

Abstract for an Invited Paper
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Turbulence in Strongly Stratified Flows¹

JAMES RILEY, University of Washington

Laboratory experiments in the early 1970's (*e.g.*, Lin & Pao, *Ann. Rev. Fluid Mech.*, **11**, 1979) revealed quasi-horizontal vortices in wakes of objects moving through stably-stratified fluids. These results suggested new flow dynamics, in addition to internal waves, in flows strongly affected by stable density stratification, conditions which often occur, *e.g.*, in the atmosphere and oceans. In the past ten years theoretical analyses, numerical simulations, laboratory experiments and some field studies have led to a much better understanding of these flows and, in particular, how they can provide pathways to three-dimensional turbulence. In this talk some of the results of this research will be discussed.

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