

GEO4240 Seismic Interpretation

Required reading list for the interpretation project

Stratigraphy/Sedimentology Project

[Faleide, J.I., Kyrkjebø, R., Kjennerud, T., Gabrielsen, R.H., Jordt, H., Fanavoll, S., and Bjerke, M.D., 2002. Tectonic impact on sedimentary processes during Cenozoic evolution of the northern North Sea and surrounding areas. In: Dore, A.G., Cartwright, J.A., Stoker, M.S., Turner, J.P., and White, N. \(Eds.\) Exhumation of the North Atlantic Margin: Timing, Mechanisms and Implications for Petroleum Exploration. Geological Society of London, Spec. Publ. 196, 235-269.](#)

[Galloway, W.E., Garber, J.L., Liu, X. Sloan, B.J., 1993. Sequence stratigraphic and depositional framework of the Cenozoic fill, central and northern North Sea basin. In: Parker, J.R. \(Ed.\) Petroleum geology of Northwest Europe; Proceedings of the 4th conference. Geological Society of London. London, United Kingdom, 33-43](#)

Gregersen, U., 1998. Upper Cenozoic channels and fans on 3D seismic data in the northern Norwegian North Sea. *Petroleum Geoscience*, 4; 1, 67-80.

[Gregersen, U. and Johannessen, P.N., 2007. Distribution of the Neogene Utsira Sand and the succeeding deposits in the Viking Graben area, North Sea. *Marine and Petroleum Geology*, 24/10, 591-608.](#)

[Jordt, H., Faleide, J.I., Bjørlykke, K., and Ibrahim, M., 1995. Cenozoic sequence stratigraphy of the central and northern North Sea Basin; tectonic development, sediment distribution and provenance areas. *Marine and Petroleum Geology*. 12; 8, Pages 845-879.](#)

[Jordt, H., Thyberg, B.I., and Nøttvedt, A., 2000. Cenozoic evolution of the central and northern North Sea with focus on differential vertical movements of the basin floor and surrounding clastic source areas, In: Nøttvedt, A. \(Ed.\) *Dynamics of the Norwegian margin*. Geological Society London, Special Publications. 167, 219-243.](#)

Martinsen, O.J., Boen, F., Charnock, M.A., Mangerud, G., and Nøttvedt, A. 1999. Cenozoic development of the Norwegian margin 60-64° N; sequences and sedimentary response to variable basin physiography and tectonic setting. In: Fleet, A.J. and Boldy, S.A.R. (Eds.) *Petroleum geology of Northwest Europe; proceedings of the 5th conference*. Geological Society of London. London, United Kingdom, 293-304.

Rundberg, Y., and Smalley, P.C., 1989. High-resolution dating of Cenozoic sediments from northern North Sea using $^{87}\text{Sr}/^{86}\text{Sr}$ stratigraphy. AAPG Bulletin. 73; 3, Pages 298-308.

Thyberg, B.I., Jordt, H., Bjorlykke, K., and Faleide, J.I., 2000. Relationships between sequence stratigraphy, mineralogy and geochemistry in Cenozoic sediments of the northern North Sea. In: Nøttvedt, A. (Ed.) Dynamics of the Norwegian margin. Geological Society London, Special Publications. 167, 245-272.

Structural Geology Project

Badley, M.E., Price, J.D., Rambech, D.C. and Agdestein, T., 1988. The structural evolution of the northern Viking Graben and its bearing upon extensional modes of basin formation. Journal of the Geological Society of London. 145, Part 3; Pages 455-472.

Birtles, R., 1986. The seismic flatspot and the discovery and delineation of the Troll Field. In: Spencer, A.M. (Ed.) Habitat of hydrocarbons on the Norwegian continental shelf; proceedings of an international conference. Graham & Trotman. London, United Kingdom, 207-215.

Christiansson, P., Faleide, J.I., and Berge, A.M., 2000. Crustal structure in the northern North Sea: an integrated geophysical study. In: Nøttvedt, A. et al. (eds) Dynamics of the Norwegian Margin. Geological Society, London, Special Publications, 167, 15-40.

Fossen, H., Hesthammer, J., Skeie-Johansen, T.E., and Sygnabere, T.O., 2003. Structural geology of the Huldra Field, northern North Sea—a major tilted fault block at the eastern edge of the Horda Platform. Marine and Petroleum Geology, 20/10, 1105-1118.

Gabrielsen, R.H., Færseth, R.B., Steel, R.J., Idil, S., and Kløvjan, O.S., 1990. Architectural styles of basin fill in the northern Viking Graben. In: Blundell, D.J. and Gibbs, A.D. (Eds) Tectonic Evolution of the North Sea Rifts. Oxford Science Publications, Oxford. 158-179.

Hellem, T., Kjemperud, A., and Ovrebo, O.K., 1986. The Troll Field; a geological/geophysical model established by the PLO85 Group. In: Spencer, A.M. (Ed.) Habitat of hydrocarbons on the Norwegian continental shelf; proceedings of an international conference. Graham & Trotman. London, United Kingdom, 217-238.

Ravnås, R. and Bondevik, K., 1997. Architecture and controls on Bathonian–Kimmeridgian shallow-marine synrift wedges of the Oseberg–Brage area, northern North Sea. Basin Research, 9, 197-226.

Ravnås, R., Nøttvedt, A., Steel, R.J., and Windelstad, J., 2000. Syn-rift sedimentary architectures in the Northern North Sea. In: Nøttvedt, A. et al. (eds) Dynamics of the Norwegian Margin. Geological Society, London, Special Publications, 167, 133-177.

Spencer, A.M. and Larsen, V.B., 1990. Fault traps in the Northern North Sea. In: Hardman, R. F. P. and Brooks, J. (eds), 1990, Tectonic Events Responsible for Britain's Oil and Gas Reserves, Geological Society Special Publication No 55, pp 281-298.