

Interactive comment on “Toward a conceptual framework of hyporheic exchange across spatial scales” by Chiara Magliozzi et al.

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This study addresses an essential aspect common to understanding many natural systems, namely the spatiotemporal variation and interaction of multiple controlling factors. Specifically, the paper presents a systematic and extensive review on hydrological, topographical, hydrogeological, ecological and anthropogenic factors controlling spatial and temporal variation in hyporheic exchange flows in rivers. The authors clearly demonstrate the importance of considering interactions between multiple drivers to understand and predict variations in the hyporheic exchange flows. I therefore think the study offers a useful and holistic framework for future studies on the hyporheic zone, which will especially guide data collection and predictive modelling.

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