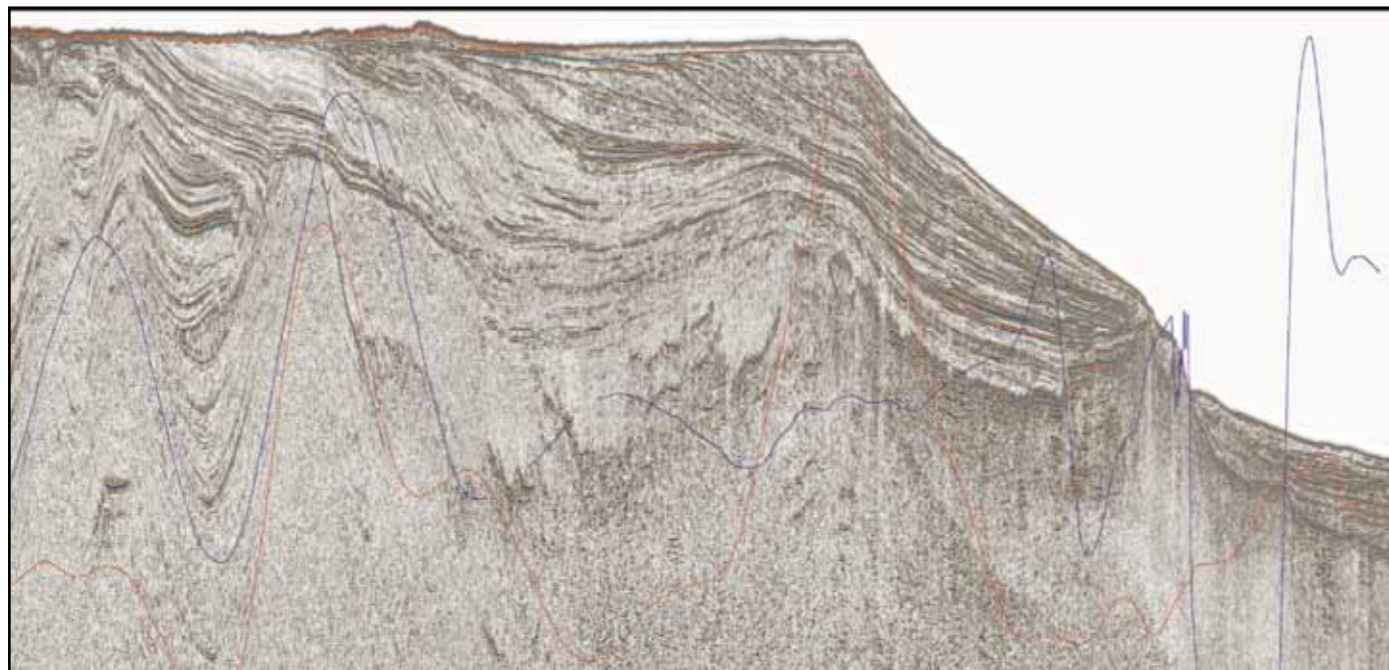


East Greenland Basins



Seismic line integrated with magnetic and gravity data

Integrated SGM method

- Data specific processing, inversion and interpretation
- Qualitative integrated interpretation in a seismic workstation environment
- Case studies and quantitative modeling of key basin segments and potential field anomalies

Deliverables

- Printed A3 report and digital pdf
- Modeling animations

¹ TGS and AWI seismic used in interpretation. Seismic examples provided. Data licensed separately.

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East Greenland Basins

Geophysical Atlas



Integrated Seismic Gravity Magnetic (SGM) Interpretation of the East Greenland Basins

- Providing complementary information
- Increasing efficiency and quality of the seismic interpretation
- Updated geological knowledge for the 2012 licensing round



