

Electrokinetic phenomena in unsaturated zone

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It is important for quantitative modeling of self-potential distributions observed at volcanoes to get better understanding of electrokinetic phenomena in unsaturated zones. We will report the observed changes in self-potential corresponding to the air injections into an unsaturated zone through a 100 m-depth well (changes of more than 10 mV due to the air injection of 1 bar gage pressure), and the results of numerical modeling of associated electrokinetic phenomena.