

Interactive comment on “Impact of refreezing melt ponds on Arctic sea ice basal growth” by Daniela Flocco et al.

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Dear Authors, thank you for your careful replies to the reviewer’s comments. Your efforts are very much appreciated. Unfortunately at this point I find the arguments quite convolved, and am not sure that the reviewers can be easily convinced to change their views. I will therefore respect the reviewer’s unanimous initial evaluation and unfortunately reject publication of your manuscript at this point. However, I hope that the reviews and your already extensive considerations and replies will help to thoroughly rewrite the manuscript and to either re-submit it to TCD or another journal. I agree that the refreezing of melt ponds above and below the ice and its effects on the sea ice mass balance are interesting topics, regardless of their overall relevance for climate models. In some regard those processes are also comparable to the formation and refreezing of slush where flooding has occurred. There is some past work by Maksym

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et al. which could be helpful to revise some aspects of your work. Thank you again for your submission and considerations. Best regards Christian Haas

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