Northeast Atlantic



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East Greenland Basins

Geophysical Atlas of the East Greenland Basins

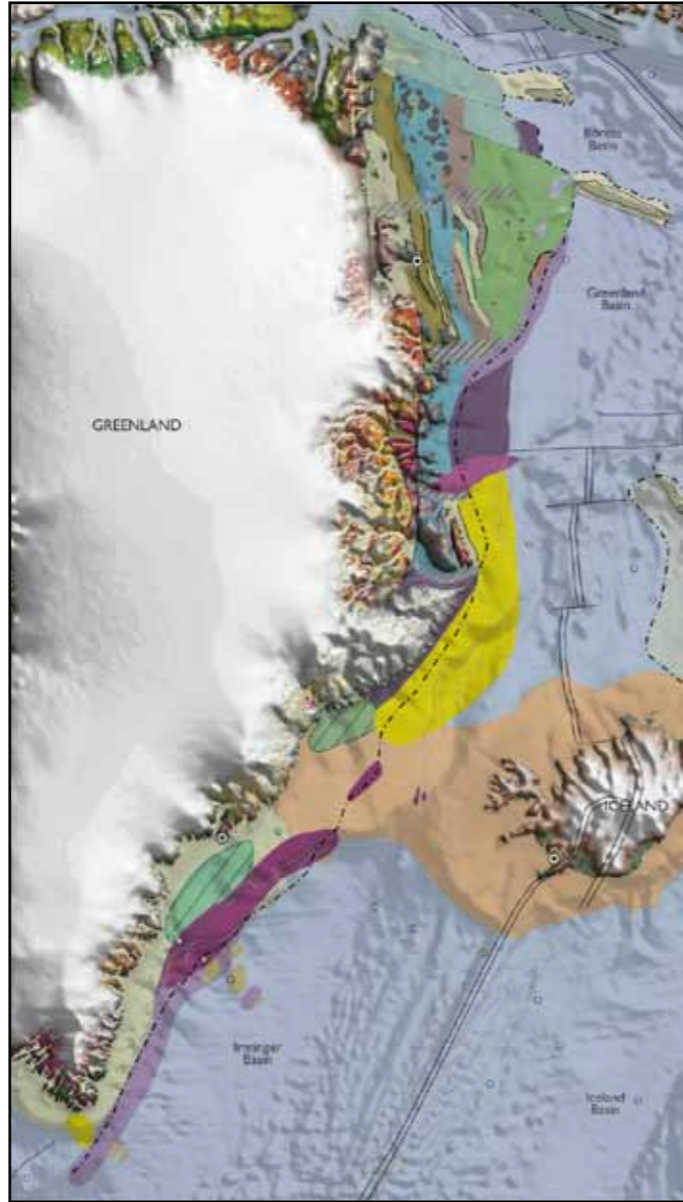
TGS-NOPEC Geophysical Company (TGS) and Volcanic Basin Petroleum Research (VBPR) are pleased to present the second edition of the Geophysical Atlas of the East Greenland Basins; an integrated seismic, gravity and magnetic (SGM) interpretation study for East Greenland.

The Atlas covers the whole East Greenland margin from south-east to northeast. The main focus is on the central and northeast segments where regional seismic, aerogravity and aeromagnetic data have been acquired by TGS since 2007. These data sets greatly increase the understanding of the regional structure offshore East Greenland, allowing for better regional interpretation and reduced exploration risk.

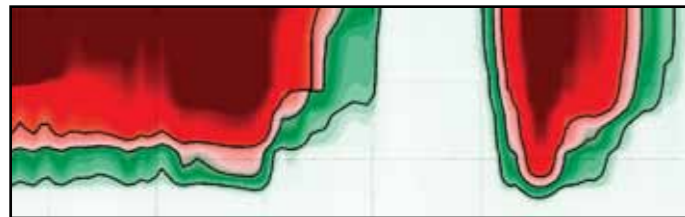
This Atlas includes a comprehensive introduction to the geology of East Greenland, including plate tectonic framework, tectonic calendar, exploration history, onshore geology and potential petroleum source and reservoir rocks.

The aim of the Atlas is to provide exploration companies with:

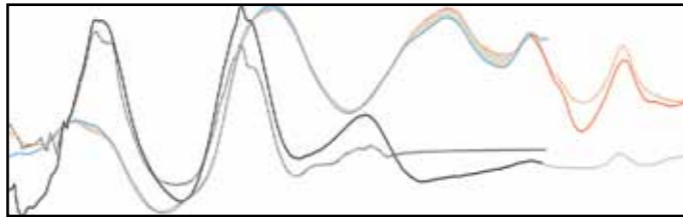
- Improved structural interpretation based on the integrated SGM interpretation method
- New nomenclature map
- Magnetic and gravity anomaly maps
- Breakup history and volcanic margin development
- Structure and development of the extrusive volcanic complex
- Plate tectonic reconstruction and conjugate margin development
- Evaluation of the continent-ocean transition
- Synthesis with geology in the Norwegian and Barents seas
- Petroleum maturation modeling
- Maturation effect of sill intrusions



