

The Cryosphere Discuss., community comment CC6
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Reply on CC5

Sapna Sharma

Community comment on "Global evaluation of process-based models with in situ observations to detect long-term change in lake ice" by Mohammad Arshad Imrit et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2022-31-CC6>, 2022

Dear Paul,

Thank you for your feedback. Unfortunately, I couldn't see the figures, but we actually already have acquired and use the Minnesota ice phenology data.

For this study, we used 61,690 records of in situ observations for 2,658 lakes spanning from 1874 to 2020. I'm not quite sure why the ms reads like we only used 4 lakes - we used 4 lake models with gridded modelled data worldwide, but those are modelled estimates and projections, which were compared to observations from 2,658 lakes. Perhaps in our next revision, we can include a map of all of our lake observations and highlight the difference between 4 lake models and 2,658 lakes with in situ observations?

Thanks!

Sapna