

HS10.3:

Spatiotemporal patterns of soil water stable isotope composition in forested headwater catchment

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SAMPLING SITE

- Based on relatively high spatial and temporal resolution of soil water stable isotopes (SWSI) data:
- 1- What is the temporal dynamic of SWI over time/seasons at catchment scale?
- 2- What is the impact of sampling position on SWI?

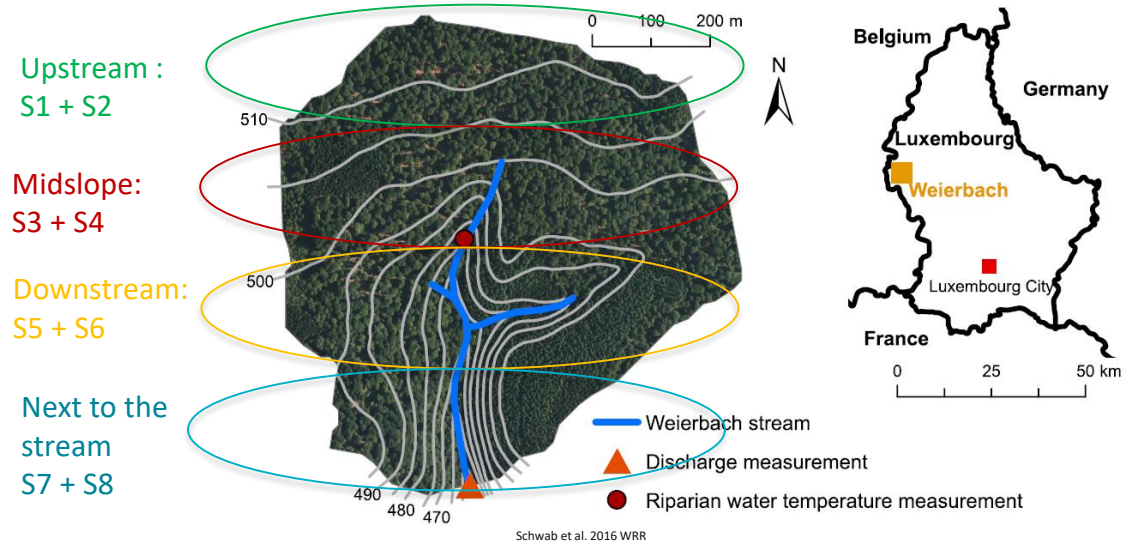


Fig. 1: Topographic map of the Weierbach catchment with the soil core sampling (S1 to S8)

S: stands for soil sample
SWI: soil water isotopes

PRELIMINARY RESULTS

Fig. 2: Biweekly soil water stable isotopes ($\delta^{18}\text{O}$) at different soil depths in the Weierbach catchment (available online <https://rpubs.com/adnanmoussa/egu> *)

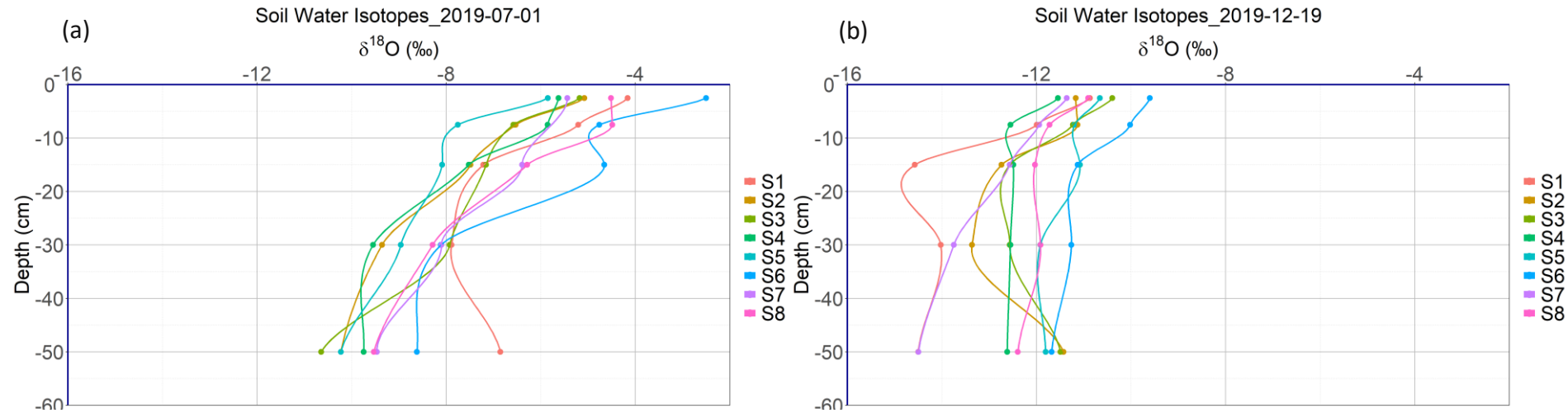


Fig. 3: Isotopic composition of soil pore water from two campaigns (a) summer 15 July & (b) winter 19 Dec)