

Visual Times of Maxima for Short Period Pulsating Stars I

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Received March 3, 2017; accepted March 3, 2017

Abstract This compilation contains 463 times of maxima of 6 short period pulsating stars (primarily RR Lyrae). 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 first 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 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 Andromeda, Aqrarius, and Auriga. This list will be web-archived and made available through the AAVSO ftp site at <ftp://ftp.aavso.org/public/datasets/gsam0-451-rrlyr-1.txt>.

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

Figures 1 and 2 are O–C plots for two of the stars listed.

References

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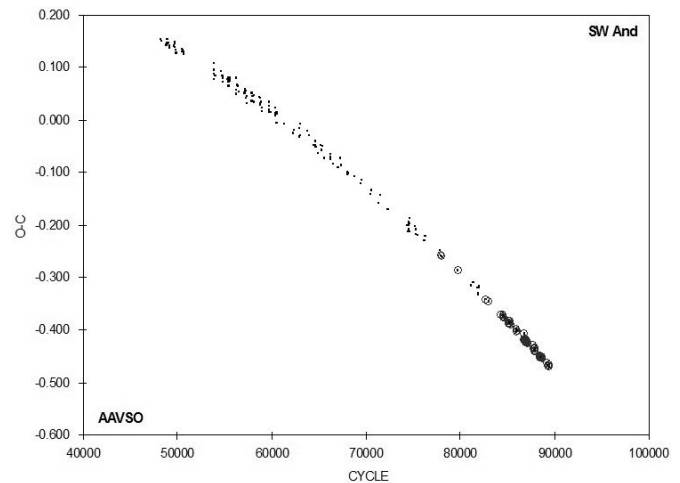


Figure 1. O–C plot for SW And. The circled times of maxima are from CCD papers published in *JAASO* (Samolyk 2010–2016).

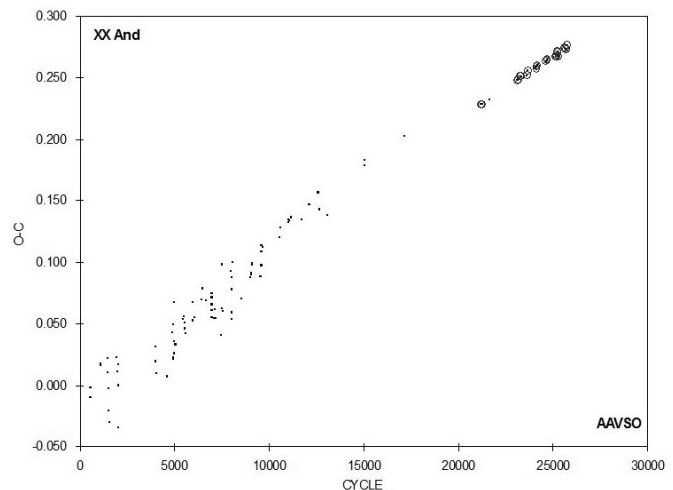


Figure 2. O–C plot for XX And. The circled times of maxima are from CCD papers published in *JAASO* (Samolyk 2010–2016).

Table 1. Recent times of minima of stars in the AAVSO short period pulsator program.

