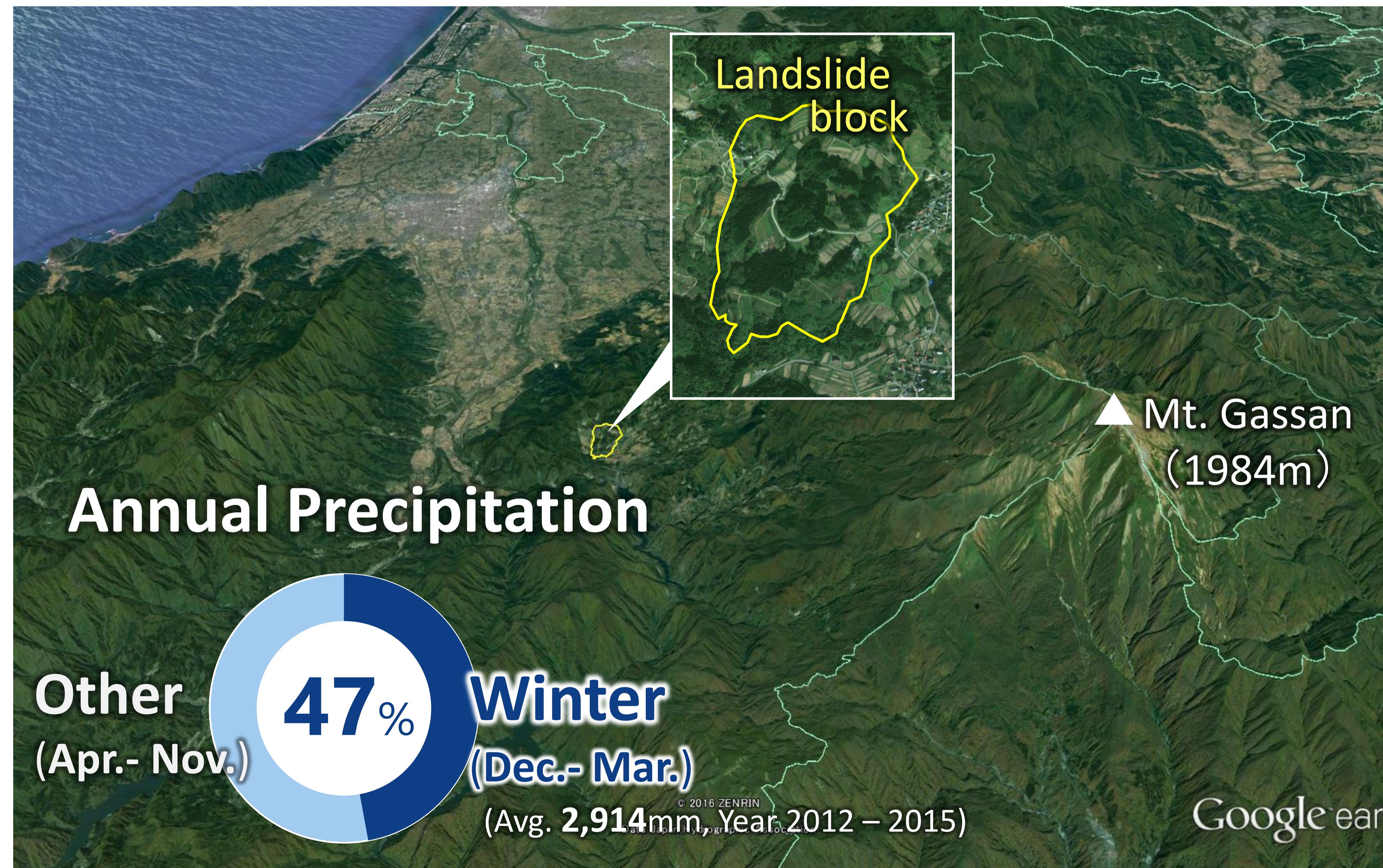
