



IMPACT OIL & GAS LIMITED

The Aptian couplet: an emerging exploration theme around southern Africa

presentation by

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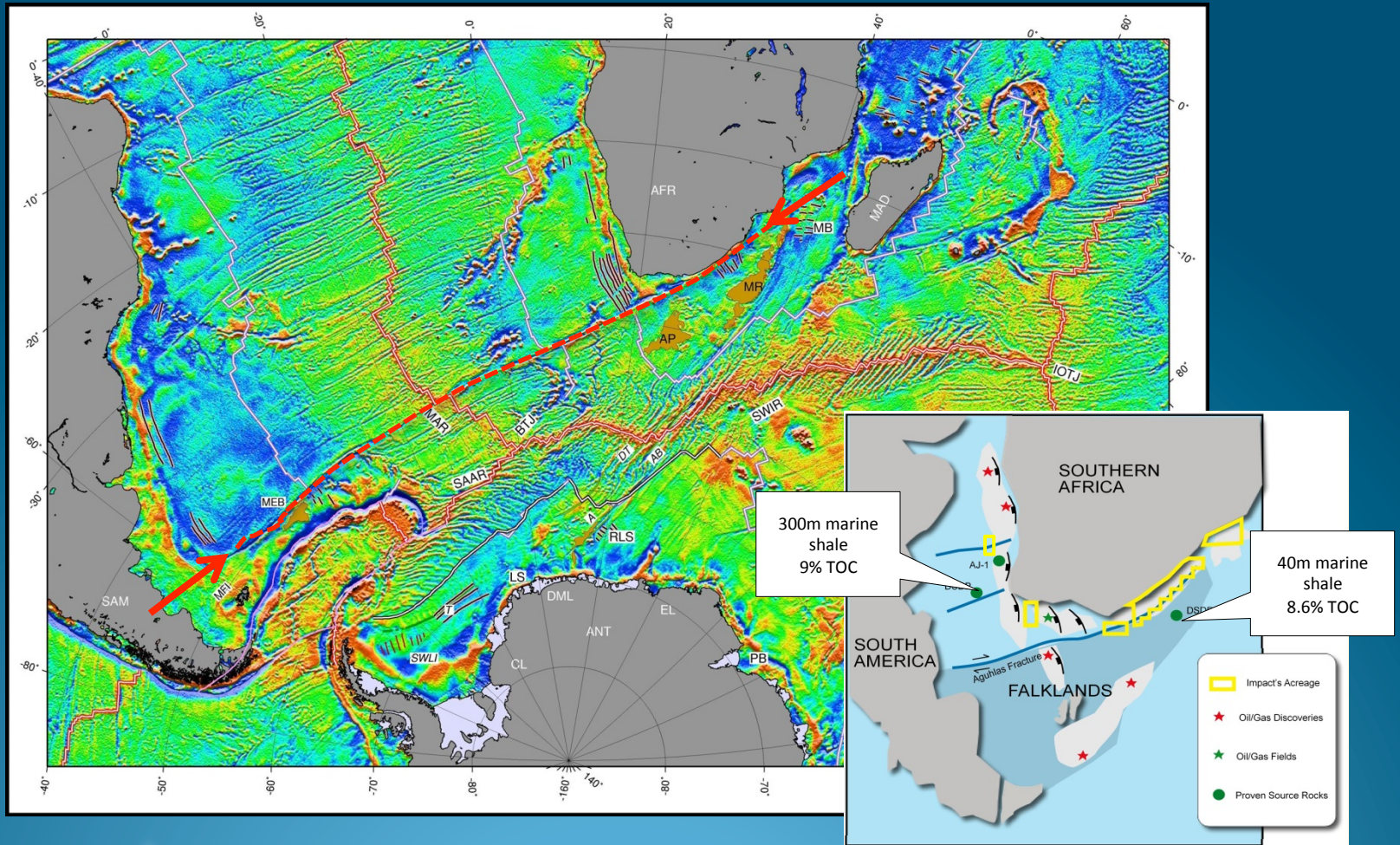
Finding Petroleum 28th January 2015



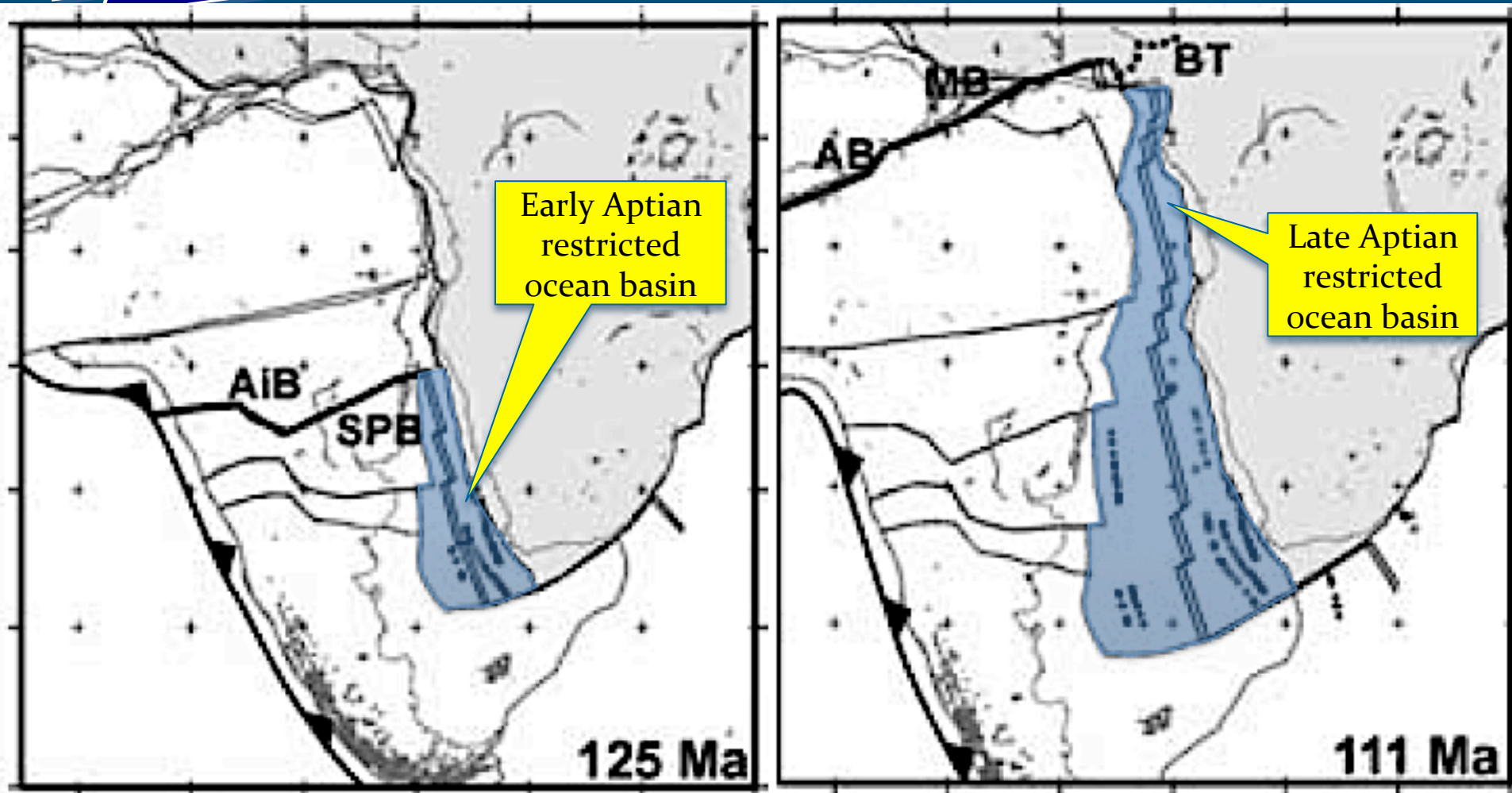
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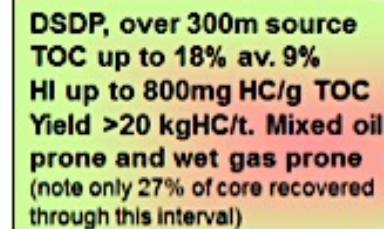
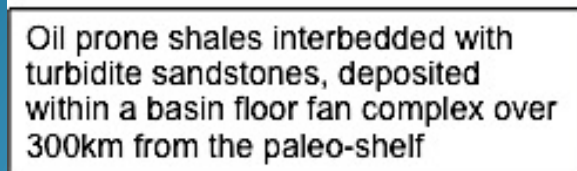
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Early Cretaceous opening of S. Atlantic along Agulhas-Falklands transform fault

