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EIGHT NEW OR UNDESIGNATED VARIABLE STARS

A continuing photographic patrol has resulted in the discovery of eight more variable stars that are not included in the General Catalogue of Variable Stars (Kholopov et al. 1985) or the subsequent Name Lists of Variable Stars (Kholopov et al. 1985, 1987, 1989). Four of these stars are found in the New Catalogue of Suspected Variable Stars (Kholopov et al. 1982) and this report represents independent confirmation of their variability. Positions and preliminary magnitude ranges, types, and periods are given in Table I, which continues the list in Kaiser (1990). Figure 1 is a finding chart for DHK 21. The other variables are found in the common catalogues, as noted.

All eight stars have been examined on the Harvard College Observatory patrol plates by D. B. Williams, who has confirmed variability in each case and provided most of the magnitude ranges, types, and periods listed in Table I. In addition, M. E. Baldwin and D. Skillman have confirmed the variability of DHK 17 by visual and photoelectric observations, respectively. Detailed results for individual stars will be reported when analysis of the observations is completed.

Some of the information in this report was obtained from the SIMBAD data retrieval system, database of the Strasbourg, France, Astronomical Data Center, for which I wish to thank Joyce Rey-Watson of the Harvard-Smithsonian Center for Astrophysics and Elizabeth Waagen of the AAVSO staff. The variables were detected using a projection blink comparator (PROBLICOM) as described by Mayer (1977).

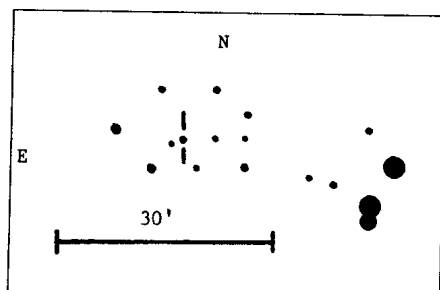


Figure 1. Finding chart for DHK 21, based on blue images.

Table I.

Var. designation	RA (1950)	Dec (1950)	Range (b)	Type	P(days)
DHK 17 - BD +05 ^o 1606 SAO 115161	07h 12m 59s	+05° 08'0	12 -13.5	SR	356
DHK 18 - NSV 4621 BD -05 ^o 2898 HD 84617	09 43 56	-05 48.0	10.4-11.9	Lb	-
DHK 19 - BD +40 ^o 3449 HD 172740 SAO 47682	18 38 22	+40 17.0	9.2-10.5	SR	60:
DHK 20 - NSV 12930 BD +16 ^o 4199 HD 192446	20 12 04	+16 51.7	9.8-11.2	SR:	90:
DHK 21	20 14 16	+46 45	11.4-12.3	SR	400:
DHK 22 - BD +31 ^o 4024 HD 332077 SAO 69757	20 15 11	+31 23.9	11.6-12.2	Lb:	
DHK 23 - NSV 13178 BD +31 ^o 4152	20 34 43	+32 13	10.7-11.2	SR:	340:
DHK 24 - NSV 1737 BD +15 ^o 691 HD 30710	04 47 45	+15 41.9	11.2-12.0	Lb:	-

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