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PRECISE COORDINATES OF VARIABLE STARS (3)

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This report contains 246 accurate J2000.0 positions for variable stars discovered by Hoffmeister (1965). The variable stars listed in Table 1 were identified against computer plots of GSC and USNO A1.0 catalogs. The color information and IRAS PSC identification were also examined in identifying red variables. The source of identification in column ‘Cat.’: G = GSC 1.1, GM = average of GSC 1.1 multiple entries, U = USNO A1.0, UM = average of USNO A1.0 multiple entries.

PY Per (S 9160): correctly identified in Downes et al. (1997). Known to have a close 16-th mag companion.

V336 Per (S 9180): Downes et al. (1997) points a USNO star, probably close to the real object; however Hoffmeister’s description corresponds to a blank region on POSS. We should probably need further astrometry during outburst.

KZ Gem (S 9208): identification in Downes et al. (1997) probably correct. Coordinates given correspond to those by Downes et al. (1997).

V372 Lyr (S 9358): appears very bright both on GSC and USNO A1.0. Hoffmeister’s plot suggests a bright star, which is in conflict with the reported range of variability (16–17 m_{pg}) by Hoffmeister.

V439 Cas (S 9482): double star in USNO, no mentioning by Hoffmeister (1965). Redder component given.

Detailed information of identifications, other catalog identifications are available from the VSNET archive (vsnet 1141, 1142, 1147, 1148, 1149–1155, 1157, <http://www.kusastro.kyoto-u.ac.jp/vsnet/Mail/vsnet/msg01141.html> etc.)

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References:

- Downes, R., Webbink, R. F., Shara, M. M., 1997, *PASP*, **109**, 345
Hoffmeister, C., 1965, *Astron. Nach.*, **289**, 139

Table 1: Precise coordinates of variable stars

Desig.	R.A.	Decl.	Cat.	Desig.	R.A.	Decl.	Cat.
V448 Cas	00 ^h 47 ^m 07 ^s .79	+60°21'14".2	U	V413 Cas	00 ^h 47 ^m 16 ^s .68	+55°08'24".4	G
V365 Cas	01 00 53 16	+56 36 45 3	G	V417 Cas	01 07 19 87	+53 38 03 8	GM
V553 Cas	01 08 08 64	+62 15 20 8	U	V457 Cas	01 09 53 01	+55 13 30 7	U
V418 Cas	01 12 59 89	+62 10 47 6	U	V463 Cas	01 15 40 03	+58 05 27 7	G
V471 Cas	01 32 20 48	+55 12 19 7	G	OY Per	01 34 53 76	+53 39 31 4	U
V421 Cas	01 37 52 41	+57 19 58 0	U	V422 Cas	01 40 39 25	+59 25 26 7	G
