CRUSTAL STRUCTURE OF THE TRANSITION ZONE BETWEEN THE SAXOTHURINGIAN AND MOLDANUBIAN UNITS

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STUDIED BY THE SURFACE WAVE METHOD

A profile of four broadband seismic stations is used to study the transition zone between the Saxothuringian and Moldanubian units (Czech Republic). The profile is about 120 km long and its direction is SE-NW. Both earthquakes from SE (Greece, Turkey and Iran) and NW (Mexico, Calfornia) were recorded with clear surface wave groups. Time-frequency analysis and multiple filter technique were applied to obtain dispersion curves. The phase velocities of fundamental modes of Rayleigh and Love waves along the profile were determined and inverted to obtain the S-wave seismic velocity in the Crust. The results are compared with P-wave velocity model obtained during refraction experiments and with results of the receiver function methods.