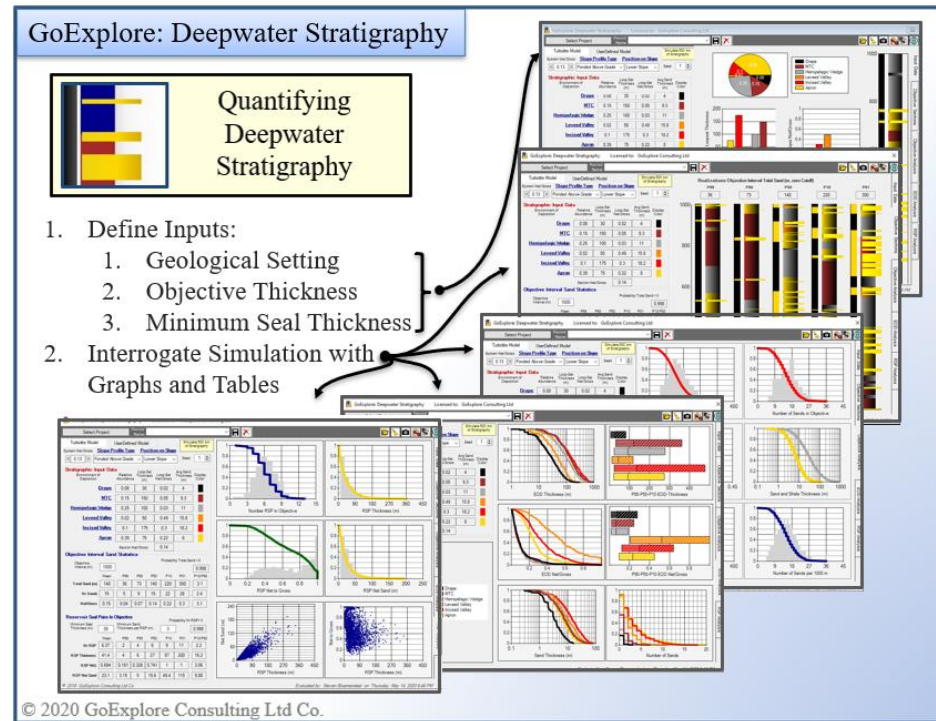




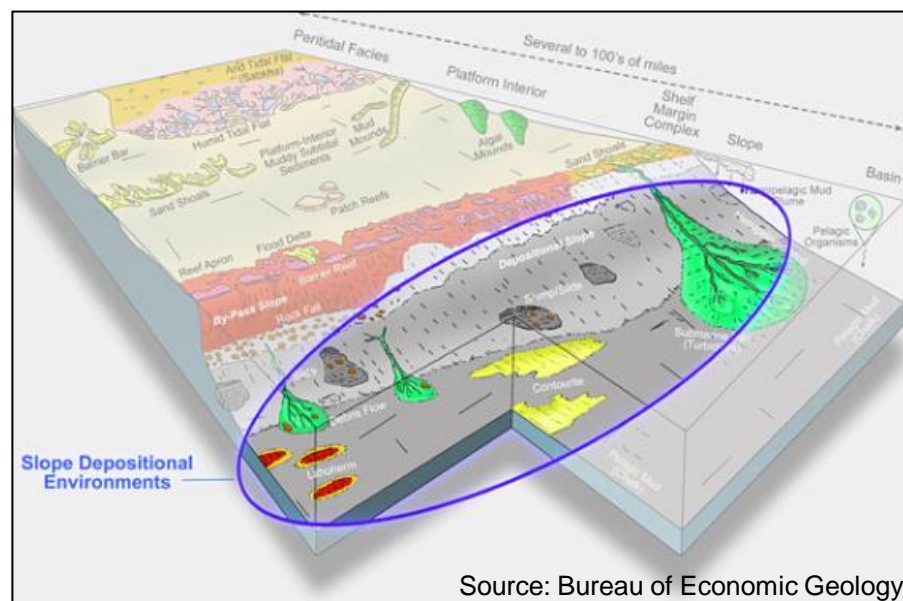
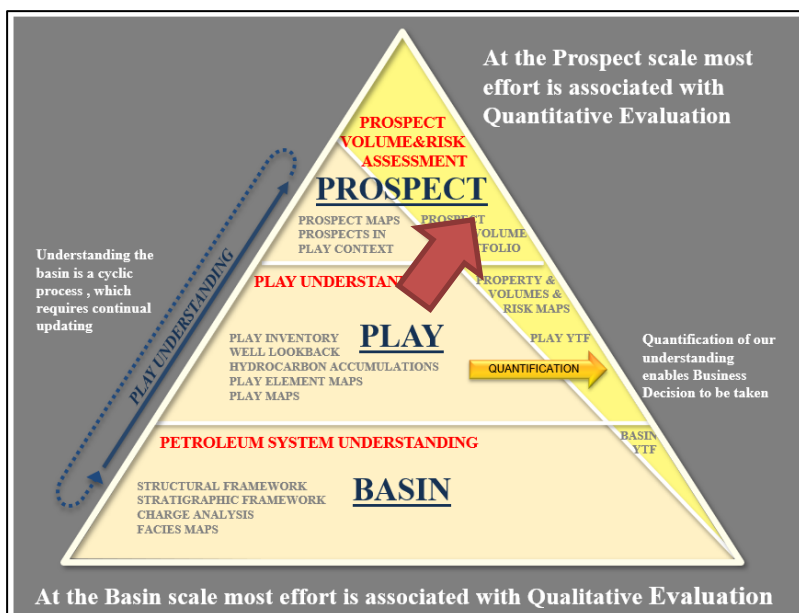
GoExplore Consulting

