

Hydrological structure inside Bandai volcano inferred from self-potential and geochemical studies

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Self-potential (SP), chemical and isotopic studies were originally carried out in order to reveal the hydrothermal system beneath Bandai volcano (Northeast Honshu, Japan). In this presentation SP data will be mainly taken up. No large scale SP anomaly is shown at Bandai volcano. However, when we look the SP profiles more carefully, positive SP anomaly related with neutral NaCl thermal water upwelling was slightly observed. Conversely flat distribution of SP was observed around acid-SO₄ welling site. On the other hand sharp descent related with the marked change of resistivity was found on the north side of the Akahaniyama. Meanwhile the terrain-related SP fields were slightly seen on the each root, especially noticeable at northern foot of the mountain. Chemical and strontium isotopic data may support the interpretation of some SP data.