

Supplementary Material to
**Temperature controls production but hydrology controls export of dissolved organic
carbon at the catchment scale**

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The supplemental materials contain two figures.

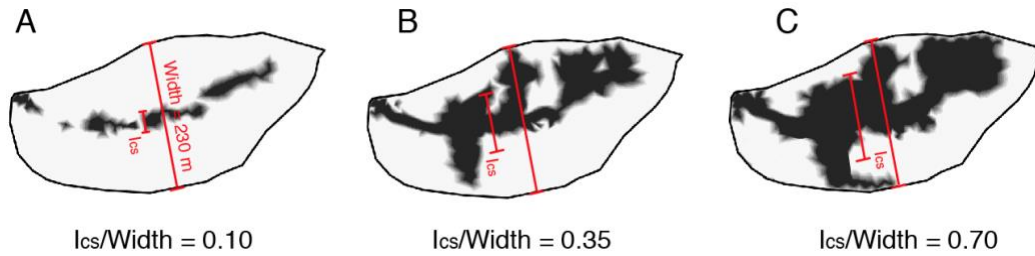


Figure. S1. Maps showing conditions with different hydrological connectivity l_{cs}/Width , including (A) 0.10, (B) 0.35, and (C) 0.70.

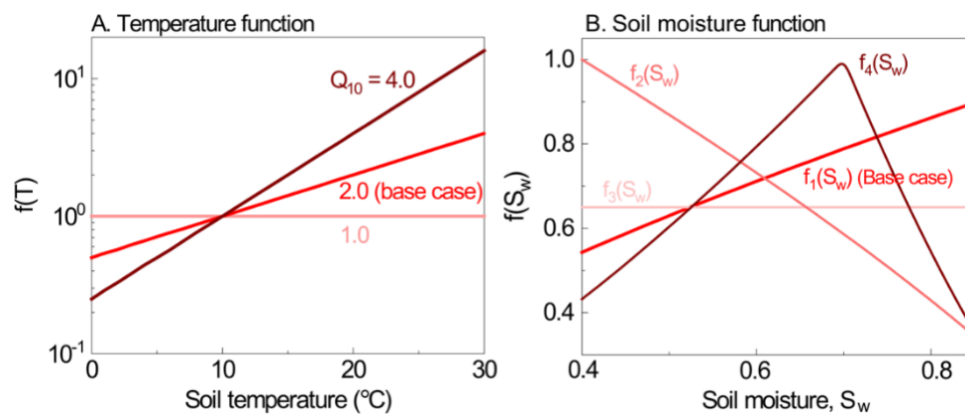


Figure. S2. Sensitivity analysis for (A) the temperature function and (B) the four soil moisture functions used to calculate local DOC production rate (Eq. (2)-(5)). The four soil moisture functions represent increase, decrease, constant behavior, and threshold behavior, respectively.