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SEG Expanded Abstracts / Volume 25 / SPMUL 1 Multiple Attenuation: New Directions

Fast free-surface multiples attenuation work-flow for 3D OBS data

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ABSTRACT

REFERENCES (5)

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Multiple reflections in marine seismic data are an old standing problem. We present a new fast work flow for attenuation of free-surface related multiples for 2D and 3D Ocean Bottom Seismic (OBS) data based on the wave equation approach from Amundsen (2001a, 2001b). Free-surface multiple attenuation is performed in the radon domain. Data are transformed into the Radon (τ -p-q) domain by means of a fast Radon Transform using Fourier projection slice theorem. This allows transforming even large data sets in a fast manner. Then, the wavefield is split into its up-and down-going part and which are used to create a deterministic deconvolution filter to attenuate the energy of the free-surface multiples. ©2006 Society of Exploration Geophysicists

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