


G E U S

Geological Survey of Denmark and Greenland

The background of the slide is a world map rendered in shades of blue. The map shows continents and oceans with white lines for borders and coastlines. Overlaid on the map is the text 'We conduct research on an international level, advise authorities and industry, as well as map the geology and the resources of the earth.' in a white, sans-serif font.

We conduct research on an international level, advise authorities and industry, as well as map the geology and the resources of the earth.

What is GEUS?

- GEUS is an independent research and advisory institution within the Danish Ministry of Climate, Energy and Utilities.
- We are a geological data centre that conducts geoscientific studies, carries out research and mapping, and act as consultants.
- GEUS undertakes assignments related to water resources, energy, climate, nature and minerals.
- For over 130 years we have provided Danish society with knowledge and data relating to everything from mapping the geology and the resources in Denmark and Greenland to monitoring the Greenland Ice Sheet and pesticides in the groundwater.
- GEUS is Denmark's largest geoscience research community and employs approx. 350 people.
- GEUS has offices in Copenhagen, Aarhus and Nuuk.
- We are a partner in Geocenter Denmark and a member of EuroGeoSurveys.



GEUS is a partner in Geocenter Denmark, which publishes a magazine on popular science, Geoviden (Geoknowledge), where you can read about carbon capture and storage (CCS), geothermal energy and much more. Find it at geoviden.dk

GEUS comprises five programme areas

GEUS is headed by a board and management and comprises five programme areas under which nine research departments cover everything geological.

WATER RESOURCES: We map, monitor and conduct research in groundwater and the water cycle. We prepare reports on pesticides in the groundwater, run the National Water Resources Model and research 3D geological modelling.

ENERGY RESOURCES: We contribute to the investigation and utilization of the subsurface for geothermal energy and for energy and carbon storage. We contribute to marine geophysical planning in energy projects and provide knowledge about the potential for hydropower in Greenland.

DATA: We are the national geological data centre and supply knowledge and data on water, energy resources and climate. We collect data about the geology

in Denmark and Greenland to be used in connection with the green transition, resource exploitation, ensuring clean drinking water etc.

MINERAL RESOURCES: Via mapping we create the scientific foundation for the exploration of resources in Denmark and Greenland that may lead to new gravel pits and mines. We work efficiently in order to ensure a sustainable use of our resources.

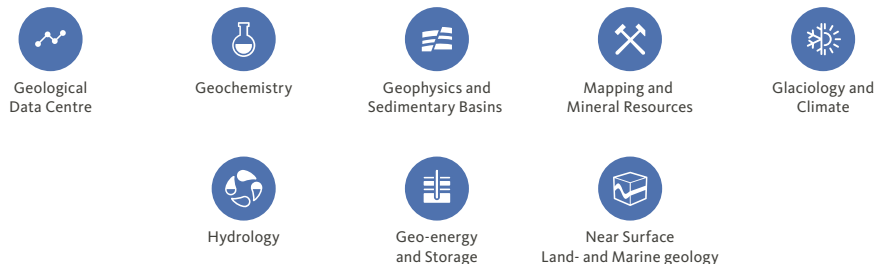
NATURE AND CLIMATE: We survey the geological conditions on land, on the coast, and offshore, including the melting of the Greenland Ice Sheet, and we map climate change.



PROGRAMME AREAS



SCIENTIFIC DEPARTMENTS





Over 130 years serving society

GEUS came into being in 1995 when two institutions, the Geological Survey of Greenland (GGU) and the Geological Survey of Denmark (DGU), merged. They were both old and well-established institutions. GGU was established in 1946 and the history of DGU goes all the way back to 1888.

GEUS has provided Danish society with information for more than 130 years with the aim of ensuring clean drinking water, a sound environment and contributing to a profitable and sustainable exploitation of resources and energy.

In Denmark and in Greenland our geologists began by making geological maps

showing the structure of the geology and, until 1987, the work also included the geological survey of the Faroe Islands.

The projects have varied over the years. While the subsurface stays relatively constant, the technological possibilities are changing constantly, and thus, so is society's need for geological knowledge.

When GEUS was young, raw materials such as marl, brown coal, peat, clay and gravel were very important. Today, clean drinking water, the energy supply, adaptation to climate change and the availability of raw materials are high on the agenda.



If you want to know more about the geology of Denmark, Greenland and the Arctic, you can find both historical and new scientific articles published in the scientific journal GEUS Bulletin at geusbulletin.org

How can GEUS help?

We have great expertise across a broad range of subjects, and we participate in research projects and offer consulting services. We arrange excursions, supply data, perform laboratory analyses and much more.

