Seismic modeling study of the Earth's deep crust

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We use seismic modeling methods to validate the interpretation of deep-creat seismic exploration. An approximation of the stacked section is obtained with the monre flecting wave equation and the exploding reflector approach. Using this technique and nay-tracing algosithers, we obtain a prological model by comparing the synthetic section with the real stacked section. An is otropic constitutive equation in assumed in this phase. The exact synthetic stacked section is then obtained by applying the standard processing suggester and of evethetic common shot profiles computed with the variabledensity accountic wave equation. We introduce elliptical P-way canisotropy and the effects of small-scale inhomogeneities by using a von Kärmän autocovariance probability function that simulates scattering Q effects. Verification of the prological model by poststack migration. constitutes an additional test. The methodology, which is suitable for areas of complex prology, is applied to a seismic lime acquired in the northern Apennines as part of the Italian deep-crust exploration project, CROP. This area is particularly difficult to interpret because of the presence of a complex tectonic setting.

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The objective of seientic numerical modeling is to predict the seismostam that a set of sensors would record, given an assumed structure of the subsarface. It is a valuable tool for selumic interpretation and an expedial part of selumic inversion. algorithms. It is also used to provide data for testing processing algorithms and for evaluating acquisition garameters and processing options for various targets of interests before field data acquisition (Ondenvar et al., 1996).

Seismic modeling has been used for hydrocarbon exploration problems (Kang and McMechan, 1990; Fagin, 1992). for earthquake seismology problems (Priolo, 1999), and for crus tal studies (Yarnokii, et al., 1993; Morgante, 1998; Morgante et al., 1980. Modeling synthetic seismograms may then bave different purposes. In exploration peophysics, for instance, it a important to perform a sensitivity analysis related to the detoctability of a petrophysical variable, such as porosity. Build type, or fluid saturation. In earthquake seismology the scale of the investigation can be of the order of kilometers for siteresponse problems (Pricks, 1999) or of the order of tens of kilometers for deep creatal studies (Possiani et al., 1995). We develop a methodology to validate the seismic response of the Earth's crust on a large-scale basis for the purpose of verifying the main prological features of the upper and lower crusts obtained during the interpretation process.

The interpretation of large-scale structures of the deep crust is mainly based on Power information jexamples of wismic data are from the Italian CROP and the German DEKORP deep-cruste sphoration projects (Finetti, 1994; Pialli et al., 1998; Rabbell and Gajewski, 1999)]. The source and acquisition panumeriors for the CROP-03 seliumic survey are given in Table 1 Bertelli and Macrotti (1998); see also Mazzotti et al. (2000) for alternative parameters). The survey has been interpreted by Finestii et al. (2001). Amplitude information is relatively important, but a precise determination of the interval velocities is difficult because the residual NMO of reflections wents beyond 4.5 shecomes very small. Additional problems are the complex. tectonic regime and rough topography with outcrops of highvelocity layers. Moreover, the data are manify of low S/N ratio. thus invalidating the use of techniques such as prestack depth. migration. Therefore, we should deal with almost zero-offset Pway we data, and the model decise should be based on the stacked time section: we'll data are scarce, and only oil exploration wells. down to 4 km depth are available. The data generally show a nother scarce reflectivity and diffractions, which may reveal the presence of fault planes. On the basis of these facts, it is unrealistic to use sophisticated modeling techniques. Therefore, we do not consider mode conversion (i.e., S-waves) and intrinsic attenuation, which, in this situation, constitute second-order effects. Anisotropic effects on the P-wave are modeled with an

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Seismic Modeling Of The Earths Crust

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