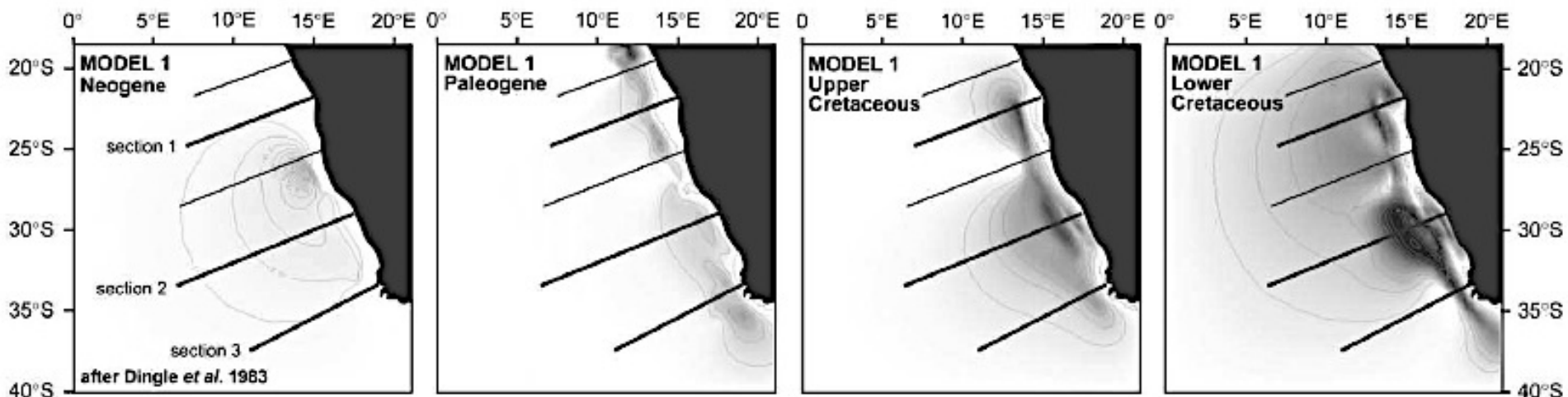
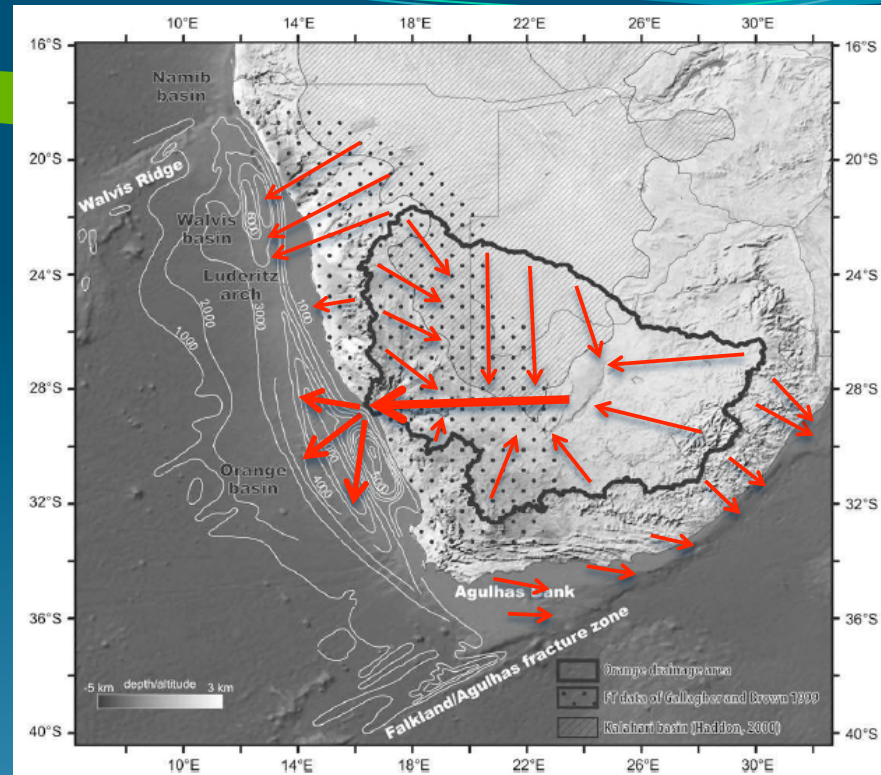
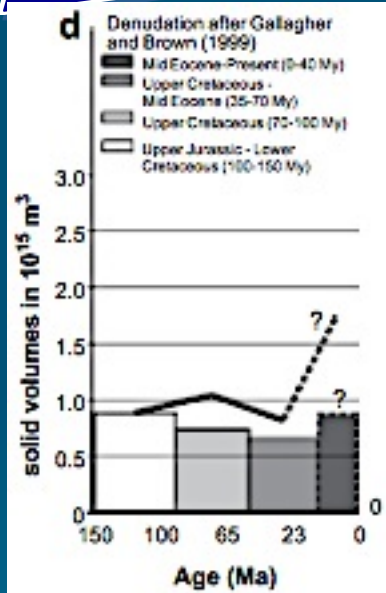


Northward unzipping of S. Atlantic during Aptian ---segmented by offsetting shear zones





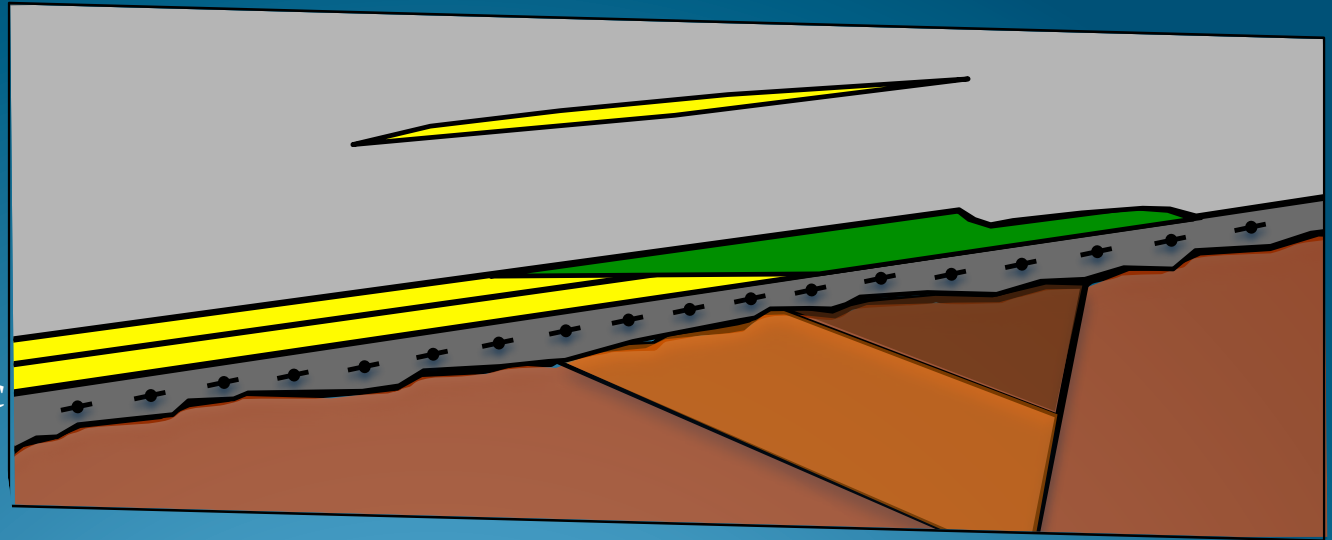
Southern Africa >2km Aptian flexural uplift