Free Friday Webinars
Quantification Deepwater Systems
with Deepwater Stratigraphy Tool
May 22nd 9am Houston Time

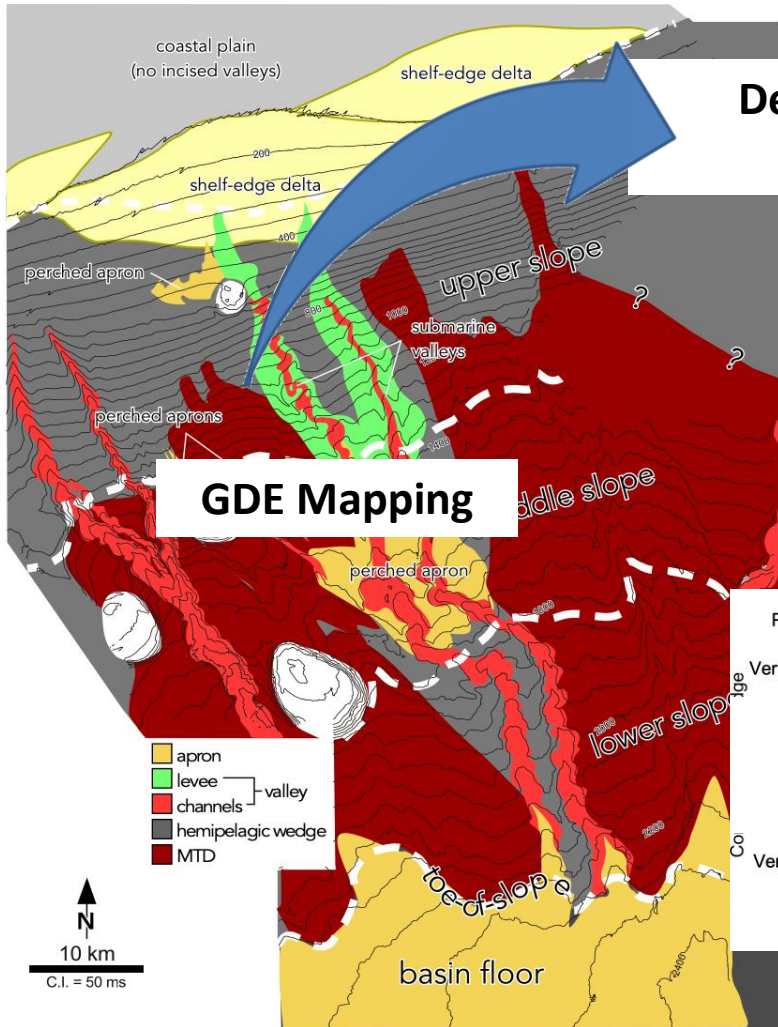
- Introduction to Deepwater Sedimentary Systems
 - Play Fairway Analysis
 - Reservoir Risk and Uncertainty Quantification
- Slope Systems Characterization & Calibration
- GoExplore: Deepwater Stratigraphy
- Demo
- Wrap-up