New nomenclature map for the East Greenland basins

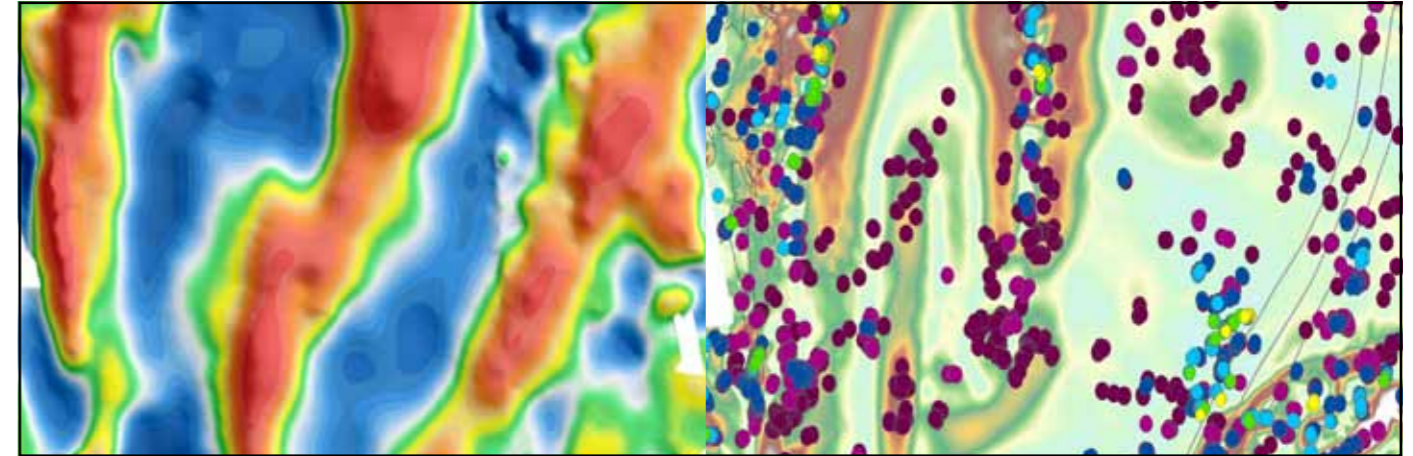


Maturation plot for a potential source rock offshore Northeast Greenland



Gravity and magnetic modeling increases confidence in structural interpretations

East Greenland Basins



High-pass filtered gravity (left) and magnetic (right) data provide complementary information about sub-surface density and magnetic variations / depths

Highlights

Geophysical data

- Regional TGS seismic
- Reprocessed regional AWI seismic
- TGS aeromagnetic and aerogravity surveys

Geophysical and geological maps

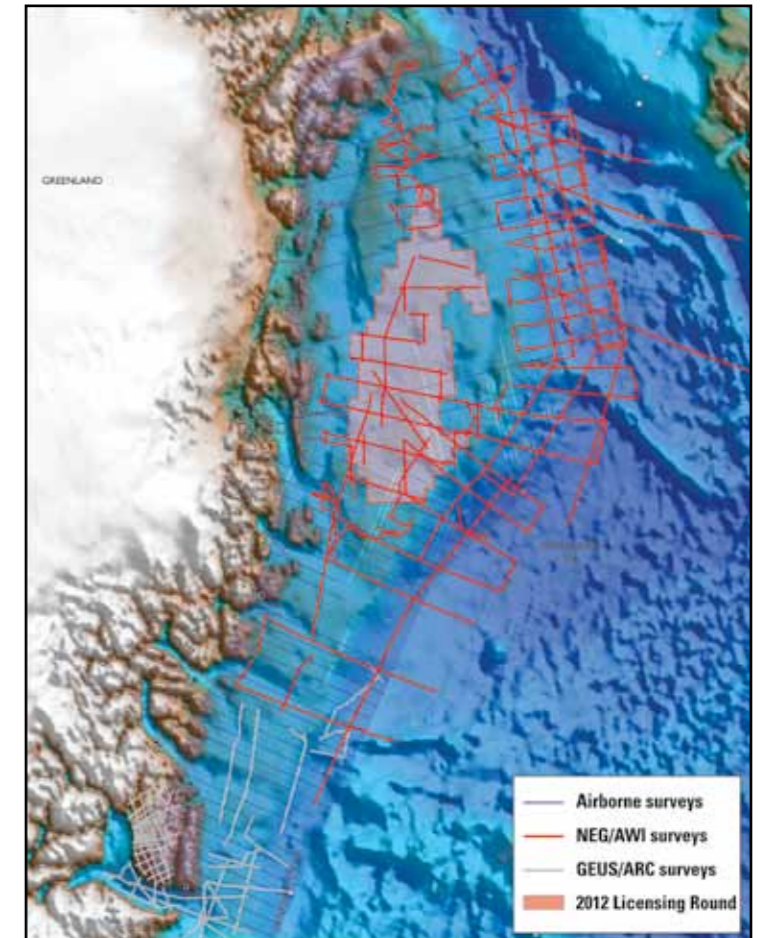
- Bathymetry
- Free-Air and Bouguer gravity anomaly maps
- Magnetic anomaly maps
- Depths to magnetic sources
- Magnetic and gravity facies interpretation
- Nomenclature

Northeast Greenland

- Integrated seismic, gravity and magnetic interpretations
- Magnetic and gravity modeling
- Breakup volcanism and COB discussion
- Sill and vent complexes
- Basin modeling and hydrocarbon maturation
- Petroleum implications of sill intrusions

Southeast Greenland

- Integrated seismic, gravity and magnetic interpretations
- Magnetic and gravity modeling
- Pre-breakup and post-breakup basins



Data coverage and licensing round outline