Kevin Michael Nikolaus [kevin.nikolaus@nbi.ku.dk](mailto:kevin.nikolaus@nbi.ku.dk)

Borehole logging and in-situ observatories

Poster

The design and specifications of a Versitle “mini Logger”

|  |  |
| --- | --- |
| Kevin Nicholaus1, Grant Boeckmann1, Steffen Bo Hansen1, Dorthe Dahl-Jensen1 | 1 Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark |

An ice borehole logger has been designed at the Niels Bohr Institute, focusing on versatility and simplicity. There is a need for a logger that can record basic borehole parameters – temperature, pressure, and orientation – but with very minimized surface infrastructure. Presented is our solution. The design uses a robust, commercially available deep-sea sensor coupled to a specialized data storage and power supply vessel. The logger is mechanically centralized in the borehole and can fastened to the end of any type of physical cable for deployment; there is no electrical communication through the line.