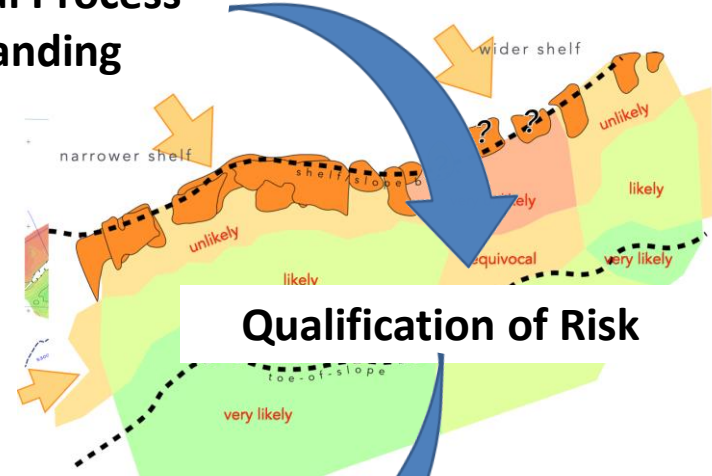
How to translate Play Observations into Quantitative Prospect Predictions



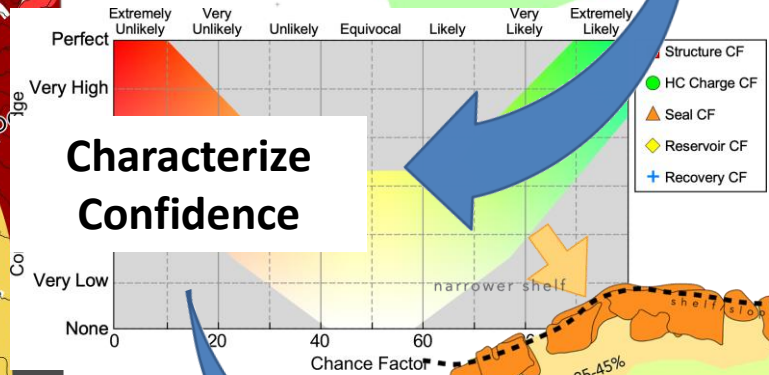
PFA Integration: Reservoir Risk Quantification



