

## Volcanic Geology and History of Kuchinoshima, Tokara Islands, Kagoshima Prefecture, Japan

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One of the Tokara Islands, Kuchinoshima, is located at 184km south-southwest of Kagoshima City. Kuchinoshima volcano erupted several times, since 10,000 y.B.P.(Nishimura et.al., 1993), but there are few reports of volcanic geology.

Volcanic history of Kuchinoshima contains following five stages.

The first stage: Mukaidake and Furiidake domes effused, and before and after that Gunomezaki, Iwayaguchi and Iwaya agglutinates were deposited.

The second stage: Ueurayama volcano was formed. Ueurayama caldera was formed after the eruption of Ohkachi pyrocrastic flow. Before and after that, Tanagiyama volcanic rocks was formed.

The third stage: Yokodake volcano was formed over Ueurayama caldera. Later, the part of southeast of Yokodake collapsed, Yokodake debris avalanche occurred, and Yokodake horseshoe-shaped caldera was formed.

The fourth stage: Ko-Maedake lava flow effused, and then, Maedake dome was formed.

The fifth stage: Sin-Maedake lava flow, Hotokebiradake volcano, Hikusue lava flow and Tosiri dome effused. The latest volcanic activity of Kuchinoshima was the formation of Moedake dome.