

## Emplacement, intrusive direction and structure of granite porphyry, northern body of Kumano Acidic Rocks

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The Kumano Acidic Rocks in the southeastern coast of the Kii Peninsula consist of Konogi Rhyolite, Rhyolitic tuff and Granite porphyry. The granite porphyry is the main unit of this area. In this study I have done the fieldwork, measurement of magnetic susceptibility of igneous rocks, petrography, and the analysis of the bulk chemical composition of the northern granite porphyry. The results indicate that the northern granite porphyry has the asymmetric distribution of the groundmass texture, total phenocryst mode and phenocryst size. It is concluded that the cooling rate and the intrusive direction formed this asymmetric structure during the intrusion of the granitic magma to the present level from the deeper magma chamber at 8-9km depth from this study.