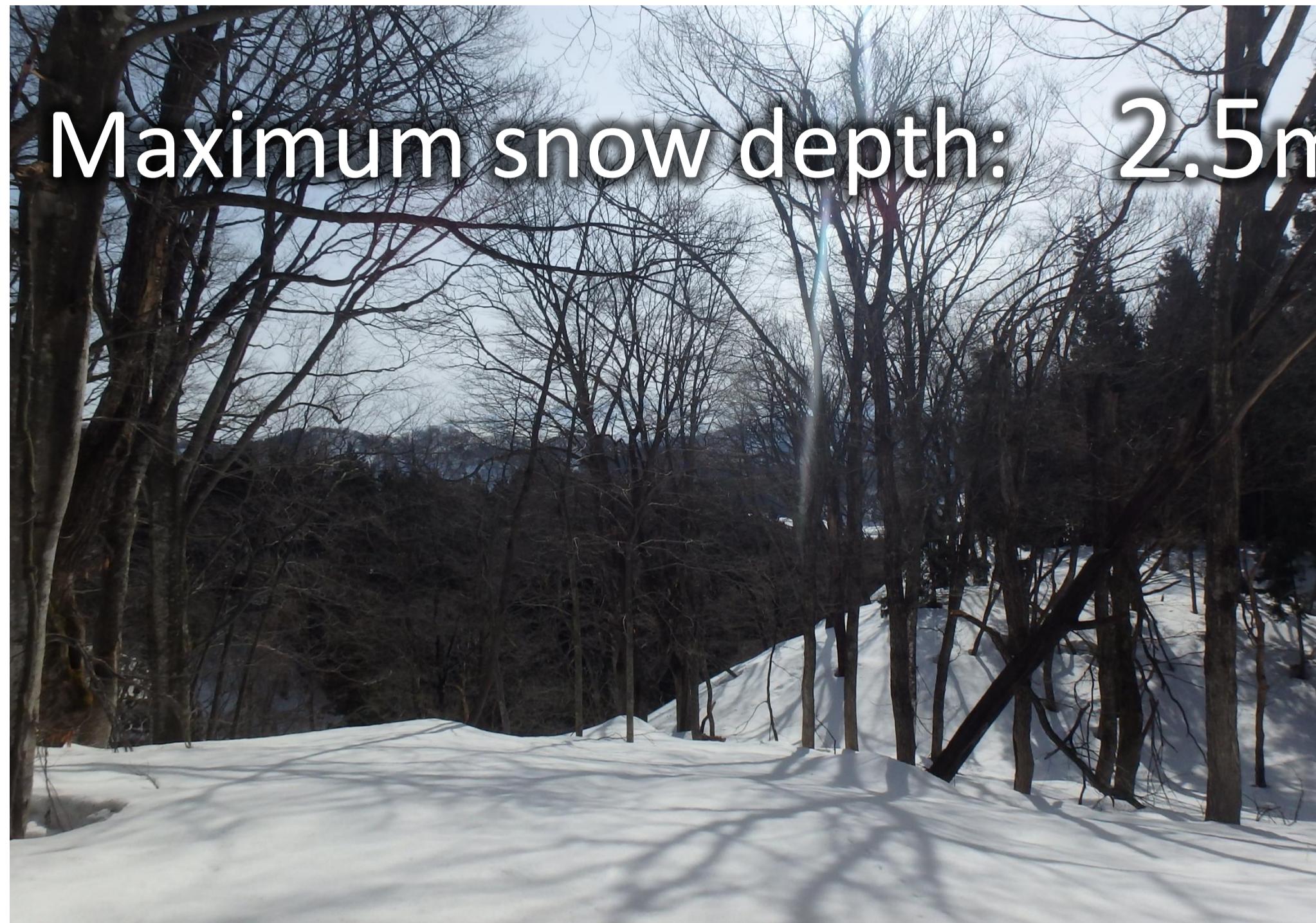


