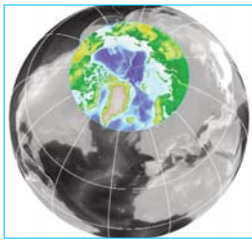


STUDIES

ARCTIC



geodynamics and petroleum geology of the greenland, norwegian and barents seas



GETECH

This subset of our **geodynamics and petroleum geology of the circum-Arctic** study will be relevant to companies exploring in the frontier areas of offshore eastern Greenland, northern Norway and the Russian sector of the Barents Sea.

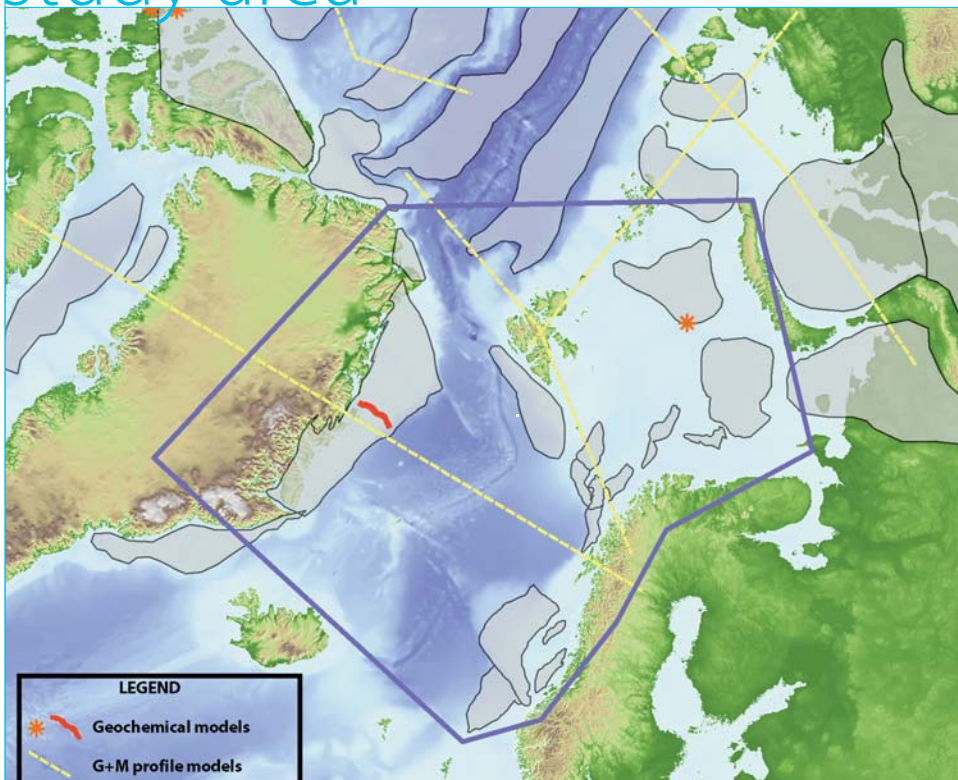
It provides a rigorous analysis of the petroleum potential of these under explored basins.



project rationale *and objectives*

A new plate tectonic model constrained by gravity and magnetic data, 2D modelling and non-proprietary datasets, provides a foundation for palaeogeographic and palaeolandscape reconstructions for six key timeslices. An examination of the modern-day landscape (including the sub-ice landscape of Greenland), further enhances our understanding of the sediment-source to sink relationship of the area. Consideration of these influences on the petroleum geochemistry and petroleum systems of this region completes the study.

study area



Key Products:

- Gravity and magnetic data and derivatives
- New Plate Tectonic Model
- 6 key time slice reconstructions
- Three 2D modelled gravity and magnetic profiles
- Palaeoenvironmental and palaeolandscape maps
- Geochemical modelling
- Depth to Basement
- Palaeodrainage analysis, a new updated analysis is available as a separate study

deliverables

This study is delivered as:

Report (hardcopy and PDF)

GIS Project

the report

Executive Summary and Introduction

Structure and Tectonics

- Structural interpretation of the gravity and magnetic data
- Three 2D modelled gravity and magnetic profiles
- Regional depth to basement

Plate Modelling

Drainage and Landscape Analysis

- The European river systems; Pechora, Severnaya Dvina, Mezen, Volga, Mjorn and Tornealy
- The Greenland Margins

Paleogeography

Palaeoenvironment and palaeoDEM maps for 6 timeslice reconstructions:

- Carnian 220Ma
- Kimmeridgian 155Ma
- Aptian 120Ma
- Turonian 90Ma
- Ypresian 50Ma
- Last Glacial Maximum/Pleistocene

Petroleum Geochemistry

- Source Rock characterisation and evaluation
- Burial History Modelling
- East Greenland Basin 2D, North Barents Sea 1D

Petroleum Systems Evaluation

- Chronostratigraphic, lithostratigraphic and environmental summary charts and synthesis of the petroleum systems for:
 - East Greenland Basin
 - Vøring Basin
 - North Barents Sea Basin

the GIS project

A series of .mxds containing:

- Gravity and magnetic data images
- Structural framework
- Palaeoenvironments
- PalaeoDEMs

gravity and magnetic data

The underlying digital gravity and magnetic datasets as industry standard format grids.

This non-exclusive study is licensed to companies under GETECH's standard Licence Agreement.

other products

geodynamics and petroleum geology of the circum-arctic

This major study generated a new plate model for the region, a series of palaeoenvironmental reconstructions and evaluates the prospectivity of all the basins north of 65°N.

landscape analysis of greenland

This new study is based on the isostatic correction of the sub-ice topography of Greenland utilising concepts of flexural rigidity and Airy isostasy.

STUDIES

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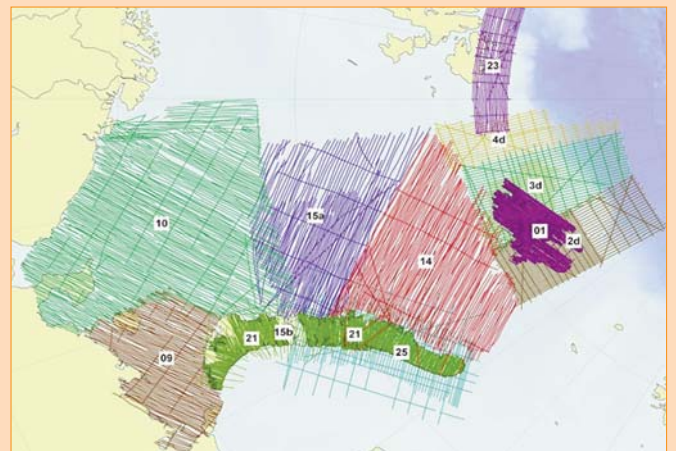
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barents sea aeromagnetic data package

Over 320,000 line kms of high resolution aeromagnetic data, with between 2-5km line spacing are available for detailed fault/linement and depth to basement analyses.



Multi-disciplinary teams of technical experts



Including the world's largest gravity and magnetic library



A global portfolio of focused exploration reports

