

A Field Station for Western Svalbard

Arne Ardeberg, The IK Foundation, The LMK Foundation and Lund university

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Following in the footsteps of Anton Rolandsson Martin

Linnaeus student and apostel

Investigation of Midtøya 1758

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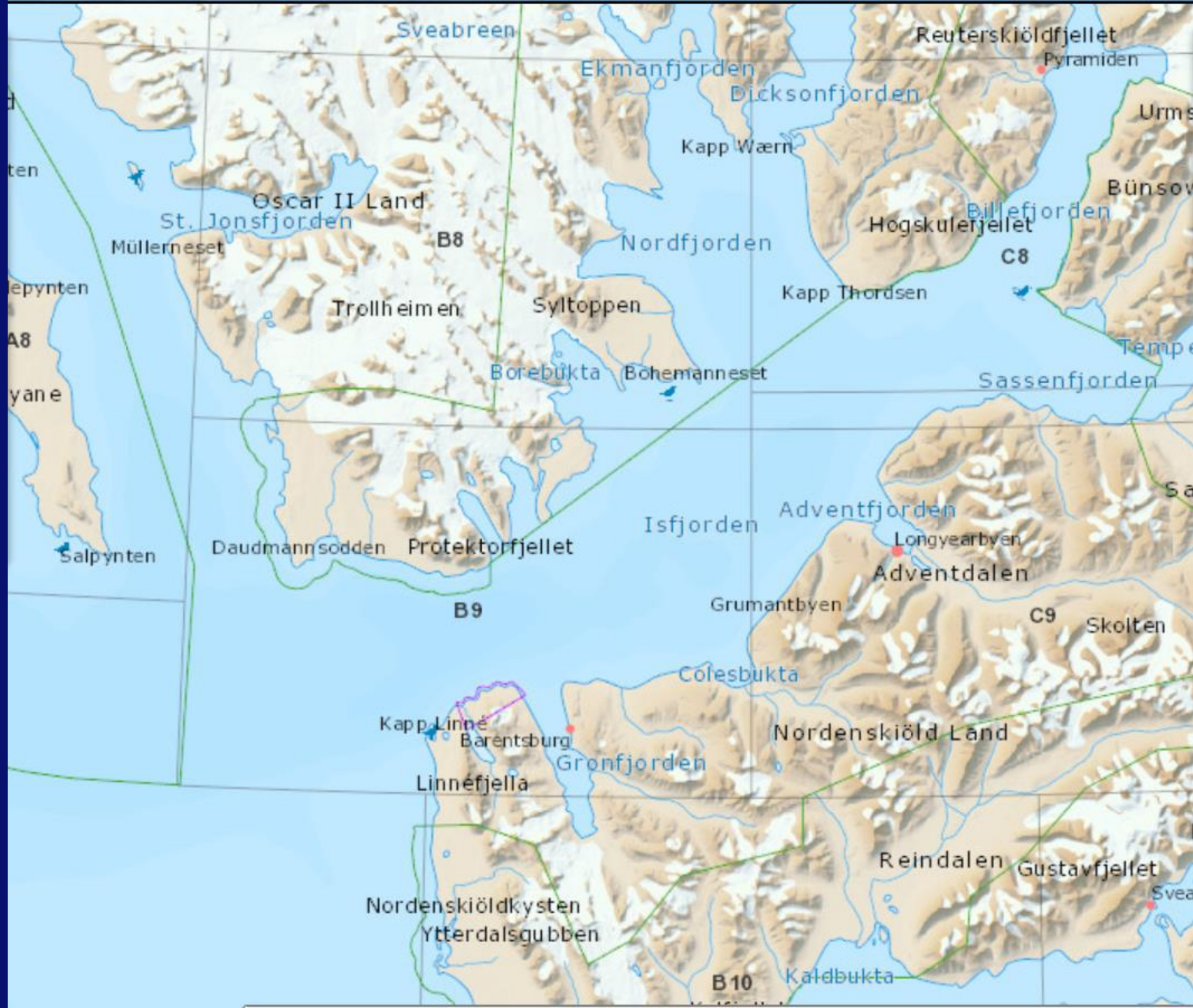
Why ?

Trying to preserve a threatened habitat

Where ?

West coast of Prins Karls Forland, opposite Midtøyane







Arctic
Ocean

Prins Karls Forland

Forlandsøyane

● Research Area A (300 meters radius) & Field Station Location

○ Research Area B (3 km radius)

○ Research Area C (30 km radius)

Latitude

+ 71 °



Selected plateau for Field Station (seen from Midtøyane)

Distance from photo point ~ 2 km Elevation ~ 7 m

Why Here ?

