

Recent Maxima of 67 Short Period Pulsating Stars

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Abstract This paper contains times of maxima for 67 short period pulsating stars (primarily RR Lyrae and δ Scuti stars). These maxima represent the CCD observations received by the AAVSO Short Period Pulsator (SPP) section in 2014.

1. Recent observations

The 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/gsamoj431.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.ast.obs-mip.fr/dbrr/dbrr-V1.0_0.php. This database does not include δ Scuti stars. These observations were reduced by the writer using the PERANSO program (Vanmunster 2007). Column F indicates the filter used.

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 and DG Hya (Samolyk 2010), and VY LMi (Henden and Vidal-Sainz 1997).

References

- Henden, A. A., and Vidal-Sainz, J. 1997, *Inf. Bull. Var. Stars.*, No. 4535, 1.
 Kholopov, P. N., *et al.* 1985, *General Catalogue of Variable Stars*, 4th ed., Moscow.
 Samolyk, G., 2010, *J. Amer. Assoc. Var. Stars*, **38**, 12 .
 Vanmunster, T. 2007, PERANSO period analysis software (<http://www.peranso.com>).

Table 1. Recent times of maxima of stars in the AAVSO Short Period Pulsator program.

<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000 +</i>	<i>Cycle</i>	<i>O–C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000 +</i>	<i>Cycle</i>	<i>O–C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>
SW And	56667.2931	87128	–0.4226	V	T. Arranz	0.0007	TZ Aur	56687.3511	93917	0.0139	V	T. Arranz	0.0006
SW And	56674.3675	87144	–0.4247	V	T. Arranz	0.0006	TZ Aur	56699.4895	93948	0.0104	V	T. Arranz	0.0005
SW And	56683.6561	87165	–0.4240	V	R. Sabo	0.0019	TZ Aur	56710.4588	93976	0.0128	V	T. Arranz	0.0006
SW And	56705.3260	87214	–0.4258	V	T. Arranz	0.0008	TZ Aur	56723.3848	94009	0.0135	V	T. Arranz	0.0006
SW And	56923.8071	87708	–0.4307	V	G. Samolyk	0.0012	TZ Aur	56923.9222	94521	0.0135	V	G. Samolyk	0.0007
SW And	56960.5106	87791	–0.4364	V	T. Arranz	0.0006	BH Aur	56668.3176	30513	0.0075	V	T. Arranz	0.0011
SW And	56988.3755	87854	–0.4351	V	T. Arranz	0.0009	BH Aur	56674.7013	30527	0.0060	V	R. Sabo	0.0012
SW And	57000.3176	87881	–0.4346	V	T. Arranz	0.0012	BH Aur	56677.4400	30533	0.0081	V	T. Arranz	0.0009
SW And	57019.3288	87924	–0.4414	V	T. Arranz	0.0007	BH Aur	56680.6275	30540	0.0030	V	K. Menzies	0.0009
XX And	56894.7450	24638	0.2638	V	K. Menzies	0.0012	BH Aur	56694.3128	30570	0.0056	V	T. Arranz	0.0008
XX And	56925.8233	24681	0.2639	V	R. Sabo	0.0017	BH Aur	56699.3297	30581	0.0055	V	T. Arranz	0.0007
XX And	56951.8430	24717	0.2647	V	R. Sabo	0.0016	BH Aur	56708.4515	30601	0.0055	V	T. Arranz	0.0007
ZZ And	56679.6461	57438	0.0236	V	R. Sabo	0.0021	BH Aur	56952.9142	31137	0.0041	V	G. Samolyk	0.0013
ZZ And	56999.6125	58015	0.0247	V	R. Sabo	0.0017	BH Aur	56999.8910	31240	0.0036	V	R. Sabo	0.0020
AC And	56961.4013	46644	0.0152	V	T. Arranz	0.0021	BH Aur	57020.4154	31285	0.0040	V	T. Arranz	0.0007
AC And	56966.4233	46654	–0.2140	V	T. Arranz	0.0009	RS Boo	56742.9222	39679	–0.0004	V	G. Samolyk	0.0011
AC And	56986.3651	46692	–0.2270	V	T. Arranz	0.0016	RS Boo	56779.9093	39777	0.0075	V	R. Sabo	0.0011
AT And	56924.8156	23636	–0.0019	V	G. Samolyk	0.0024	RS Boo	56793.4871	39813	0.0011	V	T. Arranz	0.0005
AT And	56949.4889	23676	–0.0052	V	T. Arranz	0.0025	RS Boo	56801.4094	39834	–0.0007	V	T. Arranz	0.0007
AT And	56962.4432	23697	–0.0061	V	T. Arranz	0.0014	RS Boo	56830.4705	39911	0.0053	V	T. Arranz	0.0006
AT And	56980.3316	23726	–0.0083	V	T. Arranz	0.0009	RS Boo	56847.4502	39956	0.0047	V	T. Arranz	0.0005
AT And	56999.4480	23757	–0.0162	V	T. Arranz	0.0015	ST Boo	56746.7831	60366	0.0975	V	G. Samolyk	0.0016
SW Aqr	56901.3660	69244	–0.0005	V	T. Arranz	0.0007	ST Boo	56807.7759	60464	0.1058	V	R. Sabo	0.0021
TZ Aqr	56934.6749	33939	0.0116	V	R. Sabo	0.0018	ST Boo	56826.4514	60494	0.1126	V	T. Arranz	0.0008
YZ Aqr	56915.7857	39047	0.0718	V	R. Sabo	0.0017	ST Boo	56831.4292	60502	0.1121	V	T. Arranz	0.0006
AA Aqr	56956.6942	59466	–0.1495	V	G. Samolyk	0.0013	ST Boo	56849.4762	60531	0.1126	V	T. Arranz	0.0007
BR Aqr	56890.9242	39958	–0.1959	V	G. Samolyk	0.0014	ST Boo	56854.4535	60539	0.1116	V	T. Arranz	0.0008
CY Aqr	56930.4705	370620	0.0140	V	T. Arranz	0.0002	ST Boo	56877.4803	60576	0.1136	V	T. Arranz	0.0007
TZ Aur	56680.3007	93899	0.0136	V	T. Arranz	0.0005	SW Boo	56699.8730	27513	0.4144	V	K. Menzies	0.0009
TZ Aur	56681.4765	93902	0.0144	V	T. Arranz	0.0007	SW Boo	56790.7727	27690	0.4196	V	R. Sabo	0.0013
TZ Aur	56682.6518	93905	0.0147	V	R. Sabo	0.0008	SZ Boo	56773.8500	55724	0.0085	V	G. Samolyk	0.0012

