

Interactive comment on “Transferring the concept of minimum energy expenditure from river networks to subsurface flow patterns” by S. Hergarten et al.

S. Hergarten et al.

stefan.hergarten@geologie.uni-freiburg.de

Received and published: 29 July 2014

Dear Axel,

I am really glad that you found our manuscript interesting and potentially important in the field of optimization principles in hydrology. During the last weeks I learned more on this field and already started to rewrite the second part of the introduction taking into account your suggestions. Admittedly I was even not aware of the very interesting papers on allometric scaling.

We will also add a short section on the limitations of our approach such as nonsteady

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



flow, the unsaturated zone, and on some karst-specific aspects that are not taken into account here. The ability of porous media to self-organize will also be addressed in the context that they probably only self-organize under increasing porosity.

The rest of your suggestions can be easily implemented. So I am quite sure that your comments will help us to improve the paper.

Many thanks,

Stefan

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 5831, 2014.

HESSD

11, C2792–C2793, 2014

Interactive
Comment

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper

C2793

