

PARALLAXES OF SELECTED STARS NEAR THE NORTH GALACTIC POLE

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As a contribution toward settling the question of the distances of Murray-Sanduleak (M-S) stars (Murray and Sanduleak, 1972), two of these stars were added to the U. S. Naval Observatory (USNO) program in 1973. After the initial plates had been taken, it appeared that parallax for an additional star could be measured on one series, while parallaxes for two additional stars were possible from the second. As a result provisional parallaxes are now available, Table I.

In terms of USNO parallaxes, these are considered provisional because they are based on half the number of plates on which the final parallaxes are ordinarily determined; only small changes are expected when additional material is added beyond the present.

In addition to the trigonometric parallaxes, photometric parallaxes have been obtained from V-I photometry by Dahn, based upon the  $M_V$ , (V-I) relation previously published (Strand et al, 1974). The mean trigonometric parallax obtained is  $0''.012 \pm 0''.006$  s.d.; the photometric parallax for these five stars is  $0''.011 \pm 0''.006$  s.d.; and the value for 15 of the 21 stars is  $0''.009 \pm 0''.004$  s.d.

The data obtained here indicate that the M-S stars are more distant by a factor of two than originally expected, which is in agreement with recent results obtained elsewhere (Koo and Kron, 1975; Weistrop, 1976).

Table I

M-S	V	V-I	$\pi_t$	s.d.	$\mu/PA$	$v_T$	$\pi_p$
10	13.18	1.77	+ $''023$	$\pm''004$	$''098/219^\circ$	20	$''015$
11	14.32	2.30	+ $''010$	$''007$	$''096/258$	46	$''018$
16	15.47	1.54	+ $''013$	$''012$	$''088/270$	32	$''004$
17	16.54	2.49	+ $''005$	$''013$	$''020/211$	19	$''009$
18	15.25	2.03	+ $''007$	$''005$	$''121/283$	82	$''008$
Mean			+ $''012$	$''006$			$''011$

## REFERENCES

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4. Weistrop, D. (1976). *Astron. J.*, 81, 427.