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SIX NEW VARIABLE STARS

During the period January 1983 to February 1984, photoelectric photometry of selected photographic and visual zenith tube stars was carried out (Guetter and Hewitt 1984). The data were obtained with a single beam photometer attached to the 1-meter reflector at the U.S. Naval Observatory, Flagstaff Station. The photometer employed a cooled EMI 9658R photomultiplier and a combination of filters designed to match the standard UBV system.

The average standard deviation for a single V observation for the program stars was found to be $+0.009^m$. The criterion was adopted that stars with dispersions in visual magnitude greater than or equal to $+0.025^m$ were variables. Seventeen such objects were found, of which eleven are known or suspected variables. The other six stars were not previously known to be varying. Their mean colours indicate that they are K-M giants and it is there-

HD 10388 = BD+38°326 01^h 39^m.2 +39° 10' (1950)

244 5633.836	7.73	1.65	2.00
244 5653.783	7.64	1.66	1.98
244 5658.699	7.65	1.67	1.99
244 5673.695	7.65	1.67	2.00
244 5674.637	7.67	1.63	1.98
244 5684.669	7.72	1.66	2.01

HD 83787 = BD+31°2026 09^h 38^m.6 +31° 30' (1950)

244 5402.793	5.98	1.56	1.77
244 5442.682	5.90	1.57	1.76
244 5463.705	5.88	1.57	1.76
244 5464.693	5.89	1.58	1.78
244 5465.680	5.84	1.56	1.77
244 5466.656	5.88	1.57	1.76

HD 84914 = BD+37°2022 09^h 46^m.5 +36° 59' (1950)

244 5402.808	6.63	1.58	1.95
244 5403.785	6.64	1.58	1.96
244 5465.693	6.56	1.56	1.94
244 5473.664	6.59	1.57	1.92
244 5484.666	6.65	1.58	1.92
244 5485.659	6.61	1.56	1.91

HD 110678 = BD+61°1312 12^h 40^m9 +61° 26' (1950)

244	5464.752	6.40	1.27	1.41
244	5465.761	6.37	1.26	1.40
244	5484.708	6.44	1.27	1.40
244	5485.683	6.38	1.28	1.37
244	5506.663	6.39	1.26	1.39
244	5513.667	6.39	1.26	1.39

HD 121297 = BD+53°1667 13^h 51^m5 +52° 34' (1950)

244	5402.975	6.78	1.53	1.52
244	5463.807	6.69	1.54	1.58
244	5464.801	6.70	1.55	1.57
244	5484.746	6.87	1.52	1.48
244	5485.706	6.86	1.51	1.48
244	5506.671	6.77	1.53	1.53

HD 184827 = BD+33°3507 19^h 33^m1 +33° 41' (1950)

244	5633.611	6.73	1.60	1.84
244	5634.601	6.71	1.59	1.84
244	5653.593	6.69	1.61	1.84
244	5655.568	6.66	1.61	1.85
244	5658.570	6.66	1.60	1.86
244	5674.556	6.66	1.61	1.83

fore concluded that they are irregular variables. In the table the individual measures are presented. Tabulated are the HD and BD numbers, the 1950 coordinates, the heliocentric Julian date of the observation, and the V, (B-V), and (U-B) magnitude and colours, respectively.

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Reference:

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