<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>
SW And	39471.603	48247	0.155	M. Baldwin	0.003	SW And	44132.673	58786	0.042	M. Baldwin	0.002
SW And	39505.655	48324	0.151	M. Baldwin	0.002	SW And	44136.653	58795	0.041	M. Baldwin	0.004
SW And	39757.746	48894	0.143	M. Baldwin	0.003	SW And	44140.620	58804	0.028	M. Baldwin	0.003
SW And	39761.731	48903	0.147	M. Baldwin	0.003	SW And	44194.584	58926	0.033	M. Baldwin	0.002
SW And	39772.794	48928	0.153	M. Baldwin	0.004	SW And	44216.682	58976	0.018	M. Baldwin	0.004
SW And	39800.648	48991	0.144	M. Baldwin	0.002	SW And	44217.572	58978	0.023	M. Baldwin	0.003
SW And	39823.650	49043	0.147	M. Baldwin	0.003	SW And	44539.562	59706	0.034	G. Hanson	0.005
SW And	39826.745	49050	0.146	M. Baldwin	0.003	SW And	44542.651	59713	0.027	G. Hanson	0.003
SW And	39884.675	49181	0.138	M. Baldwin	0.002	SW And	44550.604	59731	0.019	M. Baldwin	0.003
SW And	39892.639	49199	0.141	M. Baldwin	0.002	SW And	44554.584	59740	0.018	G. Hanson	0.003
SW And	40098.742	49665	0.142	M. Baldwin	0.003	SW And	44554.593	59740	0.027	M. Baldwin	0.002
SW And	40125.728	49726	0.148	M. Baldwin	0.004	SW And	44562.542	59758	0.015	G. Hanson	0.003
SW And	40128.815	49733	0.140	M. Baldwin	0.003	SW And	44623.577	59896	0.015	G. Hanson	0.003
SW And	40156.684	49796	0.145	M. Baldwin	0.002	SW And	44872.577	60459	0.012	M. Baldwin	0.003
SW And	40178.781	49846	0.128	M. Baldwin	0.003	SW And	44874.787	60464	0.011	L. Cook	0.004
SW And	40186.748	49864	0.134	M. Baldwin	0.003	SW And	44875.669	60466	0.008	M. Baldwin	0.003
SW And	40225.663	49952	0.128	T. Cragg	0.003	SW And	44876.567	60468	0.022	M. Baldwin	0.005
SW And	40455.650	50472	0.130	L. Hazel	0.004	SW And	44898.653	60518	-0.006	M. Baldwin	0.003
SW And	40478.653	50524	0.134	L. Hazel	0.004	SW And	44907.520	60538	0.015	M. Baldwin	0.002
SW And	40482.629	50533	0.130	L. Hazel	0.002	SW And	44926.534	60581	0.011	M. Baldwin	0.002
SW And	40512.707	50601	0.133	M. Baldwin	0.003	SW And	45266.627	61350	-0.009	G. Chaple	0.004
SW And	40562.677	50714	0.125	M. Baldwin	0.004	SW And	45672.623	62268	-0.025	G. Chaple	0.003
SW And	40566.662	50723	0.130	M. Baldwin	0.005	SW And	45699.607	62329	-0.021	G. Chaple	0.004
SW And	41972.647	53902	0.108	M. Baldwin	0.003	SW And	45989.729	62985	-0.034	M. Baldwin	0.005
SW And	41982.789	53925	0.078	M. Baldwin	0.003	SW And	45993.727	62994	-0.016	M. Baldwin	0.003
SW And	41983.682	53927	0.086	M. Baldwin	0.002	SW And	46005.654	63021	-0.031	M. Baldwin	0.004
SW And	41988.556	53938	0.095	M. Baldwin	0.003	SW And	46020.693	63055	-0.029	M. Baldwin	0.004
SW And	42018.620	54006	0.084	M. Baldwin	0.002	SW And	46021.598	63057	-0.009	M. Baldwin	0.004
SW And	42305.669	54655	0.094	M. Baldwin	0.004	SW And	46354.621	63810	-0.022	M. Baldwin	0.004
SW And	42342.810	54739	0.084	M. Baldwin	0.004	SW And	46442.627	64009	-0.030	M. Baldwin	0.003
SW And	42371.555	54804	0.080	B. Small	0.006	SW And	46679.670	64545	-0.049	M. Baldwin	0.003
SW And	42374.643	54811	0.072	M. Baldwin	0.004	SW And	46702.676	64597	-0.041	M. Baldwin	0.003
