Response to the various comments:

18 Aug 2025
Uploaded files validated
by Polina Shvedko
Notification to the authors:
The sections “Author contributions” (with the authors` initials) and "Competing interests" must be included in *.pdf manuscript with the next revision. Please see more: https://www.the-cryosphere.net/submission.html#manuscriptcomposition

The sections “Author contributions” and “Competing interests” have been present in the manuscript from the first submission, since we used the official EGU LateX template.

In the current pdf, they are at the top of page 22.

06 Oct 2025
Editor decision: Publish subject to technical corrections
by Nils Hutter
Public justification (visible to the public if the article is accepted and published):
Dear Céline Heuzé,

Thank you for addressing all reviewers' comments and questions in your answers and revised manuscript. Both reviewers appreciate your explanations and modifications and recommend the manuscript for publication. Reviewer #1 noted minor inconsistencies in spelling and notation, as well as raising two other questions. I choose "publish subject to technical corrections" to give you the chance to check these inconsistencies and comment on the questions in your text if suitable before the manuscript proceeds to typesetting.

The one-page pdf submitted by Reviewer 1 contained a comment in parentheses about “potential minor technical issues such as notations, etc., in the course of typesetting” but did not provide any specific example. We leave these to the copy-editors.

We added a reference to Markus and Burns (1995) to the end of section 3.1 (page 10) to address their first “bonus question”.

Their second question asks us to widely speculate and most likely get the future developments wrong, so we prefer to abstain.