

Atmos. Meas. Tech. Discuss., referee comment RC2
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Reply on AC1

Craig Smith (Referee)

Referee comment on "Effect of snow-covered ground albedo on the accuracy of air temperature measurements" by Chiara Musacchio et al., Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2021-63-RC2>, 2021

Thank you for addressing my comments.

I just wanted to follow up on the comment about including a non-shielded sensor in future experiments. I disagree that there is no value in including a non-shielded sensor. I think it would add useful information on how large radiation errors could be without the shield (as compared to the same sensor pairing inside the shields over snow and over bare ground). It would add some perspective, perhaps in a similar way to how we include unshielded precipitation gauges in intercomparisons to see how bad they really are as compared to gauges with incremental shielding. It's a baseline, so to speak. Anyways, it's something to consider if the experiment is repeated.

Craig