



GCRC

Greenland
Climate
Research
Centre

at the Greenland Institute
of Natural Resources

About

- The GCRC is a multidisciplinary research group with unique knowledge of Greenland's marine ecosystems, ice-ocean dynamics and millennial ocean-climate changes, and with links to society and local communities.
- The centre is an international group of scientists and technicians with a large international network and cooperation agreements.
- The goal is to exhibit and anchor expertise on marine ecology and social science concerning climate change in Greenland.

Climate change

- The GCRC maintains and continues decades of collected and published data on biological production along with physical and biochemical conditions in the fjords with an emphasis on freshwater discharge from the Greenland ice sheet.
- The GCRC carries out annual coastal and offshore surveys that are crucial to understanding the impact of ocean-climate changes on the Arctic food web, ranging from physical parameters to apex predators.
- Coastal and deep-sea sediments provide excellent archives of past oceanic changes that help to better understand the mechanisms of millennial ocean-climate changes.

Marine ecosystems

- The GCRC quantifies geographical and seasonal variations in the marine ecosystems around Greenland.
- The GCRC develops best-practice protocols for Arctic marine ecological studies and monitoring in areas of major biological, cultural and commercial importance (hotspots).
- The GCRC provides basic knowledge of marine ecosystem variations that help assess the impact of natural and human stressors and improve management of marine resources in Greenland.

Science and society

- The GCRC's vision is to provide a holistic point of view of marine ecosystems – naturally, historically and socially.
- The centre develops cooperation across different academic disciplines (interdisciplinary) and across different forms of knowledge (transdisciplinary).
- In GCRC activities the importance of open dialogue between the local community, researchers and managers is emphasized and practiced.
- We develop long-term collaborations with local users of Greenland's natural resources.

Education

- The GCRC is the driving force behind the first natural science education program at the master's level, launched in Greenland in collaboration with Greenlandic and Danish universities.
- The new education facilities coordinated by the GCRC constitute a cornerstone for natural science in Greenland.
- Through education in Arctic climate, nature and environment, the GCRC raises scientific awareness at all levels of society and the education system.

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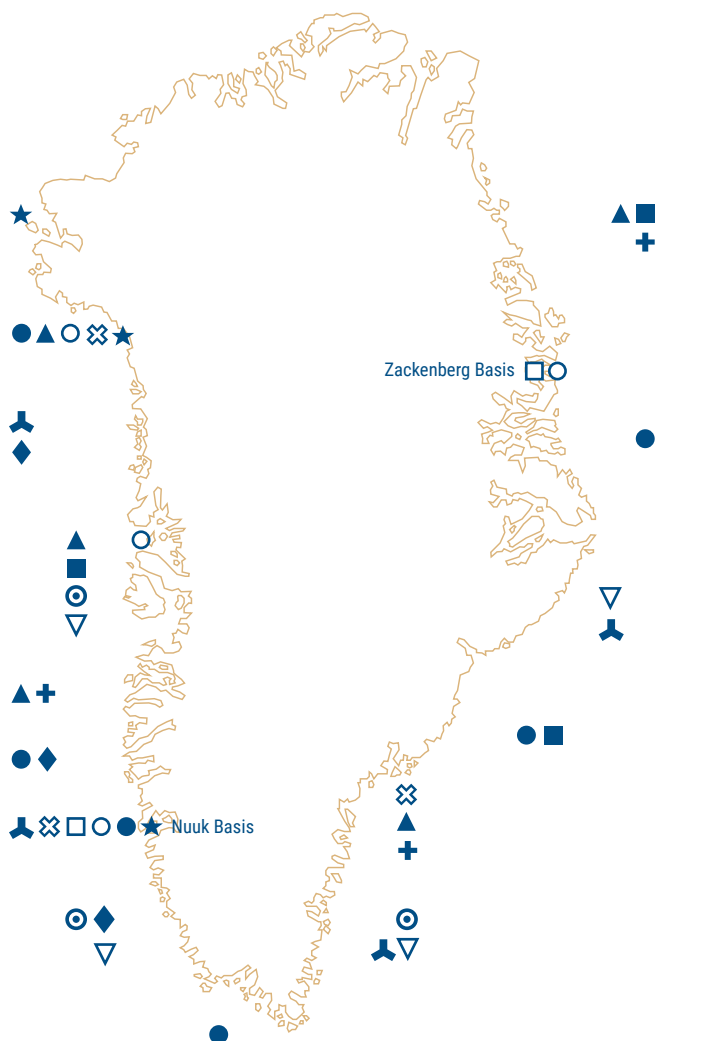
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Research Projects and Programs



-  Arctic-Atlantic Benthic Monitoring
-  Cetacean Satellite Tagging
-  Fish Population Dynamics
-  Glacier-Fjord-Ocean Dynamics
-  Greenland Ecosystem Monitoring
-  Hydrographic Transects

-  Marine Mammal Acoustic Monitoring
-  Marine Paleoclimate
-  Mapping Benthic Habitats
-  Community Project
-  Pelagic Biochemistry
-  Pelagic Ecosystem Dynamics