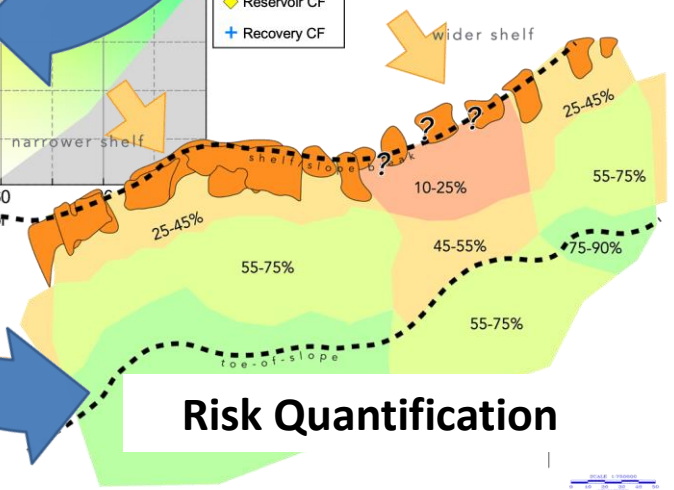
Depositional Process Understanding



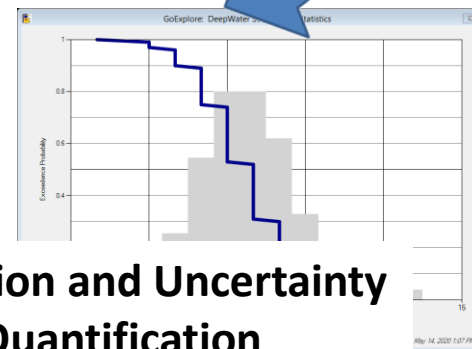
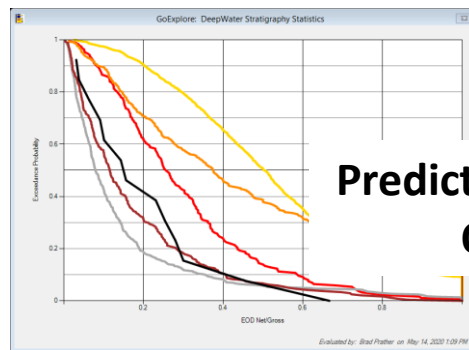
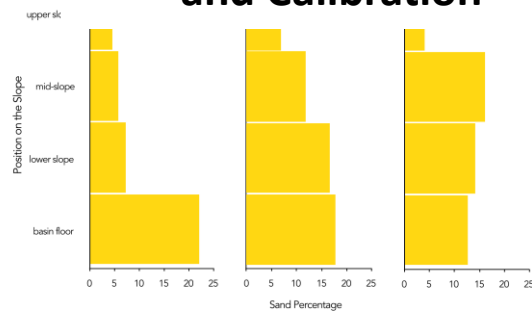
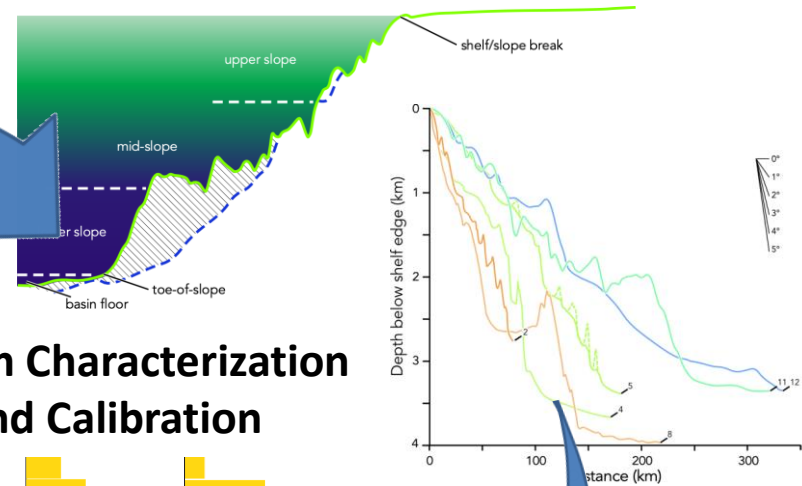
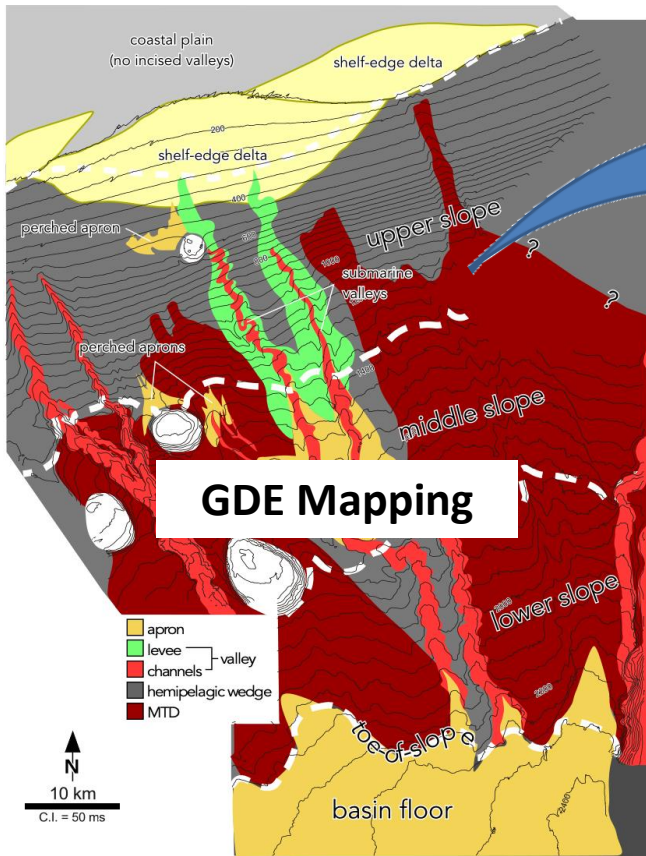
Characterize Confidence



Risk Quantification



PFA Integration: Reservoir Prediction & Uncertainty



Prediction and Uncertainty Quantification

Key Papers:

PRATHER, B.E., O'BYRNE, C., PIRMEZ, C., AND SYLVESTER, Z., 2017, Sediment Partitioning, Continental Slopes and Base-of-slope Systems: Basin Research, v. 29, p. 394-416.[doi:10.1111/bre.12190](https://doi.org/10.1111/bre.12190)

PRATHER, B.E., 2020, Controls on Reservoir Distribution, Architecture and Stratigraphic Trapping in Slope Settings, *in* Scarselli, N., Adam, J., Chiarella, D., Roberts, D.G., and Bally, A.W., eds., Regional geology and tectonics (2nd edn.), Elsevier B. V., p. 481-515.
[doi:https://doi.org/10.1016/B978-0-444-64134-2.00025-0](https://doi.org/10.1016/B978-0-444-64134-2.00025-0)

