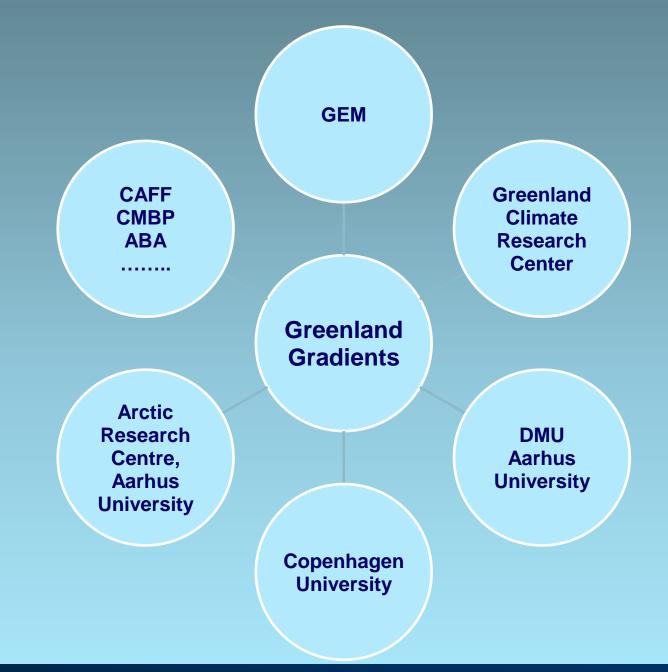


Overall objectives

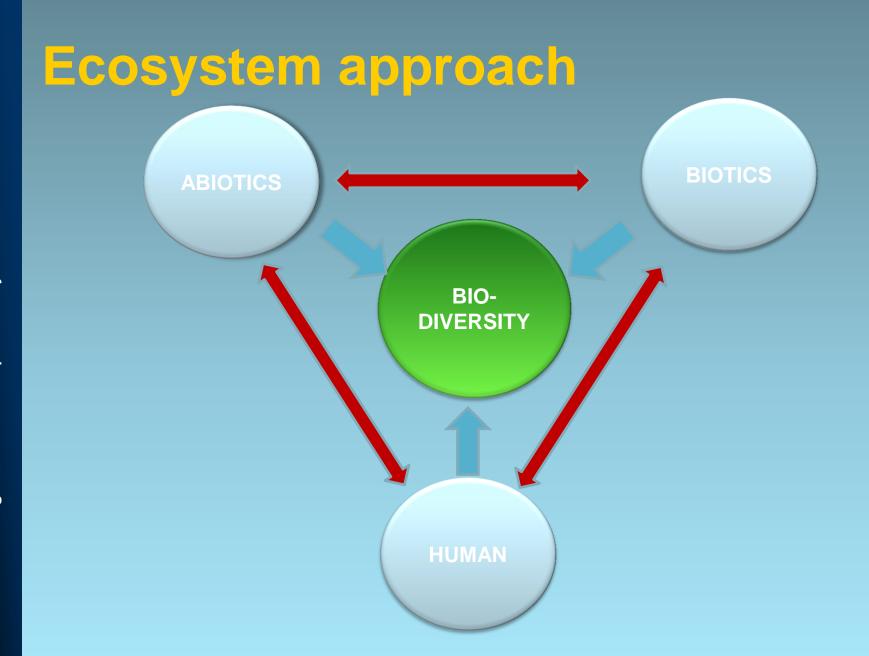
- To document the spatial variation in biodiversity of terrestrial flora and fauna across the climate zones in Greenland
- To verify the relationship between field data and remote sensing ('ground truthing'), and its spatial variability
- To establish a permanent network of monitoring plots and transects
- To scale up central ecosystem parameters spatially
- Quick-and-dirty field approach
- Robust and central parameters





- Scientific value
- Logistics
- Excisting data

Un-manned aircrafts



Greenland Gradients

Non-destructive sampling

- Biodiversity of vascular plants and vertebrates (plots and transects)
- NDVI in plant communities
- Carbon flux in plant communities (lightresponse curves)
- Soil moisture and temperature

Greenland Gradients

Destructive sampling

- Harvest of plant material (biomasse, Leaf Area Index, nutrients)
- Soil samples (soil fauna biodiversity, nutrients)
- Collection of arthropods (biodiversity)
- Stem samples, sediment samples

Monitoring network

Biodiversity

Up-scaling

Vascular plants
Bryphytes
Lichens

Soil fauna Arthropods Vertebrates Vegetation Nutrients Biodiversity NDVI LAI Carbon flux



Status
Local monitoring tool



Regional monitoring tool