

# The Cretaceous Petroleum System in the Danish Central Graben

## CRETSYS

Key aspects of the Cretaceous prospectivity have been investigated, looking into the stratigraphic and structural complexity of the Cretaceous sedimentary system – Intra-chalk plays, Lower Cretaceous chalks, migration traps, redeposited chalk reservoirs, siliciclastic plays

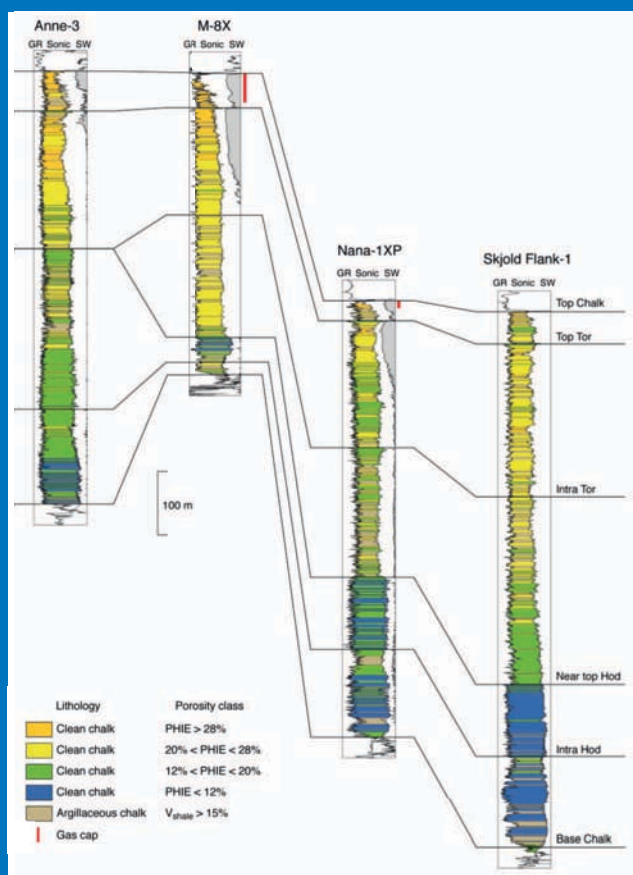
The GEUS CRETSYS Project is a re-assessment of the Cretaceous–Danian chalk succession of the Danish Central Graben - moving from local (field) and semi-regional (license) scale to the scale of the petroleum system in order to develop a better understanding of basin evolution – and hence the spatial and stratigraphic development of reservoirs and migration pathways.

