

Wave turbulence in shallow water

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Internal gravity waves breaking above Great Meteor Seamount

We present a 19 days, high frequency record of temperature profiles above the eastern shelfbreak of the Great Meteor Seamount. Seamounts are known to be efficient regions for internal tides generation, but also participate in mixing and transport through nonlinear processes and wave breaking. We measured extreme overtuning events associated with the upgoing tidal flux pushing cold water up the slope. Strong shear also lead to small scale instabilities that are also resolved by our sensors.