

The Cryosphere Discuss., editor comment EC1
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Comment on tc-2021-375

Benjamin Smith (Editor)

Editor comment on "Using ice core measurements from Taylor Glacier, Antarctica, to calibrate in situ cosmogenic ^{14}C production rates by muons" by Michael N. Dyonisius et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2021-375-EC1>, 2022

Dear Authors,

Please have a good look at the comments from Dr. Balco. I think his points about the strength of the evidence for the established muon capture cross section are important to consider. I am wondering if the paper could be restructured to investigate what could be learned about the ablation rate (or the other uncertain parameters in the ice model used to interpret the data) if the muon capture cross section is taken as a known value, rather than as a value to be determined in the study.

Best

Ben