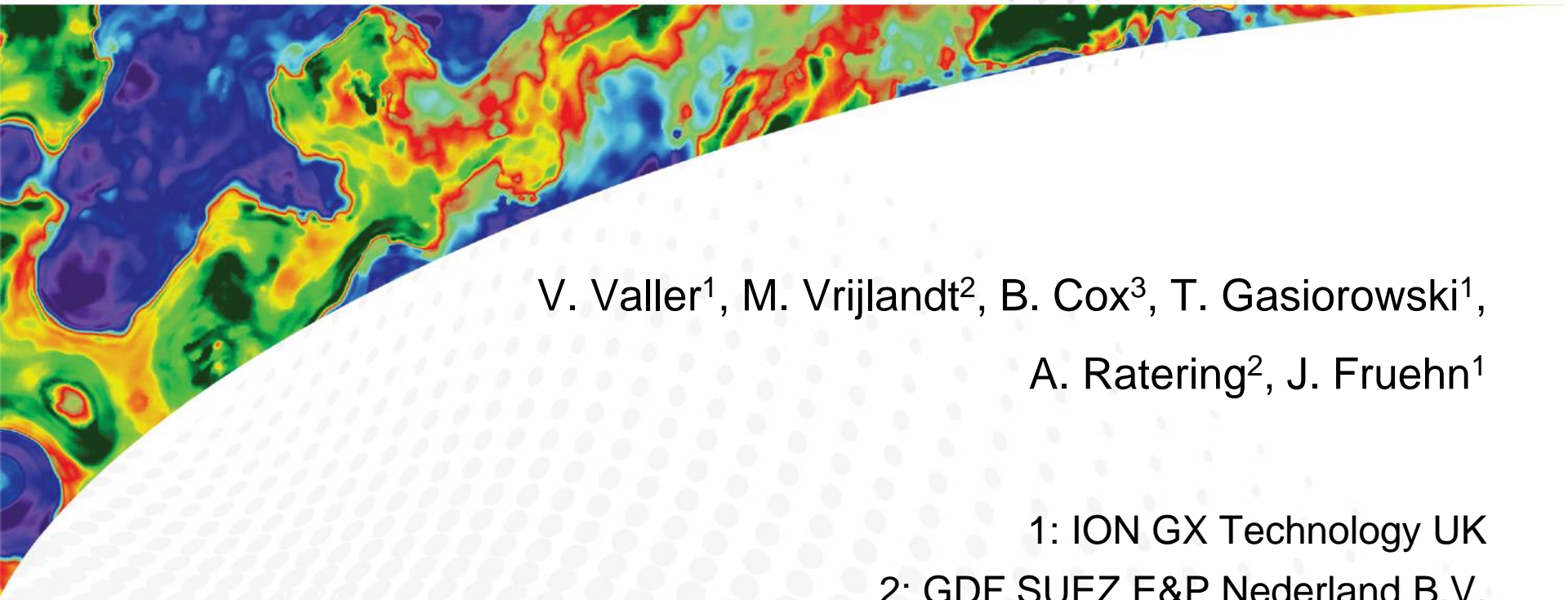


Reducing sub-salt uncertainty: a North Sea RTM case study

A geophysical map of the North Sea region, showing various geological features. The map uses a color scale from blue (low values) to red (high values). The map is partially obscured by a white curved shape that separates it from the text below.

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Outline

- Geological background
- Introduction to case study
- Model-building methodology
- Results
- Conclusions
- Acknowledgements

Conclusions

- This project updated the velocity model by carefully managing four elements
 - Gather flatness in sediment model
 - Salt geometry – defined using RTM
 - Sonic fit
 - Misties
- Uplift from vintage model was very good, aiding better understanding in a difficult geological setting
- Adjusting the velocities in the Lower Cretaceous/Jurassic layers is crucial to the success of sub-salt imaging
- Using Reverse Time Migration helps further in interpretation

Acknowledgements

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- You, the audience for listening

The logo for GDF SUEZ, featuring the text "GDF SUEZ" in a grey, sans-serif font above a teal-colored swoosh.The logo for ion, featuring a small green square above the letter "i" and the lowercase letters "ion" in a bold, black, sans-serif font.The logo for Monarch Geophysical Services, featuring three horizontal grey lines to the left of the word "Monarch" in a red, sans-serif font, with "GEOPHYSICAL SERVICES" in a smaller, grey, sans-serif font below it.



→Charged to innovate. Driven to solve.