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Analysis of High Resolution Marine Seismic Data Using the Wavelet Transform

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Abstract

A method is proposed for the analysis of high resolution acoustic signals using the wavelet transform. For signals with intensities exhibiting frequencies ranging from 100 Hz to 10 kHz, time-frequency displays of the signal can lead to more robust means of estimating attenuation as well as quantification of wavefield scatterers within shallow marine sediments. The time-frequency decompositions of the signals are accomplished using the wavelet transform and a Morlet analyzing wavelet. Zero offset acoustic signals are analyzed and the modulus of the wavelet transform is displayed as a function of depth below seabed versus wavelength. The results are discussed and related to the subseabed soil conditions at an experimental field site.



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