**According to Norwegian Polar Institute, a place
uncommonly rich in mammals* and birds****

***many and well-fed polar bears
as well as seals**

****around 200 bird species**

Expeditions in 2016 and 2017

**Studies from larger vessels and zodiacs,
coastal and inland on-foot expeditions**

Recordings Made and Foreseen

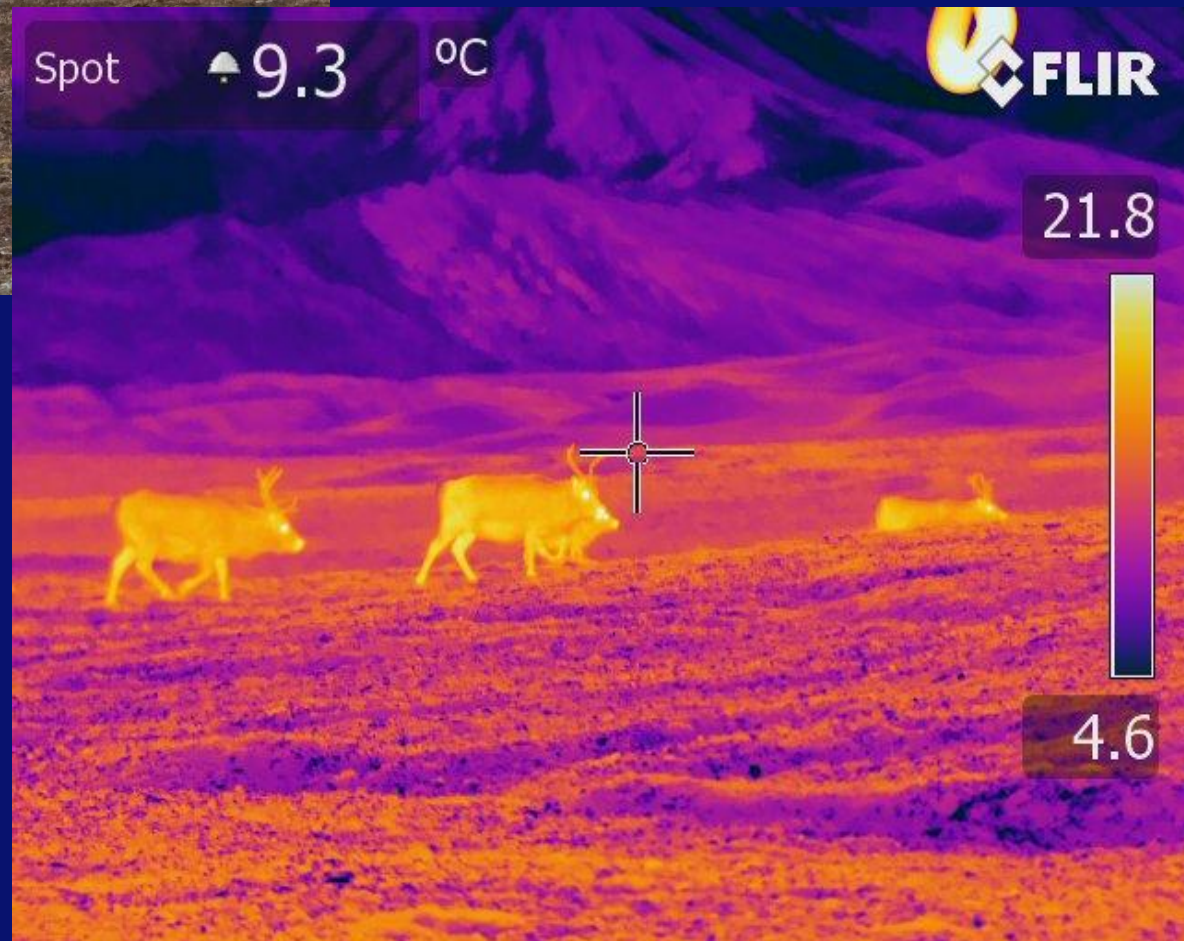
Imaging of flora and fauna, priorities by participants

