

The crustal structure of Fujihashi-Kamigori profile - the existence of 5.5 km/s layer in Kinki and western part of Japan -

Ken Otsuka[1], Takeo Moriya[1]

[1] Earth and Planetary Sci., Hokkaido Univ.

Refraction and wide-angle reflection experiment of Fujihashi-Kamigori profile, in the central to western part of Honsyu was carried out.

The results are as follows. 1)The crustal structure is simpler. 2)The layer whose V_p is about 5.5 km/s exists under sedimentary layer. 3)The thickness of the 5.5 km/s layer is about 2.5 km, of the upper crust is about 20 km and of the lower crust is about 16 km. 4) V_p of the sedimentary layer is 2.85-4.70 km/s, of the 5.5 km/s layer is 5.30-5.75 km/s, of the upper crust is 5.85-6.30 km/s, of the lower crust is 6.62-6.90 km/s and of the upper mantle is about 7.9 km/s. 5)The V_p to V_s ratio of the sedimentary is 1.70-1.79, the upper crust is 1.71-1.80 and lower crust is 1.69-1.74. 6) The upper crust is transparent and the lower crust is much reflective.