

Interactive comment on “On measuring snow ablation rates in alpine terrain with a mobile GPR device” by Nena Griessinger et al.

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This is a well designed study that provides valuable information concerning the error associated with GPR measurements of snow. I have also recently published a paper using GPR to measure ablation rates in the subalpine that may be of interest to you for this study (Webb, 2017; doi: 10.1007/s11707-017-0645-0)

I agree with the reviewer that showing a radargram would be beneficial, as well as further detailing your methods.

One addition that I think would greatly add to the article is estimating how total SWE or ablation values are improved along an entire transect through the use of GPR. Comparing the classic pit and depth probe measurements to GPR surveys for total SWE along each transect. This would add a lot of additional value to the paper. It looks like

you began doing this with comparing depth measurements, but further discussion and clarification would be helpful.

Good work!

Interactive comment on The Cryosphere Discuss., doi:10.5194/tc-2016-295, 2017.

TCD

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