

Interactive comment on "Historical modelling of changes in Lake Erken thermal conditions" *by* Simone Moras et al.

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The authors provide an interesting paper detailing an approach for the reconstruction of historical data on Lake Erken, Sweden. At present, the authors do not clearly explain how this manuscript advances scientific progress. Rather, in the current form I would argue that this paper represents a case study application.

It may be possible that major revisions to this manuscript would put it within scope of the journal. However, this would require the addressing of my rather significant concerns with regards to the validity of the model and results. If the authors addressed this main concern and clearly highlighted what novelty their work introduced then I feel that the manuscript would warrant further consideration.

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Please find attached my major and minor comments on this work. I hope that these comments will prove useful in revising the methodology and manuscript.

Please also note the supplement to this comment: https://www.hydrol-earth-syst-sci-discuss.net/hess-2019-199/hess-2019-199-RC3supplement.pdf

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2019-199, 2019.