

# Eddy-modulated, near-inertial turbulence

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The horizontal velocity vector of linear, internal gravity waves rotates anticyclonically. Rotary spectra allow the decomposition of near-inertial currents into motions consistent and not consistent with internal waves. We explore the importance of the non-wave component, denoting this as «near-inertial turbulence». In both the Northern and Southern Hemisphere the internal waves dominated with near-inertial turbulence accounting for about 10% to 20% of the near-inertial variability. The monthly internal wave energy was found, unsurprisingly, to be uncorrelated with the monthly mean currents. In contrast, the monthly-mean super-inertial turbulence was significantly correlated with the monthly mean currents.