

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2
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Comment on hess-2022-56

Mr Miyuru Gunathilake (Referee)

Referee comment on "Improving hydrologic models for predictions and process understanding using neural ODEs" by Marvin Höge et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-56-RC2>, 2022

I found the this paper very interesting. The present approach is novel in terms of using Neural ODEs for streamflow modeling. My recommendation for this paper is a "minor revision". My comments are given in the attached pdf file. My future recommendation for the authors of this paper is to adopt the Neural ODEs in watershed experiencing different climatic conditions across the world.

Please also note the supplement to this comment:

<https://hess.copernicus.org/preprints/hess-2022-56/hess-2022-56-RC2-supplement.pdf>