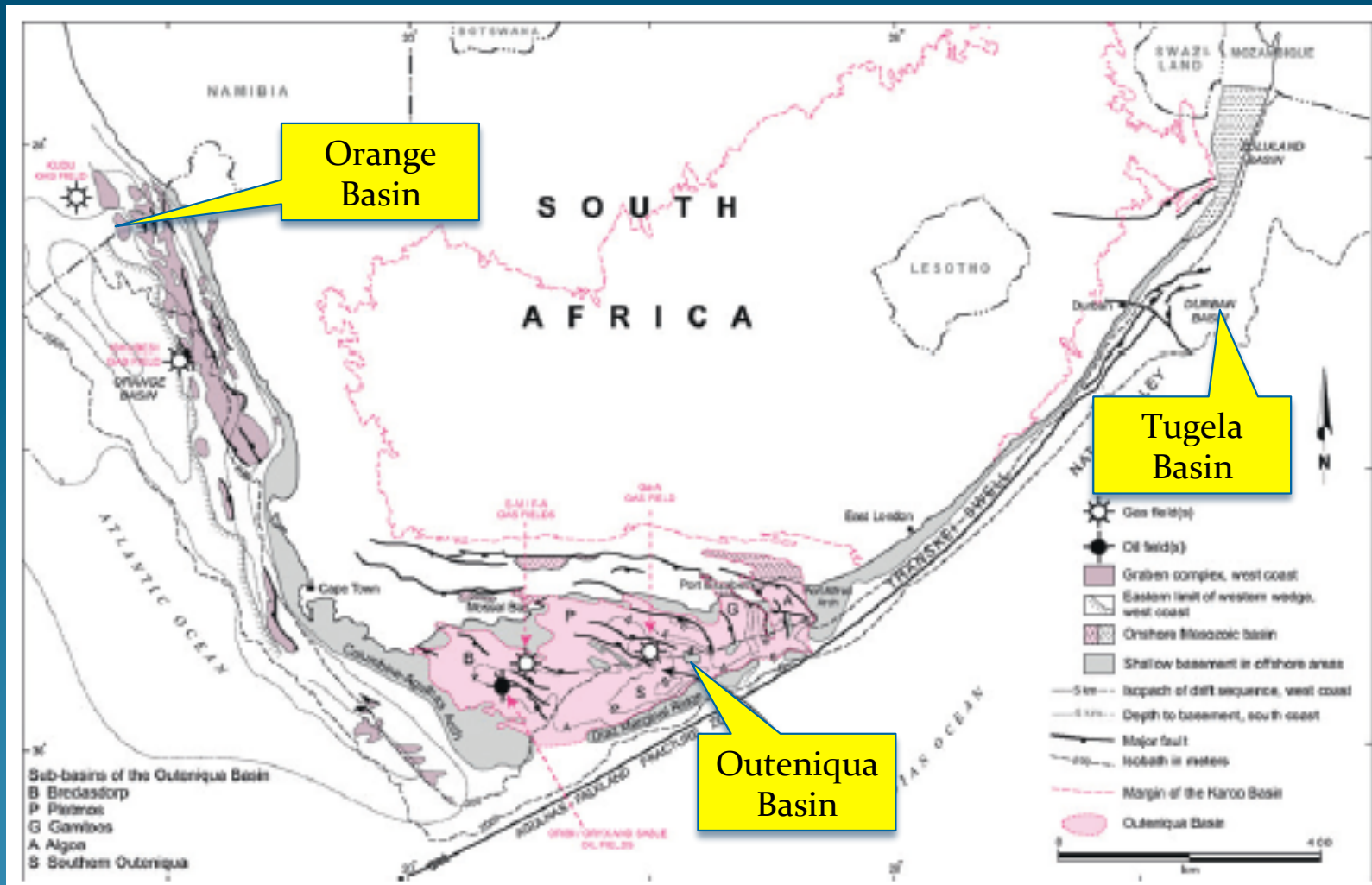
So what's the Aptian couplet?

Upper Aptian Reservoir
Lower Aptian Source ^{u/c}

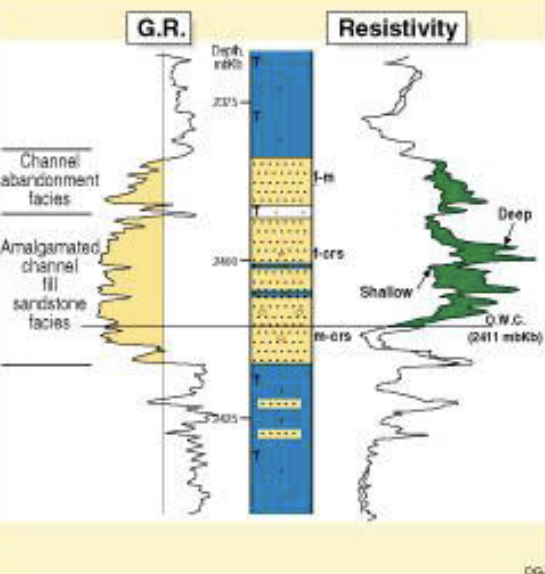




Southern African Basins

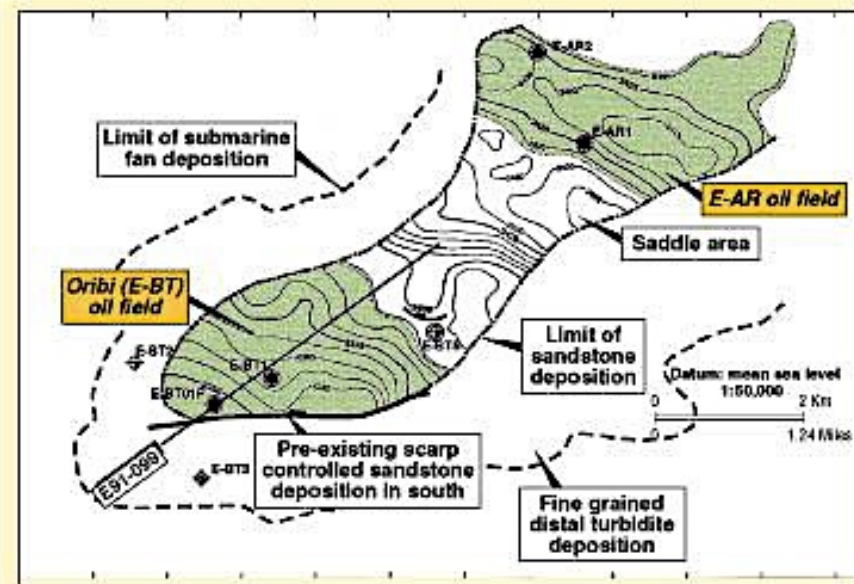


ORIBI RESERVOIR IN E-BT1 WELL



Bredasdorp Basin: Sable Field

DEPTH MAP OF TOP RESERVOIR IN ORIBI/E-AR AREA



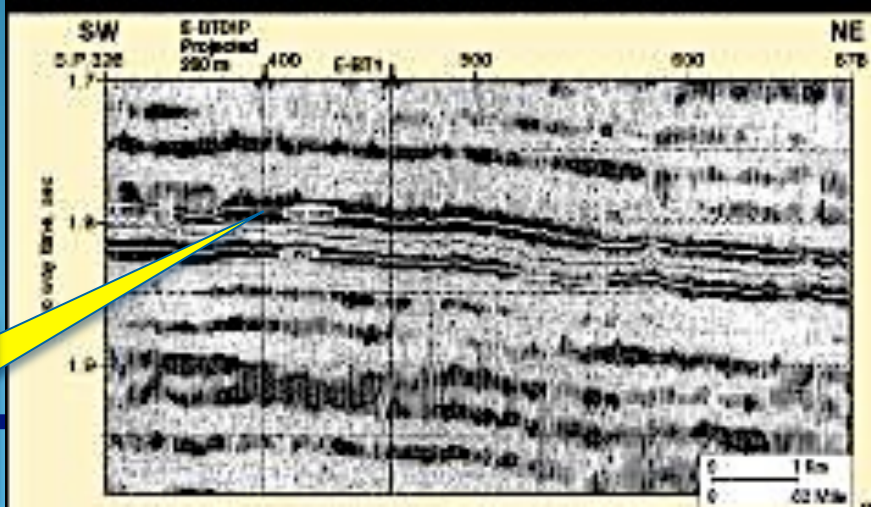
- Oil Production from Aptian basin floor fan sands
- 27m net sand with 42 API oil
- Ave porosity 18%, Ave permeability >500md
- STOIIP 47-74 MBO
- 8400BOPD + 3.4mmscfgd

