

Zonal structure of the northern body of Kumano Acidic Rocks

Jun minagawa[1]

[1] Graduate School of Science, Tohoku Univ

The Kumano Acidic Rocks consist of Konogi Rhyolite, Rhyolitic tuff and Granite porphyry. As usual, the granite porphyry is homogeneous according to the chemical compositions, the combination of phenocryst minerals and so on. In this study I have done the fieldwork, measurement of magnetic susceptibility, petrography, and the chemical analysis of the whole rock of the northern granite porphyry. The results indicate that the northern granite porphyry has the asymmetric distribution of the groundmass texture, the magnetic susceptibility and its composition. It is concluded that this asymmetric distribution was formed by crystal differentiation and quenching during the intrusion of the rhyolite magma to the present level from the deeper magma chamber at 8-9km depth.