



Seismic Exploration of the Deep Continental Crust

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Book Condition: New. Publisher/Verlag: Springer, Basel | Methods and Concepts of DEKORP and Accompanying Projects | Reprint from Pure and Applied Geophysics (PAGEOPH), Volume 156 (1999), No. 1/2 | DEKORP, the German continental reflection seismic program, was the major focus of deep seismic research in Germany in the 1980s and 1990s. The seismic sections provided fundamental new insight into deep geological structure of the European continent and the dynamics of continental formation. They formed the basis for worldwide comparative studies of orogenic structure. The complicated signature of the reflections from the deep crust indicated that new processing and interpretation techniques must be considered to better image the crystalline crust. Results of these efforts, including pre-stack migration, 3-D imaging, shear waves and seismic anisotropy, are presented in this special volume. In part, the articles open the perspective to new and future research. In part, they document research activity triggered by technical and interpretational questions raised by DEKORP field work and profiling results. Many of the presented methods can find immediate application in industrial seismic prospecting. | Foreword: Seismic Exploration of the Deep Continental Crust.- Nature of Crustal Reflectivity along the DEKORP Profiles in Germany in Comparison with Reflection Patterns from Different...



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