AMPLITUDE MAP OF TOP RESERVOIR

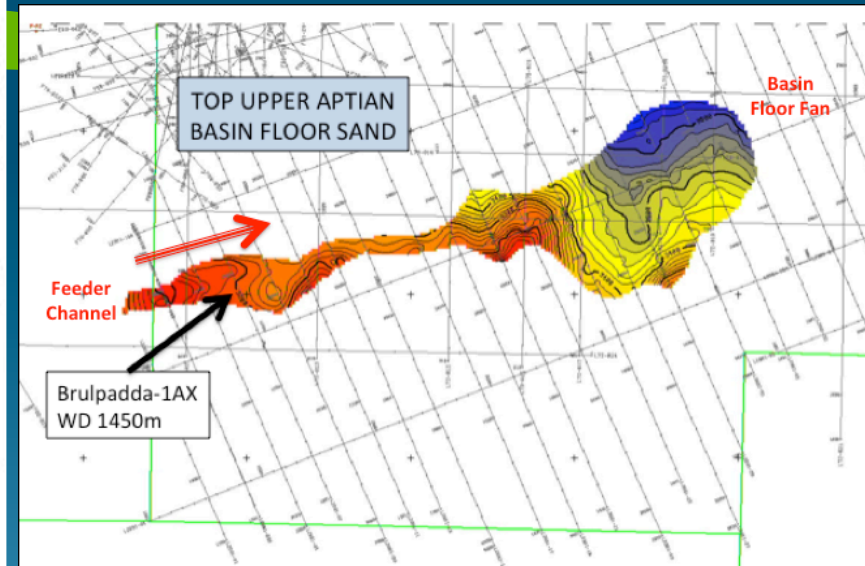
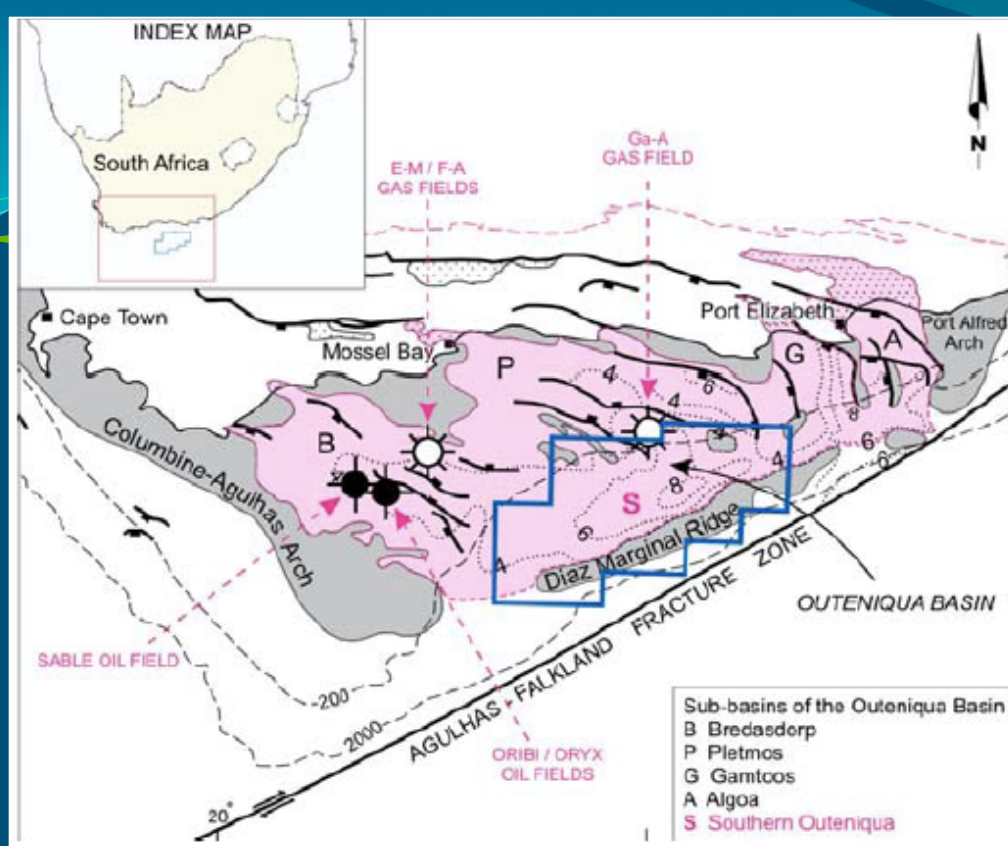


Amplitudes conformable with structure

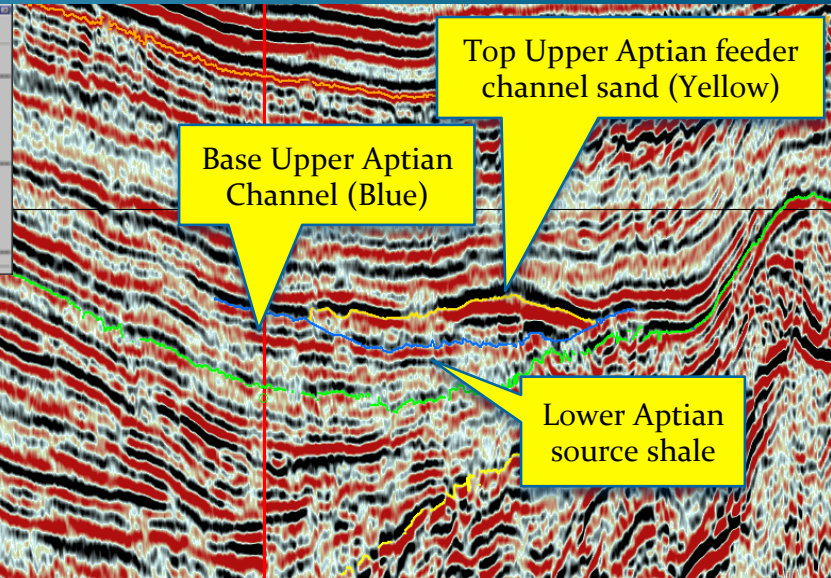
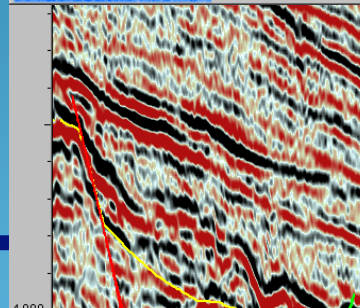
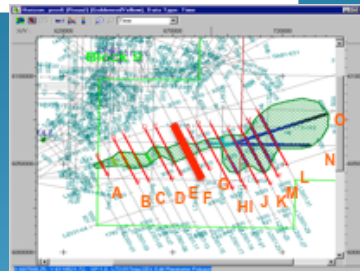
LINE E-91-099 THROUGH ORIBI (E-BT) FIELD



Deep Outeniqua Basin Paddavissie Prospect

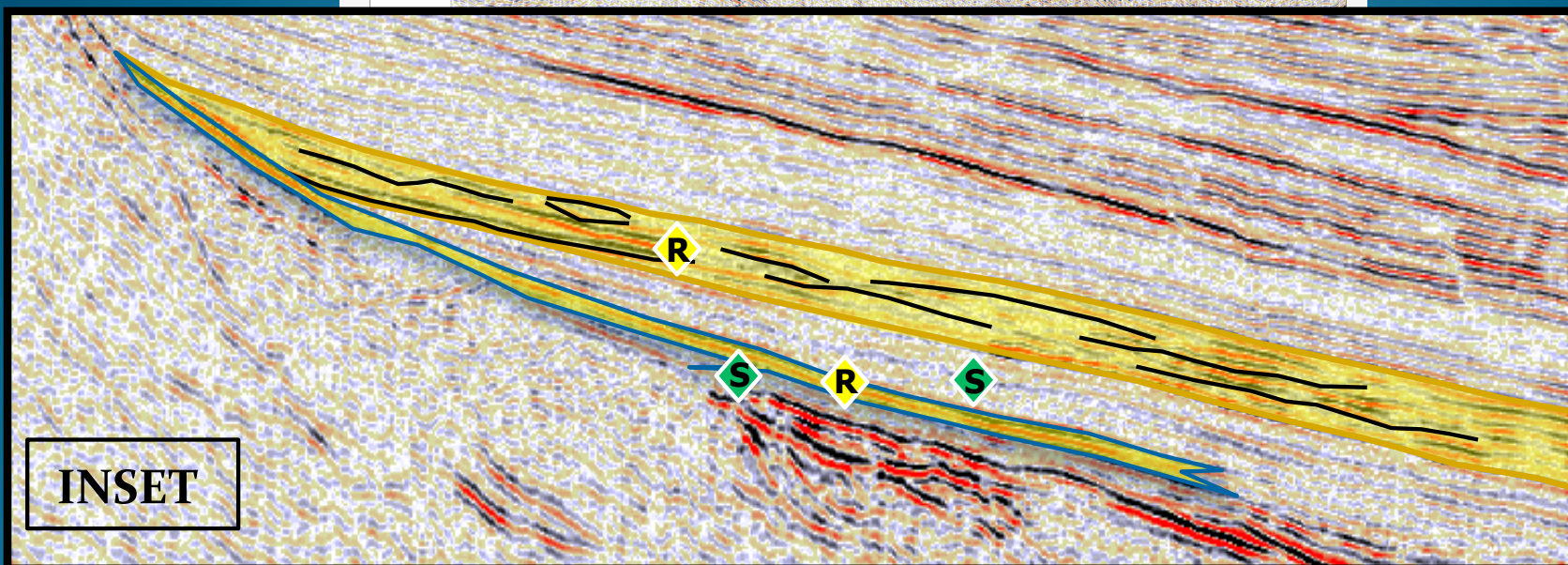
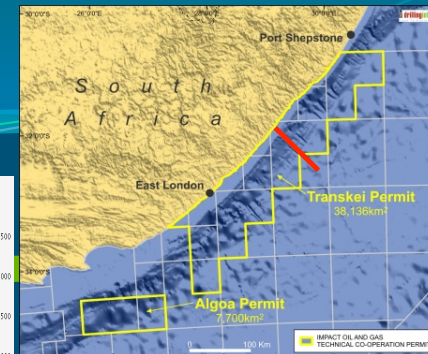
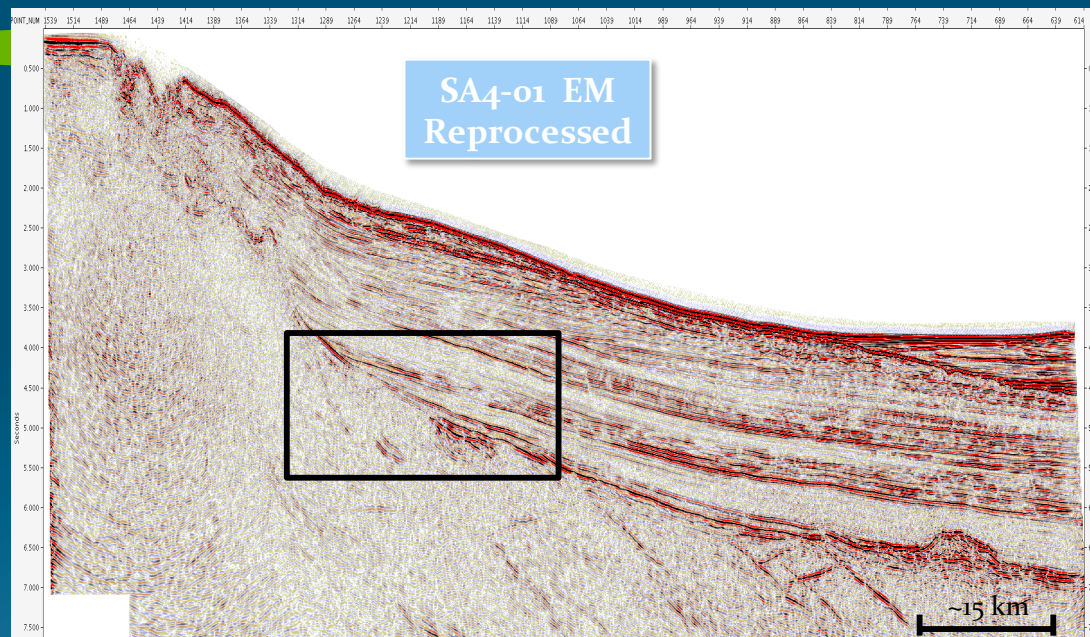


