

Visual Times of Maxima for Short Period Pulsating Stars II

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Abstract This compilation contains 631 times of maxima of 8 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 second 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 constellation Bootes. This list will be web-archived and made available through the AAVSO ftp site at <ftp://ftp.aavso.org/public/datasets/gsam-452-rrlyr-2.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 listed.

Figures 1, 2, and 3 are O–C plots for three of the stars listed.

References

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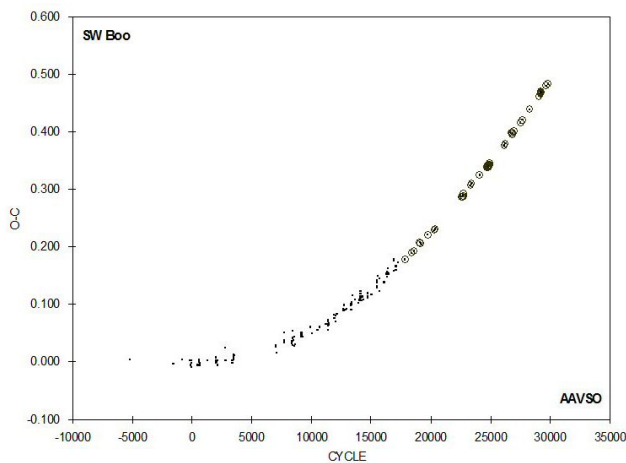


Figure 1. O–C plot for SW Boo. The circled times of maxima are from CCD papers published in *JAAVSO* (Samolyk 2010–2016).

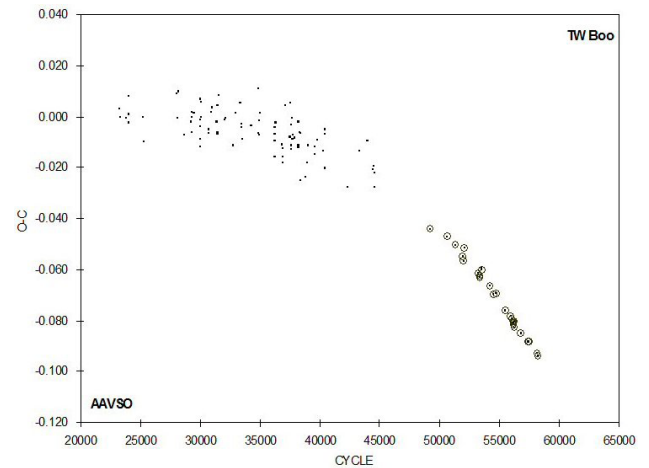


Figure 2. O–C plot for TW Boo. The circled times of maxima are from CCD papers published in *JAAVSO* (Samolyk 2010–2016).

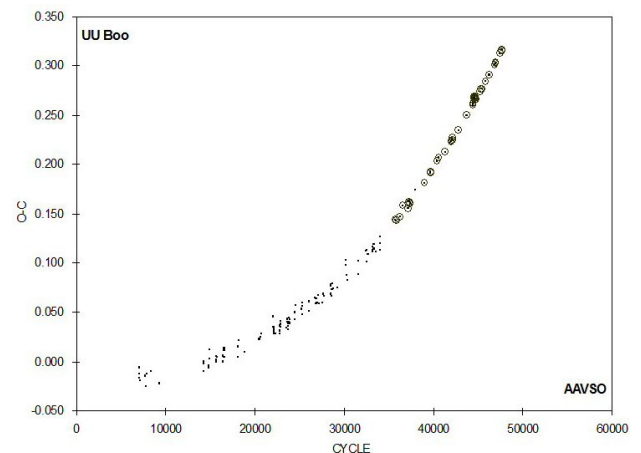


Figure 3. O–C plot for UU Boo. The circled times of maxima are from CCD papers published in *JAAVSO* (Samolyk 2010–2016).

