

## Difference of water quality of rivers between the affected by polluted air from urban area and the environed by mountain

Yusuke Machida<sup>1\*</sup>, Kenichi Satake<sup>1</sup>

<sup>1</sup>Geo-environment Sci, Rissho Univ.

The source area of Arakawa river in Saitama prefecture and the source area of Fujigawa river in Yamanashi is common. It is high mountain district located in Western part of Kanto district. However, there is a big difference of water quality between the both rivers. Especially nitrate concentration in Fujigawa river is lower than that of Arakawa river.

This difference of water quality suggested the shielding effect of high mountains on the transportation of polluted air containing nitrate and the other pollutants from the Tokyo area.