003	M. Baldwin	0.005	DH Hya	39204.648	16418	0.032	M. Baldwin	0.008
UU Hya	47232.700	14801	-0.019	M. Baldwin	0.003	DH Hya	39225.646	16461	0.003	M. Baldwin	0.008
UU Hya	47241.637	14818	0.012	M. Baldwin	0.004	DH Hya	39528.831	17081	0.009	M. Baldwin	0.004
UU Hya	47243.741	14822	0.020	M. Baldwin	0.004	DH Hya	39530.783	17085	0.005	M. Baldwin	0.005
UU Hya	47594.707	15492	-0.005	M. Baldwin	0.005	DH Hya	39532.745	17089	0.011	M. Baldwin	0.004
UU Hya	47615.692	15532	0.025	R. Hill	0.009	DH Hya	39533.721	17091	0.009	M. Baldwin	0.003
UU Hya	47914.797	16103	0.001	M. Baldwin	0.004	DH Hya	39534.694	17093	0.004	M. Baldwin	0.002
UU Hya	47915.851	16105	0.007	M. Baldwin	0.005	DH Hya	39556.704	17138	0.009	M. Baldwin	0.004
UU Hya	47922.674	16118	0.020	M. Baldwin	0.002	DH Hya	39558.657	17142	0.006	M. Baldwin	0.003
UU Hya	47943.593	16158	-0.016	M. Baldwin	0.005	DH Hya	39582.618	17191	0.006	M. Baldwin	0.002
UU Hya	47954.621	16179	0.011	M. Baldwin	0.005	DH Hya	39886.780	17813	0.011	M. Baldwin	0.003
UU Hya	47955.669	16181	0.011	M. Baldwin	0.004	DH Hya	42491.667	23140	0.005	M. Baldwin	0.004
UU Hya	47976.615	16221	0.002	M. Baldwin	0.005	DH Hya	42843.744	23860	0.003	M. Baldwin	0.005
UU Hya	47977.643	16223	-0.017	M. Baldwin	0.006	DH Hya	42844.723	23862	0.004	M. Baldwin	0.004
UU Hya	47978.682	16225	-0.025	M. Baldwin	0.005	DH Hya	42845.706	23864	0.009	M. Baldwin	0.004
UU Hya	47999.674	16265	0.011	M. Baldwin	0.009	DH Hya	42871.616	23917	0.002	M. Baldwin	0.002
UU Hya	48000.725	16267	0.015	M. Baldwin	0.009	DH Hya	43226.622	24643	-0.005	M. Baldwin	0.003
UU Hya	48362.719	16958	0.015	M. Baldwin	0.006	DH Hya	43227.603	24645	-0.002	M. Baldwin	0.005
UU Hya	48658.686	17523	-0.003	M. Baldwin	0.005	DH Hya	43228.591	24647	0.008	M. Baldwin	0.005
UU Hya	48682.812	17569	0.025	M. Baldwin	0.004	DH Hya	43247.655	24686	0.001	M. Baldwin	0.003
UU Hya	48690.660	17584	0.016	M. Baldwin	0.005	DH Hya	43606.586	25420	0.008	M. Baldwin	0.005
UU Hya	48746.694	17691	-0.005	M. Baldwin	0.006	DH Hya	43960.624	26144	0.011	M. Baldwin	0.004
UU Hya	49417.759	18972	-0.015	M. Baldwin	0.004	DH Hya	43980.666	26185	0.004	M. Baldwin	0.004
UU Hya	49450.797	19035	0.019	M. Baldwin	0.006	DH Hya	43981.644	26187	0.004	M. Baldwin	0.005
UU Hya	49810.690	19722	0.014	M. Baldwin	0.006	DH Hya	43982.627	26189	0.009	M. Baldwin	0.004
UU Hya	50185.768	20438	0.002	R. Hill	0.006	DH Hya	44313.685	26866	0.015	M. Baldwin	0.007
UU Hya	50514.769	21066	0.014	M. Baldwin	0.004	DH Hya	44314.658	26868	0.010	M. Baldwin	0.005