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>
RS Boo	39169.880	-6892	0.010	M. Baldwin	0.004	RS Boo	47271.710	14579	-0.005	M. Baldwin	0.005
RS Boo	39197.784	-6818	-0.009	M. Baldwin	0.003	RS Boo	47276.626	14592	0.006	M. Baldwin	0.006
RS Boo	39203.838	-6802	0.008	M. Baldwin	0.006	RS Boo	47648.687	15578	0.011	M. Baldwin	0.007
RS Boo	39288.724	-6577	-0.008	M. Baldwin	0.004	RS Boo	47671.688	15639	-0.006	R. Hill	0.007
RS Boo	39316.664	-6503	0.009	M. Baldwin	0.007	RS Boo	48411.639	17600	-0.017	G. Samolyk	0.001
RS Boo	39319.680	-6495	0.007	M. Baldwin	0.007	RS Boo	48454.687	17714	0.015	M. Baldwin	0.004
RS Boo	39595.892	-5763	0.006	M. Baldwin	0.009	RS Boo	49443.671	20335	-0.007	M. Baldwin	0.003
RS Boo	39668.721	-5570	0.009	M. Baldwin	0.002	RS Boo	49460.662	20380	0.004	M. Baldwin	0.005
RS Boo	39671.733	-5562	0.002	M. Baldwin	0.002	RS Boo	49483.680	20441	0.004	M. Baldwin	0.003
RS Boo	39674.761	-5554	0.012	M. Baldwin	0.002	RS Boo	49529.712	20563	0.001	P. Goodwin	0.003
RS Boo	40400.743	-3630	-0.007	T. Cragg	0.005	RS Boo	49957.620	21697	0.007	M. Baldwin	0.004
RS Boo	40408.665	-3609	-0.009	L. Hazel	0.007	RS Boo	50158.730	22230	-0.005	R. Hill	0.009
RS Boo	40425.646	-3564	-0.008	L. Hazel	0.010	RS Boo	50184.776	22299	0.005	R. Hill	0.004
RS Boo	40437.726	-3532	-0.003	T. Cragg	0.002	RS Boo	50546.637	23258	-0.003	M. Baldwin	0.004
RS Boo	41043.734	-1926	-0.001	T. Cragg	0.005	RS Boo	50967.758	24374	0.008	R. Berg	0.005
RS Boo	41809.738	104	0.005	T. Cragg	0.002	RS Boo	51004.723	24472	-0.006	R. Berg	0.003
RS Boo	42155.763	1021	0.010	M. Baldwin	0.007	RS Boo	51021.698	24517	-0.011	R. Berg	0.003
RS Boo	42157.656	1026	0.016	M. Baldwin	0.004	RS Boo	51281.710	25206	0.014	R. Berg	0.006
RS Boo	42560.639	2094	0.001	M. Baldwin	0.002	RS Boo	51298.676	25251	0.000	R. Berg	0.007
RS Boo	42569.695	2118	0.001	M. Baldwin	0.008	RS Boo	51335.673	25349	0.018	R. Berg	0.006
RS Boo	42572.708	2126	-0.005	M. Baldwin	0.006	RS Boo	51627.698	26123	-0.018	R. Berg	0.007
RS Boo	42863.661	2897	0.020	M. Baldwin	0.005	RS Boo	51633.766	26139	0.013	R. Berg	0.003
RS Boo	42886.662	2958	0.003	M. Baldwin	0.004	RS Boo	51641.691	26160	0.014	R. Berg	0.003
RS Boo	42895.716	2982	0.001	M. Baldwin	0.006	RS Boo	51661.668	26213	-0.008	R. Berg	0.002
RS Boo	42898.737	2990	0.004	M. Baldwin	0.006	RS Boo	51667.719	26229	0.005	R. Berg	0.002
RS Boo	42903.643	3003	0.004	M. Baldwin	0.006	RS Boo	54237.779	33040	0.010	P. Soron	0.007
RS Boo	43244.762	3907	0.009	M. Baldwin	0.002	RS Boo	54649.453	34131	0.007	S. Swierczynski	0.003
RS Boo	43272.689	3981	0.013	M. Baldwin	0.005	RS Boo	54680.395	34213	0.007	S. Swierczynski	0.001
RS Boo	43315.707	4095	0.014	M. Baldwin	0.002	ST Boo	39287.723	32310	0.025	M. Baldwin	0.007
RS Boo	43626.625	4919	0.005	M. Baldwin	0.003	ST Boo	39310.719	32347	-0.004	M. Baldwin	0.006
RS Boo	43630.765	4930	-0.006	M. Baldwin	0.003	ST Boo	39315.696	32355	-0.005	M. Baldwin	0.004
RS Boo	43672.667	5041	0.011	M. Baldwin	0.004	ST Boo	39320.681	32363	0.001	M. Baldwin	0.002
RS Boo	44012.640	5942	0.002	M. Baldwin	0.006	ST Boo	39325.650	32371	-0.008	M. Baldwin	0.007
RS Boo	44335.646	6798	0.006	M. Baldwin	0.001	ST Boo	39343.688	32400	-0.016	M. Baldwin	0.006
RS Boo	44349.604	6835	0.002	M. Baldwin	0.005	ST Boo	39595.735	32805	0.003	M. Baldwin	0.004
RS Boo	44369.616	6888	0.015	M. Baldwin	0.004	ST Boo	39674.763	32932	0.000	M. Baldwin	0.008
RS Boo	44375.644	6904	0.006	M. Baldwin	0.003	ST Boo	39679.726	32940	-0.015	M. Baldwin	0.005
RS Boo	44410.748	6997	0.017	G. Hanson	0.006	ST Boo	39694.677	32964	0.001	M. Baldwin	0.004
RS Boo	44696.757	7755	0.003	M. Baldwin	0.006	ST Boo	39916.820	33321	-0.014	M. Baldwin	0.006
RS Boo	44701.665	7768	0.006	M. Baldwin	0.005	ST Boo	40333.784	33991	0.015	M. Baldwin	0.008
RS Boo	44704.681	7776	0.003	M. Baldwin	0.011	ST Boo	42165.824	36935	0.031	M. Baldwin	0.005
RS Boo	44727.707	7837	0.012	M. Baldwin	0.008	ST Boo	42531.713	37523	0.014	T. Cragg	0.006
RS Boo	45507.665	9904	0.010	G. Chaple	0.001	ST Boo	42567.814	37581	0.022	M. Baldwin	0.003
RS Boo	46173.661	11669	0.003	M. Baldwin	0.004	ST Boo	42569.696	37584	0.037	M. Baldwin	0.006
RS Boo	46176.691	11677	0.014	M. Baldwin	0.003	ST Boo	42887.699	38095	0.049	M. Baldwin	0.006
RS Boo	46193.655	11722	-0.002	M. Baldwin	0.006	ST Boo	42895.773	38108	0.033	M. Baldwin	0.011
RS Boo	46194.784	11725	-0.005	M. Baldwin	0.006	ST Boo	42897.657	38111	0.051	M. Baldwin	0.007
RS Boo	46511.763	12565	0.009	G. Samolyk	0.002	ST Boo	43612.647	39260	0.029	M. Baldwin	0.008
RS Boo	46519.685	12586	0.007	M. Baldwin	0.006	ST Boo	44365.638	40470	0.048	M. Baldwin	0.004
RS Boo	46531.766	12618	0.013	M. Baldwin	0.005	ST Boo	44686.737	40986	0.045	G. Hanson	0.002
RS Boo	46534.783	12626	0.011	M. Baldwin	0.004	ST Boo	44701.673	41010	0.046	M. Baldwin	0.007
RS Boo	46559.687	12692	0.011	R. Hill	0.010	ST Boo	45131.677	41701	0.047	M. Baldwin	0.010
RS Boo	46565.723	12708	0.009	R. Hill	0.006	ST Boo	46210.709	43435	0.027	M. Baldwin	0.006
RS Boo	46591.772	12777	0.022	R. Hill	0.007	ST Boo	46561.703	43999	0.049	M. Baldwin	0.003
RS Boo	46875.873	13530	-0.013	G. Samolyk	0.002	ST Boo	46912.686	44563	0.060	M. Baldwin	0.003
RS Boo	46914.756	13633	0.004	M. Baldwin	0.002	ST Boo	46996.680	44698	0.045	M. Baldwin	0.005
RS Boo	46916.643	13638	0.004	M. Baldwin	0.003	ST Boo	47024.685	44743	0.047	M. Baldwin	0.006
RS Boo	46939.666	13699	0.010	M. Baldwin	0.003	ST Boo	47243.754	45095	0.069	M. Baldwin	0.005
RS Boo	46942.688	13707	0.013	M. Baldwin	0.003	ST Boo	47299.735	45185	0.044	M. Baldwin	0.005
RS Boo	46945.697	13715	0.003	M. Baldwin	0.008	ST Boo	47683.687	45802	0.043	M. Baldwin	0.006
RS Boo	46948.717	13723	0.004	M. Baldwin	0.005	ST Boo	48330.908	46842	0.082	M. Baldwin	0.005
RS Boo	47002.682	13866	0.010	M. Baldwin	0.005	ST Boo	48421.730	46988	0.049	M. Baldwin	0.009
RS Boo	47161.905	14288	-0.004	G. Samolyk	0.003	ST Boo	48454.691	47041	0.029	M. Baldwin	0.006
RS Boo	47231.722	14473	0.005	M. Baldwin	0.005	ST Boo	48749.655	47515	0.027	M. Baldwin	0.009
RS Boo	47268.696	14571	0.000	M. Baldwin	0.006	ST Boo	50553.740	50414	0.091	M. Baldwin	0.002

