

## Quaternary volcanic activities in view of K-Ar ages of Macolod Corridor region in southwestern Luzon, Philippines

# Masafumi Sudo [1], Eddie Listanco [2], Naoto Ishikawa [3], Takahiro Tagami [4], Hiroki Kamata [5], Yoshiyuki Tatsumi [6]

[1] IHS, Kyoto Univ., [2] Geol. Sci., UP, [3] School of Earth Sciences, IHS, Kyoto Univ, [4] Earth and Planetary Sci., Kyoto Univ., [5] Earth Sci., Integr. Human Stud., Kyoto Univ., [6] Inst. Geotherm. Sci., Kyoto Univ.

The Macolod Corridor region in the southwestern Luzon, Philippines, has the features, such as, nearly vertical subduction of the oceanic slab, collision of a continental block and development of fault systems. From these points, it has been suggested that the diffuse system occur in this region. In this study, we discuss the volcanic activities in this region, using K-Ar ages, paleomagnetism, and chemical composition of basalts. The result implies that the possible migration of eruptive activities from the Laguna de Bay caldera area in the back arc side to the monogenetic volcanoes area in the relatively forearc side after 1.6 Ma although the Taal caldera area in the forearc side has continuous eruptive activities from 2 Ma to the present.