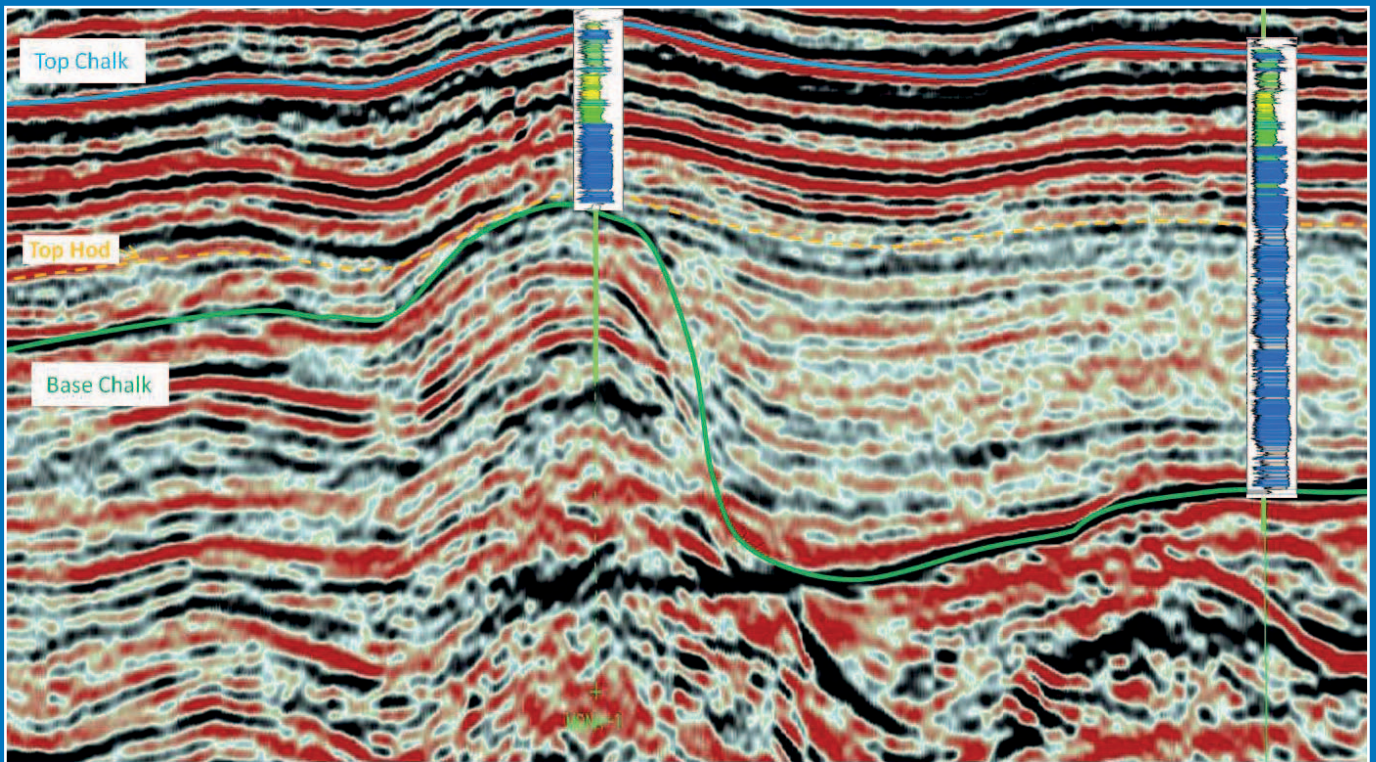


The project was carried out during 2014–2017 in collaboration with a number of participating oil companies providing technical input and advice.

Data can be accessed through a dedicated web portal service provided by GEUS.

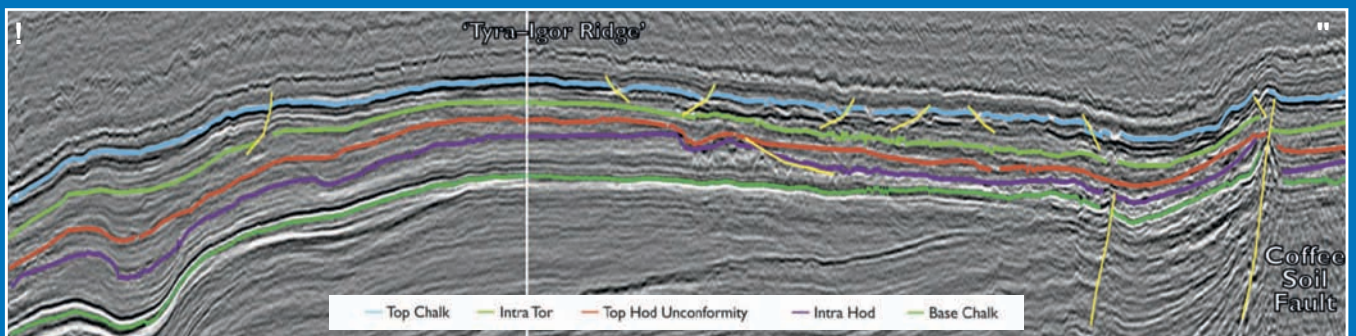
For further information on data access, please contact Nina Skaarup, Head of Geophysical Department, GEUS (for contact details, see back of folder)





**The CRESTSYS Project provides:**

- A compilation of GEUS data and published information (bibliography).
- A consistent seismic-stratigraphic framework for the Cretaceous and Danian succession in the Danish Central Graben based on available released seismic data and new well interpretations.
- An updated stratigraphic framework, regional stratigraphic architecture and depositional setting.
- An overview of reservoir characteristics, i.e. porosity, permeability, sedimentology of both the Upper and Lower Cretaceous chalk and the Lower Cretaceous siliciclastic-dominated sediments.
- An outline the regional variation of migration fairways from the Jurassic source rocks into the Cretaceous and modelling of trap filling.
- A study on seismic porosity prediction.
- A synthesis of the Cretaceous basin development, prospectivity and hydrocarbon plays.



**More information**

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