

## Origin and restitic materials of high-Sr tonalitic and granodioritic rocks in Kyushu Island, Southwest Japan

# Atsushi Kamei[1], Masaaki Owada[2]

[1] Earth Sci., Yamaguchi Univ, [2] Dept. Earth Sci., Yamaguchi Univ.

Cretaceous high-Sr tonalite-granodiorite is widely underlain by north-central Kyushu, Southwest Japan arc. The tonalite-granodiorite magma is derived from mafic lower crust, which is cumulate rock of high-Mg andesite. Restite after partial melting of the source region contains little plagioclase. Therefore, chemical composition of the tonalite-granodiorite magma indicates high Sr content.