COMMISSIONS 27 AND 42 OF THE IAU
INFORMATION BULLETIN ON VARIABLE STARS
Number 4321

Konkoly Observatory
Budapest
11 April 1996

HU ISSN 0374 – 0676

ACCURATE POSITIONS OF VARIABLE STARS NEAR THE SOUTH GALACTIC POLE

Positions for 264 variable stars located around the South Galactic Pole were obtained by measuring the first-epoch plates of the Yale-San Juan Southern Proper Motion Survey. The average error of the new positions is 0.″7 in R.A. and Dec. as referenced to the system of the SRS.

This project is a continuation of a program started by Lopez and Girard (1990). The authors, under the guidance of Girard and following the procedures developed by Lopez and Girard have measured variables and suspected variables in a region around the South Galactic Pole (SGP). The region centered on a R.A. of 0^h extends approximately 2^h on either side. The declination extends approximately from $-20°$ to $-45°$. The derived positions of the suspected variables in this region will be presented in a subsequent bulletin.

In a conversation with Dr. Hoffleit, it was suggested that the bright stars without a finder chart could be located relative to the field stars on the Cordoba Atlas. Using a cutoff magnitude of 10, along with the published position and the references as printed in the GCVS IV (Kholopov et al., 1985a, 1985b, 1987a) the stars were located on the CoD charts. Six variable stars were located in this manner and are indicated in the table by the letter (p) under comments.

Three variables need further study, due to the fact that their finding charts and published positions (GCVS) left a few questions. The published position for AO Aquarii caused the survey machine to center on a star that was labeled b on the finder chart (Tsessevitch, 1954). One of the authors (Predom, 1993) found another chart by Shapley and Swope (1931) that did identify this star as AO Aquarii. The chart by Shapley and Swope was used for determining the position for this variable. DS Aquarii had a problem similar to AO Aquarii, but no charts were found to decide which star was the comparison star and which was the variable. Wahlgren (1992) also called for further study of this star to clarify the inconsistency between the published position and the finding chart. The authors have supplied both positions and labeled them DS Aqr until further study indicates which star is the variable. The chart of VW Gru did not show the variable as a double star; however, the plate image showed two blended images. The published position in this paper is for the center of mass for this plate image.

The results listed in Table 1 are organized by constellation and contain the following information: Variable name, newly determined R.A. and Dec. (Equinox B1950 with epochs in the range of 1965.6 to 1973.8), the differences between our new positions (B1950) and those quoted in the GCVS IV in minutes of time in right ascension and arc minutes in declination ($\Delta\alpha$, $\Delta\delta$), and comments.

