

SP variation due to fluid-pressure equilibration associated with VLP pulse observed in the 2000 activity of Miyake-jima volcano

Osamu Kuwano[1]; Shingo Yoshida[1]; Masao Nakatani[2]; Makoto Uyeshima[1]

[1] ERI, Univ. of Tokyo; [2] ERI

Numerical simulation of electrokinetic potential was performed to understand the SP variation due to fluid-pressure equilibration following an earthquake.

The result of the simulation gave good agreement with magnitude, phase, and distribution of the self-potential variation observed in the 2000 activity of Miyake-jima volcano.