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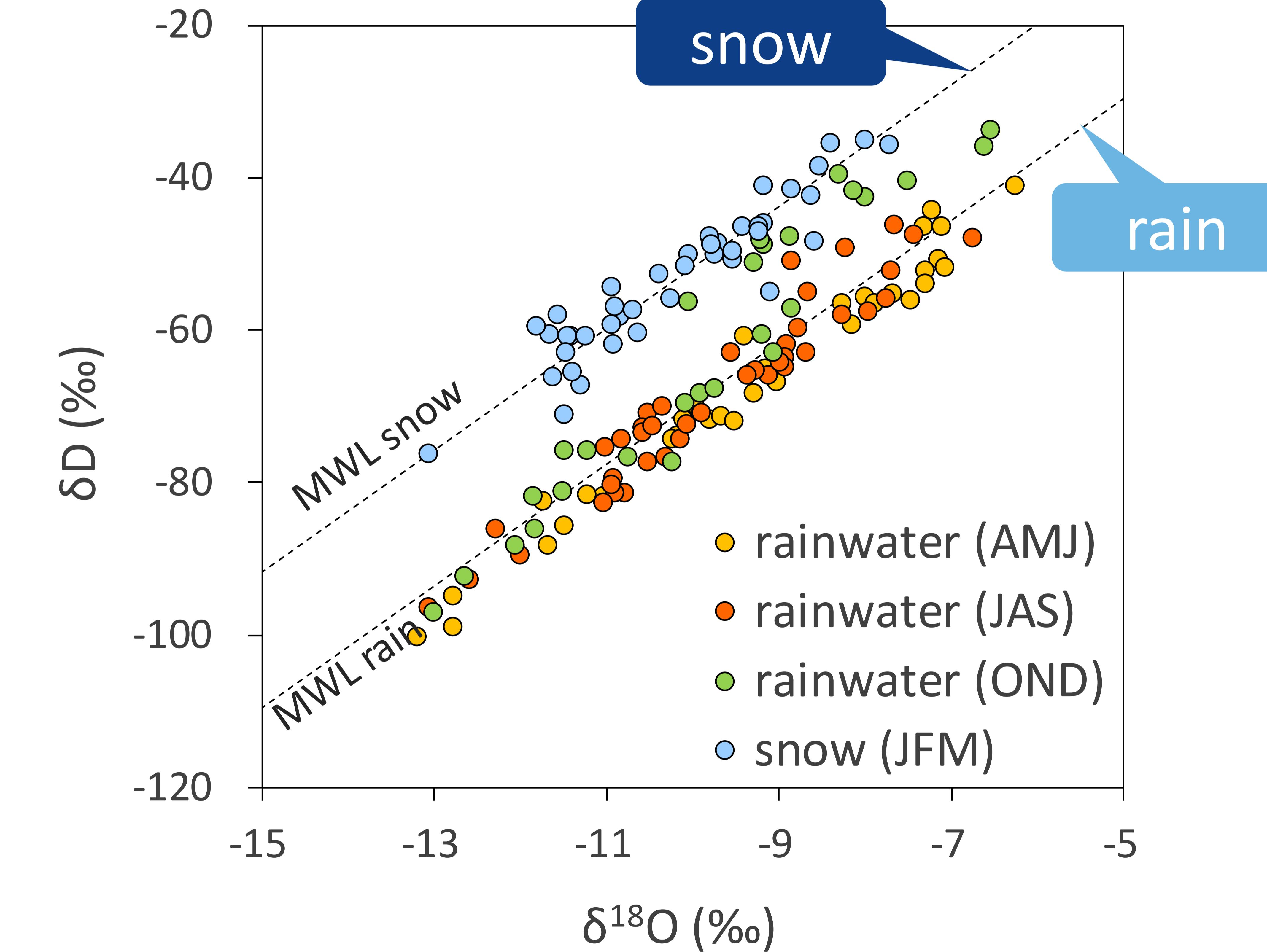
Stable isotope-based investigation of infiltration effect of snow melting water on the groundwater in the large landslide block, Japan

