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Observational and Numerical Evidence for Wind-Forced Coastal Trapped Long Waves

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ABSTRACT

Recent work has shown that the linear, wind-forced quasi-geostrophic motion of stratified water over shelf topography can be described by a sum of modes, the amplitude of each of these modes satisfying a forced, first-order wave equation. The analysis presented suggests that this forced wave equation can qualitatively explain a wide range of observational and numerical results.

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