

Research Station North

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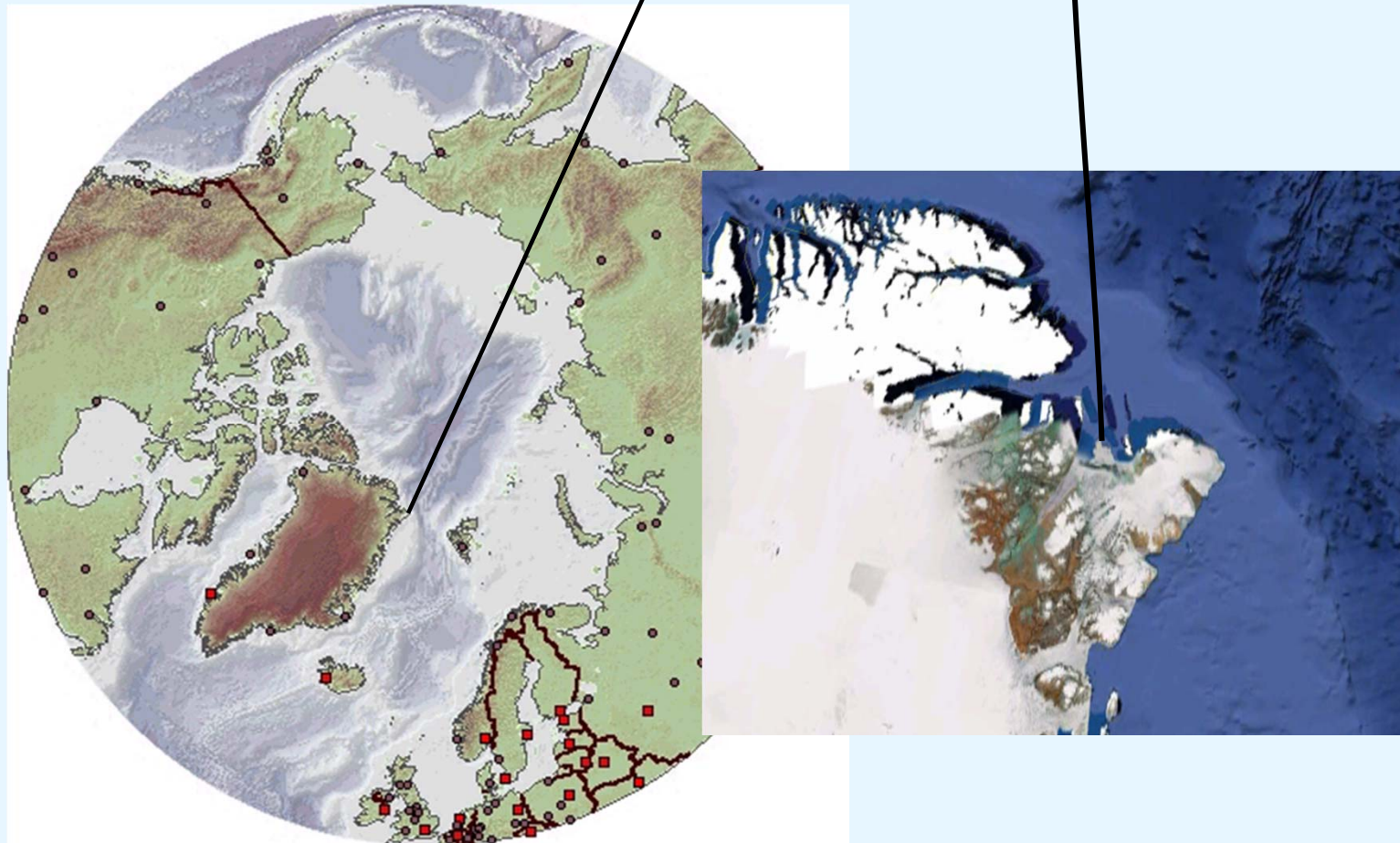
**Aarhus University
Denmark**

