

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

Yongmei Gong et al.

Author comment on "Synopsis of the uncertainties introduced by bias-adjusted climate forcings in regional glacier surface mass balance evolution studies - A case study using a CORDEX chain envelope in western Norway" by Yongmei Gong et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-500-AC1>, 2022

Dear editor and referee #1,

We thank referee #1 for his/her very constructive and helpful comments. We appreciate that the referee has understood our aim of assessing the predictive power of our snow evolution model using downscaled bias-corrected climate forcing over the instrumental period to get an overview of forcing-specific issues when it comes to future projections of glacier's surface mass balance (SMB) in **glacier change impact studies**.

Please find attached the response to the comments in detail.

Sincerely,

Yongmei Gong and Irina Rogozhina

Please also note the supplement to this comment:

<https://hess.copernicus.org/preprints/hess-2021-500/hess-2021-500-AC1-supplement.pdf>