

## Geological characteristics of seismic basement of the Southwest Japan

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The depth of the crust of island arc has inhomogeneous lithofacial composition. Deformational response which relates to the cause of faults and earthquakes may largely depends on geometry of thier mechanical heterogeneity. The figure showing crustal characteristics in which the distribution of Quarternary volcanos, microearthquakes and active faults was laid on the presumed basement geological map of the Southwest Japan was proposed. Thus the areal property was extracted in the relation with the crustal chracteristics; for example, crusts made by accretionary complex are surrounded by the granitic crusts, forming a frame work or skeleton structure, and many active faults develop inside of the granitic crusts or those marginal part in the area from Chubu to eastern part of Kinki district.