**Forum of Arctic Research Operators,
Arctic Science Summit Week 2013, Krakow, Poland**

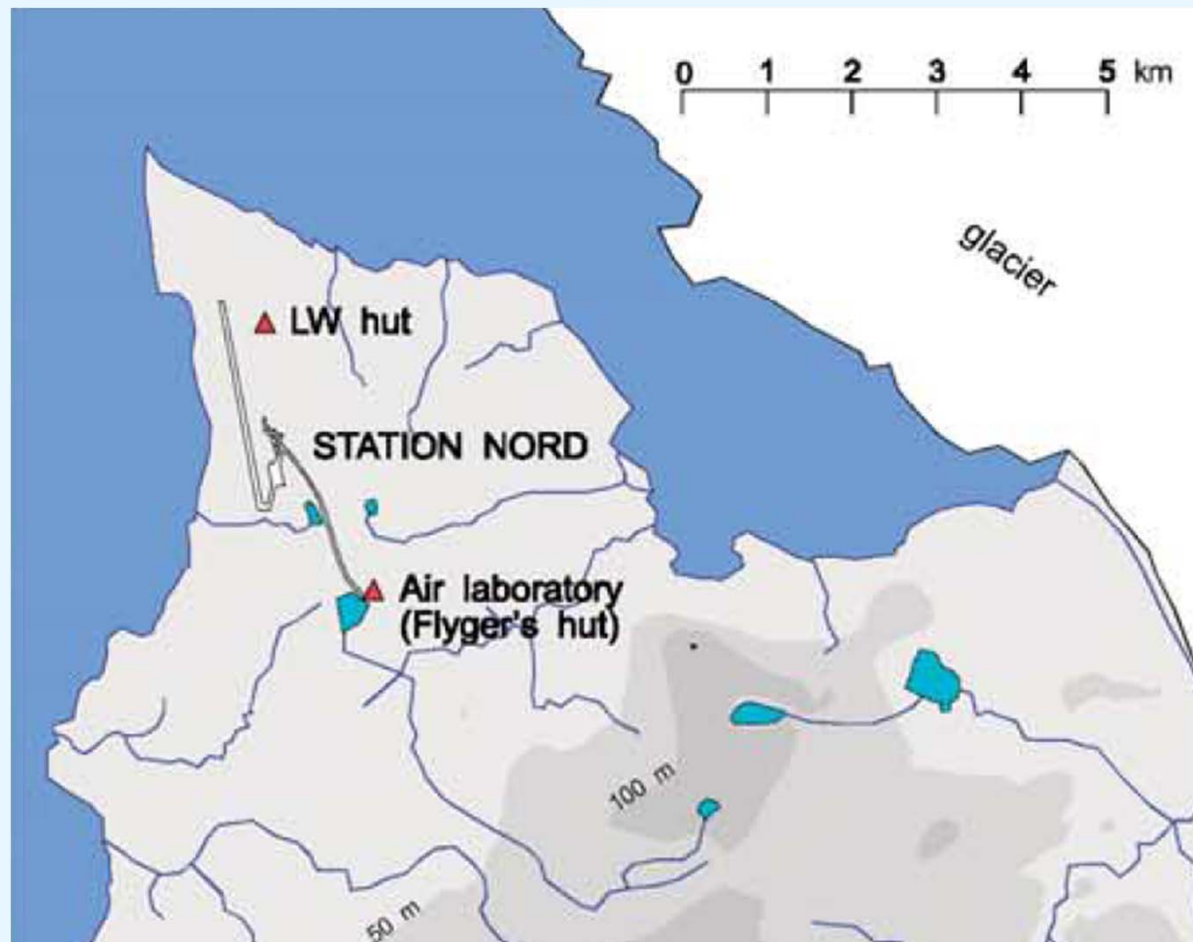