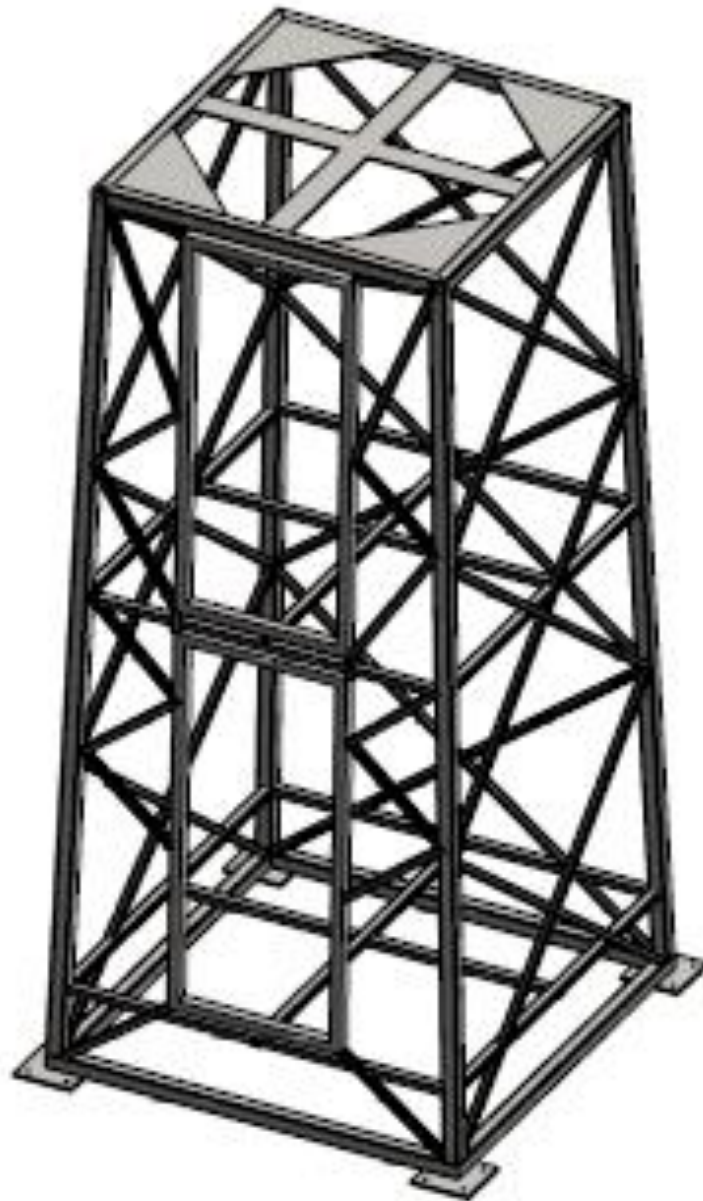
Sound recording and meteorology

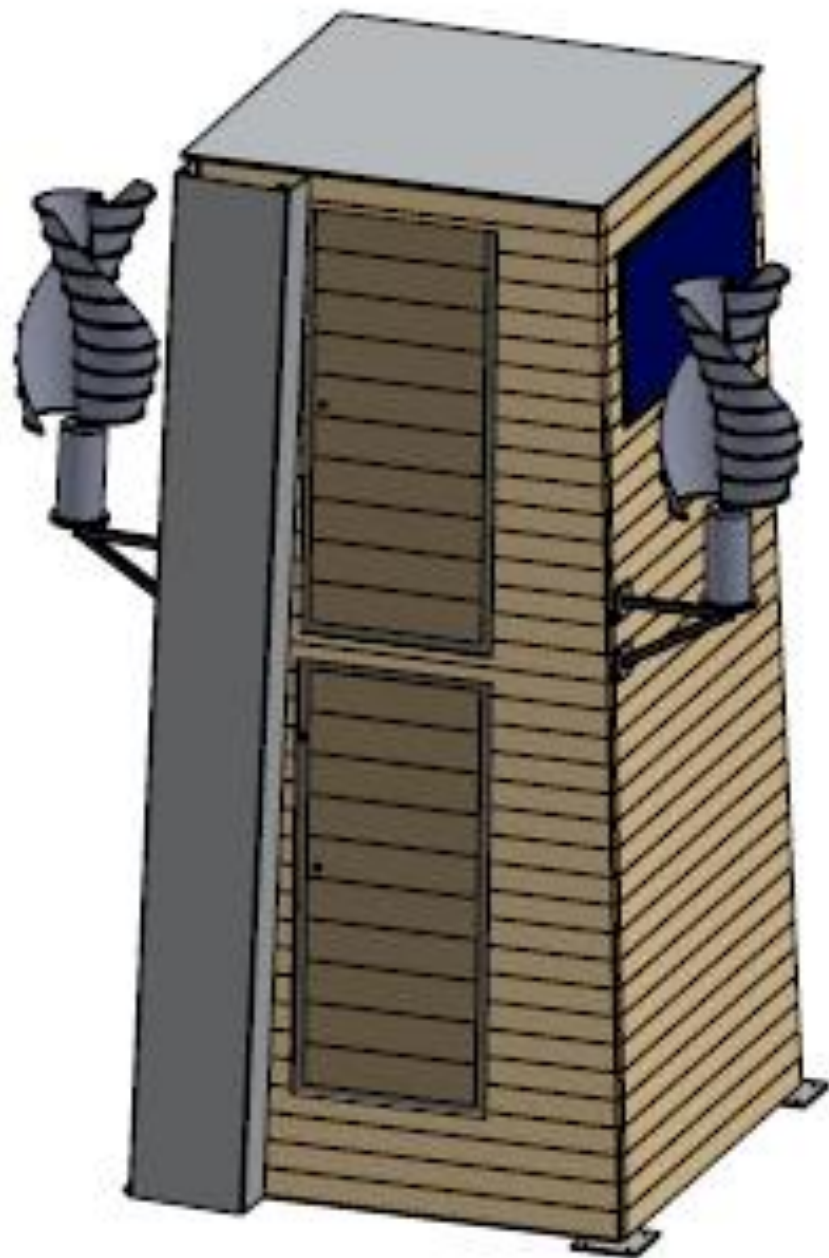
Sky monitoring, mainly for aurorae

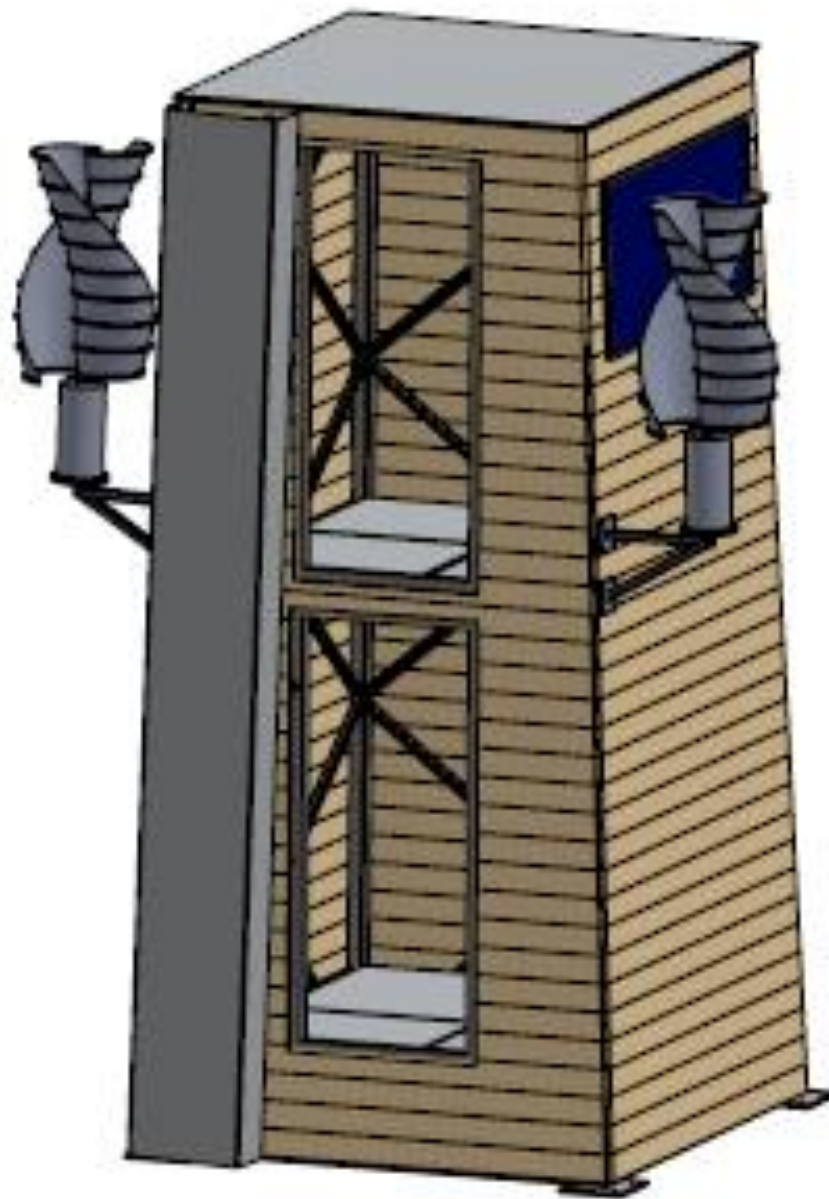


**Reindeers imaged
at visual and
infra-red
wavelengths**









Some Current Collaborators

Lund University, Stockholm University,

Uppsala University, Gothenburg University,

Swedish Museum of Natural History,

Tromsø University, Svalbard University Centre,

through Kjell Henriksen Observatory (UNIS)

Oslo Museum of Natural History,

Norwegian Institute of Meteorology,

Project Permits

**In 2016 and 2017, we applied for, and received,
permits for initial expeditions.**

Now, we apply for permit for our Field Station.

An Autonomous Field Station

**Producing its own energy for
imaging, sound recording, meteorology,
data processing, data storage and
communication**



Transfer vessle-zodiac-vessel may require determination

Maybe Interested in Joining Us ?

You are most welcome to contact us,

arne@astro.lu.se

Funding available for all basic installations

Thanks for your patience

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