Table 1. Positions of Variable Stars

Variable		α (1950) h m s	δ (1950) ° ′ ″	$\Delta\alpha$ m	$\Delta\delta$ ′	Comments
S	Aqr	22 54 25.841	−20 36 38.31	−0.003	−0.038	
X	Aqr	22 15 54.404	−21 9 6.93	0.007	−0.016	
RT	Aqr	22 20 27.719	−22 18 35.73	−0.005	0.005	CoD −22°15868
SZ	Aqr	22 40 7.720	−21 26 27.89	−0.005	0.035	
WX	Aqr	22 7 32.637	−16 54 33.13	0.011	−0.052	
AF	Aqr	22 1 39.148	−21 50 27.57	0.019	0.541	
AG	Aqr	22 2 44.601	−22 44 37.43	0.010	−0.124	
AH	Aqr	22 2 49.000	−23 57 11.17	0.000	−0.086	
AI	Aqr	22 4 15.960	−20 57 11.08	−0.034	−0.285	
AK	Aqr	22 6 47.281	−19 29 10.04	−0.045	−0.467	
AL	Aqr	22 7 59.560	−22 1 39.01	0.243	−0.750	
AM	Aqr	22 8 22.579	−19 46 21.98	−0.057	−0.766	
AN	Aqr	22 8 26.979	−18 56 0.48	−0.067	−0.408	
AO	Aqr	22 8 45.095	−23 2 6.45	0.002	−0.008	see text
AP	Aqr	22 9 28.435	−23 34 16.34	0.007	−0.072	
AQ	Aqr	22 10 5.226	−21 24 43.80	−0.013	−0.030	
AR	Aqr	22 10 30.892	−24 57 57.55	0.032	0.041	
AS	Aqr	22 15 15.264	−18 39 11.82	−0.029	0.403	
AU	Aqr	22 18 50.336	−25 1 56.27	0.039	−0.038	
AW	Aqr	22 22 8.958	−23 53 57.59	0.016	−0.360	
AX	Aqr	22 22 56.536	−18 29 38.64	−0.041	−0.844	
AY	Aqr	22 24 8.850	−19 40 28.13	−0.052	−0.469	
AZ	Aqr	22 24 26.919	−24 59 0.51	0.032	−0.009	
BB	Aqr	22 24 48.494	−22 35 44.27	−0.008	−0.038	
BC	Aqr	22 28 47.939	−18 19 39.05	−0.084	−0.551	
BD	Aqr	22 30 36.750	−23 52 37.16	−0.004	0.181	
BE	Aqr	22 32 51.284	−18 13 48.95	−0.079	0.184	
BF	Aqr	22 33 17.570	−19 35 6.93	−0.074	−1.416	
BG	Aqr	22 34 44.303	−18 37 54.39	−0.028	−0.706	
BH	Aqr	22 36 16.518	−20 4 5.10	−0.008	−0.385	
BI	Aqr	22 37 27.554	−23 29 20.50	0.009	−0.042	
BV	Aqr	22 0 7.070	−21 46 2.90	0.001	0.052	
DN	Aqr	23 16 37.797	−24 29 23.57	0.013	0.107	
DS	Aqr	22 50 36.660	−18 51 29.83	−0.006	0.003	see text
DS	Aqr	22 50 45.036	−18 50 33.59	0.134	0.940	see text
DX	Aqr	21 59 42.368	−17 12 23.23	−0.011	0.013	
EE	Aqr	22 31 59.170	−20 7 5.97	0.003	0.001	
ER	Aqr	23 2 45.001	−22 45 25.11	0.000	−0.019	CoD −23°17733
ES	Aqr	23 35 44.008	−23 49 56.64	0.000	−0.044	CoD −24°17778
ET	Aqr	23 48 46.585	−19 11 10.13	0.010	0.031	BD −19°6522
FI	Aqr	22 21 48.256	−23 37 16.95	0.004	0.017	CoD −24°17160
FK	Aqr	22 36 2.019	−20 52 52.38	0.017	−0.073	
FL	Aqr	22 36 1.799	−20 52 27.86	0.013	−0.064	(NSV 14256)
T	Cet	0 19 14.578	−20 20 5.69	−0.007	0.005	
RT	Cet	1 14 28.653	−24 6 27.58	−0.006	0.040	
SV	Cet	0 32 26.129	−22 55 18.32	0.002	−0.005	
TW	Cet	1 46 31.923	−21 8 27.72	−0.001	−0.262	(p) CPD −21°00167
UU	Cet	0 1 31.508	−17 16 33.21	0.008	−0.054	
UV	Cet	1 36 30.260	−18 12 29.81	0.071	0.203	
VW	Cet	1 36 39.536	−18 6 0.02	−0.008	−0.100	

(Table 1. continued)