- Upper Aptian basin floor fan
- Drape over basement high
- Sourced by Lwr Aptian shale
- Amplitude supported (channels)
- >1500 Sq Km closure
- Billion barrel reserves potential
- Brulpadda -1AX abandoned due to operational difficulties 2014

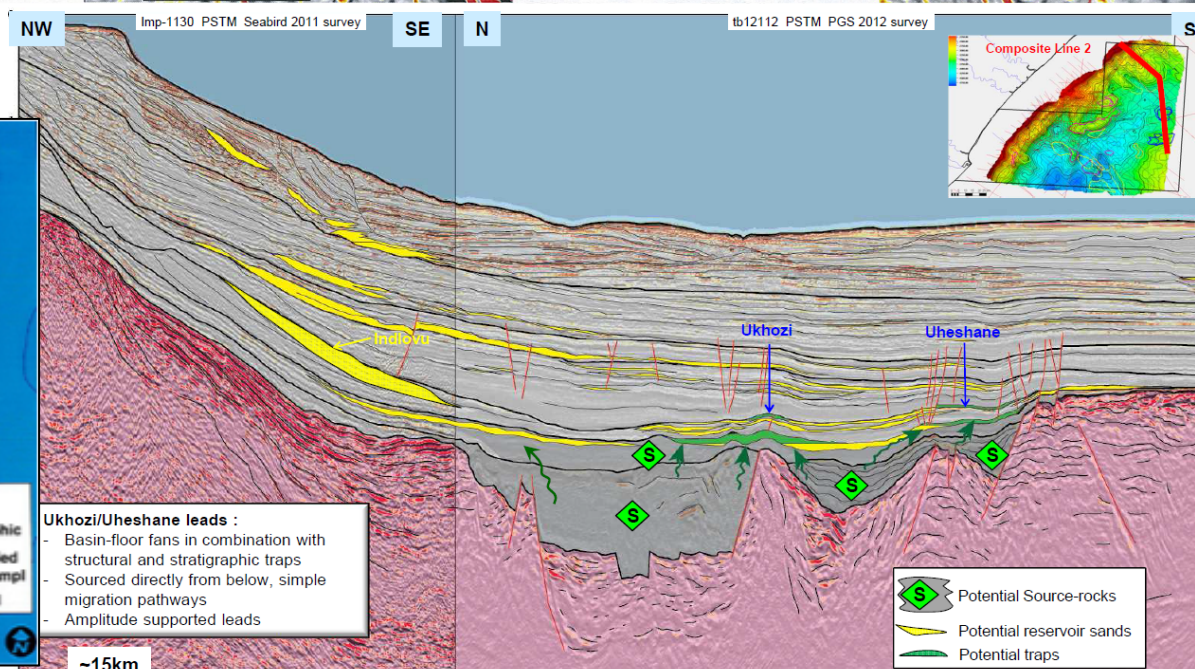
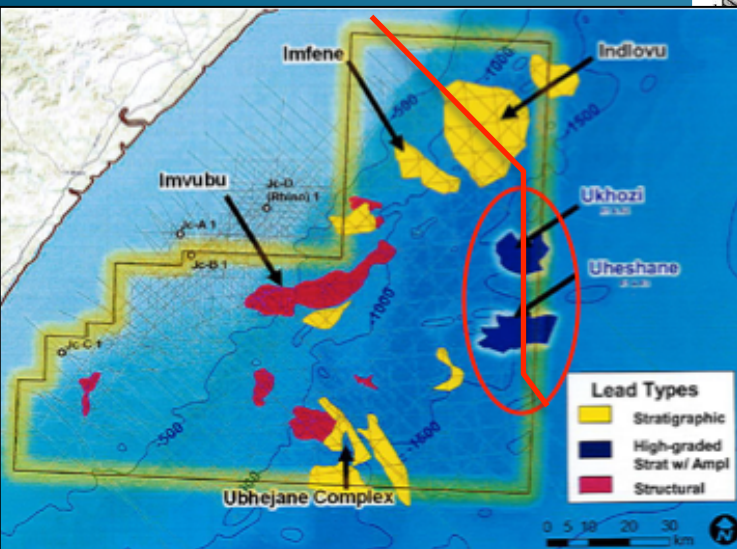
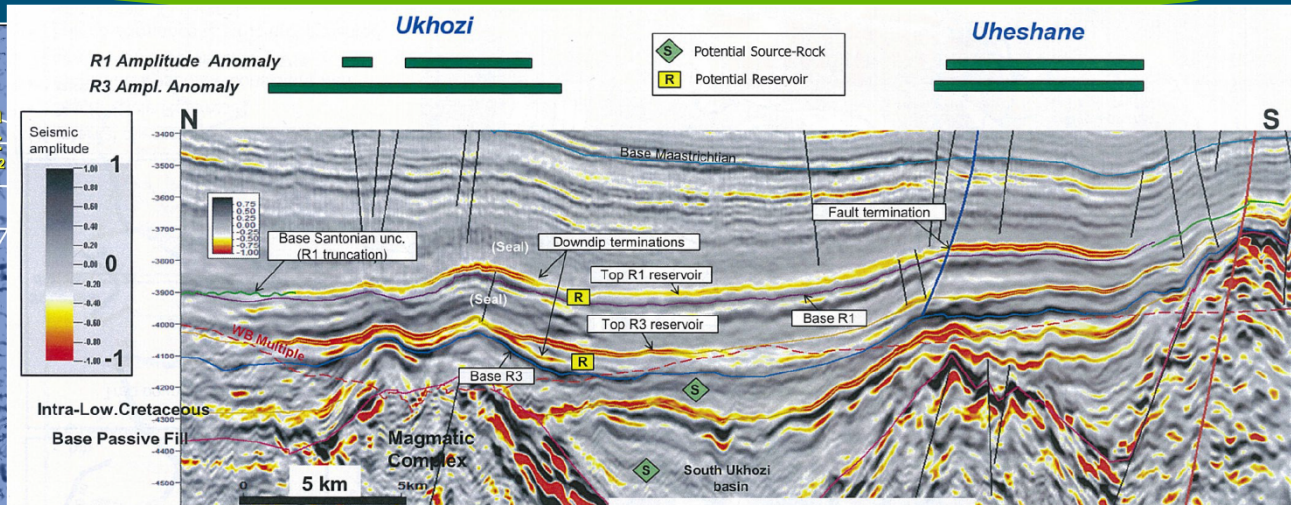
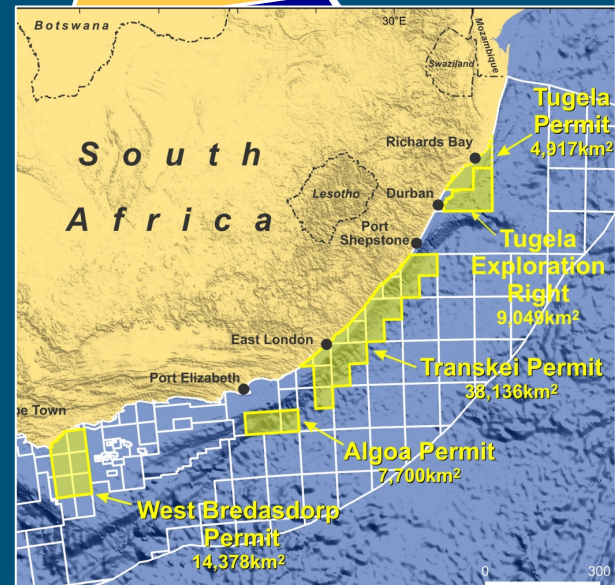