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>
ST Boo	52489.640	53525	0.045	R. Berg	0.004	SW Boo	47942.832	10461	0.055	M. Baldwin	0.003
SW Boo	39916.850	-5168	0.003	M. Baldwin	0.009	SW Boo	47976.726	10527	0.056	M. Baldwin	0.004
SW Boo	41766.571	-1566	-0.004	M. Baldwin	0.004	SW Boo	48089.706	10747	0.060	M. Baldwin	0.008
SW Boo	42155.833	-808	0.004	M. Baldwin	0.006	SW Boo	48357.774	11269	0.066	M. Baldwin	0.005
SW Boo	42476.787	-183	0.003	M. Baldwin	0.005	SW Boo	48411.684	11374	0.055	M. Baldwin	0.006
SW Boo	42509.644	-119	-0.006	M. Baldwin	0.005	SW Boo	48412.728	11376	0.072	M. Baldwin	0.005
SW Boo	42531.735	-76	0.003	T. Cragg	0.003	SW Boo	48413.753	11378	0.070	M. Baldwin	0.005
SW Boo	42569.731	-2	-0.002	M. Baldwin	0.009	SW Boo	48414.772	11380	0.062	M. Baldwin	0.005
SW Boo	42570.763	0	0.003	M. Baldwin	0.006	SW Boo	48415.802	11382	0.065	M. Baldwin	0.005
SW Boo	42571.784	2	-0.003	M. Baldwin	0.006	SW Boo	48452.777	11454	0.066	M. Baldwin	0.006
SW Boo	42572.805	4	-0.009	M. Baldwin	0.005	SW Boo	48469.720	11487	0.063	M. Baldwin	0.006
SW Boo	42836.761	518	-0.007	M. Baldwin	0.003	SW Boo	48682.853	11902	0.082	M. Baldwin	0.004
SW Boo	42871.687	586	0.000	M. Baldwin	0.007	SW Boo	48685.928	11908	0.075	M. Baldwin	0.004
SW Boo	42873.746	590	0.004	M. Baldwin	0.005	SW Boo	48752.686	12038	0.075	M. Baldwin	0.006
SW Boo	42874.771	592	0.002	M. Baldwin	0.004	SW Boo	48771.682	12075	0.070	M. Baldwin	0.007
SW Boo	42891.709	625	-0.006	M. Baldwin	0.004	SW Boo	48774.773	12081	0.080	M. Baldwin	0.006
SW Boo	42895.820	633	-0.003	M. Baldwin	0.006	SW Boo	48810.724	12151	0.084	M. Baldwin	0.006
SW Boo	42907.631	656	-0.003	M. Baldwin	0.004	SW Boo	49073.658	12663	0.092	M. Baldwin	0.011
SW Boo	43272.756	1367	0.003	M. Baldwin	0.004	SW Boo	49095.737	12706	0.089	M. Baldwin	0.003
SW Boo	43610.651	2025	-0.003	M. Baldwin	0.004	SW Boo	49117.828	12749	0.098	M. Baldwin	0.006
SW Boo	43612.716	2029	0.007	M. Baldwin	0.004	SW Boo	49134.764	12782	0.088	M. Baldwin	0.002
SW Boo	43629.658	2062	0.003	M. Baldwin	0.005	SW Boo	49154.793	12821	0.089	M. Baldwin	0.006
SW Boo	43630.685	2064	0.003	M. Baldwin	0.005	SW Boo	49155.820	12823	0.089	M. Baldwin	0.003
SW Boo	43631.708	2066	-0.001	M. Baldwin	0.003	SW Boo	49188.687	12887	0.090	M. Baldwin	0.004
SW Boo	43669.709	2140	-0.001	M. Baldwin	0.003	SW Boo	49241.582	12990	0.092	M. Baldwin	0.004
SW Boo	43670.740	2142	0.003	M. Baldwin	0.005	SW Boo	49401.810	13302	0.099	M. Baldwin	0.005
SW Boo	43672.794	2146	0.003	M. Baldwin	0.009	SW Boo	49416.693	13331	0.090	M. Baldwin	0.004
SW Boo	43688.704	2177	-0.007	M. Baldwin	0.009	SW Boo	49417.729	13333	0.099	M. Baldwin	0.004
SW Boo	44010.716	2804	0.023	M. Baldwin	0.013	SW Boo	49433.640	13364	0.090	M. Baldwin	0.003
SW Boo	44012.749	2808	0.002	M. Baldwin	0.004	SW Boo	49434.667	13366	0.090	M. Baldwin	0.006
SW Boo	44049.723	2880	0.002	M. Baldwin	0.005	SW Boo	49451.623	13399	0.100	M. Baldwin	0.008
SW Boo	44313.677	3394	0.003	M. Baldwin	0.005	SW Boo	49457.788	13411	0.103	M. Baldwin	0.003
SW Boo	44314.699	3396	-0.002	M. Baldwin	0.005	SW Boo	49474.747	13444	0.115	M. Baldwin	0.005
SW Boo	44348.600	3462	0.006	M. Baldwin	0.003	SW Boo	49602.608	13693	0.108	M. Baldwin	0.004
SW Boo	44349.631	3464	0.010	M. Baldwin	0.006	SW Boo	49743.822	13968	0.101	M. Baldwin	0.009
SW Boo	44351.687	3468	0.012	M. Baldwin	0.008	SW Boo	49778.746	14036	0.106	M. Baldwin	0.008
SW Boo	44367.599	3499	0.004	M. Baldwin	0.001	SW Boo	49780.803	14040	0.108	M. Baldwin	0.003
SW Boo	44410.742	3583	0.011	G. Hanson	0.002	SW Boo	49812.647	14102	0.114	M. Baldwin	0.004
SW Boo	46196.811	7061	0.029	M. Baldwin	0.008	SW Boo	49813.678	14104	0.118	M. Baldwin	0.006
SW Boo	46210.672	7088	0.025	M. Baldwin	0.008	SW Boo	49832.683	14141	0.122	M. Baldwin	0.004
SW Boo	46233.771	7133	0.015	M. Baldwin	0.003	SW Boo	49835.754	14147	0.112	M. Baldwin	0.004
SW Boo	46531.652	7713	0.050	M. Baldwin	0.005	SW Boo	49873.749	14221	0.106	M. Baldwin	0.008
SW Boo	46532.667	7715	0.038	M. Baldwin	0.004	SW Boo	49927.676	14326	0.112	M. Baldwin	0.006
SW Boo	46534.720	7719	0.037	M. Baldwin	0.005	SW Boo	49928.699	14328	0.108	M. Baldwin	0.004
SW Boo	46550.639	7750	0.036	M. Baldwin	0.003	SW Boo	50138.737	14737	0.113	M. Baldwin	0.004
SW Boo	46553.717	7756	0.033	M. Baldwin	0.003	SW Boo	50153.627	14766	0.111	M. Baldwin	0.005
SW Boo	46857.728	8348	0.035	M. Baldwin	0.002	SW Boo	50154.661	14768	0.118	M. Baldwin	0.004
SW Boo	46858.751	8350	0.031	M. Baldwin	0.002	SW Boo	50158.770	14776	0.119	M. Baldwin	0.003
SW Boo	46861.833	8356	0.032	M. Baldwin	0.002	SW Boo	50305.636	15062	0.116	M. Baldwin	0.006
SW Boo	46877.754	8387	0.034	M. Baldwin	0.003	SW Boo	50518.775	15477	0.141	M. Baldwin	0.003
SW Boo	46893.668	8418	0.028	M. Baldwin	0.004	SW Boo	50534.682	15508	0.128	M. Baldwin	0.006
SW Boo	46910.639	8451	0.053	M. Baldwin	0.006	SW Boo	50542.902	15524	0.132	M. Baldwin	0.002
SW Boo	46911.648	8453	0.035	M. Baldwin	0.003	SW Boo	50553.692	15545	0.138	M. Baldwin	0.004
SW Boo	46912.680	8455	0.040	M. Baldwin	0.004	SW Boo	50573.732	15584	0.150	M. Baldwin	0.006
SW Boo	46914.736	8459	0.042	M. Baldwin	0.004	SW Boo	50666.675	15765	0.145	M. Baldwin	0.003
SW Boo	46951.705	8531	0.037	G. Samolyk	0.007	SW Boo	50668.707	15769	0.122	M. Baldwin	0.002
SW Boo	46973.777	8574	0.027	M. Baldwin	0.003	SW Boo	50842.809	16108	0.138	M. Baldwin	0.006
SW Boo	46974.820	8576	0.043	M. Baldwin	0.003	SW Boo	50938.853	16295	0.153	M. Baldwin	0.005
SW Boo	47025.646	8675	0.030	M. Baldwin	0.005	SW Boo	50951.687	16320	0.148	M. Baldwin	0.003
SW Boo	47271.643	9154	0.047	M. Baldwin	0.002	SW Boo	50952.721	16322	0.155	M. Baldwin	0.005
SW Boo	47293.722	9197	0.044	M. Baldwin	0.003	SW Boo	50990.729	16396	0.162	M. Baldwin	0.011
SW Boo	47296.809	9203	0.050	M. Baldwin	0.008	SW Boo	50991.748	16398	0.154	M. Baldwin	0.007
SW Boo	47331.723	9271	0.044	M. Baldwin	0.004	SW Boo	50992.774	16400	0.153	M. Baldwin	0.006
SW Boo	47670.668	9931	0.060	M. Baldwin	0.004	SW Boo	51027.693	16468	0.152	M. Baldwin	0.006
SW Boo	47747.686	10081	0.049	M. Baldwin	0.006	SW Boo	51259.813	16920	0.158	M. Baldwin	0.003

