

A comparative study of the water environment around active volcano in Japan - mainly Mt.Ontake, Mt.Asama and Mt.Hakone

*Yoshihiro IGARI¹, Koji Kodera¹, Kazuki ASAMI¹, Masaki HORIUCHI¹

1. Hosei University Lab. for hydrogeography

There are many active volcanoes in the Japanese archipelago, but factors of formation and constituents of the mountains vary depending on the volcano. In addition, due to the influence of volcanic activity, it is expected that the water quality of rivers and spring water around the volcano will also change. Therefore, we report on the results of continuous water quality survey in three volcanic areas, Mt.Ontake, Mt. Asama and Mt.Hakone where activities have been active since 2014. The electrical conductivity was generally small in the surrounding rivers around Mt.Ontake, and the values tended to be larger overall in Mt. Asama and around rivers in Hakone. Dissolved components compared In the three regions, the tendency that the EC value is small tends to show the CaHCO₃ type water quality composition, but the composition is different depending on the region at the point where the value is large. There are many water quality of SO₄ type.

Keywords: Active Volcano, Eruption, Water quality, Dissolved component, Geology