Table continued on following pages

Table 1. Recent times of maxima of stars in the AAVSO Short Period Pulsator program, cont.

<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>
SZ Boo	56808.8808	55791	0.0103	V	R. Sabo	0.0019	XZ Cyg	56913.3727	27408	-2.3809	V	T. Arranz	0.0013
SZ Boo	56811.4941	55796	0.0095	V	T. Arranz	0.0011	XZ Cyg	56920.3720	27423	-2.3821	V	T. Arranz	0.0004
SZ Boo	56839.7256	55850	0.0088	V	R. Sabo	0.0015	XZ Cyg	56926.4344	27436	-2.3868	V	T. Arranz	0.0006
TV Boo	56753.8398	102842	0.0951	V	G. Samolyk	0.0020	XZ Cyg	56927.3685	27438	-2.3861	V	T. Arranz	0.0006
TV Boo	56790.4232	102959	0.1091	V	T. Arranz	0.0011	XZ Cyg	56934.3681	27453	-2.3870	V	T. Arranz	0.0006
TV Boo	56795.3981	102975	0.0830	V	T. Arranz	0.0008	XZ Cyg	56948.3537	27483	-2.4024	V	T. Arranz	0.0006
TV Boo	56799.4935	102988	0.1151	V	T. Arranz	0.0007	XZ Cyg	56949.2880	27485	-2.4015	V	T. Arranz	0.0007
TV Boo	56820.4342	103055	0.1144	V	T. Arranz	0.0007	XZ Cyg	56955.3513	27498	-2.4053	V	T. Arranz	0.0006
TV Boo	56850.4303	103151	0.1048	V	T. Arranz	0.0018	XZ Cyg	56962.3584	27513	-2.3987	V	T. Arranz	0.0008
TV Boo	56857.6291	103174	0.1147	V	K. Menzies	0.0021	DM Cyg	56862.7597	34012	0.0754	V	R. Sabo	0.0011
TW Boo	56696.8891	55997	-0.0785	V	K. Menzies	0.0007	DM Cyg	56877.8795	34048	0.0802	V	R. Sabo	0.0015
TW Boo	56737.8733	56074	-0.0793	V	G. Samolyk	0.0011	DM Cyg	56890.4748	34078	0.0797	V	T. Arranz	0.0007
TW Boo	56796.4220	56184	-0.0807	V	T. Arranz	0.0009	DM Cyg	56893.4113	34085	0.0772	V	T. Arranz	0.0006
TW Boo	56812.3891	56214	-0.0818	V	T. Arranz	0.0005	DM Cyg	56896.3532	34092	0.0801	V	T. Arranz	0.0007
TW Boo	56813.4543	56216	-0.0811	V	T. Arranz	0.0006	DM Cyg	56899.7107	34100	0.0787	V	K. Menzies	0.0007
TW Boo	56817.7129	56224	-0.0807	V	R. Sabo	0.0014	DM Cyg	56912.7280	34131	0.0803	V	R. Sabo	0.0010
TW Boo	56846.4556	56278	-0.0807	V	T. Arranz	0.0007	DM Cyg	56914.8234	34136	0.0764	V	R. Sabo	0.0009
TW Boo	56862.4216	56308	-0.0829	V	T. Arranz	0.0008	DM Cyg	56930.3607	34173	0.0789	V	T. Arranz	0.0005
UU Boo	56750.7411	45229	0.2738	V	K. Menzies	0.0007	DM Cyg	56935.3979	34185	0.0778	V	T. Arranz	0.0006
UU Boo	56828.4198	45399	0.2760	V	T. Arranz	0.0010	DM Cyg	56956.3915	34235	0.0784	V	T. Arranz	0.0008
UU Boo	56838.4722	45421	0.2762	V	T. Arranz	0.0007	DM Cyg	56959.3308	34242	0.0787	V	T. Arranz	0.0007
