

The geochemical characteristics of the Neogene to Quaternary volcanic rocks from the mountainous of the northern Kofu Basin.

Tomoyuki Shibata[1]

[1] BGRL, Kyoto Univ

Major and trace element compositions of Neogene to Quaternary volcanics from the mountainous of the northern Kofu Basin were analyzed. The samples were collected from the lavas and dykes of the Mizugamori, Kurofujii and Kayagateke volcanoes. In the silica-alkali diagram, data are plotted on the boundary of tholeiite and high alumina basalt rock series. The patterns of trace elements show typical characteristics of island arc magma such as enrichment of LILE and depletion of HFSE. It is observed that the Sr/Y ratios of Neogene volcanics are lower compared with those of Quaternary volcanics. From these observations, we will discuss the contributions of Pacific and Philippine Sea plates to the genesis of island arc magmatism beneath the mountainous of the northern Kofu Basin.