Grant from Villum Foundation

10,000,000 EURO

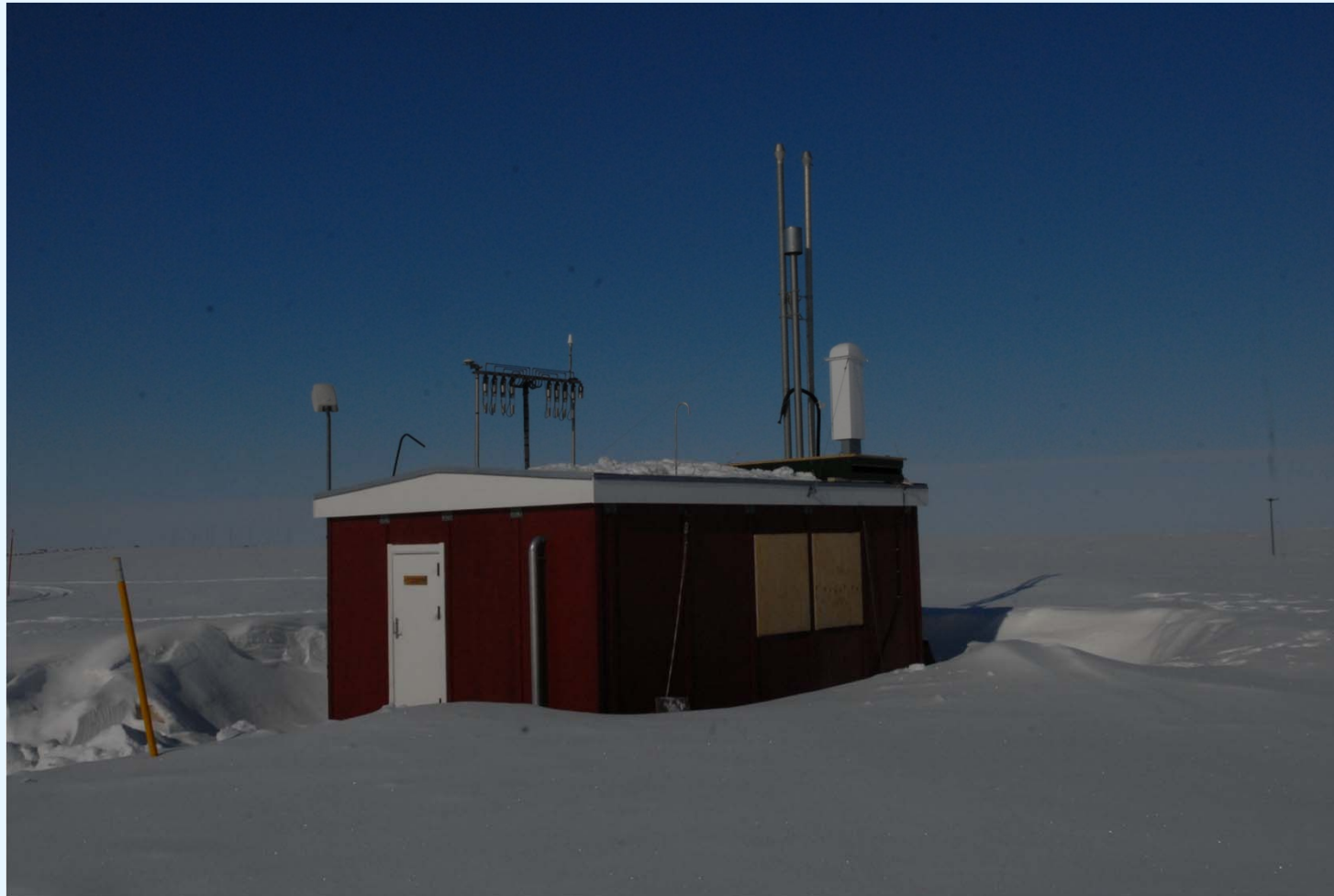
Station Nord, Greenland $81^{\circ} 36' N$ $16^{\circ} 39' W$



