

## **Resistivity structure of preparation zone for phreatic eruptions in several volcanoes in Japan**

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We have conducted magnetotelluric surveys in several volcanoes which repeated phreatic eruptions in order to clarify the subsurface structure of the shallow hydrothermal system as the preparation zone for phreatic eruption. In comparison to the conventional survey, we concentrated measurement sites in a narrow range around active craters or fumarolic areas and obtained the detailed three-dimensional resistivity structure down to a depth of about 1 km. In this presentation, we will introduce the results obtained so far in some volcanoes.