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 Boo	51273.696	16947	0.175	M. Baldwin	0.005	SZ Boo	51396.654	45439	0.014	M. Baldwin	0.002
SW Boo	51275.752	16951	0.177	M. Baldwin	0.004	TV Boo	39290.715	46971	-0.026	M. Baldwin	0.004
SW Boo	51368.683	17132	0.160	M. Baldwin	0.004	TV Boo	39311.687	47038	0.005	M. Baldwin	0.005
SW Boo	51370.744	17136	0.166	M. Baldwin	0.004	TV Boo	39315.723	47051	-0.022	M. Baldwin	0.007
SW Boo	51423.643	17239	0.172	M. Baldwin	0.004	TV Boo	39316.687	47054	0.004	M. Baldwin	0.016
SZ Boo	39288.670	22280	0.014	M. Baldwin	0.006	TV Boo	39595.805	47947	0.006	M. Baldwin	0.005
SZ Boo	39311.666	22324	0.006	M. Baldwin	0.003	TV Boo	39672.711	48193	0.023	M. Baldwin	0.012
SZ Boo	39323.686	22347	0.001	M. Baldwin	0.004	TV Boo	41135.785	52874	0.006	T. Cragg	0.008
SZ Boo	39324.737	22349	0.006	M. Baldwin	0.006	TV Boo	41766.532	54892	0.009	M. Baldwin	0.008
SZ Boo	39598.698	22873	0.010	M. Baldwin	0.003	TV Boo	42531.692	57340	0.023	T. Cragg	0.005
SZ Boo	39655.674	22982	-0.002	M. Baldwin	0.004	TV Boo	42571.699	57468	0.023	M. Baldwin	0.007
SZ Boo	39678.690	23026	0.010	M. Baldwin	0.006	TV Boo	42873.638	58434	0.029	M. Baldwin	0.005
SZ Boo	40324.891	24262	0.006	M. Baldwin	0.002	TV Boo	42898.653	58514	0.040	M. Baldwin	0.006
SZ Boo	40333.786	24279	0.013	M. Baldwin	0.005	TV Boo	42903.654	58530	0.040	M. Baldwin	0.009
SZ Boo	42531.719	28483	0.012	T. Cragg	0.003	TV Boo	43244.663	59621	0.046	M. Baldwin	0.013
SZ Boo	42567.795	28552	0.013	M. Baldwin	0.005	TV Boo	43639.711	60885	0.019	M. Baldwin	0.012
SZ Boo	42576.688	28569	0.018	M. Baldwin	0.002	TV Boo	43981.655	61979	0.023	M. Baldwin	0.006
SZ Boo	42898.734	29185	0.007	M. Baldwin	0.003	TV Boo	43982.627	61982	0.058	M. Baldwin	0.008
SZ Boo	43629.634	30583	0.005	M. Baldwin	0.006	TV Boo	45455.705	66695	0.043	M. Heifner	0.002
SZ Boo	43630.692	30585	0.017	M. Baldwin	0.003	TV Boo	45471.646	66746	0.044	M. Baldwin	0.006
SZ Boo	43631.725	30587	0.005	M. Baldwin	0.006	TV Boo	46193.663	69056	0.049	M. Baldwin	0.017
SZ Boo	44375.701	32010	0.008	M. Baldwin	0.003	TV Boo	46529.648	70131	0.033	M. Baldwin	0.008
SZ Boo	44410.723	32077	0.001	G. Hanson	0.005	TV Boo	46534.654	70147	0.038	M. Baldwin	0.008
SZ Boo	44696.713	32624	0.009	M. Baldwin	0.005	TV Boo	46544.664	70179	0.046	G. Samolyk	0.003
SZ Boo	45496.620	34154	0.002	G. Chaple	0.004	TV Boo	46910.683	71350	0.058	M. Baldwin	0.006
SZ Boo	46150.682	35405	0.016	M. Baldwin	0.005	TV Boo	48029.650	74930	0.062	M. Baldwin	0.006
SZ Boo	46173.670	35449	0.000	M. Baldwin	0.003	TV Boo	48746.666	77224	0.067	M. Baldwin	0.012
SZ Boo	46527.618	36126	-0.001	M. Baldwin	0.005	TV Boo	50280.676	82132	0.036	M. Baldwin	0.003
SZ Boo	46550.616	36170	-0.007	M. Baldwin	0.003	TV Boo	51705.655	86691	0.057	G. Samolyk	0.004
SZ Boo	46563.707	36195	0.013	R. Hill	0.003	TW Boo	39293.768	23301	0.003	M. Baldwin	0.002
SZ Boo	46883.667	36807	0.008	M. Baldwin	0.005	TW Boo	39315.643	23342	0.055	M. Baldwin	0.005
SZ Boo	46905.627	36849	0.009	M. Baldwin	0.007	TW Boo	39325.701	23361	0.000	M. Baldwin	0.005