SW And	42386.595	54838	0.083	M. Baldwin	0.003	SW And	46710.626	64615	-0.052	M. Baldwin	0.004
SW And	42637.804	55406	0.077	M. Baldwin	0.004	SW And	46714.611	64624	-0.048	M. Baldwin	0.002
SW And	42660.789	55458	0.064	M. Baldwin	0.003	SW And	46722.579	64642	-0.041	M. Baldwin	0.003
SW And	42665.670	55469	0.080	M. Baldwin	0.003	SW And	46744.682	64692	-0.052	M. Baldwin	0.003
SW And	42668.759	55476	0.073	M. Baldwin	0.002	SW And	46833.569	64893	-0.063	M. Baldwin	0.005
SW And	42669.645	55478	0.074	M. Baldwin	0.002	SW And	46973.786	65210	-0.049	M. Baldwin	0.003
SW And	42688.665	55521	0.076	M. Baldwin	0.003	SW And	47023.754	65323	-0.058	M. Baldwin	0.002
SW And	42692.643	55530	0.074	M. Baldwin	0.003	SW And	47082.585	65456	-0.050	M. Baldwin	0.004
SW And	42715.648	55582	0.080	M. Baldwin	0.005	SW And	47139.617	65585	-0.072	M. Baldwin	0.005
SW And	43021.675	56274	0.050	M. Baldwin	0.004	SW And	47410.735	66198	-0.072	M. Baldwin	0.002
SW And	43028.758	56290	0.056	M. Baldwin	0.004	SW And	47422.674	66225	-0.074	M. Baldwin	0.003
SW And	43033.647	56301	0.080	M. Baldwin	0.003	SW And	47449.662	66286	-0.065	M. Baldwin	0.004
SW And	43044.691	56326	0.067	M. Baldwin	0.002	SW And	47557.559	66530	-0.085	M. Baldwin	0.004
SW And	43098.646	56448	0.064	M. Baldwin	0.003	SW And	47807.884	67096	-0.090	G. Samolyk	0.003
SW And	43144.632	56552	0.053	M. Baldwin	0.003	SW And	47894.588	67292	-0.072	G. Samolyk	0.004
SW And	43397.614	57124	0.051	M. Baldwin	0.004	SW And	47940.571	67396	-0.087	M. Baldwin	0.002
SW And	43404.698	57140	0.059	M. Baldwin	0.004	SW And	48219.637	68027	-0.099	M. Baldwin	0.002
SW And	43416.634	57167	0.053	M. Baldwin	0.003	SW And	48235.555	68063	-0.103	M. Baldwin	0.003
SW And	43423.708	57183	0.051	M. Baldwin	0.002	SW And	48296.591	68201	-0.101	M. Baldwin	0.002
SW And	43447.596	57237	0.055	M. Baldwin	0.003	SW And	48545.589	68764	-0.107	M. Baldwin	0.003
SW And	43466.613	57280	0.054	M. Baldwin	0.004	SW And	48866.669	69490	-0.122	M. Baldwin	0.002
SW And	43489.598	57332	0.041	M. Baldwin	0.003	SW And	48893.654	69551	-0.116	M. Baldwin	0.004
SW And	43493.583	57341	0.045	M. Baldwin	0.003	SW And	49338.561	70557	-0.142	M. Baldwin	0.003
SW And	43505.525	57368	0.046	M. Baldwin	0.004	SW And	49361.567	70609	-0.134	M. Baldwin	0.003
SW And	43512.601	57384	0.045	M. Baldwin	0.003	SW And	49662.734	71290	-0.160	L. Hazel	0.004
SW And	43520.548	57402	0.031	M. Baldwin	0.004	SW And	49744.571	71475	-0.144	M. Baldwin	0.004
SW And	43756.729	57936	0.035	M. Baldwin	0.003	SW And	50104.560	72289	-0.171	M. Baldwin	0.004
SW And	43760.725	57945	0.051	M. Baldwin	0.005	SW And	51045.701	74417	-0.201	R. Berg	0.003
SW And	43776.641	57981	0.045	M. Baldwin	0.004	SW And	51088.591	74514	-0.212	R. Berg	0.005
SW And	43822.627	58085	0.033	M. Baldwin	0.004	SW And	51100.547	74541	-0.197	R. Berg	0.003
SW And	43841.659	58128	0.047	M. Baldwin	0.004	SW And	51106.735	74555	-0.201	R. Berg	0.003
SW And	44101.716	58716	0.044	M. Baldwin	0.003	SW And	51111.592	74566	-0.209	R. Berg	0.005