UU Boo	56865.4308	45480	0.2765	V	T. Arranz	0.0006	RW Dra	56807.7487	39353	0.2450	V	G. Samolyk	0.0014
UY Boo	56766.8033	22940	0.9200	V	G. Samolyk	0.0015	RW Dra	56825.4246	39393	0.2042	V	T. Arranz	0.0008
UY Boo	56782.4261	22964	0.9227	V	T. Arranz	0.0013	RW Dra	56836.5231	39418	0.2298	V	T. Arranz	0.0007
UY Boo	56810.3924	23007	0.9030	V	T. Arranz	0.0007	RW Dra	56848.4956	39445	0.2435	V	T. Arranz	0.0007
UY Cam	56924.7925	79986	-0.0951	V	G. Samolyk	0.0037	RW Dra	56856.4518	39463	0.2272	V	T. Arranz	0.0006
RW Cnc	56676.7445	31287	0.2154	V	R. Sabo	0.0015	RW Dra	56864.4003	39481	0.2032	V	T. Arranz	0.0010
RW Cnc	56682.7602	31298	0.2119	V	R. Sabo	0.0011	RW Dra	56880.3848	39517	0.2427	V	T. Arranz	0.0008
RW Cnc	56725.4536	31376	0.2238	V	T. Arranz	0.0012	RW Dra	56883.4896	39524	0.2471	V	T. Arranz	0.0007
RW Cnc	56730.3699	31385	0.2153	V	T. Arranz	0.0007	RW Dra	56895.4352	39551	0.2339	V	T. Arranz	0.0007
RW Cnc	56731.4685	31387	0.2195	V	T. Arranz	0.0009	RW Dra	56899.4062	39560	0.2187	V	T. Arranz	0.0005
RW Cnc	56736.3869	31396	0.2131	V	T. Arranz	0.0008	RW Dra	56907.3682	39578	0.2082	V	T. Arranz	0.0008
RW Cnc	56742.4046	31407	0.2116	V	T. Arranz	0.0007	SV Eri	56994.7835	30039	0.9444	V	R. Sabo	0.0034
RW Cnc	56743.4979	31409	0.2105	V	T. Arranz	0.0008	BB Eri	56956.8538	30527	0.2866	V	G. Samolyk	0.0013
RW Cnc	56753.3530	31427	0.2160	V	T. Arranz	0.0006	RR Gem	56675.7959	38557	-0.5139	V	R. Sabo	0.0009
RW Cnc	56759.3750	31438	0.2188	V	T. Arranz	0.0008	RR Gem	56691.2925	38596	-0.5124	V	T. Arranz	0.0007
RW Cnc	56760.4680	31440	0.2174	V	T. Arranz	0.0012	RR Gem	56708.3832	38639	-0.5061	V	T. Arranz	0.0011
RW Cnc	56765.3924	31449	0.2170	V	T. Arranz	0.0010	RR Gem	56710.3605	38644	-0.5153	V	T. Arranz	0.0008
RW Cnc	56766.4823	31451	0.2126	V	T. Arranz	0.0011	RR Gem	56712.3461	38649	-0.5163	V	T. Arranz	0.0005
TT Cnc	56773.5965	29868	0.1228	V	G. Samolyk	0.0015	RR Gem	56716.3188	38659	-0.5167	V	T. Arranz	0.0007
TT Cnc	57011.9217	30291	0.1089	V	K. Menzies	0.0012	RR Gem	56723.4730	38677	-0.5141	V	T. Arranz	0.0006
KV Cnc	56687.4848	7821	-0.1504	V	T. Arranz	0.0006	RR Gem	56727.4477	38687	-0.5125	V	T. Arranz	0.0009
KV Cnc	56690.5039	7827	-0.1433	V	T. Arranz	0.0008	RR Gem	56729.4328	38692	-0.5139	V	T. Arranz	0.0008
KV Cnc	56691.5074	7829	-0.1438	V	T. Arranz	0.0005	RR Gem	56733.4000	38702	-0.5198	V	T. Arranz	0.0005