Variable		α (1950) h m s	δ (1950) ° ′ ″	Δα m	Δδ ′	Comments
VY	Cet	1 47 10.810	−19 52 22.04	−0.003	0.233	BD −20°0345
YY	Cet	1 57 49.245	−18 26 57.67	0.004	0.039	BD −18°0349
YZ	Cet	1 10 0.845	−17 16 7.71	−0.003	0.071	
AA	Cet	1 56 40.730	−23 9 41.33	−0.004	0.011	(p) CoD −23°00737
AC	Cet	0 8 25.144	−18 51 2.88	0.002	−0.048	BD −19 0007
AE	Cet	0 12 6.028	−19 12 36.40	0.000	−0.007	BD −19°0027
AF	Cet	0 17 51.798	−23 39 37.07	−0.003	0.182	CoD −24°00100
AH	Cet	0 35 35.562	−21 41 4.74	−0.007	0.021	BD −22°0105
AL	Cet	1 6 11.145	−17 19 47.40	0.002	0.010	BD −17°0198
AU	Cet	0 0 5.660	−19 43 20.39	−0.022	0.060	BD −20°6700
AX	Cet	0 19 28.349	−22 1 54.08	0.022	0.299	
BB	Cet	0 36 1.587	−20 34 18.84	−0.007	−0.014	BD −21°0084
SS	For	2 5 36.124	−27 6 8.43	0.002	−0.041	
SV	For	1 56 6.392	−24 37 18.05	0.007	−0.001	CoD −24°00833
TT	For	1 55 39.901	−26 43 30.27	−0.002	−0.005	
R	Gru	21 45 18.532	−47 8 49.15	−0.008	−0.019	
T	Gru	22 22 46.224	−37 49 24.17	0.004	−0.003	
V	Gru	21 48 46.918	−42 36 30.48	−0.001	−0.008	CoD −42°15664
W	Gru	22 38 22.802	−44 6 9.49	−0.003	−0.058	
Y	Gru	22 44 22.652	−48 10 47.98	0.028	−0.100	(p) CoD −48°14311
RT	Gru	21 48 47.334	−46 13 12.71	0.039	−0.312	
RU	Gru	22 24 6.309	−37 26 36.53	0.005	−0.009	CoD −37°14788
RV	Gru	22 36 25.415	−47 8 8.96	0.007	−0.149	CoD −47°14285
RW	Gru	22 39 10.993	−44 24 54.08	0.000	0.299	
RX	Gru	22 55 26.451	−42 5 39.04	0.008	0.049	
RY	Gru	23 16 41.448	−40 33 51.96	−0.009	0.434	CoD −40°150106
RZ	Gru	22 44 18.378	−43 0 28.73	−0.010	0.121	
ST	Gru	21 47 46.695	−46 25 49.83	0.012	−0.131	
SU	Gru	21 55 36.484	−43 9 38.80	0.008	−0.447	
SV	Gru	21 55 42.241	−44 33 51.93	0.054	1.034	(NSV 13981)
SW	Gru	21 56 3.885	−44 35 26.84	0.048	0.053	
SX	Gru	22 1 14.267	−45 39 39.44	0.004	−0.357	
SY	Gru	22 1 40.707	−43 57 10.08	−0.038	−0.468	
SZ	Gru	22 5 14.816	−42 51 15.90	−0.053	−0.265	
TV	Gru	22 11 3.035	−43 52 41.82	−0.083	0.303	
TW	Gru	22 12 3.441	−45 5 8.91	−0.009	−0.148	
TX	Gru	22 13 17.466	−41 55 35.48	−0.059	0.009	
TY	Gru	22 13 40.796	−40 11 16.94	−0.003	−0.282	
UV	Gru	22 16 48.386	−47 56 42.07	0.023	0.499	
UX	Gru	22 22 23.984	−46 25 44.92	−0.017	0.451	
UY	Gru	22 23 22.970	−41 14 46.68	−0.051	−0.178	
UZ	Gru	22 23 59.155	−40 47 1.50	−0.047	0.175	
VW	Gru	22 26 4.149	−43 44 20.83	0.069	−0.447	see text
VY	Gru	22 29 29.471	−47 8 40.92	0.008	0.518	
WW	Gru	22 34 4.260	−47 26 42.08	−0.046	0.499	
WX	Gru	22 39 4.891	−44 48 15.89	−0.002	0.435	
WY	Gru	22 39 53.926	−46 20 56.54	0.065	0.358	
WZ	Gru	22 41 51.938	−42 37 29.28	−0.018	0.312	
XZ	Gru	22 44 43.583	−39 19 23.36	0.010	0.411	CoD −39°14830
ZZ	Gru	22 47 1.876	−47 48 1.10	0.048	0.382	

(Table 1 continued)

