

Paleomagnetic direction of aa lava flows: A case study of the Taisho and Showa lavas

Hiroyuki Hoshi[1]; Yuhji Yamamoto[2]

[1] Dept Earth Sci., Aichi Univ. Educ.; [2] Geological Survey of Japan, AIST

<http://www.earth.aichi-edu.ac.jp/~hoshi/>

The Taisho and Showa lavas are historic aa flows of Sakurajima volcano in Kyushu, and we sampled these flows for a detailed paleomagnetic study. At two localities of the Taisho lava, sampling was designed to take paleodirections from both the solid massive lava body and the surrounding autobrecciated layer (aa clinker). At one locality of the Showa lava, samples were collected from three sites (sample clusters) of the solid massive body. All the samples collected were subjected to stepwise af and thermal demagnetizations, and the results were treated by principal component analysis. In the presentation the results will be discussed.