

Earth Syst. Dynam. Discuss., referee comment RC1  
<https://doi.org/10.5194/esd-2022-7-RC1>, 2022  
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## **Comment on esd-2022-7**

Anonymous Referee #1

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Referee comment on "An updated assessment of past and future warming over France based on a regional observational constraint" by Aurélien Ribes et al., Earth Syst. Dynam. Discuss., <https://doi.org/10.5194/esd-2022-7-RC1>, 2022

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Using the newly developed statistical method (Kriging for Climate Change; KCC) and observational records, this paper aims to constrain the uncertainty of IPCC model simulated past and projected future warming under various scenarios over mainland France. Authors found that anthropogenic influences dominates the warming in 2020, and projects a significant  $\sim 3.8^{\circ}\text{C}$  and  $\sim 6.7^{\circ}\text{C}$  warming in the end of 21 century under CMIP6 SSP245 and SSP585 scenario, respectively. This paper also compares CMIP6 with CMIP5 and regional EURO-CORDEX simulations, and a thorough discussion has been made. I'm glad to say that I haven't got much to do as a reviewer of this excellent manuscript. It is well-written, clear, thorough, and of great scientific interest. I recommend it for publication at current form.