

Velocity structure and seismogenic zone in the Northern Kinki District

Koji Yoshii[1], Kiyoshi Ito[2]

[1] RCEP, DPRI, Kyoto Univ., [2] Disas. prev. Res. Inst, Kyoto Univ.

P-wave velocity structure is analyzed by using ray-tracing method for the data of seismic refraction experiments in the northern Kinki district, southwest Japan. The following results were obtained: the lower crust is reflective as a whole with strong reflector at about 25km deep and the depth of the Moho is about 40km. Comparing the velocity structure model with seismic activity of this area, the upper cutoff of seismogenic zone of about 3-5km coincide with the top of the 6km/s layer. On the other hand, the lower cutoff depth does not coincide with any boundaries of the velocity structure.