SZ Boo	46906.677	36851	0.014	M. Baldwin	0.007	TW Boo	39556.707	23795	-0.001	M. Baldwin	0.005
SZ Boo	47242.830	37494	-0.007	M. Baldwin	0.005	TW Boo	39664.767	23998	0.008	M. Baldwin	0.005
SZ Boo	47260.627	37528	0.015	M. Baldwin	0.006	TW Boo	39671.676	24011	-0.003	M. Baldwin	0.003
SZ Boo	47261.664	37530	0.006	M. Baldwin	0.004	TW Boo	39672.744	24013	0.001	M. Baldwin	0.004
SZ Boo	47296.695	37597	0.008	M. Baldwin	0.008	TW Boo	40331.697	25251	0.000	M. Baldwin	0.005
SZ Boo	47331.730	37664	0.014	M. Baldwin	0.005	TW Boo	40357.769	25300	-0.010	T. Cragg	0.003
SZ Boo	47650.639	38274	0.003	M. Baldwin	0.004	TW Boo	41815.684	28039	0.009	T. Cragg	0.002
SZ Boo	47685.668	38341	0.003	M. Baldwin	0.004	TW Boo	41865.708	28133	-0.001	T. Cragg	0.007
SZ Boo	48006.681	38955	0.005	M. Baldwin	0.004	TW Boo	41882.751	28165	0.010	T. Cragg	0.003
SZ Boo	48330.835	39575	0.010	M. Baldwin	0.005	TW Boo	42155.790	28678	-0.007	M. Baldwin	0.004
SZ Boo	48452.656	39808	0.014	M. Baldwin	0.004	TW Boo	42476.756	29281	-0.002	M. Baldwin	0.005
SZ Boo	48753.796	40384	0.010	M. Baldwin	0.003	TW Boo	42508.696	29341	0.002	M. Baldwin	0.009
SZ Boo	49095.721	41038	0.011	M. Baldwin	0.005	TW Boo	42509.753	29343	-0.006	M. Baldwin	0.005
SZ Boo	49117.677	41080	0.009	M. Baldwin	0.005	TW Boo	42523.598	29369	0.000	M. Baldwin	0.003
SZ Boo	49208.645	41254	0.006	M. Baldwin	0.003	TW Boo	42567.778	29452	0.001	M. Baldwin	0.004
SZ Boo	49417.777	41654	0.010	M. Baldwin	0.004	TW Boo	42863.709	30008	-0.012	M. Baldwin	0.005
SZ Boo	49428.750	41675	0.004	M. Baldwin	0.003	TW Boo	42871.701	30023	-0.004	M. Baldwin	0.008
SZ Boo	49430.839	41679	0.002	M. Baldwin	0.003	TW Boo	42873.825	30027	-0.009	M. Baldwin	0.004
SZ Boo	49450.710	41717	0.005	M. Baldwin	0.003	TW Boo	42886.607	30051	-0.001	M. Baldwin	0.005
SZ Boo	49460.648	41736	0.010	M. Baldwin	0.004	TW Boo	42887.680	30053	0.007	M. Baldwin	0.006
SZ Boo	49483.649	41780	0.007	M. Baldwin	0.004	TW Boo	42895.657	30068	0.000	M. Baldwin	0.006
SZ Boo	49564.692	41935	0.013	M. Baldwin	0.004	TW Boo	42897.792	30072	0.006	M. Baldwin	0.008
SZ Boo	49873.667	42526	0.001	M. Baldwin	0.006	TW Boo	42903.647	30083	0.006	M. Baldwin	0.005
SZ Boo	50184.754	43121	0.010	R. Hill	0.007	TW Boo	43217.676	30673	-0.006	M. Baldwin	0.006
SZ Boo	50285.657	43314	0.009	M. Baldwin	0.004	TW Boo	43241.628	30718	-0.007	M. Baldwin	0.006
SZ Boo	50548.634	43817	0.008	M. Baldwin	0.004	TW Boo	43242.694	30720	-0.005	M. Baldwin	0.004
SZ Boo	50629.666	43972	0.003	G. Chaple	0.008	TW Boo	43340.639	30904	0.002	M. Baldwin	0.003
SZ Boo	50926.638	44540	0.013	G. Samolyk	0.004	TW Boo	43373.642	30966	0.004	M. Baldwin	0.003
SZ Boo	50949.631	44584	0.002	G. Chaple	0.004	TW Boo	43612.627	31415	-0.002	M. Baldwin	0.005
SZ Boo	50950.678	44586	0.003	M. Baldwin	0.007	TW Boo	43629.655	31447	-0.007	M. Baldwin	0.003
SZ Boo	51040.603	44758	0.003	M. Baldwin	0.004	TW Boo	43630.720	31449	-0.006	M. Baldwin	0.006
SZ Boo	51327.632	45307	0.004	G. Chaple	0.006	TW Boo	43631.795	31451	0.004	M. Baldwin	0.004
SZ Boo	51350.630	45351	-0.002	G. Samolyk	0.002	TW Boo	43670.655	31524	0.008	M. Baldwin	0.006