Prinsesse Ingeborgs Halvø



Present facility



The new station will be open year round

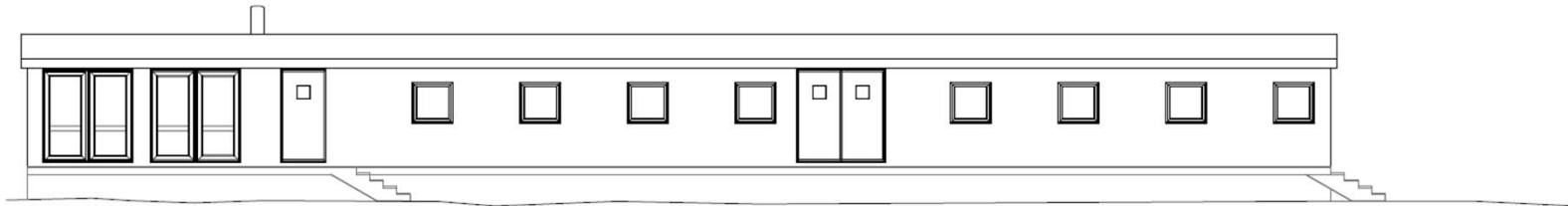
- > **Base Station**
- > **Mobile Station**
- > **Air Station**

