

Hydrol. Earth Syst. Sci. Discuss., author comment AC2
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Reply on RC2

Yongmei Gong and Irina Rogozhina

Author comment on "High-resolution modeling of glacier mass balance and surface runoff in western Norway driven by bias-corrected climate forcing" by Yongmei Gong and Irina Rogozhina, Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-500-AC2>, 2022

Dear editor and referee #2,

We thank referee #2 for his/her constructive comments and suggestions of interesting directions in which this manuscript can and will develop to become a stronger scientific study. Whether or not these comments were meant to set a stage for manuscript modifications, we conclude that some issues raised by referee #2 deserve a thorough investigation to make a definitive case on the general applicability limits of downscaled, bias-corrected climate products, both during instrumental periods and future decades, for glacier surface mass balance (SMB) impact studies in Norway.

Please find attached response to the referee's 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-AC2-supplement.pdf>