Takeo Tsuchihara*, Takehiko Okuyama**, Shuhei Yoshimoto***, Katsushi Shirahata*, Satoshi Ishida*

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Isotopic ratios of rainwater and snow



d-excess ($=\delta D - 8\delta^{18}\text{O}$)

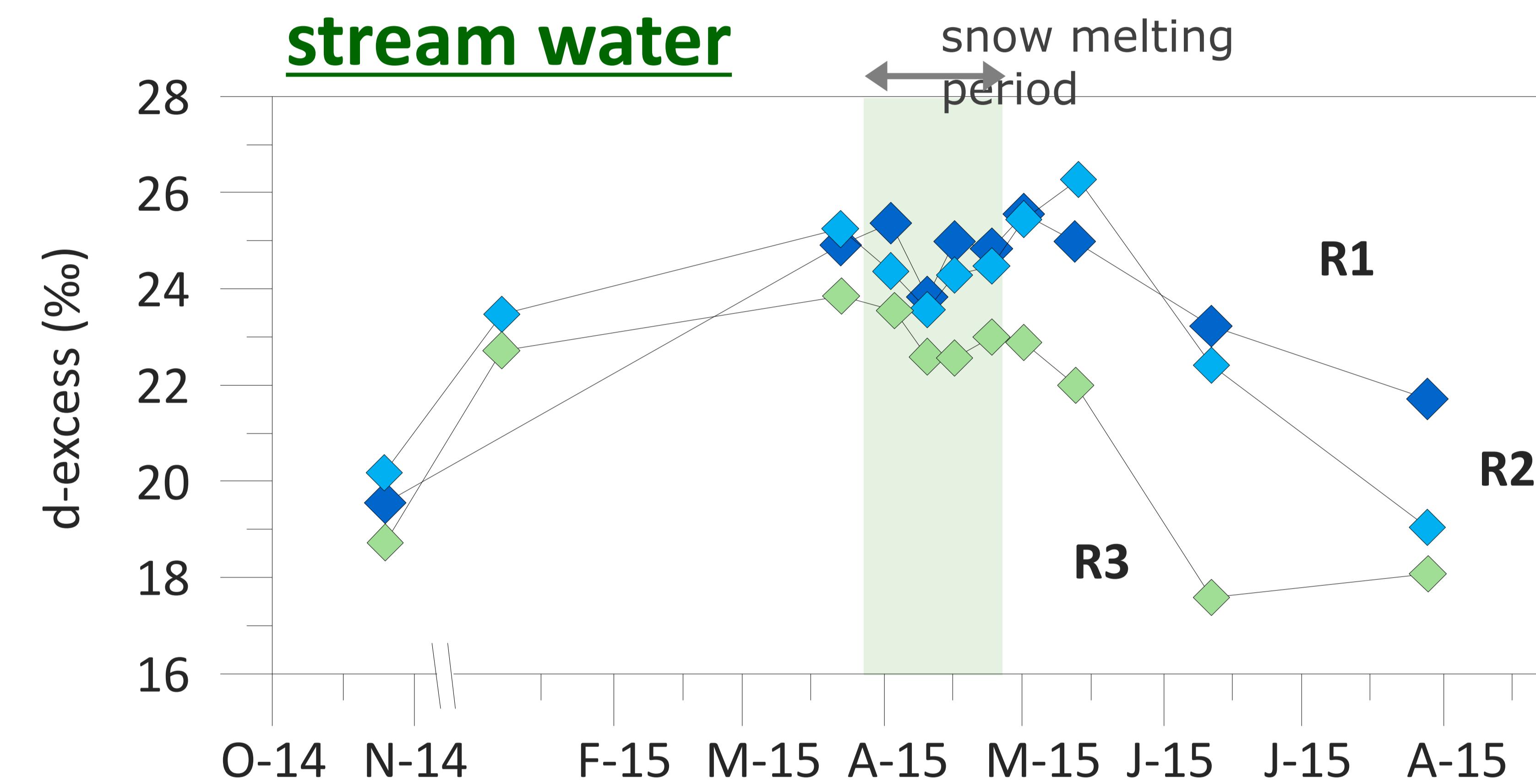
Rainwater: **10.42‰** Snow : **28.22‰**

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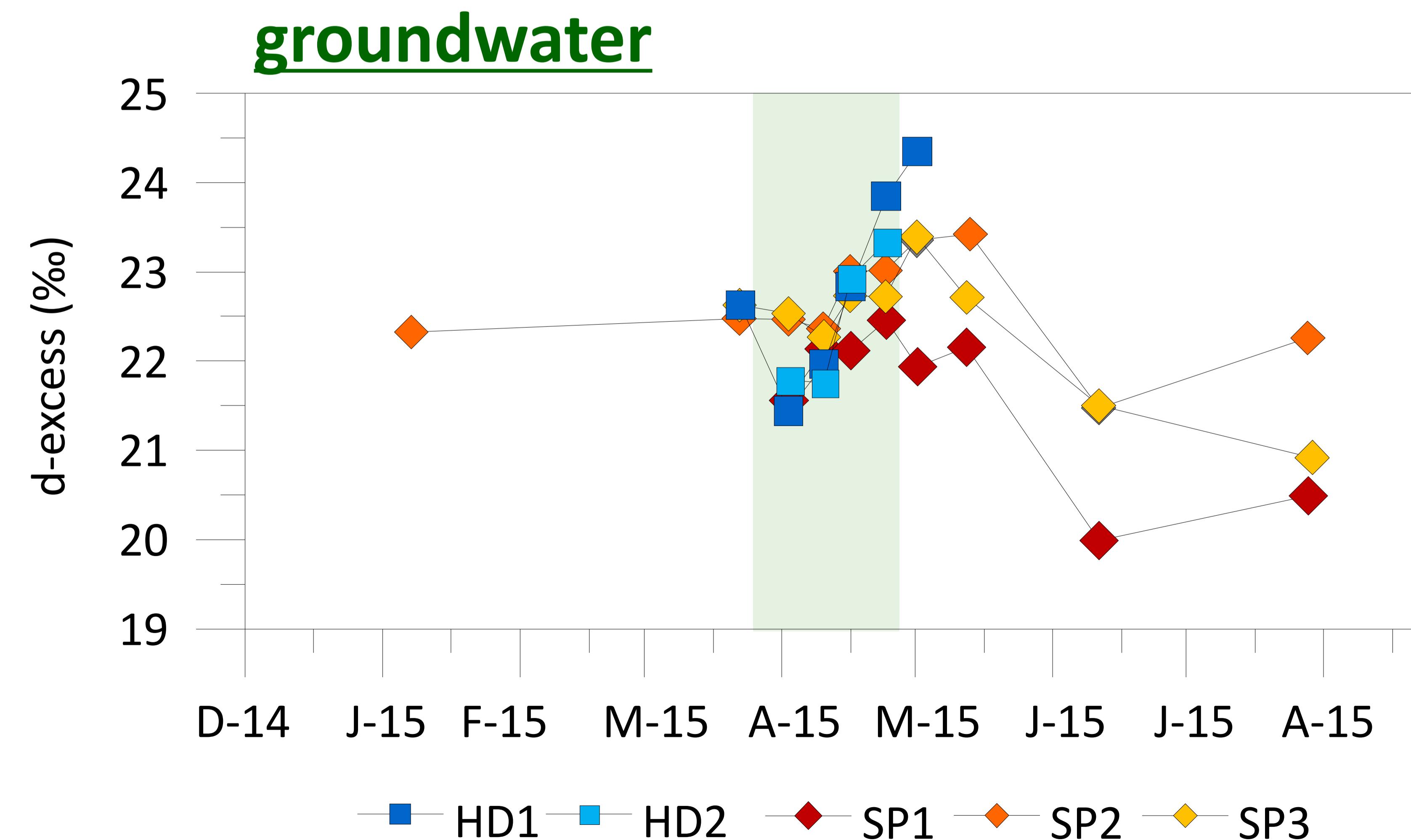