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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>
TW Boo	43967.654	32082	-0.001	M. Baldwin	0.006	UU Boo	39671.680	7851	-0.013	M. Baldwin	0.003
TW Boo	43983.623	32112	0.000	M. Baldwin	0.003	UU Boo	39918.877	8392	-0.010	M. Baldwin	0.003
TW Boo	44314.686	32734	-0.011	M. Baldwin	0.002	UU Boo	40327.808	9287	-0.023	M. Baldwin	0.003
TW Boo	44453.622	32995	0.001	M. Baldwin	0.005	UU Boo	42571.767	14198	0.000	M. Baldwin	0.004
TW Boo	44630.873	33328	0.005	G. Hanson	0.004	UU Boo	42572.671	14200	-0.010	M. Baldwin	0.003
TW Boo	44686.752	33433	-0.004	G. Hanson	0.004	UU Boo	42576.791	14209	-0.002	M. Baldwin	0.006
TW Boo	44701.657	33461	-0.003	M. Baldwin	0.005	UU Boo	42873.788	14859	-0.004	M. Baldwin	0.004
TW Boo	44726.668	33508	-0.009	M. Baldwin	0.004	UU Boo	42874.699	14861	-0.007	M. Baldwin	0.003
TW Boo	45131.733	34269	-0.004	M. Baldwin	0.006	UU Boo	42895.736	14907	0.012	M. Baldwin	0.006
TW Boo	45459.628	34885	0.011	M. Baldwin	0.009	UU Boo	42917.659	14955	0.003	M. Baldwin	0.003
TW Boo	45460.675	34887	-0.006	M. Baldwin	0.007	UU Boo	43228.819	15636	0.000	M. Baldwin	0.004
TW Boo	45493.675	34949	-0.007	M. Baldwin	0.009	UU Boo	43244.813	15671	0.002	M. Baldwin	0.002
TW Boo	45509.649	34979	-0.002	G. Chaple	0.004	UU Boo	43245.730	15673	0.005	M. Baldwin	0.006
TW Boo	45550.637	35056	0.001	G. Chaple	0.003	UU Boo	43272.688	15732	0.005	M. Baldwin	0.007
TW Boo	46178.702	36236	-0.016	M. Baldwin	0.007	UU Boo	43606.692	16463	0.000	M. Baldwin	0.004
TW Boo	46193.612	36264	-0.010	M. Baldwin	0.005	UU Boo	43610.811	16472	0.007	M. Baldwin	0.004
TW Boo	46194.679	36266	-0.007	M. Baldwin	0.008	UU Boo	43612.638	16476	0.006	M. Baldwin	0.004
TW Boo	46196.811	36270	-0.004	M. Baldwin	0.003	UU Boo	43626.803	16507	0.006	M. Baldwin	0.004
TW Boo	46210.652	36296	-0.002	M. Baldwin	0.008	UU Boo	43631.837	16518	0.014	M. Baldwin	0.007
TW Boo	46253.620	36884	-0.011	M. Baldwin	0.004	UU Boo	43654.673	16568	0.004	M. Baldwin	0.004
TW Boo	46531.597	36899	-0.018	M. Baldwin	0.004	UU Boo	43669.760	16601	0.013	M. Baldwin	0.003
TW Boo	46532.667	36901	-0.013	M. Baldwin	0.006	UU Boo	43670.672	16603	0.011	M. Baldwin	0.005
TW Boo	46556.616	36946	-0.016	M. Baldwin	0.004	UU Boo	44349.660	18089	0.015	M. Baldwin	0.006
TW Boo	46679.591	37177	0.004	M. Baldwin	0.005	UU Boo	44365.642	18124	0.005	M. Baldwin	0.002
TW Boo	46831.809	37463	-0.008	M. Baldwin	0.006	UU Boo	44375.711	18146	0.022	M. Baldwin	0.005
TW Boo	46878.649	37551	-0.008	M. Baldwin	0.005	UU Boo	44731.640	18925	0.010	M. Baldwin	0.003
TW Boo	46881.856	37557	0.005	P. Atwood	0.005	UU Boo	45447.647	20492	0.022	G. Chaple	0.003
TW Boo	46888.767	37570	-0.003	M. Baldwin	0.006	UU Boo	45511.618	20632	0.024	G. Chaple	0.003
TW Boo	46894.614	37581	-0.011	M. Baldwin	0.007	UU Boo	45532.640	20678	0.028	G. Chaple	0.005
TW Boo	46911.645	37613	-0.013	M. Baldwin	0.004	UU Boo	46142.636	22013	0.035	M. Baldwin	0.005
TW Boo	46944.650	37675	-0.009	M. Baldwin	0.005	UU Boo	46142.646	22013	0.045	G. Samolyk	0.003
TW Boo	46945.723	37677	0.000	M. Baldwin	0.007	UU Boo	46173.704	22081	0.032	M. Baldwin	0.004
