

## **What about the wind, near-inertial waves, and PSI?**

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The GM spectrum does not account for the 1) existence, 2) directionality, 3) intermittency, and 4) strongly spatially coherent nature of near-inertial motions. Yet it seems they must have a profound effect on the shape and energetics of the rest of the spectrum. In this talk, moored and shipboard observations of near-inertial waves in the ocean are presented with the aim of characterizing their 1) forcing mechanisms (wind or PSI?), 2) geographical distribution, and 3) spatial structure. In addition to wind forcing, evidence is presented for significant near-inertial sources at the critical latitudes for semi-diurnal and diurnal motions, 28.8 and 14.5 degrees, respectively. Backrotated shear transects show sloping near-inertial shear features that are laterally coherent across hundreds of kilometers.

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