SW And	44128.683	58777	0.032	M. Baldwin	0.003	SW And	51115.572	74575	-0.210	R. Berg	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>
SW And	51133.720	74616	-0.195	L. Hazel	0.004	XX And	44514.607	7509	0.062	M. Baldwin	0.011
SW And	51142.563	74636	-0.198	R. Berg	0.004	XX And	44522.593	7520	0.098	M. Baldwin	0.019
SW And	51149.650	74652	-0.187	R. Berg	0.004	XX And	44553.633	7563	0.060	M. Baldwin	0.006
SW And	51161.566	74679	-0.213	M. Baldwin	0.004	XX And	44871.674	8003	0.092	M. Baldwin	0.007
SW And	51397.754	75213	-0.202	M. Baldwin	0.004	XX And	44876.694	8010	0.053	M. Heifner	0.005
SW And	51421.631	75267	-0.208	M. Baldwin	0.003	XX And	44876.719	8010	0.078	M. Baldwin	0.008
SW And	51424.717	75274	-0.218	M. Baldwin	0.004	XX And	44884.678	8021	0.087	M. Baldwin	0.007
SW And	51436.658	75301	-0.219	M. Baldwin	0.004	XX And	44897.659	8039	0.059	M. Heifner	0.005
SW And	51501.671	75448	-0.221	R. Berg	0.004	XX And	44926.610	8079	0.100	M. Baldwin	0.011
SW And	51853.716	76244	-0.230	R. Berg	0.003	XX And	45249.649	8526	0.071	M. Heifner	0.009
SW And	51881.588	76307	-0.222	R. Berg	0.004	XX And	45593.694	9002	0.088	M. Heifner	0.006
SW And	52539.673	77795	-0.249	R. Berg	0.003	XX And	45614.656	9031	0.090	M. Heifner	0.004
SW And	54049.548	81209	-0.316	R. Harvan	0.007	XX And	45635.616	9060	0.091	M. Heifner	0.006
SW And	54118.549	81365	-0.310	R. Harvan	0.004	XX And	45653.692	9085	0.098	M. Heifner	0.008
SW And	54324.642	81831	-0.319	R. Harvan	0.004	XX And	45666.702	9103	0.099	L. Cook	0.006
SW And	54347.630	81883	-0.330	R. Harvan	0.008	XX And	45989.760	9550	0.088	M. Baldwin	0.001
SW And	54350.724	81890	-0.332	R. Harvan	0.004	XX And	46005.669	9572	0.097	M. Baldwin	0.012
SW And	54405.581	82014	-0.318	R. Harvan	0.005	XX And	46021.581	9594	0.109	M. Baldwin	0.005
SW And	54412.655	82030	-0.320	R. Harvan	0.004	XX And	46026.645	9601	0.113	M. Baldwin	0.009
XX And	39472.659	533	-0.002	M. Baldwin	0.007	XX And	46057.722	9644	0.112	M. Baldwin	0.003
XX And	39477.710	540	-0.010	M. Baldwin	0.005	XX And	46725.548	10568	0.120	M. Baldwin	0.006
XX And	39884.642	1103	0.016	M. Baldwin	0.002	XX And	46735.675	10582	0.128	M. Baldwin	0.004
XX And	39897.653	1121	0.018	M. Baldwin	0.012	XX And	47037.788	11000	0.133	M. Baldwin	0.011
XX And	40129.659	1442	0.022	M. Baldwin	0.007	XX And	47040.681	11004	0.135	M. Baldwin	0.004
XX And	40147.716	1467	0.010	M. Baldwin	0.009	XX And	47087.658	11069	0.134	M. Baldwin	0.009
XX And	40178.782	1510	-0.003	M. Baldwin	0.005	XX And	47152.708	11159	0.137	M. Baldwin	0.008
XX And	40186.714	1521	-0.021	M. Baldwin	0.005	XX And	47543.713	11700	0.135	R. Hill	0.005
XX And	40207.664	1550	-0.030	M. Baldwin	0.006	XX And	47859.566	12137	0.147	G. Samolyk	0.002
XX And	40457.787	1896	0.022	M. Baldwin	0.009	XX And	48177.584	12577	0.157	M. Baldwin	0.006
XX And	40512.704	1972	0.011	M. Baldwin	0.009	XX And	48211.553	12624	0.157	M. Baldwin	0.006
XX And	40554.629	2030	0.017	M. Baldwin	0.007	XX And	48237.558	12660	0.143	M. Baldwin	0.007
XX And	40556.780	2033	-0.001	M. Baldwin	0.006	XX And	48547.612	13089	0.138	M. Baldwin	0.006