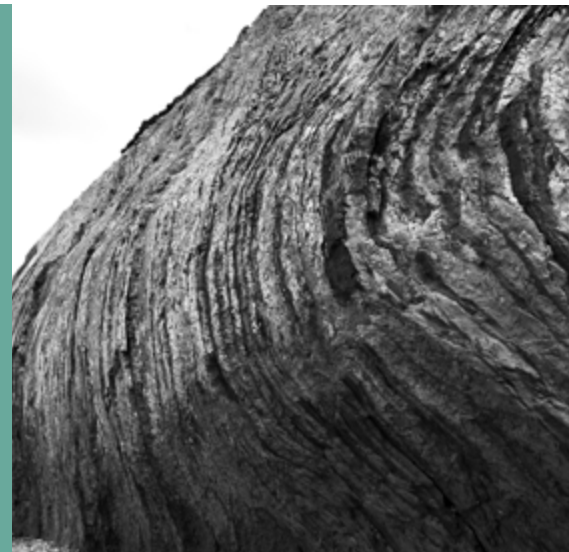


RESEARCH AND FIELDWORK

We head and participate in research projects, contributing with geological knowledge, data, laboratory analyses and experience with fieldwork on land and offshore.

ADVISORS TO AUTHORITIES AND INDUSTRY

We offer geological advice and undertake assignments for authorities and industry related to water, nature, environment, climate, energy and resources. With our experience from working in Denmark and Greenland, we contribute to projects all over the world.



CONTRIBUTIONS AND GEOSCIENTIFIC STUDIES

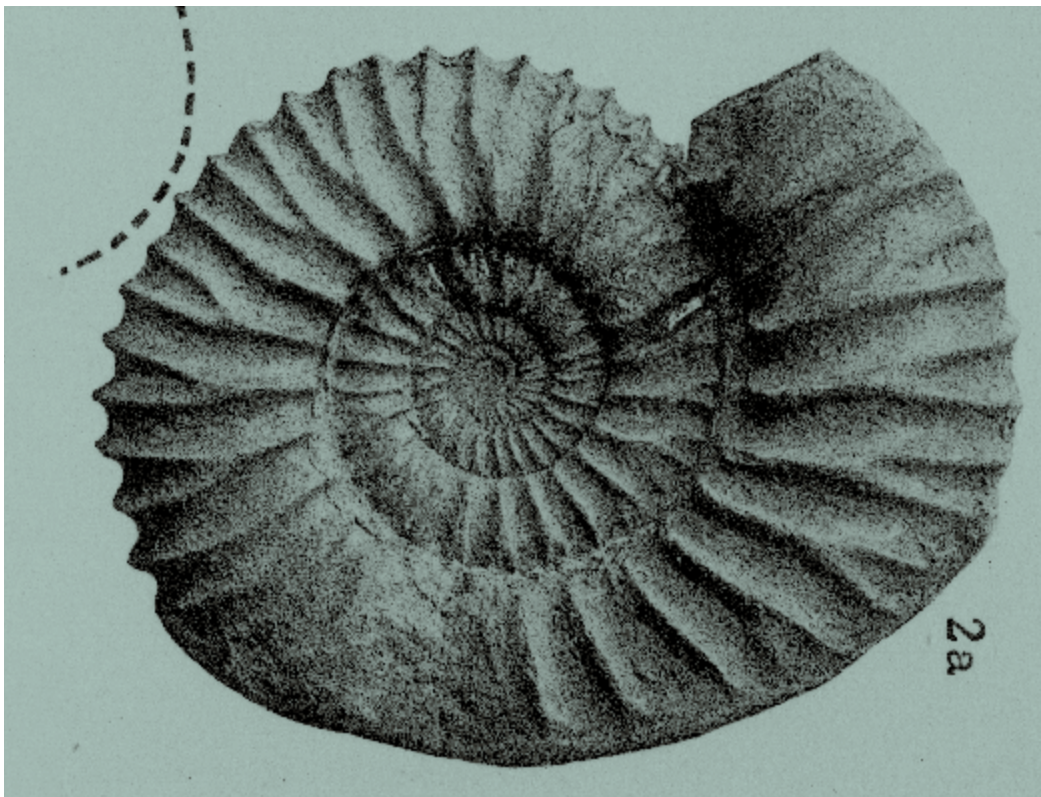
We store seismic data and data from drillings as well as other geophysical investigations that can give us information about e.g. the Danish groundwater, resources and geology. We also offer assistance with biostratigraphy, gas and isotope analyses, geophysical data acquisition, well data and sandstone petrography and diagenesis.





DATA AND PUBLICATIONS

We are the national Danish geological data centre and we make data and knowledge accessible to authorities, educational facilities, industry, organisations etc., for instance through our geophysical and marine resource databases. We also publish maps, scientific articles, reports and articles on popular science. You can find the publications and data bases at geus.dk.



MAPPING AND DATA ACQUISITION

We are happy to collaborate on mapping, data acquisition, data management and communication for projects related to the geological conditions in Denmark, Greenland and internationally.

LABORATORIES AND FACILITIES

We have at our disposal a variety of laboratories where our experts carry out a wide range of analyses of raw materials, rocks, sediment, water, aerial photos and much more, with high-tech equipment and advanced technologies such as HRMS, LA-ICP MS and SEM. We also have instruments for seismic research.



Do you have an idea for a project we can contribute to? Or other ideas for collaboration? Then read more about us and find our contact information at geus.dk/collaboration



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