

Interactive comment on “Quantifying spatiotemporal variability of ice algal blooms and the impact on surface albedo in southwest Greenland” by Shujie Wang et al.

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Dear Authors,

Thank you for this valuable contribution. I'd like to give a comment about the algae playing a role in albedo change: I think the term "ice algae" is incorrect, because this refers to Diatoms living on the bottom of icebergs in sea water environment. However, the algae living on melting freshwater ice-surfaces should be called "glacial algae": The main prominent members belong to the genera *Ancylonema*, *Mesotaenium* or *Cylindrocystis*, and they are not related to diatoms at all.

Line 34, I'd change "and" to "or", because this list of geographical regions where snow and glacial algae occur (according to Anesio et al. 2017) is not complete. For example, the Andes in South America provide a lot of suitable habitats but are missing.

All the best!

Interactive comment on The Cryosphere Discuss., <https://doi.org/10.5194/tc-2019-226>, 2019.

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