XX And	40559.638	2037	-0.034	M. Baldwin	0.006	XX And	49962.795	15047	0.183	M. Baldwin	0.005
XX And	41982.780	4006	0.019	M. Baldwin	0.005	XX And	49965.683	15051	0.179	M. Baldwin	0.009
XX And	41988.575	4014	0.032	M. Baldwin	0.009	XX And	51493.594	17165	0.202	M. Baldwin	0.001
XX And	41990.721	4017	0.009	M. Baldwin	0.006	AT And	39505.618	-4600	0.005	M. Baldwin	0.007
XX And	42392.566	4573	0.007	M. Baldwin	0.006	AT And	39851.703	-4039	0.001	M. Baldwin	0.003
XX And	42631.831	4904	0.043	M. Baldwin	0.010	AT And	39859.711	-4026	-0.011	M. Baldwin	0.009
XX And	42660.747	4944	0.049	M. Baldwin	0.007	AT And	39893.656	-3971	0.004	M. Baldwin	0.005
XX And	42665.778	4951	0.021	M. Baldwin	0.002	AT And	40184.849	-3499	0.013	M. Baldwin	0.011
XX And	42668.671	4955	0.023	M. Baldwin	0.004	AT And	40207.665	-3462	0.003	M. Baldwin	0.003
XX And	42688.920	4983	0.035	M. Baldwin	0.003	AT And	40566.718	-2880	0.012	M. Baldwin	0.011
XX And	42689.675	4984	0.067	M. Baldwin	0.009	AT And	41683.325	-1070	0.003	M. Baldwin	0.005
XX And	42715.653	5020	0.026	M. Baldwin	0.010	AT And	42270.612	-118	-0.013	H. Smith	0.011
XX And	42728.669	5038	0.033	M. Baldwin	0.001	AT And	42598.835	414	0.012	M. Baldwin	0.009
XX And	43033.689	5460	0.054	M. Baldwin	0.009	AT And	43130.596	1276	-0.008	M. Baldwin	0.007
XX And	43080.670	5525	0.056	M. Baldwin	0.005	AT And	43397.723	1709	-0.005	M. Baldwin	0.005
XX And	43098.734	5550	0.051	M. Baldwin	0.001	AT And	43753.681	2286	-0.007	M. Baldwin	0.007
XX And	43101.620	5554	0.046	M. Baldwin	0.008	AT And	44217.616	3038	0.008	M. Baldwin	0.009
XX And	43127.635	5590	0.042	M. Baldwin	0.009	AT And	45993.715	5917	0.010	M. Baldwin	0.009
XX And	43398.675	5965	0.052	M. Baldwin	0.007	AT And	46027.629	5972	-0.006	M. Baldwin	0.007
XX And	43403.749	5972	0.067	M. Baldwin	0.009	AT And	46679.714	7029	0.000	M. Baldwin	0.003
XX And	43466.616	6059	0.055	M. Baldwin	0.006	AT And	46996.805	7543	-0.003	M. Baldwin	0.005
XX And	43721.761	6412	0.070	M. Baldwin	0.007	AT And	47001.737	7551	-0.007	M. Baldwin	0.007
XX And	43776.699	6488	0.079	M. Baldwin	0.010	AT And	47027.660	7593	0.006	M. Baldwin	0.007
XX And	43891.605	6647	0.069	M. Baldwin	0.003	AT And	47064.667	7653	-0.002	M. Baldwin	0.003
XX And	44128.663	6975	0.066	M. Baldwin	0.007	AT And	47331.803	8086	0.010	M. Baldwin	0.009
XX And	44133.712	6982	0.055	M. Baldwin	0.005	AT And	51512.636	14863	0.012	M. Baldwin	0.011
XX And	44133.728	6982	0.072	M. Heifner	0.009	AT And	55429.400	21212	-0.016	J. Starzomski	0.014
XX And	44141.667	6993	0.060	M. Heifner	0.012	SW Aqr	40549.709	33643	-0.005	T. Cragg	0.001
XX And	44141.681	6993	0.074	M. Baldwin	0.013	SW Aqr	49635.650	53425	0.001	G. Samolyk	0.004
XX And	44193.699	7065	0.055	M. Heifner	0.005	SW Aqr	50003.556	54226	0.005	G. Samolyk	0.005
XX And	44222.617	7105	0.062	M. Baldwin	0.009	SW Aqr	50257.549	54779	0.003	I. Fernandez	0.002
XX And	44274.647	7177	0.055	M. Heifner	0.006	SW Aqr	50257.549	54779	0.003	M. Tejera	0.003
XX And	44506.635	7498	0.041	M. Heifner	0.005	SW Aqr	50257.555	54779	0.009	F. Turi	0.008

