Self-potential and hydrothermal system of Sakurajima Volcano

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We conducted self-potential survey in Sakurajima Volcano. We are intending to infer the size and topology of subsurface hydrothermal circulation of Sakurajima. Although this research project is still in progress, we have got the following two results so far.

1) The summit part of the volcano seems high in SP, considering the "topographic effect".
2) High SP parts were also found at the fissures of 1914 eruption located at the western slope of the volcano. However, it seems that there is no significant SP anomaly around the eastern craterlets of the volcano.