

Interactive comment on “Near surface meltwater storage in low-density bare ice of the Greenland ice sheet ablation zone” by Matthew G. Cooper et al.

Matthew G. Cooper et al.

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Dear reviewer, Thank you for the thorough and supportive comments. The suggestion to contextualize the study in terms of the seasonal cycle was particularly fruitful (and was shared by all reviewers). To address this, we have reported the seasonal and annual ablation recorded by a nearby automatic weather station, and added a comparison with regional meteorology reported in a recent publication that is highly relevant to our study (Tedstone et al., 2017). These data reveal that summer 2016 was characterized by conditions particularly favorable to weathering crust development, and therefore should help contextualize our findings. I provide a line by line reply to

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each comment in the attached document, and include revised figures at the end of the document. A revised manuscript will be uploaded shortly. Thank you kindly, Matthew Cooper

Please also note the supplement to this comment:

<https://www.the-cryosphere-discuss.net/tc-2017-107/tc-2017-107-AC2-supplement.pdf>

Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2017-107>, 2017.

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