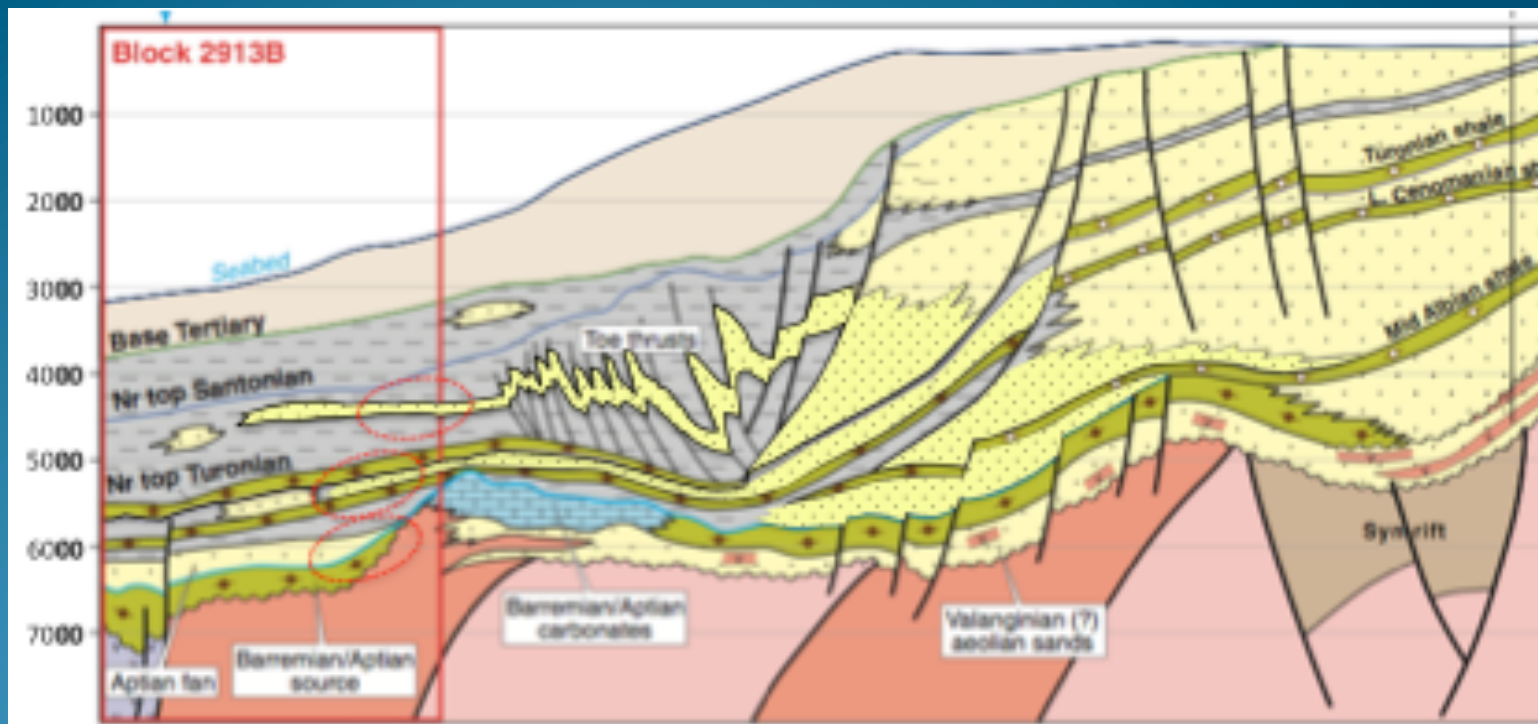
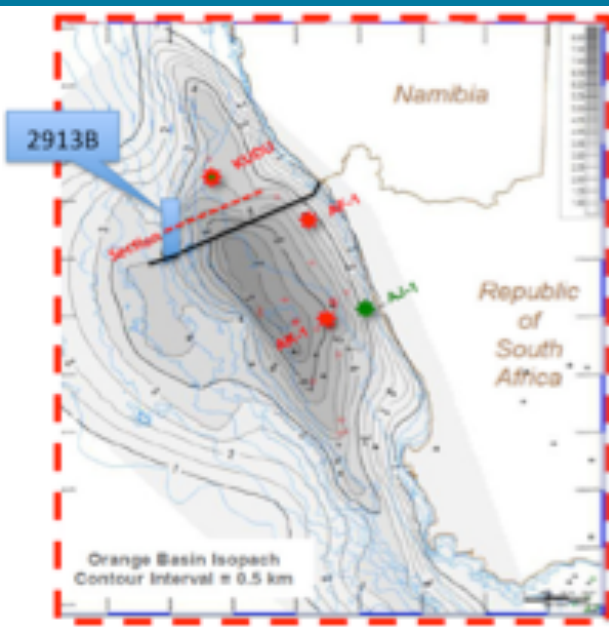
Transkei Margin