Variable		α (1950) h m s	δ (1950) ° ′ ″	$\Delta\alpha$ m	$\Delta\delta$ ′	Comments
AA	Gru	22 47 0.262	−46 37 22.14	0.004	0.731	
AB	Gru	22 48 9.971	−47 34 35.83	0.050	0.703	
AD	Gru	22 50 8.481	−44 48 37.55	0.008	0.474	
AE	Gru	22 53 1.670	−40 56 17.77	0.028	0.204	
AF	Gru	22 53 34.722	−47 37 50.44	0.029	0.259	
AG	Gru	22 55 43.243	−45 29 52.60	0.021	−0.377	
AI	Gru	22 56 26.366	−44 5 22.82	0.006	0.220	
AK	Gru	23 2 12.255	−44 12 21.13	0.038	0.048	
AM	Gru	23 2 56.247	−46 59 50.78	−0.013	−0.046	
AN	Gru	23 5 4.488	−47 41 56.12	0.008	−0.735	
AQ	Gru	23 19 33.989	−42 21 51.23	0.000	0.846	
AR	Gru	22 33 48.770	−38 33 43.56	0.030	0.074	
AS	Gru	22 57 49.535	−41 46 59.55	0.026	−0.092	CoD −42°16163
AU	Gru	22 7 1.151	−42 53 20.66	−0.014	0.056	
AZ	Gru	22 32 9.575	−45 33 7.25	0.010	−0.221	
BB	Gru	22 36 29.884	−45 51 7.71	0.015	0.272	
BE	Gru	22 47 46.286	−44 55 41.21	−0.012	0.413	
BI	Gru	22 18 9.074	−44 19 1.09	0.001	−0.418	(NSV 14123)
BK	Gru	22 21 40.982	−39 22 53.36	0.000	0.011	CoD −39°14697
BN	Gru	23 2 0.924	−45 27 34.45	0.032	−0.174	(NSV 14415)
BO	Gru	23 4 9.567	−44 10 51.97	0.026	0.034	(NSV 14425)
PI	Gru	22 19 41.465	−46 12 2.97	0.008	−0.050	
T	Phe	0 28 1.471	−46 41 6.98	0.025	0.084	
V	Phe	23 29 44.644	−46 15 52.55	0.011	−0.176	
RR	Phe	23 56 20.851	−39 42 45.18	0.164	0.247	
RU	Phe	23 25 24.205	−47 43 59.69	−0.030	−0.495	
RV	Phe	23 25 47.029	−47 43 45.15	0.000	−0.053	
RW	Phe	0 27 51.566	−46 44 32.54	0.009	−0.042	
SW	Phe	23 57 56.074	−39 54 11.40	0.018	−0.090	
SX	Phe	23 43 54.682	−41 51 9.71	0.011	−0.262	
SY	Phe	1 28 20.502	−42 57 52.05	0.008	0.033	CoD −43°00461
SZ	Phe	1 31 54.568	−43 29 50.71	−0.007	0.055	
TV	Phe	1 2 25.386	−45 24 32.38	0.006	−0.040	
TW	Phe	1 2 37.734	−43 23 16.87	0.029	0.119	
TX	Phe	1 4 25.246	−46 49 42.82	−0.029	0.386	
TY	Phe	1 4 44.399	−42 13 26.40	−0.027	0.260	
TZ	Phe	1 7 42.467	−42 23 41.90	−0.026	0.102	
UU	Phe	1 7 57.457	−45 40 29.47	0.024	−0.191	
UV	Phe	1 9 54.803	−41 29 21.45	−0.037	−0.058	
UX	Phe	1 14 38.953	−39 47 33.89	−0.017	−0.065	
UY	Phe	1 20 58.636	−42 34 13.14	−0.006	0.181	
UZ	Phe	1 22 21.588	−45 12 19.59	0.010	−0.627	
VV	Phe	1 22 46.052	−45 49 4.80	0.001	−0.380	
VW	Phe	1 23 21.548	−42 4 9.17	0.009	0.047	
VX	Phe	1 24 7.047	−39 46 41.85	0.017	−0.397	
VY	Phe	1 25 27.434	−43 15 50.71	−0.026	−0.145	
VZ	Phe	1 26 1.803	−45 40 4.68	−0.003	−0.078	
WW	Phe	1 28 57.828	−44 15 0.20	−0.003	−0.203	
WX	Phe	1 31 33.749	−44 4 45.56	0.012	−0.059	
WY	Phe	1 35 16.360	−41 31 43.55	−0.111	−0.626	

