

## **Comment on wcd-2022-45**

Tim Woollings (Editor)

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Editor comment on "European heatwaves in present and future climate simulations: a Lagrangian analysis" by Lisa Schielicke and Stephan Pfahl, Weather Clim. Dynam. Discuss., <https://doi.org/10.5194/wcd-2022-45-EC1>, 2022

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I would like to thank the two reviewers for their constructive comments, which I hope will be helpful for the authors. I note that both reviewers have suggested that the number of figures could be reduced, so this would be good to attempt in a revised version. I also agree with reviewer 2 that some measure of significance would be beneficial to improve our confidence in the projected changes.

I also have one additional comment. Although this is a widely-used model it would still be good to touch on the issue of model evaluation, since all of the results rely on the fidelity of this model. How similar are the detected events in this model to those in observations and/or reanalyses, and how does the model perform in evaluation / validation exercises in aspects relevant to European heatwaves? Hopefully this could be addressed using existing literature rather than new data analysis.