

Hydrol. Earth Syst. Sci. Discuss., referee comment RC4  
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## Reply on AC4

Wei-quan Dong (Referee)

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Referee comment on "Transit Time index (TTi) as an adaptation of the humification index to illustrate transit time differences in karst hydrosystems: application to the karst springs of the Fontaine de Vaucluse system (southeastern France)" by Leïla Serène et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-100-RC4>, 2022

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This Section 3.4 3.4 (Way forward towards a transferable qualitative tracer and towards quantitative approach) answers my questions on seasonality, artificial tracers, land use, and radioisotopes. This new section shows that the authors not only looked into the questions but also address the questions other readers may have. The TTi is a new method that can be used to study the transit time for the residence time less than a year in karst aquifers. There are a few applicable methods for this short residence time, so the TTi has a good potential to fill this gap.