CONFIDENCE LIMITS ON CORRELATION TENSORS WITH APPLICATION TO

SHIP DRIFT DATA

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By

Jerry L. Fuqua

Thesis Committee:

Brent Gallagher
E. D. Stroup
Klaus Wyrtki

ABSTRACT

Confidence limits are derived for correlation tensors which have been estimated through the use of finite sets of possibly inaccurate observations. The results are applied to velocity fluctuation correlations computed from ship drift data in the Gulf Stream Region. It appears that large scale horizontal fluctuations may be anisotropic near the axis of the mean current.