

Field trips to Greenland

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The Geological Survey of Denmark and Greenland (GEUS) has more than 50 years of experience in field work in Greenland. As a natural consequence of this expertise, we are able to arrange customised geological field trips everywhere in Greenland.

The geology in Greenland includes some of the most spectacular analogues to the offshore areas in the North Atlantic. The geology can be studied either in detail or in true "seismic scale". The three-dimensional large-scale exposures will provide inspiration for explorationists normally dealing with well information or seismic on workstations.

Field trips are designed to fulfil individual needs and GEUS can provide experienced guides and up-to-date guidebooks, as well as presentations and workshops prior to the field trips, all based on the newest research results. GEUS can furthermore help to arrange accommodation and support logistics in Greenland in the most cost-effective way.

Being a research institution, GEUS can provide experienced geologists as guides with the best first-hand knowledge available in the areas you are visiting.

Examples of field trips to classical outcrops, including previous field trips arranged by GEUS

The Nuussuaq Basin, West Greenland: Spectacular lateral and vertical facies variations in the Paleocene lava flows; sedimentary responses to mantle plumes; detailed and large-scale presentation of the basin evolution and depositional systems

in the Cretaceous–Paleocene succession; Paleocene reservoir sandstones; evidence from oil seeps of multiple source rocks in both the sedimentary and volcanic successions.



The Kangerluussuaq Basin, East Greenland: Outcrop analogue to sub-basaltic basin in the southern North Atlantic (Pre-drift position c. 120 km NW of present-day Faeroe Islands); Cretaceous–Paleocene basin evolution and depositional systems; magmatic control on sedimentation; spectacular exposures of Paleocene flood basalts.

The Jameson Land Basin, East Greenland: Classic Upper Palaeozoic – Mesozoic outcrop equivalents to the northern North Sea and mid-Norway; analogous to Lower, Middle and Upper Jurassic reservoirs; several stratigraphic levels with source rocks; Cretaceous depositional systems.

North-East Greenland: Classic Upper Palaeozoic–Mesozoic outcrop equivalent to offshore Mid-Norway and Northern North Sea; exhumed hydrocarbon traps; large-scale exposures of rotated fault blocks; Lower Cretaceous syn-rift conglomerates; Cretaceous depositional systems; Paleocene sediments and basalts; Paleogene tectonics and intrusions.

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The Geological Survey of Denmark
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