

Relationship between Cretaceous Itoshima granodiorite and Fukae granite in north-west Kyushu

Jun Yada[1], Masaaki Owada[2]

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

Cretaceous granitic rocks are widely underlain by the northern part of Kyushu Island, southwest Japan. These granitic rocks are divided into two petrographical series, granodiorite series and granite series. In general, the former is intruded by the later. On the other hand, the Itoshima granodiorite gradually changes into the Fukae granite in northwest Kyushu. Based on petrological investigation, the Itoshima granodiorite and the Fukae granite are derived from the same calcalkaline andesitic magma by fractional crystallization mainly of hornblende.