



The seasonal evolution of wind/internal wave resonance in Lake Kinneret

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ABSTRACT: Data from a thermistor chain and wind sensor collected over an annual stratification cycle in Lake Kinneret (Israel) during 2000 were used to investigate the seasonal evolution of wind/internal wave resonance. Internal wave periods determined from an analytical model were compared with observations, and we show that resonance during 2000 occurred during three distinct times of the year [at the onset of stratification (March), during the heating phase (June), and during the cooling phase (November)]. In all cases, resonance was between the wind and the dominant radial, azimuthal, and vertical mode-one cyclonic (Kelvin) wave previously observed in Lake Kinneret.

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