

Lagrangian internal wave spectra

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We test the stated hypothesis of this workshop, that the internal wave spectral continuum is really a set of peaks Doppler shifted into an apparent continuum, by showing measurements of ~ 1 m shear and strain spectra measured from Lagrangian floats in the thermocline on and near the Oregon Shelf. These spectra should be immune to Doppler shifting at least of the most naive kind. The spectral levels are close to GM.

The average spectra are clearly continuous spectra, not dominated by peaks, with a break near N , as expected, apparently contradicting the hypothesis. More detailed analysis will test the hypothesis on a more fine-grained level.

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