

# Self-potential measurements around the focal region of the 1984 Western Nagano Prefecture Earthquake: A preliminary report

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In order to investigate a relationship between tectonic movements and subsurface low resistivity zone, we carried out self-potential measurements in 2003 around the focal region of the 1984 Western Nagano Prefecture Earthquake. The equipment for measuring surface self-potentials consists of a pair of non-polarizing copper-copper sulfite electrodes, an insulated connecting conductor cable, and a high input impedance digital multimeter. In this survey, profiles totaling about 30km length were made, with an average sample spacing of 100m.

In this paper, we will report a detail of self-potential measurements and a preliminary result of this survey.