

Interactive comment on “Providing a non-deterministic representation of spatial variability of precipitation in the Everest region” by Judith Eeckman et al.

Anonymous Referee #2

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The paper provides a non-deterministic representation of spatial variability of precipitation in the Everest region where is the mountainous area. Non deterministic annual water budgets are provided for two small catchments in mountainous area. It shows the uncertainties associated with the orographic effect for the main parameters of hydrology

The structure of the paper is good. However, I have few suggestions below to consider before proceed further.

Only one IDW is chosen for interpolation of precipitation. This method is or course simple and widely used for spatial interpolation of precipitation but this is deterministic-

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type method which could not capture the effect of orographic in mountainous area. The authors should make a better review on different spatial interpolation methods for precipitation. They should try to look for such method that is called non-deterministic i.e. geostatistical methods. . .that are able to uncover the orographic effect.

Table 1 should be deleted; it is not cited in the text. It shows an overview of the observation network but information provided is not important. The location is already shown in the Figure 1 but should add some more information to that figure

P4, L121: I don't understand “Local measurements are necessarily biased by aleatory errors”

P4, L124 replace aleatory by random

P4, L131-134: difficult to understand, please rearrange your sentence again

I think that English should be improved. some sentences are unusual and difficult to understand

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