KV Cnc	56774.3623	7994	-0.1189	V	T. Arranz	0.0006	RR Gem	56735.3899	38707	-0.5165	V	T. Arranz	0.0007
KV Cnc	56776.3743	7998	-0.1149	V	T. Arranz	0.0020	RR Gem	56739.3617	38717	-0.5178	V	T. Arranz	0.0004
KV Cnc	56778.3873	8002	-0.1099	V	T. Arranz	0.0010	RR Gem	56741.3464	38722	-0.5197	V	T. Arranz	0.0006
RV Cap	56923.6404	51459	-0.0806	V	G. Samolyk	0.0022	RR Gem	56743.3362	38727	-0.5164	V	T. Arranz	0.0005
RZ Cap	56953.6198	13887	0.0051	V	G. Samolyk	0.0010	RR Gem	56758.4327	38765	-0.5177	V	T. Arranz	0.0007
VW Cap	51410.6407	82737	0.1111	V	G. Samolyk	0.0038	RR Gem	56764.3929	38780	-0.5172	V	T. Arranz	0.0006
VW Cap	54710.8024	93238	0.2285	V	G. Samolyk	0.0017	RR Gem	56766.3801	38785	-0.5165	V	T. Arranz	0.0006
VW Cap	55087.6010	94437	0.2294	V	G. Samolyk	0.0048	RR Gem	56949.9215	39247	-0.5326	V	R. Sabo	0.0009
VW Cap	56892.7148	100181	0.2337	V	G. Samolyk	0.0024	TW Her	56837.8979	88320	-0.0173	V	R. Sabo	0.0009
YZ Cap	56893.6918	48139	0.0380	V	G. Samolyk	0.0022	TW Her	56871.4651	88404	-0.0165	V	T. Arranz	0.0004
RR Cet	56952.7802	42984	0.0146	V	G. Samolyk	0.0013	TW Her	56873.4637	88409	-0.0159	V	T. Arranz	0.0006
RU Cet	56897.8451	29118	0.1331	V	G. Samolyk	0.0017	TW Her	56889.4477	88449	-0.0159	V	T. Arranz	0.0006
RV Cet	56929.8412	28579	0.2439	V	G. Samolyk	0.0017	TW Her	56915.4233	88514	-0.0143	V	T. Arranz	0.0007
RX Cet	57003.5810	29419	0.3429	V	G. Samolyk	0.0018	TW Her	56931.4055	88554	-0.0161	V	T. Arranz	0.0008
UU Cet	56998.6417	26053	-0.1626	R	G. Samolyk	0.0017	VX Her	56791.8505	76951	-0.0261	V	R. Sabo	0.0019
XZ Cyg	56801.8562	27169	-2.3561	V	G. Samolyk	0.0017	VX Her	56807.7860	76986	-0.0286	V	G. Samolyk	0.0008
XZ Cyg	56816.7867	27201	-2.3600	V	K. Menzies	0.0006	VX Her	56828.7307	77032	-0.0311	V	R. Sabo	0.0011
XZ Cyg	56885.3692	27348	-2.3824	V	T. Arranz	0.0007	VX Her	56858.7861	77098	-0.0303	V	R. Sabo	0.0012
XZ Cyg	56892.3660	27363	-2.3861	V	T. Arranz	0.0006	VX Her	56867.4364	77117	-0.0321	V	T. Arranz	0.0006
XZ Cyg	56905.4348	27391	-2.3849	V	T. Arranz	0.0007	VZ Her	56739.7890	45309	0.0746	V	K. Menzies	0.0011
XZ Cyg	56906.3678	27393	-2.3853	V	T. Arranz	0.0007	VZ Her	56813.7656	45477	0.0761	V	R. Sabo	0.0008
XZ Cyg	56912.4398	27406	-2.3804	V	T. Arranz	0.0007	AR Her	56742.9245	32530	-1.4333	V	G. Samolyk	0.0012

