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ACCURATE POSITIONS FOR 45 VARIABLES IN FIVE FIELDS

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Accurate positions of 45 variable and suspected variable stars in 5 fields (each $5^\circ \times 5^\circ$) have been determined by the method described earlier (Shokin and Samus, 1997). Photographs were taken with the AFR-1 wide-field astrograph (D=23 cm, F=230 cm, $5.5^\circ \times 5.5^\circ$ field) at Mt. Maidanak (Uzbekistan) in 1989–1992. For position determinations of some variables we used the plates taken with the 40-cm Zeiss astrograph (D=40 cm, F=159 cm) at Crimean station of Sternberg Astronomical Institute in 1960 and 1977. The rms errors in the positions of variables are 0.1–0.3 arcsec. Table 2 contains right ascensions and declinations of 45 variables stars in the HIPPARCOS coordinate system, epochs of observations, and GCS numbers (Lasker et al., 1990). Table 1 contains HIPPARCOS (ESA, 1997) and PPM (Röser and Bastian, 1991) catalog identifications for bright stars in these fields. Positions of two PPM stars, DY Aqr and TZ Cnc, have been determined for a modern epoch (see Table 2).

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Table 1. HIPPARCOS and PPM identifications for bright variable stars

Star	HIP	PPM
KN Per	15726	
RU Per	16328	68523
IW Per	16591	68571
S Cnc	42853	125664
T Cnc	43905	
NSV 04332	44126	125983
NSV 05558	60172	158745
BK Vir	61022	158899
FW Vir	61658	159031
NSV 11898	94648	10127
BS Dra	98118	10354
NSV 14100	110023	206183
NSV 14107	110108	206201
ST Aqr		206260
DY Aqr		206217
TZ Cnc		99279

Table 2. Positions of variable stars.

Star	α_{2000}	δ_{2000}	Epoch	GSC
V431 Per	3 ^h 09 ^m 34 ^s .237	+42°19'46''16	90.80	2855.1763
V432 Per	3 10 10.816	+42 52 09.45	90.80	2856.1647
V456 Per	3 10 11.940	+40 02 15.58	90.80	2852.1839
QW Per	3 12 42.997	+38 57 56.74	90.80	2848.1539
V433 Per	3 14 35.155	+43 14 46.80	90.80	
V373 Per	3 14 44.002	+42 22 52.86	90.80	2856.1173
QX Per	3 15 11.633	+39 34 48.65	90.80	2852.0061
V374 Per	3 17 22.503	+42 19 26.74	90.80	2856.1363
WW Per	3 18 28.246	+42 49 09.16	90.80	2856.1215
V434 Per	3 21 36.042	+40 19 22.46	90.80	2865.1811
V460 Per	3 22 31.368	+42 05 56.62	90.80	2869.1537
NSV 01112	3 22 39.141	+40 01 59.13	90.80	2865.1826
V375 Per	3 26 51.281	+40 12 59.50	90.80	2865.1164
NSV 01137	3 27 01.653	+41 53 03.13	90.80	
V463 Per	3 28 14.901	+40 22 18.63	90.80	2865.1030
NSV 04222	8 44 29.788	+19 28 03.62	92.29	1396.0142
NSV 04252	8 47 43.807	+20 01 27.43	92.29	1399.0261
NSV 04269	8 50 51.206	+19 21 26.41	92.29	1396.1497
NSV 04279	8 51 39.788	+18 53 21.36	92.29	1396.1274
NSV 04307	8 55 51.627	+18 22 57.02	92.29	1397.1175
NSV 04310	8 56 10.777	+21 33 03.47	92.29	1400.1789
VY Cnc	9 00 41.113	+18 55 23.33	92.29	1397.1380
SY Cnc	9 01 03.318	+17 53 56.01	92.29	1397.0817
TZ Cnc	9 04 01.005	+20 56 55.02	92.29	1407.0565
NSV 04361	9 04 03.844	+20 31 03.70	92.29	1407.0221
UV Vir	12 21 16.730	+00 22 03.37	89.94	282.0632
EG Vir	12 23 56.243	+00 51 31.74	68.74	
SS Vir	12 25 14.385	+00 46 10.88	89.94	282.0753
EI Vir	12 25 29.046	+01 14 20.87	68.74	
EN Vir	12 29 28.887	+01 38 03.52	68.74	
BI Vir	12 29 30.433	+00 13 28.01	89.94	282.0923
BM Vir	12 31 55.641	+00 54 30.85	89.94	289.0481
BN Vir	12 34 13.926	+02 57 16.44	89.94	289.0640
BO Vir	12 34 20.208	+00 39 25.08	89.94	289.0740
NSV 11763	19 05 23.023	+73 46 26.14	89.66	4443.1813
BI Dra	19 15 51.773	+73 45 48.39	89.66	4456.0951
NSV 12010	19 22 01.986	+74 18 30.52	89.66	4456.1501
YZ Dra	19 23 45.223	+71 41 13.50	89.66	4452.0864
NSV 12223	19 34 33.829	+74 03 05.91	89.66	4456.1244
CO Dra	19 48 24.955	+75 43 04.75	89.66	4584.2893
NSV 12535	19 51 14.443	+73 13 48.17	89.66	4457.2352
AQ Dra	20 02 50.378	+73 27 47.95	89.66	4458.1029
DY Aqr	22 19 04.280	−02 38 30.17	90.74	5228.0157
FH Aqr	22 25 02.487	−04 56 55.81	92.68	5229.1044
NSV 14201	22 33 21.072	−02 48 58.75	90.74	5236.0150

References:

- ESA, 1997, The Hipparcos and Tycho Catalogues, ESA SP-1200
Lasker, B.M., Sturch, C.R., McLean, B.J. et al., 1990, *AJ*, **99**, 2019
Röser, S. and Bastian, U., 1991, PPM Star Catalogue, Heidelberg: Astron. Rechen-Inst.
Shokin, Yu.A. and Samus, N.N., 1997, *IBVS*, No. 4429