

***Interactive comment on* “Simulating Lake Tanganyika’s hydrodynamics under a changing climate” by Kevin Sterckx et al.**

Anonymous Referee #2

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Review of the paper entitled "Simulating lake Tanganyika’s hydrodynamics under a changing climate" by

The authors have investigated how the temperatures in Lake Tanganyika will evolve in response to climate change. The evolution of lakes thermal structure under climate change has been largely investigated over the last decades with countless number of publications. Yet, African lakes remain poorly investigated. Lake Tanganyika is especially interesting given his very specific features. However, I do not think this paper reaches the scientific standard to be polished at this stage. There is no presentation of the model, no calibration and validation of the model (this is an issue regarding reproducibility). Figures are barely discussed. I counted for instance 3 lines of text for 4 figures. I encourage the authors to rework the manuscript in order to

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strengthen the message. Specific comments are provided in the annotated manuscript.

Please also note the supplement to this comment:

<https://esd.copernicus.org/preprints/esd-2020-36/esd-2020-36-RC2-supplement.pdf>

Interactive comment on Earth Syst. Dynam. Discuss., <https://doi.org/10.5194/esd-2020-36>, 2020.

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