V475 Cas	01 41 18 46	+56 25 45 0	G	V424 Cas	01 47 03 56	+56 47 37 8	UM
V350 Per	01 52 35 11	+57 50 18 9	G	V442 Per	02 44 57 58	+38 15 30 4	G
PW Per	02 45 05 46	+36 13 59 5	U	V443 Per	02 46 42 29	+37 17 49 1	G
PX Per	02 47 15 58	+35 55 37 7	U	V444 Per	02 47 38 89	+40 53 35 8	G
V445 Per	02 47 38 69	+39 39 35 7	GM	V446 Per	02 49 18 73	+35 00 30 8	U
PY Per	02 50 00 14	+37 39 23 1	U	V447 Per	02 50 34 12	+35 24 19 8	U
V426 Per	02 59 25 29	+41 20 03 1	G	V450 Per	02 59 15 35	+41 45 23 5	G
V451 Per	03 01 34 08	+40 44 10 4	U	V428 Per	03 02 35 94	+41 12 04 5	G
QS Per	03 05 01 46	+36 24 44 6	U	V429 Per	03 05 36 78	+42 43 24 8	G
QU Per	03 05 54 71	+40 41 12 7	G	V454 Per	03 06 44 39	+38 02 15 4	U
V431 Per	03 09 34 27	+42 19 45 9	G	QV Per	03 09 31 84	+38 21 15 4	G
V456 Per	03 10 11 95	+40 02 15 6	G	V457 Per	03 11 14 08	+36 59 25 6	GM
QW Per	03 12 43 08	+38 57 55 8	G	V458 Per	03 12 46 96	+38 47 50 0	GM
V433 Per	03 14 35 16	+43 14 46 9	U	QX Per	03 15 11 60	+39 34 48 1	GM
V434 Per	03 21 35 97	+40 19 23 0	G	V416 Tau	05 34 43 54	+25 50 24 6	GM
LZ Aur	05 39 04 23	+29 55 34 3	G	MM Aur	05 39 19 93	+28 59 29 9	U
IZ Tau	05 44 34 76	+28 17 59 0	U	V422 Tau	05 48 40 08	+26 28 28 4	G
MQ Aur	05 51 53 27	+31 51 20 0	U	MS Aur	05 56 38 56	+31 51 55 5	G
LR Aur	06 00 14 06	+28 35 56 3	U	LN Gem	06 04 00 25	+26 52 23 1	GM
LQ Gem	06 06 39 92	+23 32 43 9	U	V669 Ori	06 17 37 64	+19 22 45 1	U
V670 Ori	06 17 48 43	+19 43 12 8	U	IX Gem	06 20 01 92	+24 19 00 1	U
IZ Gem	06 29 25 98	+16 58 41 2	U	KL Gem	06 30 57 94	+16 00 32 2	U
KW Gem	06 50 07 75	+24 35 12 7	U	KU Gem	06 45 50 49	+17 01 34 2	U
KX Gem	06 51 48 92	+15 38 55 8	U	KZ Gem	06 53 02 76	+16 39 50 3	U
MR Gem	06 55 24 17	+16 17 18 2	U	LL Gem	07 03 29 55	+13 18 02 8	U
LM Gem	07 05 05 69	+10 36 45 8	U	NO Gem	07 05 30 17	+10 32 22 5	G
AS CMi	07 44 10 31	+08 17 14 8	U	AT CMi	07 49 36 96	+01 57 40 3	U
AU CMi	07 50 37 97	+06 12 29 1	U	LU Pup	08 01 18 82	-28 34 58 8	G
CC Leo	11 42 26 79	+17 30 36 4	U	BY Com	12 08 17 73	+15 25 44 1	U
DD Vir	12 09 59 82	+13 16 37 3	U	CF Com	12 13 09 12	+23 04 07 2	U
CS Com	12 24 18 80	+17 52 52 8	U	CW Com	12 25 42 73	+22 05 27 6	G
DE Com	12 29 04 80	+18 40 06 3	U	DH Com	12 31 35 50	+21 29 33 0	G
DN Com	12 35 40 52	+17 28 50 1	U	DQ Com	12 40 08 97	+17 44 23 0	U
DZ Com	12 46 13 47	+18 28 07 8	G	DP Vir	12 15 03 69	+07 47 29 7	U
DF Vir	12 22 33 47	+11 17 39 9	U	V680 Her	16 10 22 73	+21 48 26 4	U

