

Reviewer's Comments on the MS: "Strain response and energy dissipation of floating saline ice under cyclic compressive stress"

The manuscript was well revised according to the reviewers' comments. The new version of the manuscript clearly provides new methods along with the obtained results and does not confuse the reader whether temperature or other "immersed" conditions play a more important role in the ice behavior under cycling. The new Conclusion is divided into two parts and differentiate well between the novel test setup and main results that were obtained.

The results on cyclic loading of floating ice specimens obtained through the novel well-designed experimental methods & setup must be important for the further development of research on the mechanical properties of ice. The underlying physical processes are described and give a good agreement with numerical simulations.

Therefore, I recommend publication of this manuscript in "The Cryosphere".