

Hydrol. Earth Syst. Sci. Discuss., author comment AC1
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Reply on RC1

Abbas El Hachem et al.

Author comment on "Technical Note: Space–time statistical quality control of extreme precipitation observations" by Abbas El Hachem et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-177-AC1>, 2022

We thank the reviewer for taking the time to review our manuscript. Our reply to the reviewer's comments are as follows:

The authors give a good explanation of the statistical methodology, but there are some shortcomings in the applied section: - the ancillary data are introduced "as is" without acknowledging their quality

Ancillary data is referring to the radar and discharge data. Regarding the discharge data, our approach is to check whether a precipitation event has led to a reaction in runoff or not. Therefore, the accuracy of the runoff values is of minor importance. Hence, we take the discharge data of the provider(s) without performing any further plausibility checks. The case with the radar data is similar, we are aware that precipitation estimates from radars are prone to errors but the case here is similar to the one with the discharge data. We primarily use this data to check whether precipitation has occurred at a specific site or not.

there are several figures which are not cited but part of the contribution: here clearly textual explanation is missing I assume that the authors have a clear idea about the value of the figures, and they should share these ideas more explicitly with the readers

We will extend the manuscript and provide explanations for all the figures. Furthermore, we will implement the specific remarks and detailed corrections accordingly.