

Earth Syst. Sci. Data Discuss., referee comment RC1
<https://doi.org/10.5194/essd-2022-465-RC1>, 2023
© Author(s) 2023. This work is distributed under
the Creative Commons Attribution 4.0 License.

Comment on **essd-2022-465**

Anonymous Referee #1

Referee comment on "The EUPPBench postprocessing benchmark dataset v1.0" by
Jonathan Demayer et al., Earth Syst. Sci. Data Discuss.,
<https://doi.org/10.5194/essd-2022-465-RC1>, 2023

This paper introduces a benchmark dataset that can be used to compare the performance of statistical postprocessing methods for several key weather variables. Such a dataset is very useful to the postprocessing community in which numerous methods have been (and continue to be) developed but are often difficult to rank because they have been tested in different setups. While particular setups often require tailored solutions, at least subgroups of postprocessing methods can be considered to have interchangeable areas of application, and a benchmark data set can thus be useful to identify methods that stand out as particularly powerful. Along with the introduction of the data set the authors use the example of 2 metre temperatures to demonstrate how such an intercomparison of methods could be performed. I welcome this initiative, and I only have one minor comment and a few suggestions regarding language.

Minor comment:

Section 4.8: Is there a reference for this ANET method? If a reference is provided, the description of the method is adequate. Otherwise, more explanation is required for details like the dynamic attention mechanism. Since methodology is not the focus of this paper, such information could be provided as supplemental material.

Typos and language:

60: complement -> complemented

113: as aforementioned -> as mentioned before

198: significant tests are run -> statistical tests are performed

216: validity -> valid

345: 'as' seems unnecessary here