Table continued on next page

Table 1. Recent times of maxima of stars in the AAVSO Short Period Pulsator program, cont.

<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>	<i>Star</i>	<i>JD (max)</i> <i>Hel.</i> <i>2400000+</i>	<i>Cycle</i>	<i>O-C</i>	<i>F</i>	<i>Observer</i>	<i>Error</i>
AR Her	56766.9209	32581	-1.4084	V	G. Samolyk	0.0010	SZ Lyn	56952.9421	156208	0.0251	V	G. Samolyk	0.0007
AR Her	56767.8561	32583	-1.4132	V	K. Menzies	0.0006	SZ Lyn	56966.9246	156324	0.0255	V	G. Samolyk	0.0007
AR Her	56807.7835	32668	-1.4382	V	G. Samolyk	0.0011	SZ Lyn	57022.7325	156787	0.0258	V	N. Simmons	0.0005
AR Her	56844.4484	32746	-1.4355	V	T. Arranz	0.0013	SZ Lyn	57022.8531	156788	0.0258	V	N. Simmons	0.0005
AR Her	56846.8362	32751	-1.3978	V	R. Sabo	0.0020	RR Lyr	56915.6843	24684	-0.2988	V	H. Smith	0.0012
AR Her	56851.5440	32761	-1.3903	V	T. Arranz	0.0006	RR Lyr	56919.6504	24691	-0.3008	V	H. Smith	0.0009
AR Her	56852.4934	32763	-1.3810	V	T. Arranz	0.0006	RR Lyr	56940.6201	24728	-0.3052	V	H. Smith	0.0012
AR Her	56853.4178	32765	-1.3966	V	T. Arranz	0.0008	RR Lyr	56953.6547	24751	-0.3085	V	G. Samolyk	0.0014
AR Her	56860.4549	32780	-1.4099	V	T. Arranz	0.0007	RZ Lyr	56805.9235	30558	-0.0447	V	R. Sabo	0.0021
AR Her	56861.3965	32782	-1.4084	V	T. Arranz	0.0010	MW Lyr	56850.6275	52304	0.0348	V	K. Menzies	0.0021
AR Her	56868.4167	32797	-1.4386	V	T. Arranz	0.0008	AV Peg	56807.9068	33346	0.1561	V	R. Sabo	0.0013
AR Her	56876.4430	32814	-1.4028	V	T. Arranz	0.0007	AV Peg	56896.9169	33574	0.1607	V	R. Sabo	0.0014
AR Her	56884.4420	32831	-1.3943	V	T. Arranz	0.0009	AV Peg	56900.8174	33584	0.1575	V	G. Samolyk	0.0011
DL Her	56790.9064	31409	0.0387	V	R. Sabo	0.0017	AV Peg	56902.3821	33588	0.1607	V	T. Arranz	0.0007
DL Her	56881.4331	31562	0.0464	V	T. Arranz	0.0007	AV Peg	56918.3858	33629	0.1590	V	T. Arranz	0.0005
DL Her	56894.4465	31584	0.0440	V	T. Arranz	0.0010	AV Peg	56925.4128	33647	0.1593	V	T. Arranz	0.0006
DL Her	56897.3998	31589	0.0391	V	T. Arranz	0.0007	AV Peg	56936.3449	33675	0.1609	V	T. Arranz	0.0005
DL Her	56898.5882	31591	0.0443	V	K. Menzies	0.0012	AV Peg	56945.3241	33698	0.1615	V	T. Arranz	0.0007
DL Her	56910.4308	31611	0.0543	V	T. Arranz	0.0011	AV Peg	56949.6193	33709	0.1625	V	R. Sabo	0.0010
DY Her	56773.8369	156995	-0.0289	V	G. Samolyk	0.0007	AV Peg	56950.3971	33711	0.1596	V	T. Arranz	0.0009
DY Her	56837.7474	157425	-0.0298	V	R. Sabo	0.0009	AV Peg	56957.4241	33729	0.1598	V	T. Arranz	0.0005
DY Her	56863.4597	157598	-0.0308	V	T. Arranz	0.0004	AV Peg	56997.6339	33832	0.1610	V	R. Sabo	0.0009