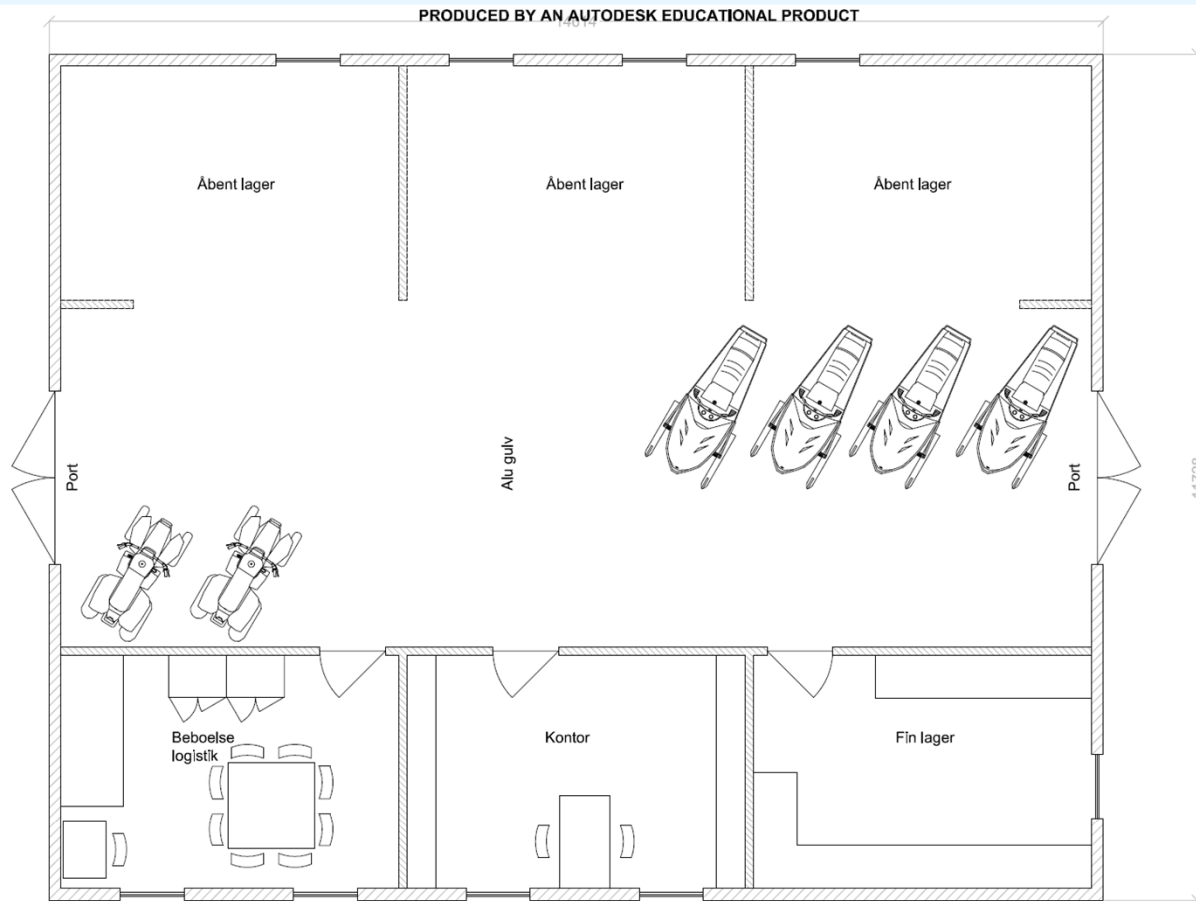
Vision

- › **The infrastructure is envisioned as a novel platform to bring together researchers across scientific disciplines to set new standards for arctic research. Internationally recognized experts will be gathered with the goal of significantly improving our understanding of how climate changes in the Arctic may induce changes in the cryosphere, the