

## Distribution of Quaternary volcanoes in active continental margins

# Katsuya Kaneko [1], Kazuhiro Tanaka [2], Hiroyuki Tsuchi [3]

[1] Geochemistry department, Geological survey of Japan, [2] Geol. Dep., CRIEPI, [3] TEPCO

We report a comprehensive study of the distribution of position and volume of Quaternary volcanoes in 9 active continental margins (Northeast Japan, Sumatra, Java, Cascade, Mexico, Central America, Northern, Central and Southern Andes), corresponding to a total of 1060 volcanic systems. We obtain data sets of positions and volumes of Quaternary volcanoes in the investigated volcanic arcs. Results are shown as follows. (1) Some linear arrangements of volcanoes from the volcanic front to the back arc side are recognized. (2) Some volcanic clusters form in the volcanic front region. (3) the distribution of volume along arc changes cyclically over a distance of 40 to 130 km in each arc. These characters will give important constraints to understand mechanisms of magma genesis and ascent.