

Interactive comment on “Gauging the ungauged basin: how many discharge measurements are needed?” by J. Seibert and K. Beven

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We thank the reviewer for this positive comment on our work. As stated by the reviewer we hope to motivate similar studies by others and to "provide an agenda for the research community to address". There are many questions to address as mentioned in the concluding remarks. These include questions like are more but less precise measurements more valuable than a few but highly accurate.

We agree that the combination of a regionalization approach with limited streamflow gaugings might be valuable and plan to test this in a future study. Clearly, a regionalized estimate of model parameters provides a prior that can then be conditioned as new data become available within the form of learning process that we are suggesting.

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Regarding the comment on the use of long-term mean evaporation we want to emphasize that in the HBV model these values are modified based on the temperature deviations from the long-term mean temperature. In other words, the potential evaporation is somewhat higher during warmer-than average periods and vice versa.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 6, 2275, 2009.

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