Characterization

System Net/Gross

- Gross Sediment Calibre

Slope Profile

- Graded
- Stepped above Grade
- Ponded above Grade

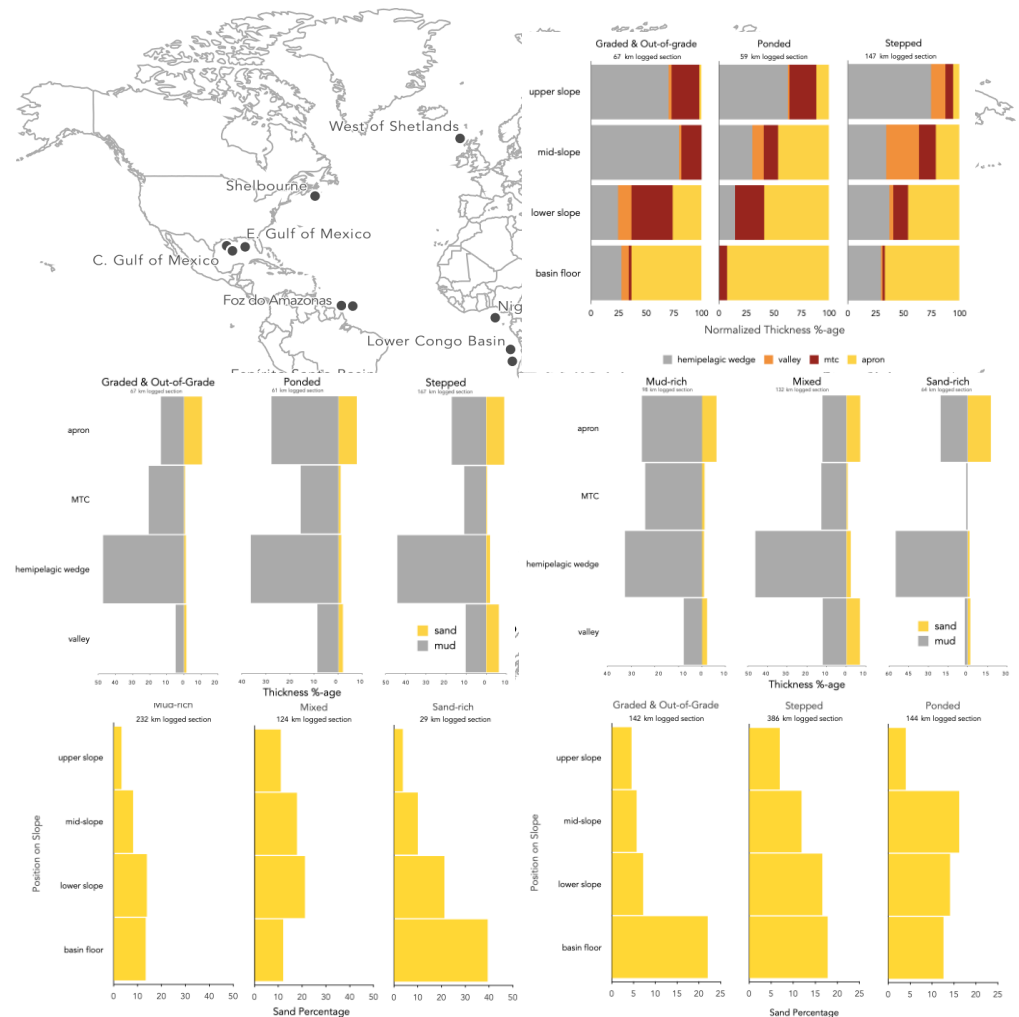
Position On Slope

- Upper Slope
- Middle Slope
- Lower Slope
- Basin Floor

Environment of Deposition

- Drape
- MTC
- Hemipelagic Wedge
- Leveed Valley
- Incised Valley
- Apron

Calibration

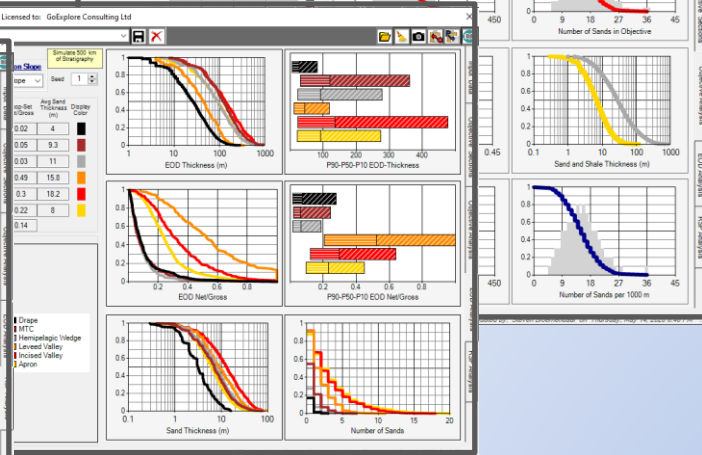
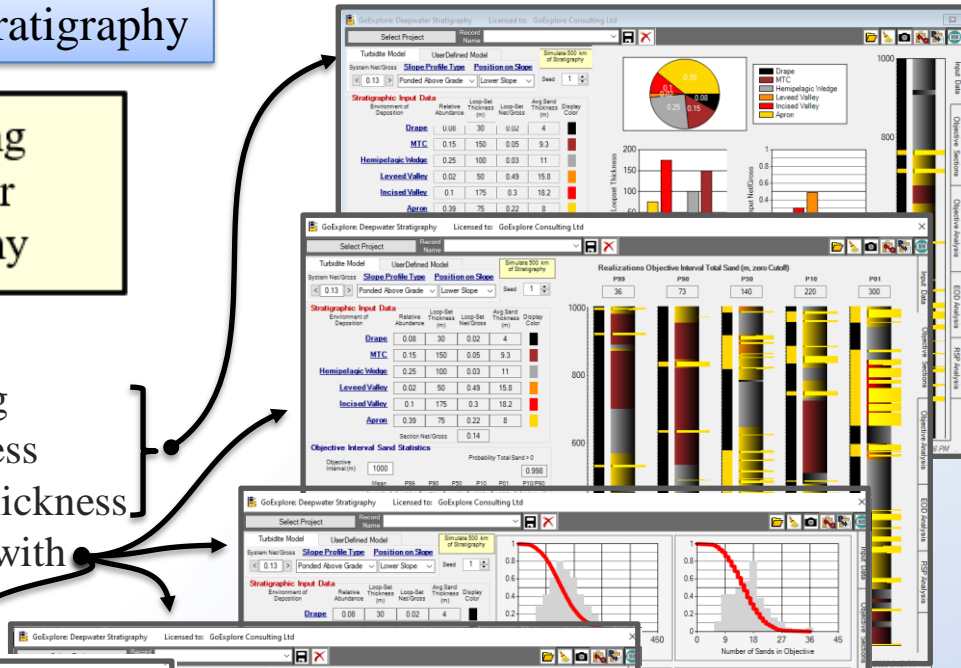
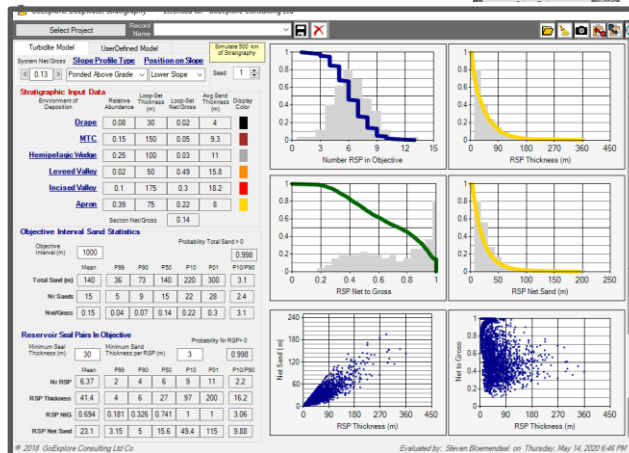


GoExplore: Deepwater Stratigraphy



Quantifying Deepwater Stratigraphy

1. Define Inputs:
 1. Geological Setting
 2. Objective Thickness
 3. Minimum Seal Thickness
2. Interrogate Simulation with Graphs and Tables



Data from the following Publication

OTC-28398-MS

A Play-Based Evaluation of a Deepwater Sabah Exploration Area: Prospect Maturation and Implications for Remaining Prospectivity

Siti Aishah Abdullah, Steven M. Barker, John Jong, Yoshiaki Watanabe, Dayang Aimi Nuraini Awang Bakar, Mohd. Asraf Khamis, JX Nippon Oil & Gas Exploration (Deepwater Sabah) Limited