(Table 1 continued)

Variable		α (1950) h m s	δ (1950) ° ′ ″	$\Delta\alpha$ m	$\Delta\delta$ ′	Comments
WZ	Phe	1 36 40.740	−46 10 6.18	0.012	0.197	
XX	Phe	1 37 2.450	−39 43 48.47	−0.009	0.192	
XY	Phe	1 38 16.299	−41 53 10.17	0.022	−0.569	
XZ	Phe	1 38 44.655	−46 32 5.43	0.011	0.709	
YY	Phe	1 38 51.456	−47 47 27.99	−0.042	−0.267	
YZ	Phe	1 40 21.822	−46 12 9.77	−0.003	−0.163	
ZZ	Phe	1 43 20.793	−46 29 19.46	−0.003	−0.324	
AA	Phe	1 43 39.848	−45 40 58.27	−0.019	0.229	
AC	Phe	1 54 46.967	−44 35 42.60	−0.017	−0.210	
AD	Phe	1 14 22.322	−39 58 20.49	0.005	−0.042	
AG	Phe	0 24 27.215	−40 9 30.38	0.004	−0.006	
AI	Phe	1 7 21.005	−46 31 54.34	0.000	−0.006	
AK	Phe	1 17 24.615	−47 33 16.54	−0.006	0.024	CoD −47°00389
AL	Phe	1 23 5.009	−46 11 10.04	0.000	0.033	CoD −46°00394
AM	Phe	1 47 45.798	−43 13 1.93	−0.003	0.168	CoD −43°00565
AN	Phe	23 31 10.341	−45 19 35.14	−0.011	−0.086	
AO	Phe	1 4 48.885	−46 51 46.99	−0.035	0.417	
AP	Phe	1 17 15.363	−46 50 28.15	0.006	−0.469	
AQ	Phe	1 17 23.002	−47 30 55.22	−0.017	−0.120	
AR	Phe	1 21 42.828	−41 45 38.75	−0.020	0.154	
AS	Phe	1 27 52.237	−41 45 46.92	−0.046	0.118	
AT	Phe	1 33 55.204	−42 16 45.46	0.003	−0.158	
AU	Phe	1 48 22.672	−47 13 18.41	−0.005	−0.107	
AV	Phe	1 10 43.572	−44 8 24.36	−0.024	−0.106	
AW	Phe	1 27 23.543	−47 0 52.16	−0.008	0.031	CoD −47°00440
AX	Phe	1 4 39.131	−46 24 57.27	−0.048	1.045	
AY	Phe	23 35 9.280	−45 50 45.21	0.005	−0.053	CoD −46°14721
AZ	Phe	0 47 42.951	−43 39 59.76	−0.001	0.004	CoD −44°00216
R	PsA	22 15 9.787	−29 51 15.75	−0.004	0.038	
S	PsA	22 0 54.450	−28 17 36.13	−0.009	0.098	
U	PsA	21 59 38.025	−28 7 36.59	0.017	−0.310	
V	PsA	22 52 35.073	−29 52 45.02	0.001	−0.050	(p) CoD −30°19355
W	PsA	22 5 3.241	−33 4 41.95	0.004	0.601	CoD −33°15917
X	PsA	22 3 14.243	−25 8 27.67	0.004	0.239	
Y	PsA	22 4 49.819	−25 30 20.11	0.297	−0.735	
Z	PsA	22 11 34.373	−26 8 24.61	0.006	0.090	
RR	PsA	22 12 13.076	−26 54 29.44	0.035	−1.091	
RS	PsA	22 12 51.535	−25 59 40.25	−0.008	0.029	
RT	PsA	22 17 15.844	−25 24 43.33	0.014	0.078	
RU	PsA	22 17 36.602	−26 23 16.71	0.010	−0.578	
RW	PsA	22 6 56.980	−27 18 47.79	0.033	−0.097	CoD −27°15798
RX	PsA	22 10 20.376	−27 31 1.90	−0.010	0.068	
RZ	PsA	22 38 35.348	−33 36 11.82	0.039	0.203	
SS	PsA	22 50 44.274	−33 11 38.30	0.005	−0.038	CoD −33°16275
ST	PsA	22 51 31.662	−34 39 26.24	−0.006	0.063	
SU	PsA	22 53 50.977	−35 52 8.84	0.000	0.353	
SW	PsA	22 3 17.629	−29 47 32.68	−0.006	0.055	
SZ	PsA	22 48 56.061	−28 7 10.08	−0.016	−0.068	
TT	PsA	22 0 22.736	−31 41 13.54	−0.004	−0.026	
TU	PsA	22 49 25.685	−25 34 3.22	−0.005	−0.654	CoD −25°16142