UU Hya	50545.671	21125	0.008	M. Baldwin	0.007	DH Hya	44317.597	26874	0.015	M. Baldwin	0.004
UU Hya	50876.748	21757	0.000	R. Hill	0.006	DH Hya	46114.664	30549	0.014	M. Baldwin	0.004
UU Hya	51248.704	22467	0.010	M. Baldwin	0.005	DH Hya	46117.603	30555	0.019	M. Baldwin	0.006
DG Hya	46150.639	-8252	0.085	M. Baldwin	0.007	DH Hya	46490.705	31318	0.015	M. Baldwin	0.004
DG Hya	47227.648	-6824	0.035	M. Baldwin	0.008	DH Hya	46517.603	31373	0.018	M. Baldwin	0.003
DG Hya	47233.715	-6816	0.068	M. Baldwin	0.007	DH Hya	46845.721	32044	0.019	M. Baldwin	0.003
DG Hya	47245.755	-6800	0.040	R. Hill	0.006	DH Hya	46850.617	32054	0.025	M. Baldwin	0.004
DG Hya	47264.613	-6775	0.042	M. Baldwin	0.005	DH Hya	46914.664	32185	0.013	M. Baldwin	0.006
DG Hya	47267.631	-6771	0.043	M. Baldwin	0.007	DH Hya	46915.650	32187	0.021	G. Samolyk	0.004
DG Hya	47558.767	-6385	0.042	M. Baldwin	0.005	DH Hya	47204.643	32778	0.016	M. Baldwin	0.004

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Table 1. Recent times of minima 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>Observer</i>	<i>Error (day)</i>	<i>Star</i>	<i>JD (max) Hel. 2400000+</i>	<i>Cycle</i>	<i>O-C (day)</i>	<i>Observer</i>	<i>Error (day)</i>
DH Hya	47226.661	32823	0.029	M. Baldwin	0.005	DH Hya	49801.726	38089	0.030	M. Baldwin	0.003
DH Hya	47271.633	32915	0.013	M. Baldwin	0.003	DH Hya	50110.781	38721	0.038	M. Baldwin	0.004
DH Hya	47531.790	33447	0.023	M. Baldwin	0.003	DH Hya	50138.652	38778	0.036	M. Baldwin	0.002
DH Hya	47604.654	33596	0.026	G. Samolyk	0.004	DH Hya	50158.706	38819	0.041	M. Baldwin	0.003
DH Hya	47955.759	34314	0.031	M. Baldwin	0.006	DH Hya	50182.652	38868	0.026	M. Baldwin	0.004
DH Hya	48004.649	34414	0.021	M. Baldwin	0.003	DH Hya	50514.698	39547	0.042	M. Baldwin	0.004
DH Hya	48648.660	35731	0.021	M. Baldwin	0.003	DH Hya	50842.808	40218	0.034	M. Baldwin	0.003
DH Hya	49018.834	36488	0.024	M. Baldwin	0.003	DH Hya	50843.782	40220	0.030	R. Hill	0.008
DH Hya	49397.812	37263	0.028	M. Baldwin	0.003	DH Hya	50869.711	40273	0.042	M. Baldwin	0.003
DH Hya	49401.728	37271	0.032	M. Baldwin	0.004	DH Hya	50872.641	40279	0.039	M. Baldwin	0.003
DH Hya	49423.730	37316	0.029	M. Baldwin	0.005	DH Hya	51248.687	41048	0.045	M. Baldwin	0.002
DH Hya	49428.624	37326	0.033	M. Baldwin	0.003	DH Hya	52757.731	44134	0.040	R. Hill	0.008
DH Hya	49778.739	38042	0.025	M. Baldwin	0.003	DH Hya	52758.723	44136	0.054	R. Hill	0.008