Table 1 (cont.)

Desig.	R.A.	Decl.	Cat.	Desig.	R.A.	Decl.	Cat.
V683 Her	16 ^h 12 ^m 22 ^s .46	+22°13'19"/2	U	V684 Her	16 ^h 13 ^m 11 ^s .69	+19°06'45"/7	U
V537 Her	16 13 38 46	+22 41 44 5	U	V538 Her	16 14 06 81	+23 53 13 9	G
V688 Her	16 15 05 61	+23 56 45 9	U	V539 Her	16 17 44 49	+18 47 17 0	U
V540 Her	16 19 43 23	+23 16 57 9	U	V541 Her	16 24 05 14	+18 48 25 0	U
V695 Her	16 26 02 03	+17 41 56 0	U	V650 Her	16 29 07 78	+19 06 22 6	G
V698 Her	16 29 31 15	+18 29 43 9	G	V542 Her	16 30 12 43	+19 00 47 8	U
V701 Her	16 31 40 73	+20 10 58 7	U	V545 Her	16 38 49 46	+24 51 47 1	G
V711 Her	16 48 33 48	+23 35 03 0	G	V1067 Oph	17 41 28 38	+00 01 42 5	U
V1070 Oph	17 43 21 85	+01 02 00 1	G	V1071 Oph	17 43 55 50	+07 05 53 0	U
V1078 Oph	17 53 37 10	+04 25 52 6	G	V2079 Oph	17 56 23 01	+01 45 54 4	U
V1080 Oph	17 56 48 43	+06 26 12 3	U	V2032 Oph	17 57 31 14	+01 24 34 1	U
FF Ser	17 58 21 51	-00 39 34 0	G	V1081 Oph	17 58 27 71	+02 11 52 5	U
V2083 Oph	17 59 01 37	+02 06 00 6	U	V1082 Oph	18 00 00 19	+00 32 19 5	U
V1083 Oph	18 00 19 92	+03 06 17 8	U	V1085 Oph	18 01 02 24	+03 47 24 4	U
V2034 Oph	18 01 12 36	+05 42 14 0	U	V1086 Oph	18 02 32 08	+03 05 11 0	UM
V1088 Oph	18 04 51 84	+01 32 10 6	U	V2338 Oph	18 05 28 94	+07 54 21 0	G
V1091 Oph	18 07 08 69	+01 34 33 0	U	V2085 Oph	18 08 06 46	+00 46 08 9	GM
V1092 Oph	18 08 06 74	+01 56 06 2	GM	V1093 Oph	18 08 33 42	+00 10 02 2	U
V2086 Oph	18 09 59 01	+05 03 06 7	U	V2087 Oph	18 11 16 40	+05 15 32 6	U
V1099 Oph	18 16 55 62	+01 10 52 7	U	V1100 Oph	18 17 23 39	+02 23 33 9	U
V564 Her	17 58 17 43	+38 21 17 1	U	V667 Her	18 02 30 81	+35 22 20 8	U
V565 Her	18 03 33 24	+34 43 21 8	U	V568 Her	18 09 15 41	+32 25 23 2	U
V570 Her	18 10 02 04	+35 24 12 0	U	V571 Her	18 10 32 96	+36 38 16 5	U
V392 Lyr	18 25 35 77	+33 05 29 3	UM	V443 Lyr	18 29 31 46	+33 58 41 5	G
V463 Lyr	18 31 17 43	+36 14 24 0	U	V337 Lyr	18 33 46 62	+40 54 04 8	G
V464 Lyr	18 35 07 90	+31 32 31 2	G	V468 Lyr	18 35 38 04	+36 05 15 5	U
V338 Lyr	18 37 18 71	+35 55 14 9	U	V340 Lyr	18 39 57 04	+32 50 08 8	G
V573 Her	18 11 26 30	+29 56 32 5	U	V339 Lyr	18 38 55 76	+41 33 53 1	U
V342 Lyr	18 43 32 80	+39 46 42 2	U	V345 Lyr	18 45 13 88	+42 02 41 4	U
V346 Lyr	18 46 08 58	+44 23 12 9	U	V347 Lyr	18 47 09 05	+41 22 20 7	U
V349 Lyr	18 49 24 39	+42 44 46 0	U	V351 Lyr	18 49 26 01	+42 58 50 8	U
V350 Lyr	18 49 08 35	+46 11 54 7	U	V353 Lyr	18 52 01 79	+45 18 31 1	U
V357 Lyr	18 57 58 03	+43 08 06 2	U	V396 Lyr	18 59 50 68	+45 21 40 5	G
V360 Lyr	19 01 58 60	+46 26 45 4	U	V361 Lyr	19 02 28 13	+46 58 57 3	GM
V366 Lyr	19 09 40 67	+46 17 18 2	U	V368 Lyr	19 10 53 41	+43 24 55 1	U
V370 Lyr	19 13 27 29	+42 14 53 2	G	V1103 Cyg	19 14 57 69	+46 10 01 8	U
V372 Lyr	19 16 12 42	+41 54 20 3	G	V1253 Cyg	19 18 57 04	+44 57 23 3	U
V1107 Cyg	19 19 45 29	+47 06 04 2	U	BZ Dra	18 47 17 85	+53 56 47 3	U
DT Dra	18 49 57 29	+50 35 13 9	G	CD Dra	18 54 51 68	+52 28 43 8	U
CE Dra	19 06 11 35	+55 50 20 8	U	CF Dra	19 06 47 53	+53 22 57 3	G
CG Dra	19 07 32 79	+52 58 28 8	U	V1104 Cyg	19 18 00 42	+50 45 18 1	U

Table 1 (cont.)