(Table 1 continued)

Variable		α (1950) h	m	s	δ (1950) °	′	″	$\Delta\alpha$ m	$\Delta\delta$ ′	Comments
TV	PsA	22	55	5.620	−26	26	3.51	0.010	−0.059	CoD −26°16396
TW	PsA	22	53	37.985	−31	49	53.63	0.016	−0.094	CoD −32°17321
TX	PsA	22	42	11.383	−33	31	9.41	−0.144	−0.157	
R	Scl	1	24	40.041	−32	48	7.31	0.001	−0.022	
S	Scl	0	12	51.009	−32	19	23.63	0.000	0.006	
T	Scl	0	26	44.733	−38	11	5.16	−0.004	0.014	
U	Scl	1	9	14.328	−30	22	23.75	0.039	0.404	
V	Scl	0	6	5.339	−39	29	46.74	−0.011	0.621	
W	Scl	0	30	45.816	−33	9	2.25	0.047	−0.038	(p) CoD −33°00185
X	Scl	0	47	5.523	−35	11	6.18	−0.008	0.297	
Y	Scl	23	6	23.020	−30	24	18.47	0.000	−0.008	CoD −30°19448
Z	Scl	0	37	31.052	−34	14	5.06	0.001	0.016	
RR	Scl	0	27	4.639	−38	20	52.03	0.077	−1.067	
RT	Scl	0	33	59.182	−25	56	53.88	0.003	0.002	CoD −26°00179
RU	Scl	0	0	14.475	−25	13	25.50	0.008	−0.025	
RV	Scl	1	17	20.267	−27	7	37.54	0.021	−0.226	
RX	Scl	1	24	3.303	−27	45	34.40	−0.012	0.727	
RY	Scl	1	31	5.171	−30	45	14.48	0.003	−0.141	
RZ	Scl	1	39	38.054	−26	27	59.95	−0.049	0.001	
SS	Scl	1	39	54.231	−30	14	27.35	0.004	0.144	
ST	Scl	1	40	19.278	−30	16	44.43	0.005	−0.041	
SU	Scl	1	41	18.150	−29	45	41.81	0.019	0.403	
SV	Scl	1	42	42.894	−30	18	33.64	−0.002	0.039	
SW	Scl	0	3	41.329	−33	5	40.82	0.005	0.020	
SZ	Scl	0	13	15.402	−31	22	24.07	0.023	0.199	
TU	Scl	23	48	50.501	−29	23	51.91	−0.192	3.335	
TV	Scl	23	50	0.758	−30	26	50.72	−0.304	0.255	
TW	Scl	23	52	6.511	−33	45	34.00	0.025	−0.667	
UV	Scl	0	53	32.720	−26	39	13.23	0.012	−0.020	
UW	Scl	1	0	43.101	−25	46	23.01	−0.182	0.816	
UY	Scl	0	12	15.140	−39	31	16.72	0.002	0.021	
UZ	Scl	23	20	6.705	−30	23	37.26	−0.022	0.079	
VV	Scl	1	13	47.753	−34	24	46.23	−0.004	0.030	CoD −34°00483
VW	Scl	1	15	59.160	−39	28	29.27	0.003	0.112	
VX	Scl	1	33	8.657	−35	23	0.66	−0.006	−0.011	(NSV 560)
VY	Scl	23	26	21.317	−30	3	18.08	0.005	−0.001	
VZ	Scl	23	47	33.831	−26	39	33.94	−0.003	−0.066	
WW	Scl	0	3	29.220	−37	10	56.85	0.087	0.053	
WX	Scl	0	47	2.578	−27	39	34.41	0.043	−0.573	
WY	Scl	0	58	3.186	−28	28	29.87	0.036	−0.698	
WZ	Scl	1	26	26.631	−34	1	18.39	0.011	−0.006	CoD −34°00576
XX	Scl	1	27	8.895	−33	34	41.79	−0.002	0.003	CoD −33°00541
XY	Scl	0	4	3.050	−32	52	16.77	0.001	0.020	CoD −33°00003
XZ	Scl	0	4	3.309	−38	3	17.96	0.005	−0.299	
YY	Scl	0	5	56.458	−26	15	24.22	0.008	−0.004	CoD −26 00022
YZ	Scl	0	25	0.018	−35	59	43.60	−1.000	−0.027	CoD −36°00144
ZZ	Scl	0	33	20.926	−25	9	11.16	−0.001	0.014	CoD −25°00212
AA	Scl	0	34	1.218	−30	36	31.80	0.004	−0.030	CoD −31°00228
AB	Scl	0	42	4.776	−33	55	39.46	−0.004	−0.058	CoD −34°00263
AC	Scl	0	53	52.615	−25	49	27.02	−0.006	−0.050	CoD −26°00300