LS Her	56806.7692	124787	0.0205	V	G. Samolyk	0.0014	BH Peg	56936.6840	27413	-0.1371	V	R. Sabo	0.0018
SZ Hya	56726.5401	29870	-0.2373	V	T. Arranz	0.0007	BH Peg	57006.5510	27522	-0.1383	V	K. Menzies	0.0018
SZ Hya	56731.3691	29879	-0.2434	V	T. Arranz	0.0007	GV Peg	56887.8397	21114	0.2826	V	K. Menzies	0.0012
SZ Hya	56732.4425	29881	-0.2445	V	T. Arranz	0.0011	RV UMa	56723.7815	24886	0.1293	V	G. Samolyk	0.0016
SZ Hya	56742.5993	29900	-0.2953	V	G. Samolyk	0.0014	RV UMa	56729.8663	24899	0.1294	V	G. Samolyk	0.0009
SZ Hya	56760.3733	29933	-0.2502	V	T. Arranz	0.0010	RV UMa	56737.8255	24916	0.1315	V	G. Samolyk	0.0011
SZ Hya	57022.0069	30420	-0.2526	V	G. Samolyk	0.0009	RV UMa	56746.7167	24935	0.1296	V	G. Samolyk	0.0010
UU Hya	56740.4019	32950	-0.0049	V	T. Arranz	0.0008	RV UMa	56780.4126	25007	0.1252	V	T. Arranz	0.0008
UU Hya	56741.4549	32952	0.0004	V	T. Arranz	0.0006	RV UMa	56786.4995	25020	0.1273	V	T. Arranz	0.0011
UU Hya	56761.3704	32990	0.0089	V	T. Arranz	0.0010	RV UMa	56787.4312	25022	0.1229	V	T. Arranz	0.0009
DG Hya	56729.5799	5774	0.0176	V	G. Samolyk	0.0016	RV UMa	56788.3688	25024	0.1244	V	T. Arranz	0.0008
DH Hya	56742.6300	52283	0.0931	V	G. Samolyk	0.0009	RV UMa	56794.4579	25037	0.1287	V	T. Arranz	0.0013
RR Leo	56773.6914	29793	0.1358	V	G. Samolyk	0.0012	RV UMa	56816.4581	25084	0.1301	V	T. Arranz	0.0007
SS Leo	56779.7467	23946	-0.0981	V	R. Sabo	0.0013	RV UMa	56817.3950	25086	0.1308	V	T. Arranz	0.0006
ST Leo	56753.6763	60317	-0.0207	V	G. Samolyk	0.0011	AE UMa	56660.6296	244792	0.0047	V	G. Samolyk	0.0006
TV Leo	56725.8151	29255	0.1223	V	G. Samolyk	0.0017	AE UMa	56660.7111	244793	0.0002	V	G. Samolyk	0.0006
WW Leo	56663.8393	36131	0.0428	V	R. Sabo	0.0019	AE UMa	56660.7983	244794	0.0013	V	G. Samolyk	0.0008
WW Leo	56695.7932	36184	0.0460	V	K. Menzies	0.0023	AE UMa	56660.8887	244795	0.0057	V	G. Samolyk	0.0010
WW Leo	56750.6512	36275	0.0450	V	K. Menzies	0.0017	AE UMa	56660.9712	244796	0.0022	V	G. Samolyk	0.0006
VY LMi	56739.7118	11883	0.0119	V	K. Menzies	0.0018	AE UMa	56722.4705	245511	-0.0007	V	T. Arranz	0.0004
U Lep	56998.7525	26908	0.0449	R	G. Samolyk	0.0013	AE UMa	56730.4750	245604	0.0042	V	T. Arranz	0.0005
SZ Lyn	56705.4882	154155	0.0294	V	T. Arranz	0.0011	AE UMa	56732.3632	245626	0.0000	V	T. Arranz	0.0003
SZ Lyn	56722.3625	154295	0.0288	V	T. Arranz	0.0006	AE UMa	56744.4049	245766	-0.0006	V	T. Arranz	0.0003
SZ Lyn	56923.8939	155967	0.0258	V	G. Samolyk	0.0013	AE UMa	56998.9327	248725	0.0027	V	G. Samolyk	0.0006
SZ Lyn	56952.8218	156207	0.0253	V	G. Samolyk	0.0007	AE UMa	56999.0159	248726	-0.0001	V	G. Samolyk	0.0008