

## Changes of hydrogen and oxygen isotopic ratios of stream and meteoric waters from Tazawako-cho, Akita Prefecture, northeast Japan

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Stream and meteoric water samples were taken from Tazawako-cho, Akita prefecture, to know changes of hydrogen and oxygen isotopic ratios of them.

Averages of hydrogen and oxygen isotopic ratios of stream water are  $-57.4 \pm 0.4$  permil and  $-9.6 \pm 0.1$  permil, respectively. Thus, it is clarified that the change of isotopic ratios of stream water is so small. On the other hand, changes of hydrogen and oxygen isotopic ratios of meteoric waters are so wide. Changes of rain water are -24 to -168 and -5.2 to -21.3, whereas those of snow are -12 to -161 and -5.9 to -22.2.