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UBV OBSERVATIONS FOR ELEVEN KNOWN VARIABLE STARS

Twelve known variables and six suspected variable stars were included in a photoelectric UBV survey of 317 selected photographic and visual zenith tube stars (Guetter and Hewitt 1984). The observations were obtained with a single beam photometer attached to the 1-meter Ritchey-Chretien reflector at the U.S. Naval Observatory, Flagstaff Station. A cooled EMI 9658R photomultiplier was employed with a filter set selected to transform the measures to the standard UBV system.

HD 7351 = BD+27°196 = NSV 444 01^h 11^m3 +28° 16'

244 5633.801	6.36	1.66	1.95
244 5653.731	6.46	1.70	1.94
244 5655.720	6.40	1.66	1.92
244 5658.665	6.40	1.67	1.91
244 5673.668	6.42	1.66	1.92
244 5674.624	6.40	1.67	1.91

HD 21242 = BD+28°532 = UX Ari 03^h 23^m5 +28° 33'

244 5633.882	6.44	0.90	0.44
244 5658.810	6.52	0.89	0.42
244 5674.712	6.41	0.92	0.45
244 5681.765	6.54	0.89	0.37
244 5684.756	6.50	0.90	0.42
244 5687.736	6.44	0.92	0.44

HD 34269 = BD+42°1239 = PU Aur 05^h 14^m7 +42° 44'

244 5633.967	5.62	1.57	1.67
244 5647.943	5.60	1.57	1.66
244 5653.931	5.78	1.56	1.61
244 5674.767	5.57	1.60	1.68
244 5684.775	5.56	1.59	1.69
244 5687.790	5.55	1.62	1.69

HD 77443 = BD+39°2193 = UX Lyn		09 ^h 00 ^m 6 +38° 57'
244 5402.741	6.62	1.53 1.43
244 5410.601	6.59	1.53 1.45
244 5424.750	6.82	1.52 1.35
244 5464.671	6.76	1.53 1.38
244 5465.659	6.72	1.52 1.37
244 5466.653	6.74	1.52 1.37
HD 116581 = BD+37°2404 = NSV 6220		13 ^h 21 ^m 6 +37° 18'
244 5402.945	6.11	1.64 1.94
244 5463.780	6.16	1.63 1.94
244 5464.771	6.18	1.63 1.96
244 5473.756	6.13	1.64 1.94
244 5484.737	6.16	1.65 1.94
244 5485.693	6.13	1.64 1.95
HD 139216 = BD+15°2890 = TAU ⁴ Ser		15 ^h 34 ^m 2 +15° 16'
244 5403.037	6.35	1.53 1.09
244 5466.880	6.44	1.52 1.08
244 5484.837	6.58	1.56 1.08
244 5485.812	6.58	1.55 1.08
244 5506.744	6.41	1.56 1.12
244 5513.686	6.34	1.55 1.15
HD 147232 = BD+60°1665 = AT Dra		16 ^h 16 ^m 4 +59° 53'
244 5464.898	5.51	1.59 1.73
244 5485.841	5.34	1.60 1.75
244 5506.766	5.49	1.58 1.72
244 5513.711	5.45	1.58 1.71
244 5609.631	5.56	1.57 1.67
244 5610.597	5.57	1.57 1.68
HD 154356 = BD+35°2911 = NSV 8159		17 ^h 01 ^m 7 +35° 29'
244 5463.929	6.30	1.55 1.68
244 5464.929	6.32	1.55 1.66
244 5506.810	6.20	1.57 1.74
244 5514.721	6.34	1.55 1.70
244 5610.600	6.14	1.55 1.68
244 5622.594	6.27	1.53 1.59
HD 172380 = BD+39°3476 = XY Lyr		18 ^h 36 ^m 5 +39° 37'
244 5466.964	6.03	1.64 1.52
244 5506.864	5.88	1.62 1.51
244 5513.787	5.89	1.62 1.49
244 5610.608	6.13	1.66 1.48
244 5633.604	6.22	1.67 1.49
244 5634.586	6.21	1.66 1.48

HD 201078 = BD+30°4318 = DT Cyg		21 ^h 04 ^m 4	+30° 59'
244 5633.640	5.66	0.48	0.30
244 5634.643	5.82	0.56	0.34
244 5647.660	5.93	0.60	0.36
244 5653.607	5.64	0.48	0.30
244 5654.575	5.81	0.58	0.37
244 5655.577	5.84	0.56	0.34
HD 219815 = BD+40°5043 = AN And		23 ^h 16 ^m 0	+41° 30'
244 5633.687	6.04	0.22	0.18
244 5647.689	5.98	0.22	0.18
244 5655.643	5.97	0.21	0.18
244 5658.619	5.96	0.20	0.18
244 5673.649	5.98	0.22	0.17
244 5674.615	5.95	0.22	0.17

The average standard deviation of a single V measure for the program stars was $\pm 0^m.009$. However, the average dispersions in visual magnitude for eleven variables out of the eighteen were $\pm 0^m.025$ or greater. The individual observations for these eleven objects are presented in the accompanying table. Included are the HD and BD numbers, the variable proper name and the 1950 coordinates, followed by the heliocentric Julian date of the observation, the V magnitude, and the (B-V) and (U-B) colors, respectively.

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Reference:

Guetter, H.H., and Hewitt, A.V. 1984, Publ. A.S.P. (submitted)