

Interactive comment on “Streamflow estimation at partially gaged sites using multiple dependence conditions via vine copulas” by Kuk-Hyun Ahn

Anonymous Referee #1

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Dear editor,

In this study several models were used to fill missing data in the field of hydrology. The present study is a very timely study and fits into the scope of the Journal. The paper is quite informative because it provides information on the to infill missing data. Although there are different interpolation methods and different models such as time series, black box models as well as hybrid models that may provide better results. Also, in the use of interpolation models, the accuracy of the simulations can be increased by using copula-based models. However, this manuscript is well prepared according to the intended methods. Considering the used models, the present manuscript is accepted to publish. Several suggestions have been made to improve the status of the manuscript. In the abstract, it is better to present the improvement percentage of

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the superior model compared to other models Choose keywords that do not match the title of the manuscript. The conclusion section should be more concise and the main results should be presented.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2020-541>, 2020.

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