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The Effect of Bottom Friction on Low-Frequency Coastal Trapped Waves

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ABSTRACT

An approximate technique is presented for including the effect of turbulent bottom friction in the forced first-order wave equation governing long generalized coastal trapped waves. The resulting governing equations include both damping and a cross-shelf and vertical phase shift. A set of examples shows that damping of free waves decreases as the static stability increases, consistent with the inhibition of vertical motions by stratification.

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