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Discussions

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Interactive comment on "Regional-scale lateral carbon transport and CO_2 evasion in temperate stream catchments" *by* Katrin Magin et al.

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Anonymous Referee #1 :

- Please check equation 1. The exponents and coefficients between width and depth are switched. In "Stream Hydraulics" in Raymond et al. (2012) this can be checked. I think the correct formulas would be w=12.88*Q^0.42 and d=0.4*Q^0.29. This corresponds to width=c*Q^d and depth=a*Q^b. The coefficients and exponents of your equation lead to depth»width, which seems not realistic.

Reply: Thank you for pointing this out. Indeed the numbers were swapped in the manuscript. All calculations were done with the correct equations. We will correct the coefficients in the revised manuscript.

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Discussion paper