

# Study on regional snow distribution effect using isotope ratio

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The regional water resource management is estimate difficult operation in the future because climate change has a connection with snow variation. It is important to predict snow environment using climate model outputs to this solution. However this data can not use for regional water management according large grid size. It is necessary to develop this management to export small spatial resolution. we tried to study detail climate information using isotope ratio as tracer. The regularity to spatial feature was obtained by chemical characteristic in this study. And we also understood water effect due to snow condition. As result, snow depth variation changes depend on snowfall source as spatial characteristic. Therefore, we could recognize new regularity of acid snow.

Keywords: isotope ratio, snow environment, regional scale