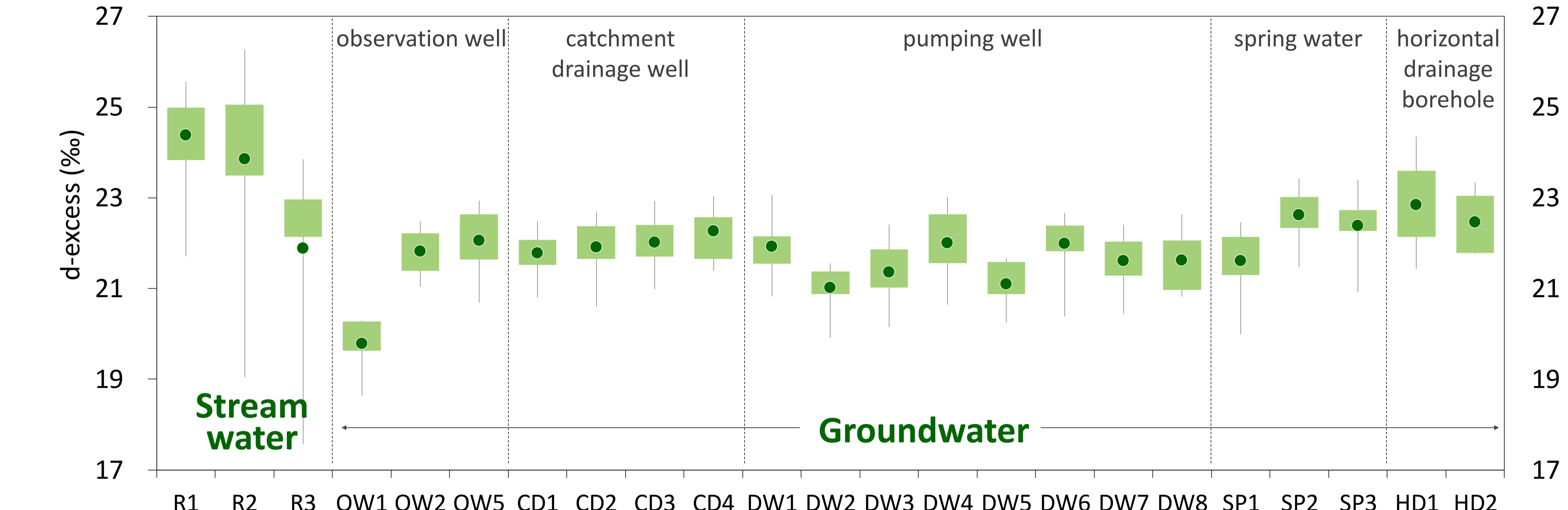
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Fluctuation of d-excess



Fluctuation range of d-excess



Range of d-excess (Max.–Min.)

Stream water: **5.8‰** Groundwater: **2.0‰ (0.8–2.9‰)**

d-excess can be used as an index to evaluate an infiltration of snow melting water in landslide areas of snowy regions

