In-situ measurements of sediment temperature under shallow water bodies in Arctic environments

F. Miesner, W. Cable, P. Overduin and J. Boike
EGU, 25. May 2022
Measuring Temperature Profiles

- 30 sensors with 5cm spacing
- 0.01K accuracy
- equilibration within this margin in 7min
- lightweight extensions
Deployment is fun!

from the ice  standing in the water  from a boat
Data Example from NW Canada
Data Example from NW Canada
Data Example from NW Canada

Hit permafrost in the shallow part
What can the data tell us about water temperatures and the permafrost table?
Thank you for your attention!