TW Boo	46970.733	37724	-0.007	R. Hill	0.004	UU Boo	46174.620	22083	0.035	M. Baldwin	0.005
TW Boo	47002.668	37784	-0.009	M. Baldwin	0.004	UU Boo	46178.732	22092	0.034	M. Baldwin	0.005
TW Boo	47083.574	37936	-0.008	M. Baldwin	0.004	UU Boo	46194.718	22127	0.028	M. Baldwin	0.005
TW Boo	47233.671	38218	-0.012	M. Baldwin	0.007	UU Boo	46210.712	22162	0.030	M. Baldwin	0.003
TW Boo	47241.656	38233	-0.011	M. Baldwin	0.006	UU Boo	46280.619	22315	0.028	M. Baldwin	0.008
TW Boo	47242.730	38235	-0.002	M. Baldwin	0.007	UU Boo	46511.824	22821	0.031	G. Samolyk	0.002
TW Boo	47266.678	38280	-0.006	M. Baldwin	0.007	UU Boo	46523.701	22847	0.028	M. Baldwin	0.004
TW Boo	47299.660	38342	-0.025	M. Baldwin	0.004	UU Boo	46529.649	22860	0.036	M. Baldwin	0.005
TW Boo	47325.760	38391	-0.007	M. Baldwin	0.004	UU Boo	46534.676	22871	0.037	M. Baldwin	0.004
TW Boo	47557.814	38827	-0.024	M. Baldwin	0.004	UU Boo	46550.666	22906	0.035	M. Baldwin	0.004
TW Boo	47628.612	38960	-0.018	M. Baldwin	0.004	UU Boo	46565.747	22939	0.038	R. Hill	0.006
TW Boo	47670.668	39039	-0.012	M. Baldwin	0.004	UU Boo	46570.776	22950	0.041	R. Hill	0.002
TW Boo	47943.721	39552	-0.015	M. Baldwin	0.005	UU Boo	46850.862	23563	0.034	M. Baldwin	0.003
TW Boo	47976.725	39614	-0.012	M. Baldwin	0.005	UU Boo	46861.836	23587	0.042	M. Baldwin	0.008
TW Boo	48067.746	39785	-0.009	M. Baldwin	0.003	UU Boo	46888.792	23646	0.040	M. Baldwin	0.005
TW Boo	48331.749	40281	-0.014	M. Baldwin	0.008	UU Boo	46905.698	23683	0.040	M. Baldwin	0.004
TW Boo	48412.648	40433	-0.020	M. Baldwin	0.005	UU Boo	46906.616	23685	0.044	M. Baldwin	0.004
TW Boo	48413.726	40435	-0.007	M. Baldwin	0.005	UU Boo	46910.723	23694	0.039	M. Baldwin	0.001
TW Boo	48421.712	40450	-0.005	M. Baldwin	0.003	UU Boo	46911.634	23696	0.036	M. Baldwin	0.003
TW Boo	49428.750	42342	-0.028	M. Baldwin	0.005	UU Boo	46916.656	23707	0.032	M. Baldwin	0.003
TW Boo	49929.633	43283	-0.014	M. Baldwin	0.004	UU Boo	46942.705	23764	0.036	M. Baldwin	0.004
TW Boo	50285.728	43952	-0.009	M. Baldwin	0.005	UU Boo	46968.758	23821	0.045	R. Hill	0.003
TW Boo	50539.611	44429	-0.021	M. Baldwin	0.007	UU Boo	46973.779	23832	0.040	M. Baldwin	0.003
TW Boo	50564.629	44476	-0.020	M. Baldwin	0.006	UU Boo	46974.692	23834	0.039	M. Baldwin	0.005
TW Boo	50614.660	44570	-0.022	G. Chaple	0.003	UU Boo	47001.654	23893	0.042	M. Baldwin	0.003
TW Boo	50632.752	44604	-0.028	M. Baldwin	0.003	UU Boo	47038.661	23974	0.039	M. Baldwin	0.005
TW Boo	55377.403	53518	-0.059	J. Starzomski	0.008	UU Boo	47260.736	24460	0.051	M. Baldwin	0.008
UU Boo	39293.803	7024	-0.017	M. Baldwin	0.004	UU Boo	47261.642	24462	0.043	M. Baldwin	0.005
UU Boo	39310.720	7061	-0.006	M. Baldwin	0.006	UU Boo	47266.675	24473	0.050	M. Baldwin	0.006
UU Boo	39315.739	7072	-0.013	M. Baldwin	0.003	UU Boo	47293.641	24532	0.057	M. Baldwin	0.006
UU Boo	39348.631	7144	-0.019	M. Baldwin	0.006	UU Boo	47615.766	25237	0.053	R. Hill	0.004
UU Boo	39595.829	7685	-0.015	M. Baldwin	0.006	UU Boo	47648.667	25309	0.056	M. Baldwin	0.007
UU Boo	39655.675	7816	-0.026	M. Baldwin	0.004	UU Boo	47678.815	25375	0.047	R. Hill	0.002

