

Interactive comment on “Reply to the comment of Leclercq et al. on “100-year mass changes in the Swiss Alps linked to the Atlantic Multidecadal Oscillation”” by M. Huss et al.

Anonymous Referee #2

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This Reply is thorough and well-articulated. Huss et al. give the best sort of response to LeClercq et al. Rather than an a subjective, argumentative rebuttal, they take the time to calculate the reference surface mass balance for their set of 30 Swiss glaciers and provide a direct comparison between conventional and reference surface mass balance over the last 80 years. This directly addresses the concerns expressed in the Comment, and goes a step further by including elevation feedbacks in the calculation of reference surface mass balance. This proves to be significant. I have no qualms with the Reply, and recommend that it remain on TCD as is.

If the Comment and Reply proceed further to a manuscript in The Cryosphere, there

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are a few minor details that are confusing (e.g. Figure S3 is probably unnecessary, and the 'last DEM' surface in Figures S2 and S4 is a bit confusing, adding perhaps more information than necessary). As it stands though, the authors have put in considerable effort here and this Comment and Reply make for a useful discussion, good use of TCD space. This 'iterative improvement' to the original GRL paper has been productive.

Interactive comment on The Cryosphere Discuss., 4, 2587, 2010.

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