We have an opportunity here and here

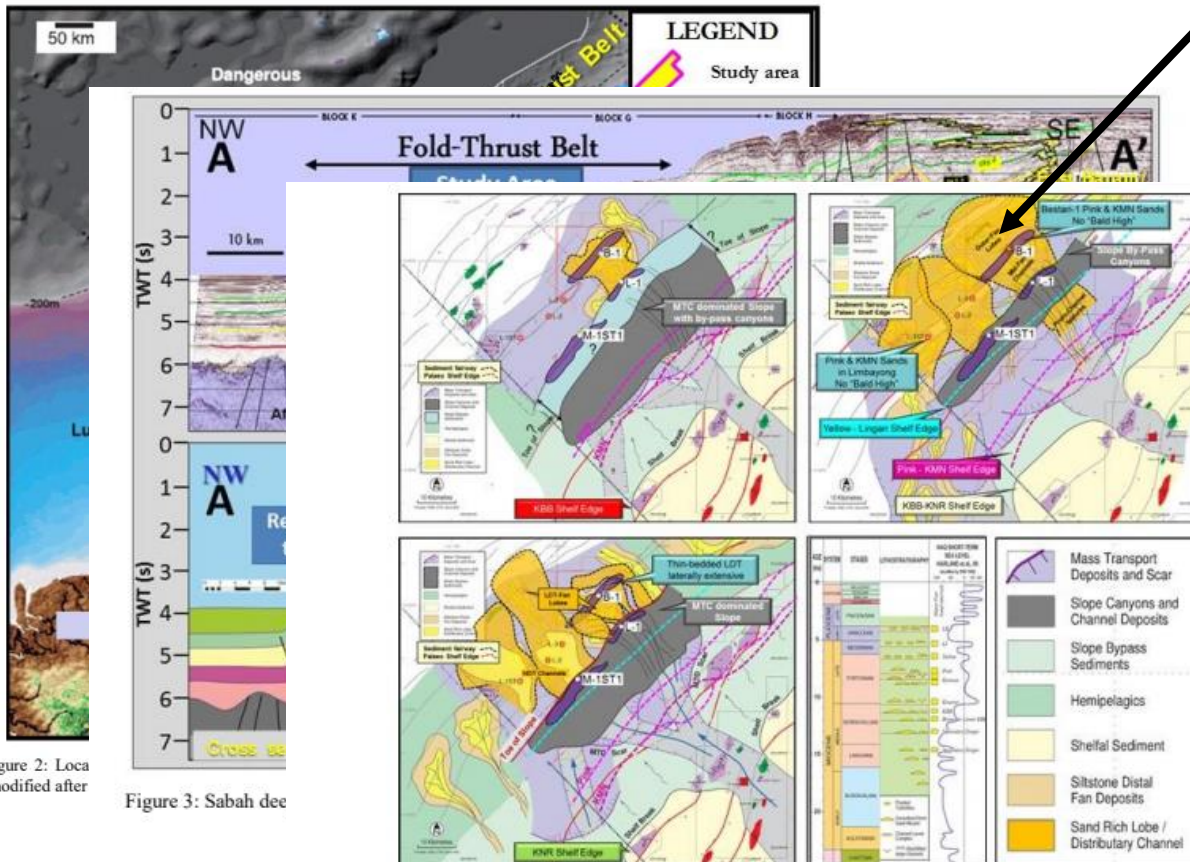


Figure 3: Sabah deep

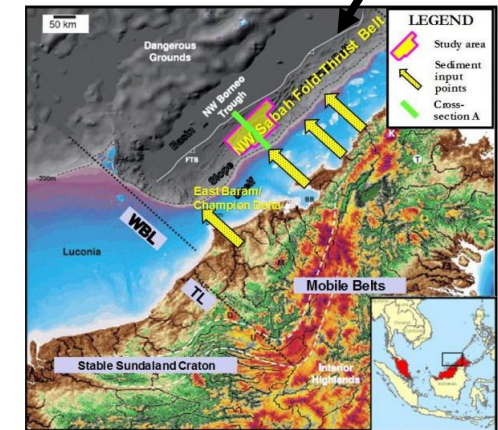


Figure 2: Location map showing the study area located in the southern part of the deepwater NW Sabah fold-thrust belt (modified after Cullen, 2010).

What is the Reservoir and Volume Potential ?