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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>
UU Boo	47679.741	25377	0.059	R. Hill	0.011	UY Boo	44340.666	3849	-0.097	M. Baldwin	0.005
UU Boo	47685.669	25390	0.048	M. Baldwin	0.004	UY Boo	44342.628	3852	-0.088	M. Baldwin	0.009
UU Boo	47976.731	26027	0.051	M. Baldwin	0.002	UY Boo	44351.735	3866	-0.093	M. Baldwin	0.005
UU Boo	48004.613	26088	0.061	M. Baldwin	0.005	UY Boo	44353.685	3869	-0.095	M. Baldwin	0.006
UU Boo	48330.858	26802	0.065	M. Baldwin	0.005	UY Boo	44368.647	3892	-0.103	M. Baldwin	0.006
UU Boo	48353.703	26852	0.064	M. Baldwin	0.004	UY Boo	44407.704	3952	-0.096	G. Hanson	0.006
UU Boo	48364.664	26876	0.059	M. Baldwin	0.005	UY Boo	44696.677	4396	-0.094	M. Baldwin	0.008
UU Boo	48421.780	27001	0.060	M. Baldwin	0.004	UY Boo	44726.620	4442	-0.089	M. Baldwin	0.005
UU Boo	48454.686	27073	0.067	M. Baldwin	0.004	UY Boo	45464.646	5576	-0.113	M. Baldwin	0.003
UU Boo	48508.594	27191	0.059	M. Baldwin	0.004	UY Boo	46150.696	6630	-0.044	M. Baldwin	0.004
UU Boo	48685.880	27579	0.060	M. Baldwin	0.002	UY Boo	46174.764	6667	-0.057	M. Baldwin	0.005
UU Boo	48746.659	27712	0.068	M. Baldwin	0.003	UY Boo	46176.724	6670	-0.050	M. Baldwin	0.005
UU Boo	48762.650	27747	0.067	G. Samolyk	0.002	UY Boo	46193.637	6696	-0.059	M. Baldwin	0.004
UU Boo	49104.894	28496	0.077	M. Baldwin	0.005	UY Boo	46521.698	7200	-0.019	M. Baldwin	0.006
UU Boo	49117.679	28524	0.069	M. Baldwin	0.004	UY Boo	46523.649	7203	-0.021	M. Baldwin	0.005
UU Boo	49122.714	28535	0.078	M. Baldwin	0.006	UY Boo	46532.749	7217	-0.032	M. Baldwin	0.004
UU Boo	49133.676	28559	0.073	M. Baldwin	0.003	UY Boo	46534.702	7220	-0.032	M. Baldwin	0.004
UU Boo	49158.800	28614	0.067	M. Baldwin	0.002	UY Boo	46560.736	7260	-0.031	R. Hill	0.006
UU Boo	49208.611	28723	0.073	M. Baldwin	0.004	UY Boo	46564.687	7266	0.015	R. Hill	0.005
UU Boo	49213.643	28734	0.079	M. Baldwin	0.004	UY Boo	46601.726	7323	-0.044	R. Hill	0.008
UU Boo	49240.596	28793	0.074	M. Baldwin	0.002	UY Boo	46888.781	7764	-0.008	M. Baldwin	0.009
UU Boo	49483.679	29325	0.075	M. Baldwin	0.004	UY Boo	46894.632	7773	-0.014	M. Baldwin	0.005
UU Boo	49880.770	30194	0.102	R. Hill	0.008	UY Boo	46905.693	7790	-0.017	M. Baldwin	0.005
UU Boo	49901.784	30240	0.098	M. Baldwin	0.007	UY Boo	46935.627	7836	-0.022	M. Baldwin	0.005
UU Boo	49918.679	30277	0.087	M. Baldwin	0.004	UY Boo	46948.648	7856	-0.018	M. Baldwin	0.005
UU Boo	49955.685	30358	0.082	M. Baldwin	0.004	UY Boo	47233.733	8294	0.001	M. Baldwin	0.006
UU Boo	50539.635	31636	0.088	M. Baldwin	0.003	UY Boo	47604.721	8864	0.012	G. Samolyk	0.005
UU Boo	50542.847	31643	0.102	M. Baldwin	0.003	UY Boo	47621.651	8890	0.021	M. Baldwin	0.006
UU Boo	50921.645	32472	0.113	M. Baldwin	0.004	UY Boo	48005.695	9480	0.071	M. Baldwin	0.009
UU Boo	50958.644	32553	0.101	G. Chaple	0.003	UY Boo	48007.644	9483	0.067	M. Baldwin	0.005
UU Boo	50967.795	32573	0.114	R. Berg	0.005	UY Boo	48357.835	10021	0.108	M. Baldwin	0.003
UU Boo	51005.714	32656	0.108	R. Berg	0.004	UY Boo	48413.779	10107	0.081	M. Baldwin	0.005
UU Boo	51021.707	32691	0.109	R. Berg	0.003	UY Boo	48743.785	10614	0.112	M. Baldwin	0.011
UU Boo	51253.827	33199	0.113	M. Baldwin	0.004	UY Boo	48745.735	10617	0.110	M. Baldwin	0.005
UU Boo	51253.827	33199	0.113	R. Berg	0.002	UY Boo	49433.763	11674	0.204	M. Baldwin	0.009
UU Boo	51275.762	33247	0.116	M. Baldwin	0.004	UY Boo	49450.659	11700	0.178	M. Baldwin	0.004
UU Boo	51276.672	33249	0.112	M. Baldwin	0.003	UY Boo	49457.840	11711	0.199	M. Baldwin	0.004
UU Boo	51281.697	33260	0.111	R. Berg	0.005	UY Boo	49474.767	11737	0.204	M. Baldwin	0.006
UU Boo	51318.711	33341	0.115	M. Baldwin	0.005	UY Boo	49787.890	12218	0.276	M. Baldwin	0.006
UU Boo	51329.681	33365	0.119	G. Chaple	0.005	UY Boo	49812.682	12256	0.336	M. Baldwin	0.006
UU Boo	51420.601	33564	0.111	M. Baldwin	0.003	UY Boo	49813.782	12258	0.134	R. Hill	0.007
UU Boo	51629.879	34022	0.120	R. Berg	0.007	UY Boo	49920.693	12422	0.308	M. Baldwin	0.007
UU Boo	51641.752	34048	0.113	R. Hill	0.007	UY Boo	50222.732	12886	0.359	M. Baldwin	0.005
UU Boo	51657.758	34083	0.127	R. Berg	0.005	UY Boo	50518.880	13341	0.376	M. Baldwin	0.006
UU Boo	53445.736	37996	0.175	R. Huziak	0.003	UY Boo	50539.695	13373	0.364	M. Baldwin	0.004
UY Boo	39315.707	-3872	0.052	M. Baldwin	0.005	UY Boo	50542.928	13378	0.343	M. Baldwin	0.006
UY Boo	39330.672	-3849	0.048	M. Baldwin	0.005	UY Boo	50580.684	13436	0.351	M. Baldwin	0.006
UY Boo	42560.714	1114	-0.011	M. Baldwin	0.008	UY Boo	50923.681	13963	0.357	M. Baldwin	0.007
UY Boo	42586.627	1154	-0.132	M. J. Taylor	0.007	UY Boo	50951.644	14006	0.333	M. Baldwin	0.006
UY Boo	42873.709	1595	-0.070	M. Baldwin	0.006	UY Boo	50990.717	14066	0.357	M. Baldwin	0.007
UY Boo	43242.723	2162	-0.079	M. Baldwin	0.003	UY Boo	51007.639	14092	0.357	M. Baldwin	0.005
UY Boo	43244.676	2165	-0.080	M. Baldwin	0.006	UY Boo	51275.802	14504	0.376	M. Baldwin	0.005
UY Boo	43246.627	2168	-0.081	M. Baldwin	0.004	UY Boo	51318.756	14570	0.375	M. Baldwin	0.003
UY Boo	43626.678	2752	-0.118	M. Baldwin	0.004	UY Boo	54574.639	19572	0.773	G. Chaple	0.005
UY Boo	43654.664	2795	-0.118	M. Baldwin	0.005	UY Boo	54615.660	19635	0.792	G. Chaple	0.007
UY Boo	43669.640	2818	-0.112	M. Baldwin	0.009						