Reply on RC1
Youhong Sun et al.

Author comment on "Brief communication: New sonde to unravel the mystery of polar subglacial lakes" by Youhong Sun et al., The Cryosphere Discuss., https://doi.org/10.5194/tc-2022-100-AC1, 2022

This is an excellent paper which illustrates development and testing of a melt probe that can be recovered.

Thank you for the kind words. Just a quick note to remind of the requirements of TC brief communication type papers (https://www.the-cryosphere.net/about/manuscript_types.html): 2–4 journal pages, 3 figures and/or tables, a maximum of 20 references, and an abstract length not exceeding 100 words. Our submitted paper already slightly exceeds the limits.

If the space allows, it might be good to provide more technical details such as structure of the cable (eg number of wires, redundant wires?, shield),


what voltage was used to sent power down to the probe (some kind of an electrical block diagram would be useful),


how the tensioning mechanism worked,

which parts of the probe were flooded, which were dry,

We will add in the revised version of the paper: “Motors and electronics were integrated in the pressure chamber while all other parts of the sonde were flooded”.

was the water sample analyzed in a lab to reveal something interesting?

Because of covid situation in Shanghai, recovered samples are still in the port. Thus, analyzing of the sampled water did not start yet.