Table continued on next page

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>
SW Aqr	50347.565	54975	-0.004	G. Chaple	0.002	TZ Aur	47227.622	69765	0.010	M. Baldwin	0.005
SW Aqr	51045.706	56495	-0.004	R. Berg	0.004	TZ Aur	47236.630	69788	0.010	M. Baldwin	0.002
SW Aqr	51051.678	56508	-0.003	R. Berg	0.004	TZ Aur	47425.799	70271	0.000	M. Baldwin	0.003
SW Aqr	51056.727	56519	-0.007	R. Berg	0.003	TZ Aur	47445.788	70322	0.013	M. Baldwin	0.006
SW Aqr	51109.551	56634	-0.002	R. Berg	0.003	TZ Aur	47543.710	70572	0.017	R. Hill	0.004
SW Aqr	51429.686	57331	-0.002	R. Berg	0.003	TZ Aur	47558.593	70610	0.016	M. Baldwin	0.003
SW Aqr	51435.650	57344	-0.009	R. Berg	0.008	TZ Aur	47914.624	71519	0.015	M. Baldwin	0.008
SW Aqr	51785.642	58106	-0.006	R. Berg	0.008	TZ Aur	47915.796	71522	0.012	M. Baldwin	0.003
SW Aqr	51812.743	58165	-0.004	R. Hill	0.004	TZ Aur	47921.671	71537	0.012	M. Baldwin	0.003
SW Aqr	51837.554	58219	0.005	G. Samolyk	0.004	TZ Aur	47923.633	71542	0.015	M. Baldwin	0.002
TZ Aur	39892.738	51038	0.017	M. Baldwin	0.007	TZ Aur	47943.613	71593	0.020	M. Baldwin	0.003
TZ Aur	39894.681	51043	0.001	M. Baldwin	0.004	TZ Aur	47948.697	71606	0.012	M. Baldwin	0.003
TZ Aur	39912.700	51089	0.003	M. Baldwin	0.004	TZ Aur	48362.697	72663	0.012	M. Baldwin	0.003
TZ Aur	39915.830	51097	0.000	M. Baldwin	0.003	TZ Aur	48648.619	73393	0.012	M. Baldwin	0.004
TZ Aur	39917.796	51102	0.007	M. Baldwin	0.008	TZ Aur	48655.667	73411	0.009	M. Baldwin	0.003
TZ Aur	40203.716	51832	0.005	M. Baldwin	0.005	TZ Aur	49416.700	75354	0.019	M. Baldwin	0.003
TZ Aur	40207.637	51842	0.009	M. Baldwin	0.002	TZ Aur	49720.631	76130	0.010	M. Baldwin	0.002
TZ Aur	40270.697	52003	0.010	M. Baldwin	0.007	TZ Aur	49832.651	76416	0.011	M. Baldwin	0.005
TZ Aur	40293.799	52062	0.003	M. Baldwin	0.002	TZ Aur	50130.721	77177	0.017	R. Hill	0.009
TZ Aur	40566.798	52759	0.005	M. Baldwin	0.003	TZ Aur	50190.642	77330	0.012	M. Baldwin	0.004
TZ Aur	41683.472	55610	0.014	M. Baldwin	0.004	TZ Aur	50546.676	78239	0.013	M. Baldwin	0.003
TZ Aur	41705.405	55666	0.013	M. Baldwin	0.003	TZ Aur	50575.656	78313	0.009	M. Baldwin	0.002
TZ Aur	41752.402	55786	0.010	M. Baldwin	0.003	TZ Aur	50902.703	79148	0.008	M. Baldwin	0.003
TZ Aur	41765.327	55819	0.009	M. Baldwin	0.009	TZ Aur	51157.684	79799	0.009	M. Baldwin	0.002
TZ Aur	41766.488	55822	-0.005	M. Baldwin	0.008	TZ Aur	51161.605	79809	0.013	M. Baldwin	0.002
TZ Aur	42429.609	57515	0.011	M. Baldwin	0.005	TZ Aur	51253.654	80044	0.019	R. Berg	0.005
TZ Aur	42843.605	58572	0.007	M. Baldwin	0.003	TZ Aur	51262.661	80067	0.017	R. Berg	0.003
TZ Aur	42861.618	58618	0.003	M. Baldwin	0.002	TZ Aur	51489.822	80647	0.007	R. Berg	0.003
TZ Aur	43130.704	59305	0.009	M. Baldwin	0.005	TZ Aur	51609.678	80953	0.010	R. Berg	0.007
TZ Aur	43219.614	59532	0.008	M. Baldwin	0.004	TZ Aur	51627.693	80999	0.008	R. Berg	0.001
TZ Aur	43246.638	59601	0.007	M. Baldwin	0.004	TZ Aur	51989.608	81923	0.016	G. Samolyk	0.003
TZ Aur	43505.534	60262	0.006	M. Baldwin	0.002	BH Aur	39152.620	-7891	-0.017	M. Baldwin	0.005