oceanosphere, the geosphere and the atmosphere and thereby influence ecosystems and biogeochemical processes**

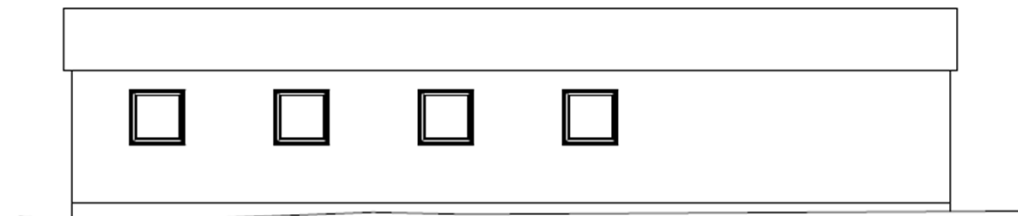
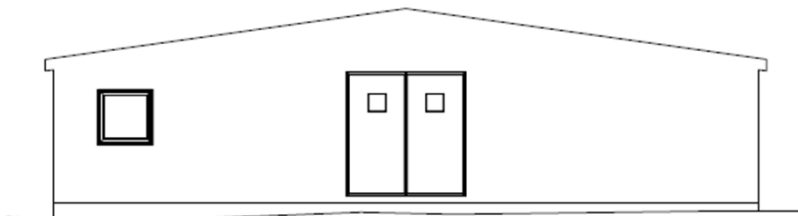
Base Station

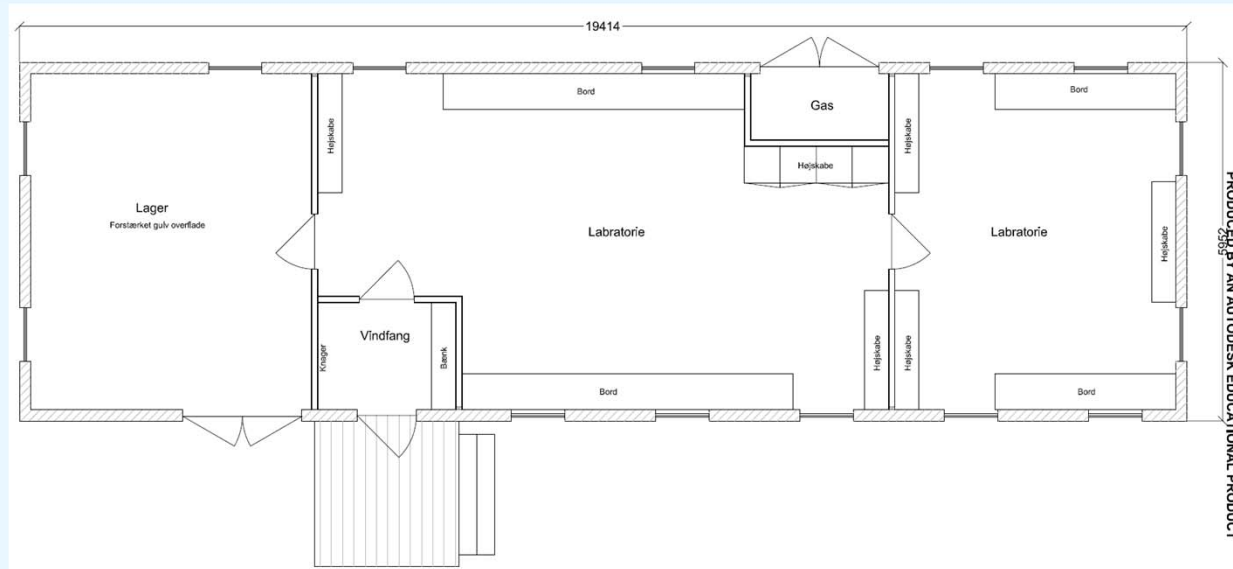
- › **The aim of the base station is to provide state-of-the-art laboratory and accommodation for inter-disciplinary research at Station North**



