Seismic modeling study of the Earth's deep crust

José M. Carcione*, Icilio R. Finetti¹, and Davide Gei*

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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. Buid 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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Seismic Modeling of the Earth's Crust ,1972 Postroenie Seismicheskoi Modeli Zemnoi Kory Igor' Nikolaevich **Seismic Modeling of the Earth's Crust** Igor' Nikolaevich Galkin,1975 **Seismology and Structure of** Galkin, 1975 the Earth Barbara Romanowicz, Adam Dziewonski, 2010-04-20 Treatise on Geophysics Seismology and Structure of the Earth Volume 1 provides a comprehensive review of the state of knowledge on the Earths structure and earthquakes It addresses various aspects of structural seismology and its applications to other fields of Earth sciences The book is organized into four parts The first part principally covers theoretical developments and seismic data analysis techniques from the end of the nineteenth century until the present with the main emphasis on the development of instrumentation and its deployment The second part reviews the status of knowledge on the structure of the Earths shallow layers starting with a global review of the Earth s crustal structure The third part focuses on the Earth s deep structure divided into its main units the upper mantle the transition zone and upper mantle discontinuities the D region at the base of the mantle and the Earth's core The fourth part comprises two chapters which discuss constraints on Earth structure from fields other than seismology mineral physics and geodynamics Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the expert and non expert Deep Seismic Sounding of the Earth's Crust and Upper Mantle Irina P. Kosminskaya, 2012-12-06 Deep seismiC sounding was proposed by G A Gamburtsev and developed under his guid ance during the period 1948 1955 at the Institute of Physics of the Earth of the Academy of Sciences of the USSR During that period also the first geophysical results concerning the deep structure of the earth's crust in several regions in Tien Shan the Pamir and Turkmenia were observed Beginning with 1956 the deep seismic sounding method has been used widely by geo physical research groups as well as by geophysical service organizations for regional studies in the USSR Descriptions of this work have been given in reports by Yu N Godin V V Fedynskii D N Kazanli and others New variants of the deep seismic sounding method have been developed continuous profiling Yu N Godin and others and point soundings N N Puzyrev and others Deep seismic soundings have been carried on outside of Russia also and studies have been carried out on the use of the deep seismic sounding method in marine applications E I Gal perin S M Zverev 1 P Kosminskaya Yu P Neprochnov and others OVer the past decade the deep seismic sounding method has joined the suite of geo physical studies as a highly detailed method for studying the earth s crust and upper mantle to depths of 50 to 100 km on land and of 15 to 25 km in the deep oceans The Three-ray Megacontinent of the Earth Yuri Bakulin, Anatoly Zhirnov, 2019-12-10 This book explores many mysterious features of the structure and evolution of the Earth s continents still unknown to the scientific community and a wider audience Science has now proved that the southern continents of South America Africa and Australia represent the southern ends of a single three beam megacontinent It began

to form 4.4 billion years ago in a huge three beam cavity on the planet's surface and grew vertically up to its present state Proof of the reality of a single three beam megacontinent is a fundamental discovery in Earth sciences and represents a new level in the understanding of the planet's structure The text will appeal to researchers of Earth sciences university teachers and students and secondary school teachers of geography and geology as well as all readers with an interest in the history of Active Geophysical Monitoring Hitoshi Mikada, Michael S. Zhdanov, Junzo Kasahara, 2019-10-05 Active Geophysical Monitoring Second Edition presents a key method for studying time evolving structures and states in the tectonically active Earth's lithosphere Based on repeated time lapse observations and interpretation of rock induced changes in geophysical fields periodically excited by controlled sources active geophysical monitoring can be applied to a variety of fields in geophysics from exploration to seismology and disaster mitigation. This revised edition presents the results of strategic systematic development and the application of new technologies It demonstrates the impact of active monitoring on solid Earth geophysics also delving into key topics such as carbon capture and storage geodesy and new technological tools This book is an essential for graduate students researchers and practitioners across geophysics Outlines the general concepts of active geophysical monitoring with powerful seismic vibrators and MHD generators Provides historical background for previous studies of seismically active zones Covers the theory and technology of active monitoring including signal processing data analysis novel approaches to numerical modeling and interpretation Discusses case histories and presents the results of worldwide regional active monitoring experiments Thoroughly updated to include recent developments such as updates relating to carbon capture and storage microgravity InSAR technologies geodesy reservoir monitoring seismic reflection and more Advances in Geophysics, 1996-01-12 From the Foreword This series has provided workers in many fields with invaluable reference material and criticism Science ProgressShould be on the bookshelf of every geophysicist Physics TodayThe entire series should be in the library of every group working in geophysics American Scientist

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