Desig.	R.A.	Decl.	Cat.	Desig.	R.A.	Decl.	Cat.
V1106 Cyg	19 ^h 19 ^m 01 ^s 52	+53°25'15"/8	U	V1108 Cyg	19 ^h 19 ^m 24 ^s 07	+54°34'09"/4	U
V1109 Cyg	19 19 32 42	+53 41 20 6	U	V1113 Cyg	19 22 42 07	+52 44 00 1	U
V1116 Cyg	19 24 03 32	+51 39 54 1	U	V1118 Cyg	19 24 43 05	+52 32 51 3	U
V1119 Cyg	19 25 44 54	+51 09 32 2	UM	CI Dra	19 25 32 38	+56 43 32 1	U
V1121 Cyg	19 26 18 33	+53 53 28 6	U	V1127 Cyg	19 32 05 76	+51 17 48 6	UM
V1137 Cyg	19 36 54 85	+51 03 44 8	U	V1148 Cyg	19 44 42 70	+52 55 35 1	U
V1149 Cyg	19 44 40 81	+54 39 14 0	U	V1188 Aql	19 06 05 46	-01 12 13 8	G
V1112 Aql	19 07 39 15	-00 23 07 1	U	V1114 Aql	19 10 10 63	-01 26 35 3	G
V1192 Aql	19 11 22 40	+02 08 01 2	U	V1195 Aql	19 13 35 74	+02 39 38 1	G
V1116 Aql	19 15 50 36	-01 28 09 0	U	V1201 Aql	19 16 25 75	-00 20 42 4	U
V1118 Aql	19 17 51 57	+02 27 03 9	U	V1119 Aql	19 17 58 61	+00 13 55 9	U
V1120 Aql	19 19 00 06	+03 30 46 9	U	V1122 Aql	19 19 45 42	+02 23 50 6	U
V1210 Aql	19 20 22 70	+04 55 50 9	G	V1125 Aql	19 21 52 86	+07 21 49 9	U
V1215 Aql	19 22 25 22	+01 28 03 3	U	V1218 Aql	19 22 49 18	+00 23 50 8	GM
V1126 Aql	19 22 46 83	+07 26 55 8	G	V1127 Aql	19 24 00 11	+01 41 48 9	U
V1222 Aql	19 24 16 57	-00 20 02 0	U	V1223 Aql	19 24 18 80	-00 13 08 6	U
V1225 Aql	19 24 25 91	+02 01 51 7	GM	V1226 Aql	19 24 21 06	+05 51 05 6	U
V1128 Aql	19 24 44 04	+03 17 49 1	U	V1337 Aql	19 25 48 87	+07 20 34 1	G
V1231 Aql	19 25 55 82	+07 36 05 6	G	V1130 Aql	19 26 34 58	-01 30 26 1	U
V1232 Aql	19 26 55 96	+06 30 08 6	U	V1131 Aql	19 27 36 89	+03 23 11 8	U
V1132 Aql	19 28 02 86	+04 12 54 4	U	V1241 Aql	19 29 02 83	+05 38 18 3	U
V1242 Aql	19 29 22 20	+03 28 20 2	U	V1243 Aql	19 29 29 63	+05 37 13 1	GM
V1135 Aql	19 31 04 19	-00 18 46 1	U	V1245 Aql	19 30 51 54	+02 27 45 4	U
V1134 Aql	19 30 39 66	+07 50 14 0	U	V1247 Aql	19 31 22 48	+04 36 15 9	GM
V1250 Aql	19 32 07 60	+06 49 45 8	G	V1252 Aql	19 32 46 13	+02 34 39 4	U
V1136 Aql	19 32 53 59	+06 25 36 4	U	V1256 Aql	19 33 50 77	+01 07 01 3	GM
V1138 Aql	19 33 46 89	+02 57 44 5	U	V1139 Aql	19 33 47 96	+03 26 41 0	UM
V1260 Aql	19 34 51 29	-00 46 06 9	U	V1259 Aql	19 34 32 45	+04 01 59 5	U
V1261 Aql	19 34 43 61	+07 08 45 4	G	V1263 Aql	19 35 12 52	+02 05 20 9	GM
V1264 Aql	19 35 38 64	+04 08 45 9	U	V1265 Aql	19 35 39 54	+05 11 48 7	U
V1266 Aql	19 35 58 18	+05 00 53 6	U	V1267 Aql	19 36 29 80	+01 20 19 4	U
V1274 Aql	19 37 11 94	+04 53 13 1	GM	V1142 Aql	19 37 10 77	+07 36 28 5	U
V1144 Aql	19 39 30 98	+04 45 37 0	U	V1145 Aql	19 39 46 42	+02 43 55 8	U
V1147 Aql	19 40 42 93	-00 11 19 0	U	V1146 Aql	19 40 28 33	+05 17 43 0	U
V1150 Aql	19 42 35 00	+01 15 50 2	GM	V1151 Aql	19 42 32 97	+04 04 33 3	U
V1280 Aql	19 42 35 02	+06 24 55 7	G	V1152 Aql	19 43 21 66	+00 05 00 3	U
V1153 Aql	19 43 27 33	+01 13 25 8	U	V1282 Aql	19 43 30 01	+01 42 15 5	GM
V1283 Aql	19 44 13 51	+01 04 38 4	U	V1154 Aql	19 44 43 03	+04 36 12 1	U
V1533 Cyg	20 51 27 88	+46 18 13 3	G	V1543 Cyg	21 00 15 83	+48 26 58 0	G
V1222 Cyg	21 03 01 94	+40 24 52 7	U	V1223 Cyg	21 04 42 87	+41 12 45 1	G
V439 Cas	23 38 03 52	+52 47 38 6	U	V442 Cas	23 40 14 82	+53 57 34 3	G