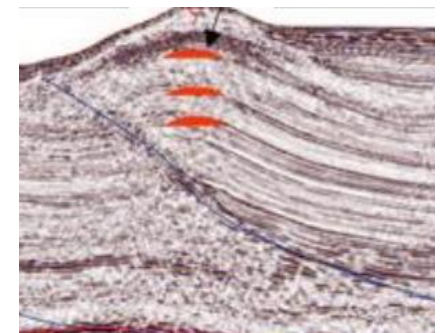
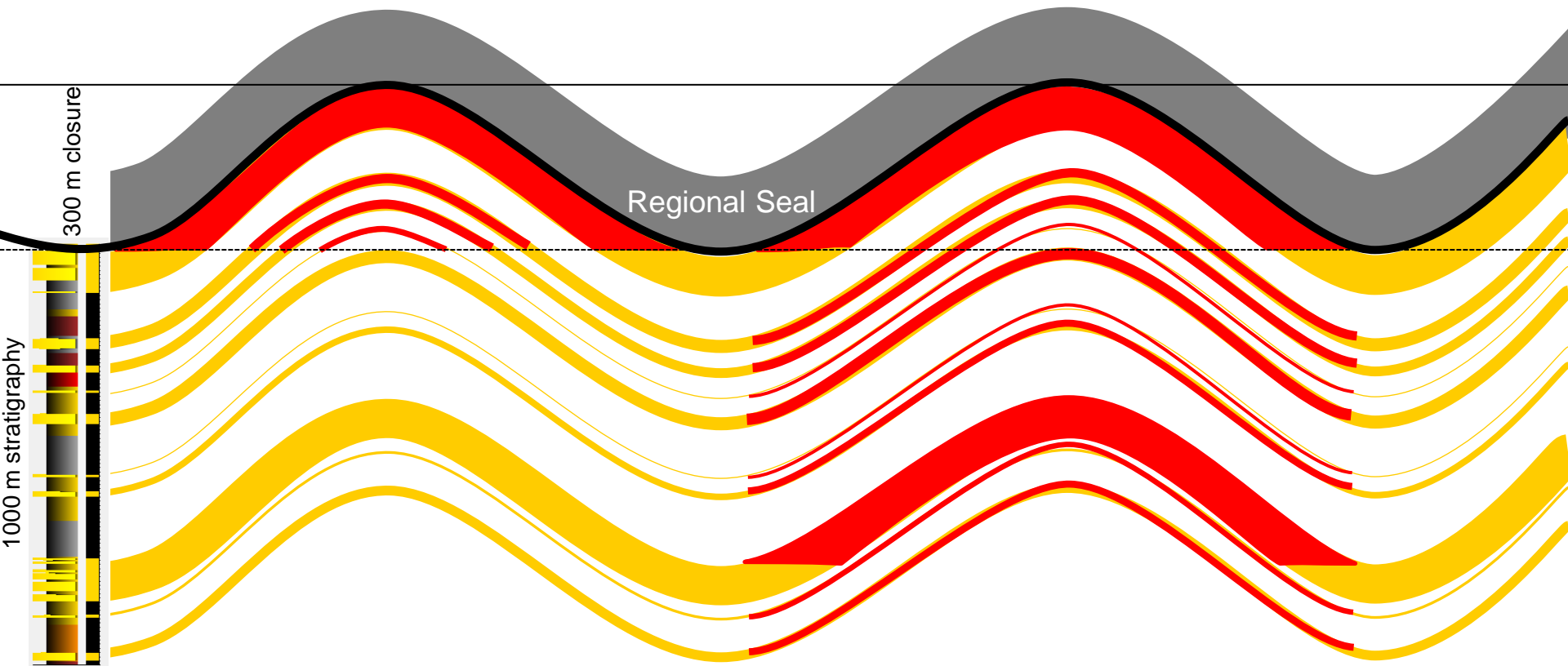


Figure 12: GDE mapping based on well data and seismic attribute integration for key fan intervals (after Jong et al., 2016).

Figure 2: Loca (modified after

Reservoir below
One Regional Seal

Multiple Reservoir-Seal Pairs
with Intra-formational Seals



We offer a:

- 3-day course on **Quantitative Prospect Evaluation**
- 3-day or 5-day hands on course on **Play Based Exploration.**
- 3-day course on the **Practice of Seismic Stratigraphy**
Contact www.carterrageo.com

GoExplore

Techniques for Quantitative Prospect Evaluation

10. Lookback Analysis

11. Play Mapping

12 Prospect Risk & Volumes

Prospect Portfolio

The Practice of Seismic Stratigraphy

Learning Outcomes:

1. Understand the role GDE maps play in frontier exploration
2. Achieve a general understanding of deepwater depositional models.
3. Learn how to classify slope systems
4. Practice classification and mapping of seismic facies, interpreting environments of deposition, and developing depositional models.
5. Apply seismic stratigraphic concepts in an analysis of deepwater systems.
6. Strengthen confidence in using depositional models to assemble appropriate analogs to benchmark distributions used as part of play and prospect evaluation processes.

You can download the Application at: www.goexplore.consulting

Contact: Bloemendaal@GoExplore.Consulting



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Free Friday Webinars
Any Questions ?



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Thank You