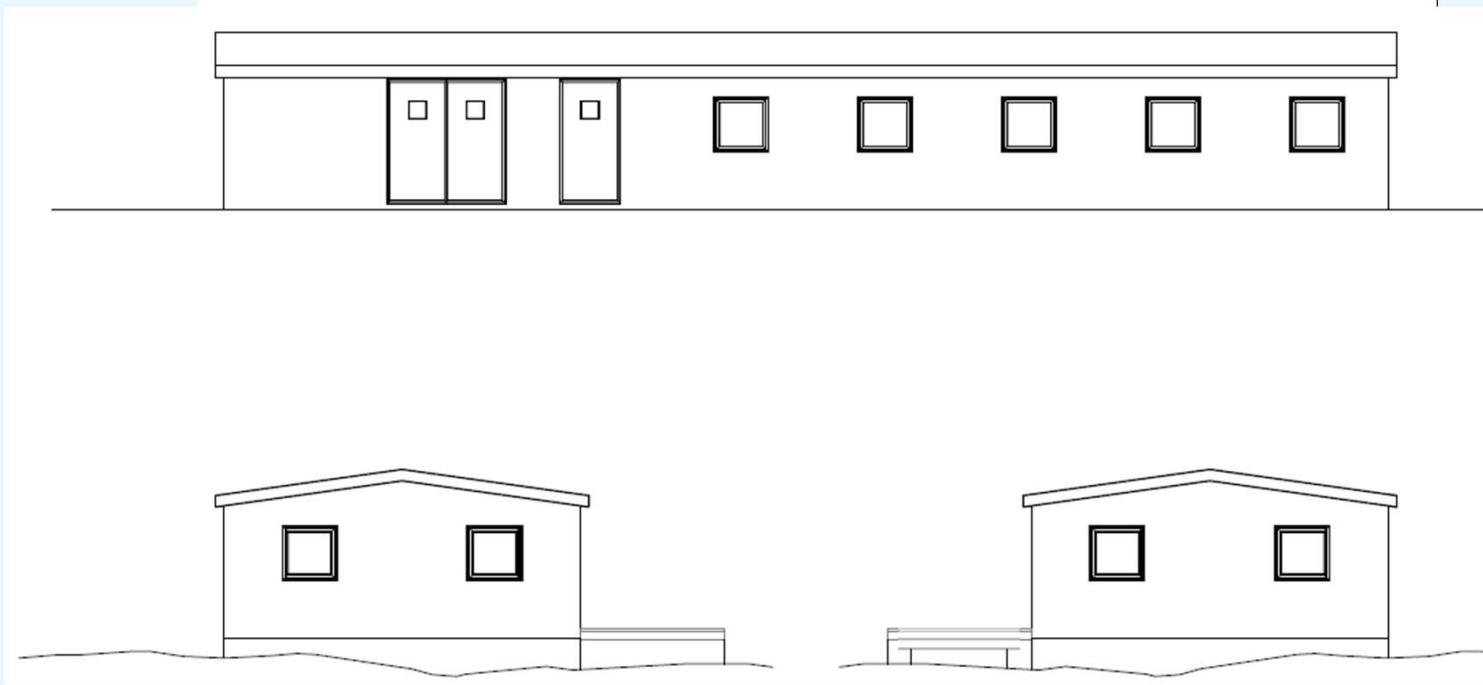


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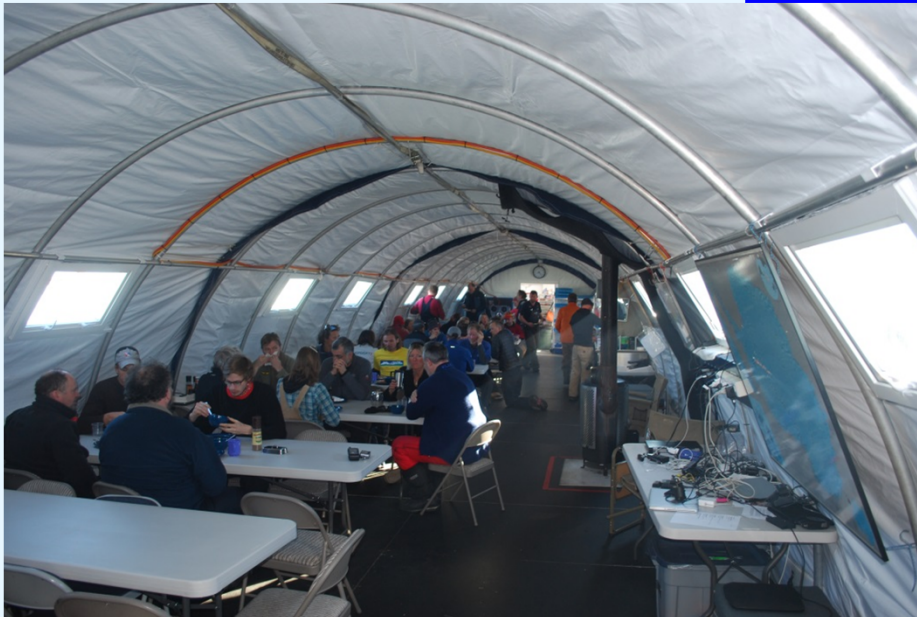
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Mobile Station

- › **The aim of the mobile station is to provide a field camp for atmospheric, terrestrial, sea-ice and marine research in North Greenland, Northeast Greenland and the Polar Sea**

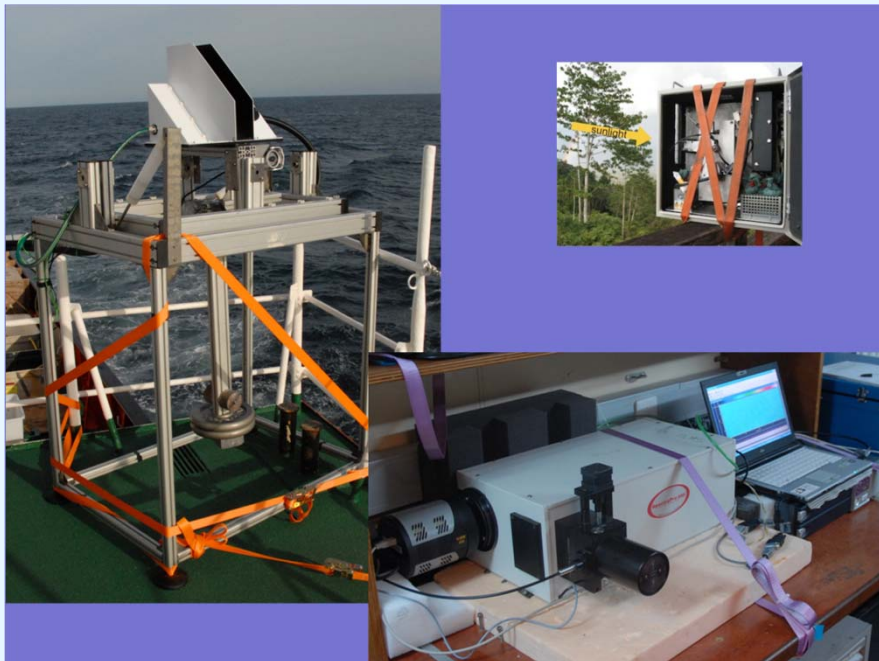
Mobile station



Air Station

- › **The aim of the air station is to provide a platform for the study of vertical profiles of the atmosphere to an altitude of a few kilometers, and to allow for aerial observations of snow, sea-ice and land surfaces by remote sensing**