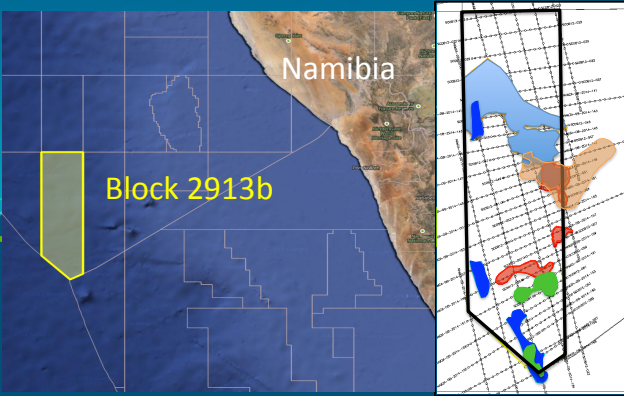


Tugela Exporption Right



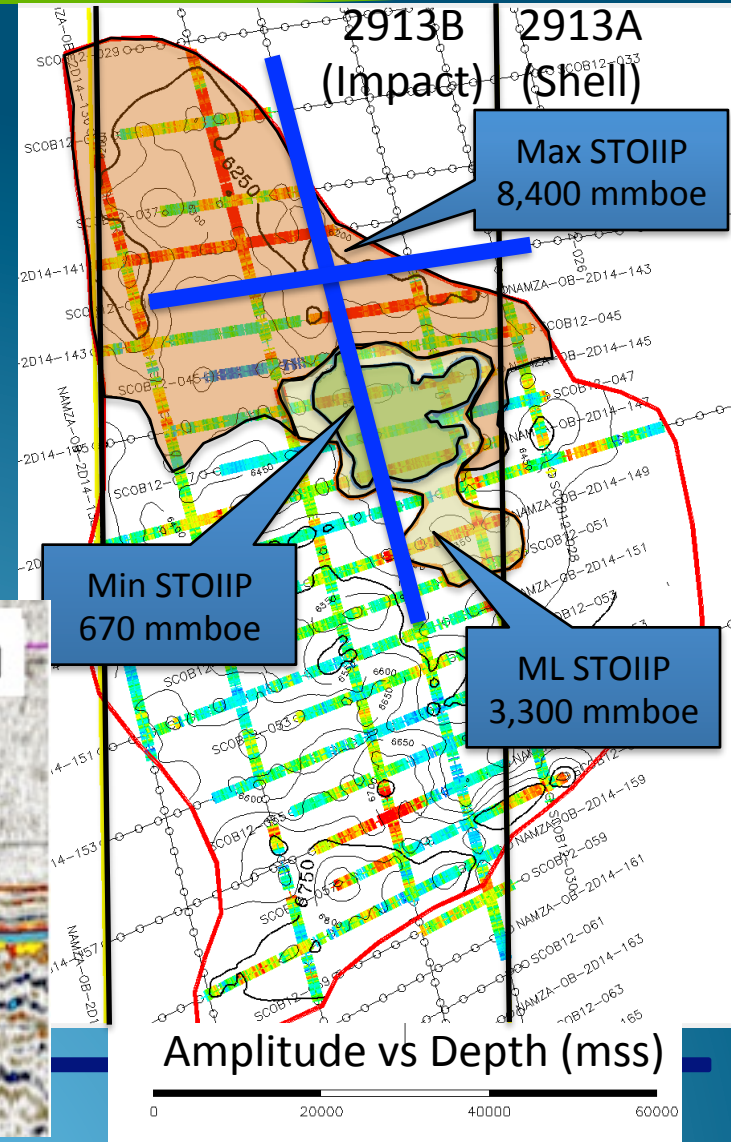
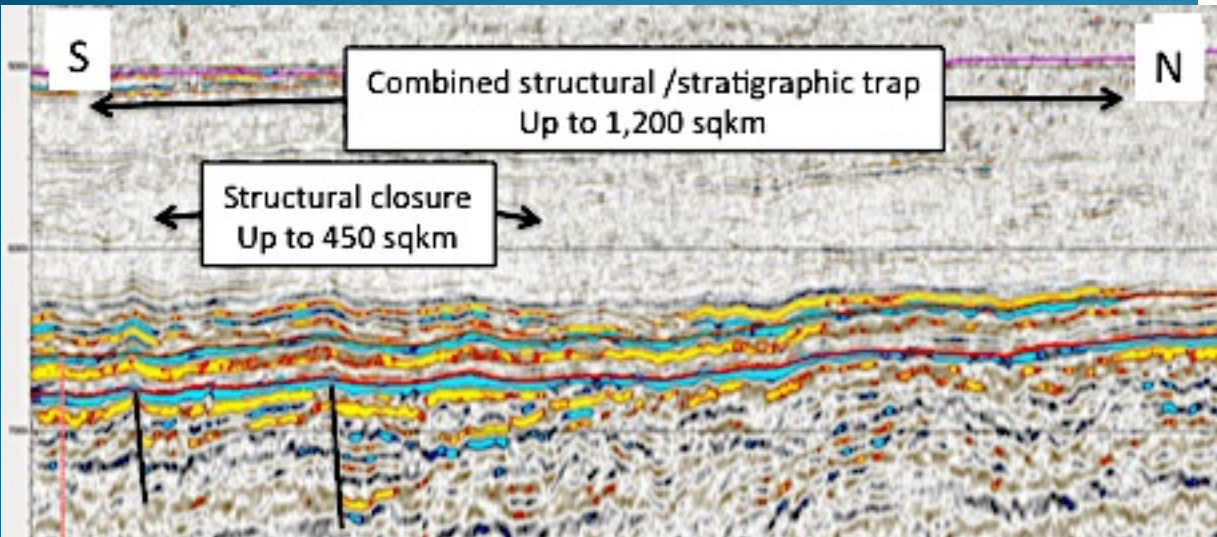
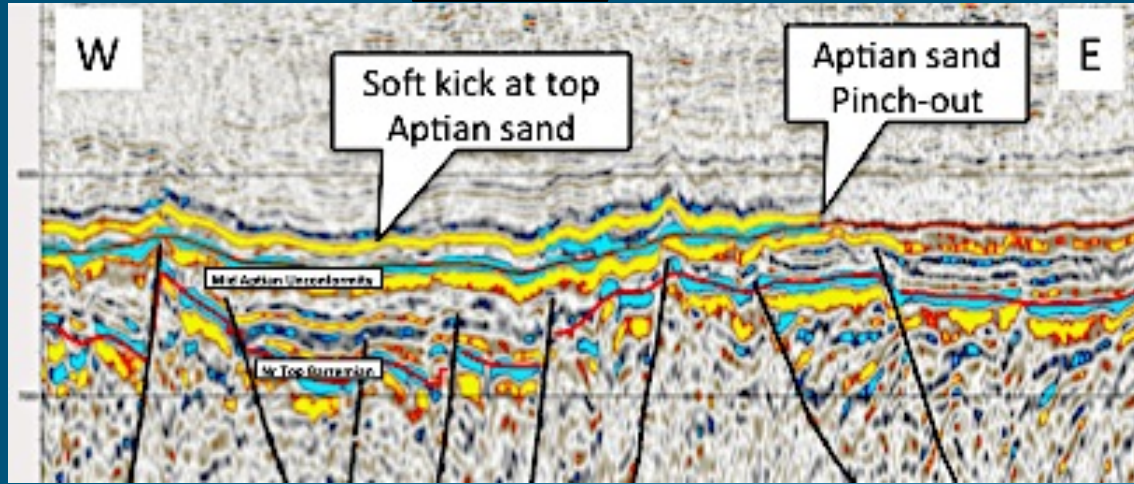
Outer Orange Basin





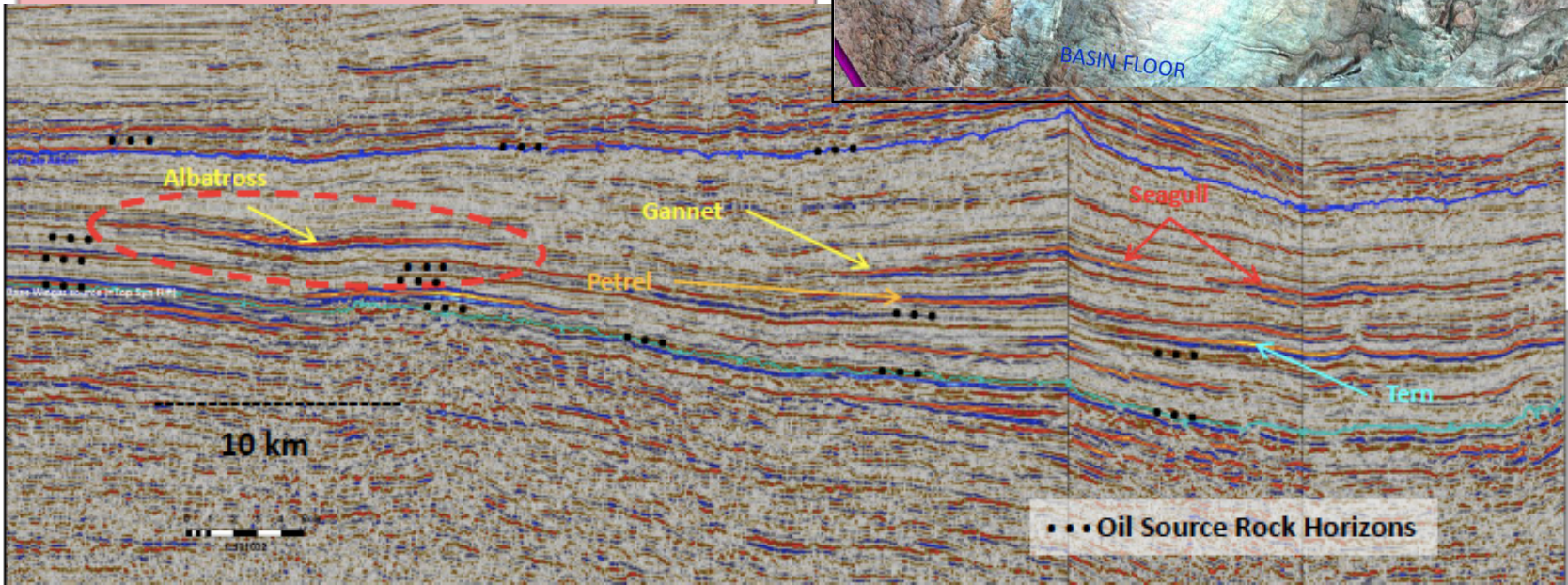
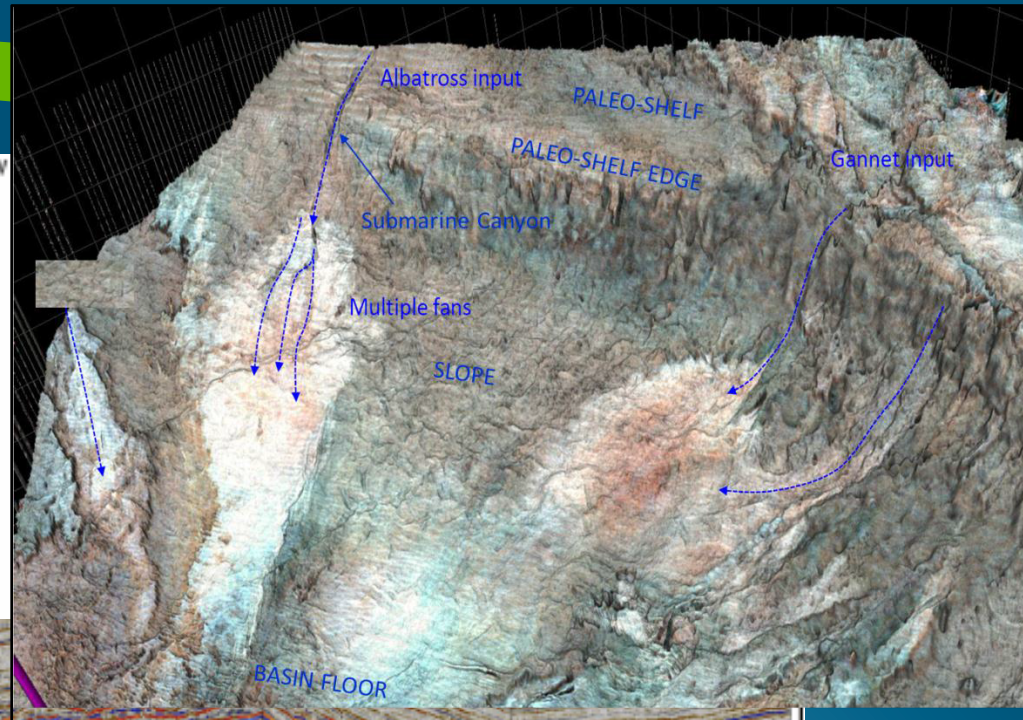
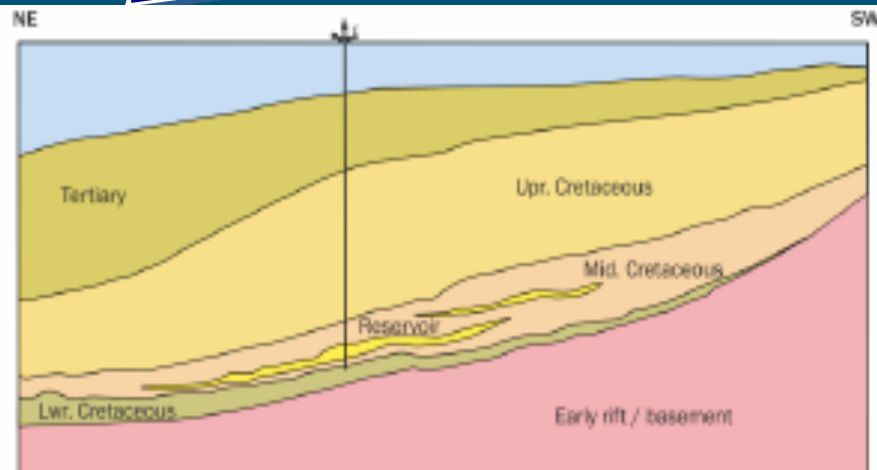
Namibia Block 2913B

