

## Geological development of the Old somma of Hakone volcano

# Masashi Nagai [1], Masaki Takahashi [2]

[1] Environmental Sci., Ibaraki Univ., [2] Environmental Sci., Ibaraki Univ

From 0.4 to 0.25 Ma, many small sized stratovolcanoes developed in the Old Somma of Hakone volcano. Older stratovolcanoes (early stratovolcanoes) are composed of basalt, whereas, newer ones consist of andesite (late stratovolcanoes). From 0.3 to 0.25 Ma, monogenetic volcanoes composed of andesite to dacite developed (early monogenetic volcanoes), along with the late stratovolcanoes. From 0.25 to 0.2 Ma, basaltic to rhyolitic middle monogenetic volcanoes developed. From 0.2 to 0.16 Ma, andesitic to dacitic late mono-genetic volcanoes developed.

Based on bulk rock chemistry, at least two types of basalt with different Zr/Y ratios exist. felsic magma can be divided into at least two types, based on differing contents of K<sub>2</sub>O, which change from enriched to poor at about 0.25 Ma.