TZ Aur	43512.585	60280	0.007	M. Baldwin	0.002	BH Aur	39168.590	-7856	-0.011	M. Baldwin	0.006
TZ Aur	43519.634	60298	0.006	M. Baldwin	0.003	BH Aur	39173.626	-7845	0.008	M. Baldwin	0.014
TZ Aur	43548.620	60372	0.008	M. Baldwin	0.004	BH Aur	39178.623	-7834	-0.012	M. Baldwin	0.007
TZ Aur	43550.583	60377	0.012	M. Baldwin	0.004	BH Aur	39443.635	-7253	0.012	M. Baldwin	0.006
TZ Aur	43566.651	60418	0.022	M. Baldwin	0.007	BH Aur	39473.721	-7187	-0.004	M. Baldwin	0.006
TZ Aur	43606.584	60520	0.004	M. Baldwin	0.004	BH Aur	39474.632	-7185	-0.005	M. Baldwin	0.006
TZ Aur	43935.605	61360	0.018	M. Baldwin	0.008	BH Aur	39495.613	-7139	-0.004	M. Baldwin	0.004
TZ Aur	44340.588	62394	0.010	M. Baldwin	0.007	BH Aur	39500.635	-7128	0.001	M. Baldwin	0.005
TZ Aur	44553.660	62938	0.011	M. Baldwin	0.002	BH Aur	39505.661	-7117	0.010	M. Baldwin	0.006
TZ Aur	44629.650	63132	0.016	G. Hanson	0.001	BH Aur	39506.553	-7115	-0.010	M. Baldwin	0.004
TZ Aur	44696.619	63303	0.008	M. Baldwin	0.004	BH Aur	39530.742	-7062	0.006	M. Baldwin	0.004
TZ Aur	44907.743	63842	0.020	M. Baldwin	0.007	BH Aur	39537.573	-7047	-0.004	M. Baldwin	0.004
TZ Aur	44979.794	64026	0.003	L. Cook	0.004	BH Aur	39556.715	-7005	-0.018	M. Baldwin	0.005
TZ Aur	44985.671	64041	0.005	G. Chaple	0.005	BH Aur	39567.689	-6981	0.010	M. Baldwin	0.003
TZ Aur	45993.842	66615	0.005	M. Baldwin	0.002	BH Aur	39884.660	-6286	-0.002	M. Baldwin	0.005
TZ Aur	46024.785	66694	0.006	M. Baldwin	0.004	BH Aur	39894.701	-6264	0.006	M. Baldwin	0.007
TZ Aur	46028.711	66704	0.015	M. Baldwin	0.006	BH Aur	39920.686	-6207	-0.007	M. Baldwin	0.006
TZ Aur	46057.687	66778	0.007	M. Baldwin	0.003	BH Aur	40184.761	-5628	-0.008	M. Baldwin	0.005
TZ Aur	46117.627	66931	0.021	M. Baldwin	0.013	BH Aur	40186.599	-5624	0.006	M. Baldwin	0.005
TZ Aur	46437.609	67748	0.005	G. Samolyk	0.001	BH Aur	40211.679	-5569	0.001	M. Baldwin	0.006
TZ Aur	46475.605	67845	0.008	G. Chaple	0.002	BH Aur	40293.776	-5389	0.002	M. Baldwin	0.009
TZ Aur	46511.644	67937	0.013	M. Baldwin	0.004	BH Aur	40294.684	-5387	-0.002	M. Baldwin	0.007
TZ Aur	46518.703	67955	0.022	M. Baldwin	0.006	BH Aur	40565.606	-4793	0.002	L. Hazel	0.007
TZ Aur	46520.655	67960	0.016	M. Baldwin	0.003	BH Aur	41374.714	-3019	0.007	T. Cragg	0.008
TZ Aur	46527.697	67978	0.008	M. Baldwin	0.004	BH Aur	41683.484	-2342	0.004	M. Baldwin	0.006
TZ Aur	46529.663	67983	0.015	M. Baldwin	0.004	BH Aur	41705.364	-2294	-0.008	M. Baldwin	0.010
TZ Aur	46531.624	67988	0.018	M. Baldwin	0.007	BH Aur	41751.434	-2193	-0.003	M. Baldwin	0.005
TZ Aur	46744.686	68532	0.009	M. Baldwin	0.009	BH Aur	41752.349	-2191	0.000	M. Baldwin	0.008
TZ Aur	46829.682	68749	0.011	M. Baldwin	0.005	BH Aur	41982.675	-1686	0.000	M. Baldwin	0.008
TZ Aur	46831.635	68754	0.006	M. Baldwin	0.004	BH Aur	42003.655	-1640	0.000	M. Baldwin	0.003
TZ Aur	46833.590	68759	0.003	M. Baldwin	0.005	BH Aur	42387.685	-798	0.003	M. Baldwin	0.007
TZ Aur	46916.639	68971	0.017	M. Baldwin	0.004	BH Aur	42429.630	-706	-0.013	M. Baldwin	0.009
TZ Aur	47171.620	69622	0.018	M. Baldwin	0.006	BH Aur	42506.712	-537	-0.010	T. Cragg	0.003