(Table 1 continued)

Variable		α (1950) h m s	δ (1950) ° ′ ″	$\Delta\alpha$ m	$\Delta\delta$ ′	Comments
AD	Scl	1 3 6.345	−31 57 40.98	0.006	0.017	
AE	Scl	1 5 4.155	−32 34 35.44	0.003	0.509	
AF	Scl	23 4 43.287	−25 51 58.63	0.005	0.023	CoD −26°16483
AG	Scl	23 5 25.031	−35 53 24.66	0.001	−0.011	CoD −36°15725
AH	Scl	23 25 48.085	−31 40 41.37	0.001	0.010	CoD −32°17539
AI	Scl	1 10 27.478	−38 7 12.90	0.008	0.085	CoD −38°00420
AK	Scl	23 34 17.300	−37 38 56.47	0.005	0.059	
AL	Scl	23 52 42.073	−32 11 54.99	0.001	0.084	(p) CoD −32°17723
AM	Scl	1 6 47.623	−28 37 52.60	−0.006	0.623	
AN	Scl	1 10 17.951	−29 26 40.13	−0.001	0.031	CoD −29°00376
AO	Scl	1 17 38.093	−33 41 8.59	0.018	−0.043	

We would like to thank Dr. Terry Girard for his input and guidance, Dr. Dorrit Hoffleit for many helpful comments and suggestions on the project, Dr. Imants Platais for his help in translating Russian text and locating some of the finder charts, Carlos Lopez for his initial training and guidance and especially Dr. William van Altena for allowing amateurs a chance to take part in a project of this magnitude.

Special thanks to Michael Dzubaty for helping out in the beginning stages of the project.

This research has been supported, in part, by NSF grants to Yale Southern Observatory, Inc. and Yale University.

Robert DEMARTINO
Dennis KOCYLA
Christopher PREDOM
Edward WETHERBEE
Yale Astronomy Department,
P.O. Box 208101
New Haven, Connecticut 06520

References:

Kholopov, P.N., et al., 1985a, General Catalogue of Variable Stars, I (4th edition; Moscow: Nauka Publishing House).
1985b, General Catalogue of Variable Stars, II (4th ed.; Moscow: Nauka Publishing House).
1987, General Catalogue of Variable Stars, III (4th ed.; Moscow: Nauka Publishing House).
Lopez, C.E., and Girard, T.M., 1990, *PASP*, **102**, No.655, 1018
Predom, C., 1993, *IBVS*, No.3957
Shapley, H., and Swope, H., 1931, *Harvard Bulletin*, No.885
Tsessevitch, V.P., 1954, *Odessa Isv.*, **4**, No.1
Wahlgren, G.M., 1992, *AJ*, **104**, No.3, 1174