

Regional PhaseFinder Package East Greenland

GEOS4'S EXCLUSIVE PHASEFINDER TECHNOLOGY

This science-based technology accurately predicts charge timing, fluid volume and composition rapidly and inexpensively, based on calibrations from major petroleum provinces worldwide using PhaseKinetics*

Offshore Greenland is largely unexplored. The occurrence of source rocks is known exclusively from field work performed mainly by GEUS in eastern Greenland. Onshore, these span the timeframe from Devonian to Cretaceous and lacustrine to marine depositional environments.

The GEOS4 East Greenland package provides

- representatives of eight key immature source rocks,
- kinetic parameters for timing predictions using slow heating rates,
- Petroleum Type Organofacies for predicting bulk petroleum types,
- 2- and 4-component gas/oil ratio prediction in time and space,
- 14-component physical property/PVT prediction in time and space,
- kinetic data provided as tables as well as digital files for direct import into PetroMod® (SLB).

Available upon request:

- PhaseKineticsPlus includes stable carbon isotopes on C₁-C₄ components in addition to the above.

* di Primio, R. and B. Horsfield, 2006, From petroleum type organofacies to hydrocarbon phase prediction: AAPG Bulletin, Vol. 90.



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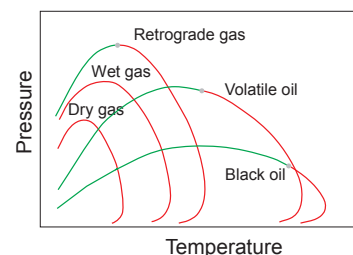
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UNIQUE SOURCE ROCK SAMPLE SUITE

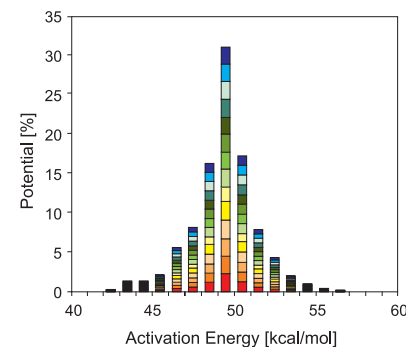
Eight source rock samples representing the main potential source rocks of East Greenland have been selected.

Petroleum plays in East Greenland are largely undefined. A large area offshore East Greenland has been assigned for new licencing rounds in 2012/2013, defining one of the future major frontier exploration areas in the North Atlantic.

Basins in eastern Greenland suffer from a paucity of appropriate source rock sample information, making qualitative and quantitative assessments difficult. Outcrop samples offer an interim solution to this problem. The source rocks studied here may additionally be present in areas of the Norwegian North Sea and Barents Sea.



Formation	Age	Origin	Depth (m)	OM Type
Smoking Hills	Coniacian/Campanian	Canada	outcrop	Type II/III
Hareelv	Kimmeridgian/Volgian	E. Greenland	outcrop	Type III
Muslingbjerg	Bathonian/Calloviaian	E. Greenland	outcrop	Type II
Sortehat	Aalenian	E. Greenland	outcrop	Type II
Kap Stewart	Sinemurian	E. Greenland	outcrop	Type I/II
Ravnefjeld	Wuchiapingian	E. Greenland	outcrop	Type II/III
Traill Ø	Westphalian	E. Greenland	outcrop	Type II/III
Obrutschew Bjerg	Famenian	E. Greenland	outcrop	Type I/II



GEOS4's East Greenland PhaseFinder package allows the combination of source specific compositional predictions of petroleum with petroleum system modelling. The correct reproduction of petroleum phase behaviour represents a major step forward in modelling fluid generation, migration and accumulation in this complex setting.