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>
BH Aur	42660.886	-199	0.006	M. Baldwin	0.007	BH Aur	46475.607	8165	-0.008	G. Chaple	0.003
BH Aur	42665.878	-188	-0.019	M. Baldwin	0.007	BH Aur	46490.653	8198	-0.013	M. Heifner	0.001
BH Aur	42751.648	0	0.006	M. Baldwin	0.007	BH Aur	46490.673	8198	0.007	M. Baldwin	0.005
BH Aur	42845.597	206	0.001	M. Baldwin	0.004	BH Aur	46511.642	8244	-0.004	M. Baldwin	0.003
BH Aur	42871.599	263	0.005	M. Baldwin	0.004	BH Aur	46521.673	8266	-0.007	M. Baldwin	0.003
BH Aur	43055.842	667	-0.012	M. Baldwin	0.005	BH Aur	46532.623	8290	-0.003	M. Baldwin	0.005
BH Aur	43130.652	831	-0.001	M. Baldwin	0.005	BH Aur	46734.681	8733	0.007	M. Baldwin	0.007
BH Aur	43131.573	833	0.008	M. Baldwin	0.007	BH Aur	46744.694	8755	-0.014	M. Baldwin	0.004
BH Aur	43136.584	844	0.002	M. Baldwin	0.007	BH Aur	46787.581	8849	0.000	M. Baldwin	0.007
BH Aur	43219.595	1026	0.005	M. Baldwin	0.009	BH Aur	46790.775	8856	0.002	R. Hill	0.007
BH Aur	43489.607	1618	0.012	M. Baldwin	0.005	BH Aur	46875.612	9042	0.006	G. Samolyk	0.005
BH Aur	43493.690	1627	-0.010	M. Baldwin	0.004	BH Aur	46911.635	9121	-0.002	M. Baldwin	0.002
BH Aur	43494.614	1629	0.002	M. Baldwin	0.008	BH Aur	47114.599	9566	0.002	M. Baldwin	0.006
BH Aur	43505.558	1653	0.000	M. Baldwin	0.006	BH Aur	47140.596	9623	0.002	M. Baldwin	0.007
BH Aur	43520.594	1686	-0.015	M. Baldwin	0.005	BH Aur	47151.550	9647	0.010	M. Baldwin	0.007
BH Aur	44216.602	3212	0.000	M. Heifner	0.006	BH Aur	47835.659	11147	-0.016	M. Baldwin	0.007
BH Aur	44221.606	3223	-0.013	M. Baldwin	0.005	BH Aur	47940.583	11377	0.007	M. Baldwin	0.003
BH Aur	44226.627	3234	-0.009	M. Baldwin	0.008	BH Aur	47950.607	11399	-0.003	G. Samolyk	0.002
BH Aur	44227.542	3236	-0.007	M. Baldwin	0.009	BH Aur	48236.561	12026	-0.017	M. Baldwin	0.002
BH Aur	44319.665	3438	-0.014	M. Heifner	0.003	BH Aur	48328.693	12228	-0.015	R. Hill	0.004
BH Aur	44598.809	4050	0.003	G. Hanson	0.004	BH Aur	48682.633	13004	-0.001	M. Baldwin	0.004
BH Aur	44614.758	4085	-0.011	G. Samolyk	0.004	BH Aur	49010.550	13723	-0.012	M. Baldwin	0.007
BH Aur	44616.589	4089	-0.004	G. Hanson	0.003	BH Aur	49397.782	14572	-0.001	M. Baldwin	0.003
BH Aur	44938.596	4795	0.003	M. Baldwin	0.007	BH Aur	50490.566	16968	-0.008	G. Chaple	0.006
BH Aur	44957.746	4837	-0.002	G. Samolyk	0.003	BH Aur	50541.654	17080	-0.002	M. Baldwin	0.002
BH Aur	44994.685	4918	-0.007	G. Chaple	0.005	BH Aur	51149.625	18413	0.002	R. Berg	0.007
BH Aur	44995.608	4920	0.004	G. Samolyk	0.004	BH Aur	51212.558	18551	-0.006	R. Berg	0.004
BH Aur	45348.615	5694	-0.002	G. Chaple	0.004	BH Aur	51438.787	19047	0.003	M. Baldwin	0.006
BH Aur	46028.656	7185	0.009	M. Baldwin	0.007	BH Aur	51491.683	19163	-0.008	R. Berg	0.005
BH Aur	46033.649	7196	-0.015	M. Baldwin	0.006	BH Aur	51512.670	19209	-0.001	M. Baldwin	0.004
BH Aur	46038.678	7207	-0.003	M. Baldwin	0.006	BH Aur	51513.593	19211	0.010	M. Baldwin	0.003
BH Aur	46058.743	7251	-0.006	M. Baldwin	0.004	BH Aur	51621.674	19448	-0.002	R. Berg	0.005
BH Aur	46112.573	7369	0.005	M. Baldwin	0.006	BH Aur	51627.605	19461	-0.001	R. Berg	0.005
BH Aur	46117.588	7380	0.003	M. Baldwin	0.006	BH Aur	52354.603	21055	-0.010	R. Berg	0.007