

## Evolution of Quaternary volcanoes in Higashi-Izu area using K-Ar dating method.

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The style of Quaternary volcanic activity of Izu Peninsula, is proposed to have changed from polygenetic to monogenetic volcanoes at around 0.15-0.30 mys ago, accompanied by the period of no eruption which is about 0.15 mys. The K-Ar age measurements found no age gap between activities of monogenetic and polygenetic volcanoes. Therefore I suggest that the change in the volcanic style was occurred in 0.3-0.2 Ma gradually. To investigate the tectonic event which force the volcanic style change, we compile the tectonic data around Izu Peninsula. Reconstruction of the tectonic model of the collision event suggests that transition time of the volcanic style indicates the age of the formation of the Phillipine Sea plate slab fracture and the change of the subduction direction.