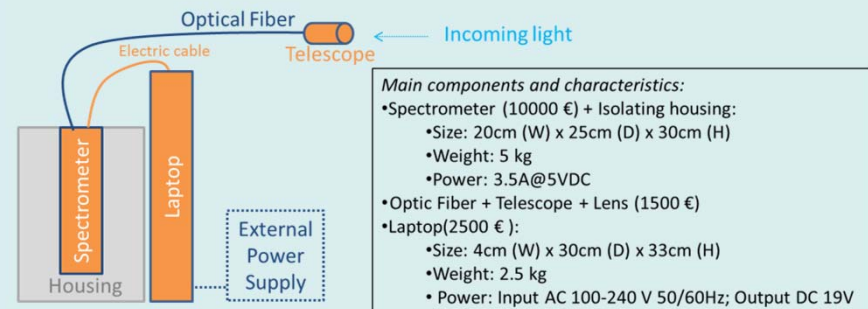
Air Station



Mini-DOAS on UAVs

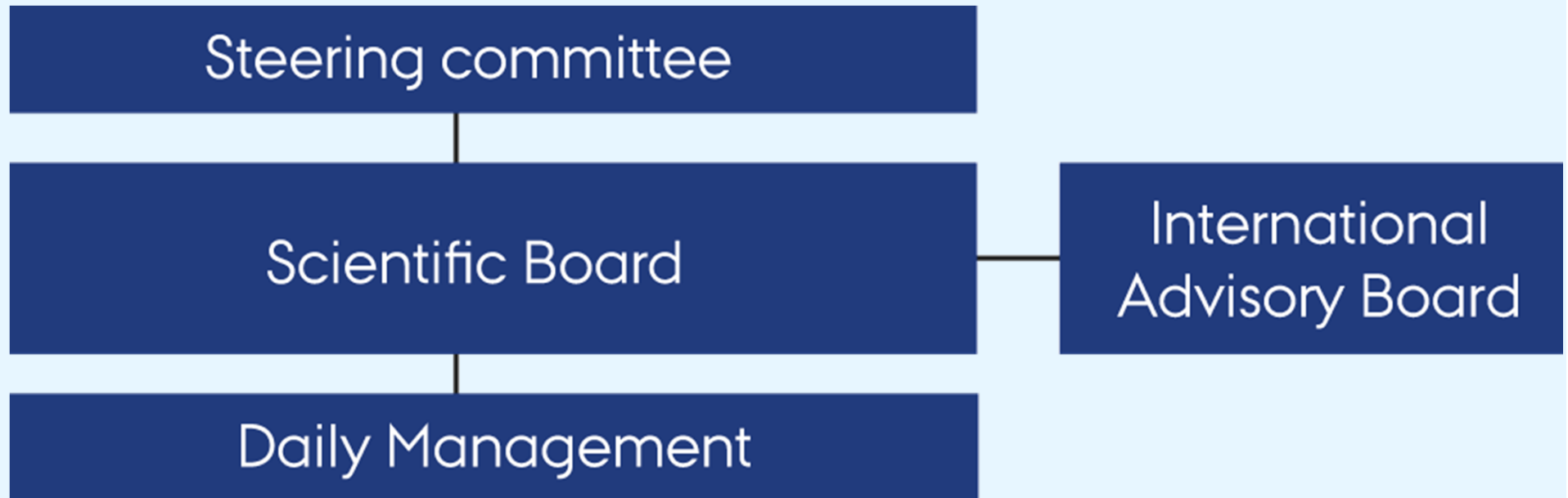


Sketch mini-DOAS unit (non-built):



All three platforms will be equipped with state-of-the-art equipment

Administrative structure



Time schedule

2013:

Foundations for houses at Station North
Purchase and tests of mobile camp
Tender concerning future air transport to Station North

2014:

Construction of houses at Station North
Mobile camp in Peary Land

2015:

Run of research station at Station North
Purchase of aircrafts for mobile camp
Mobile camp in the Polar Sea

See you at Station Nord

Or Villum Arctic Research Ctation