Upper Aptian



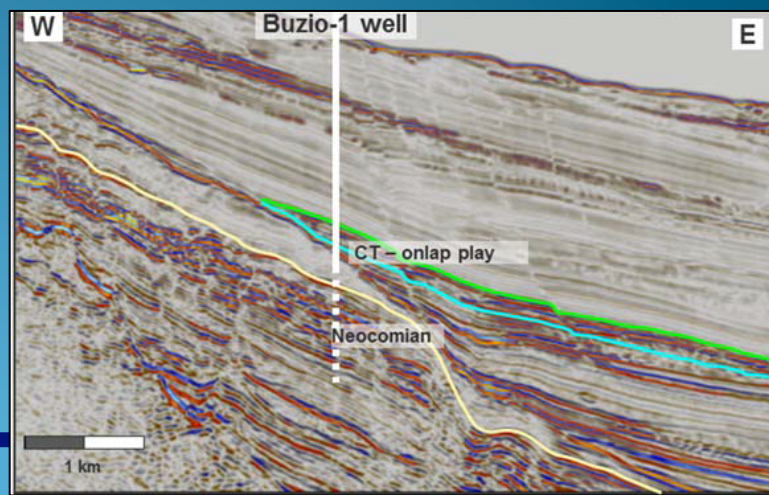
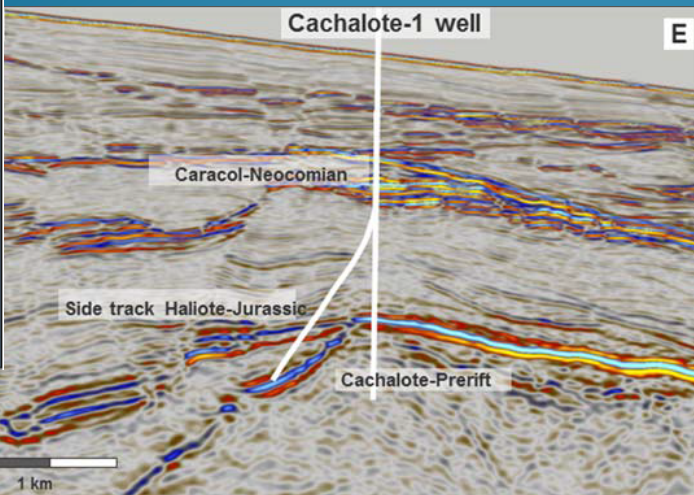
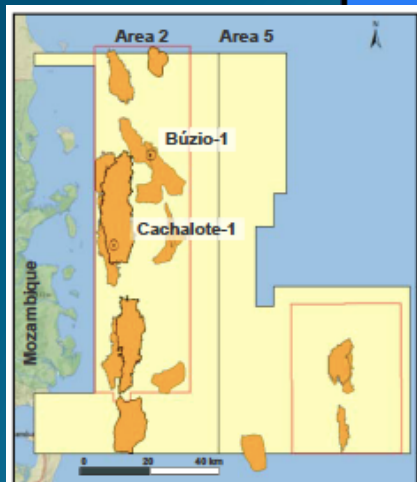
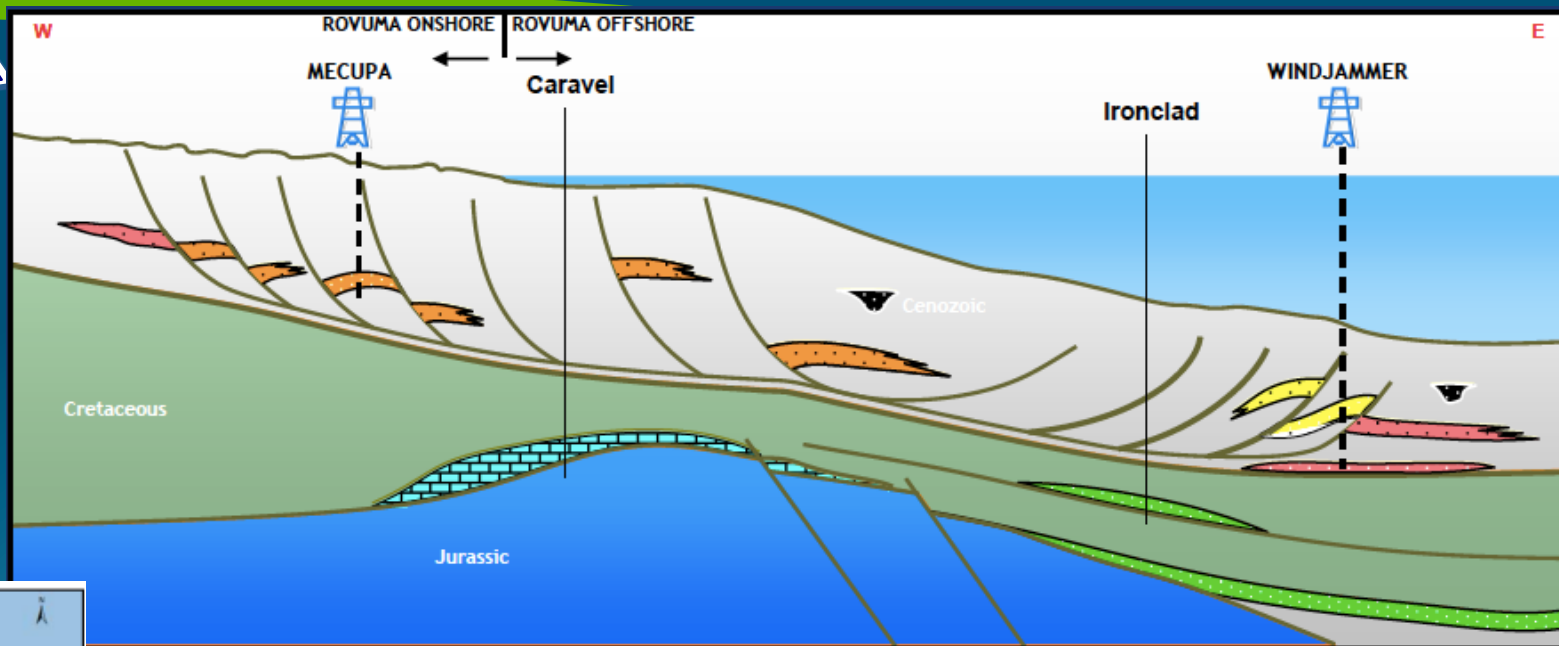
Walvis Basin: Tullow Albatross prospect

Pmean reserves 422 MBO





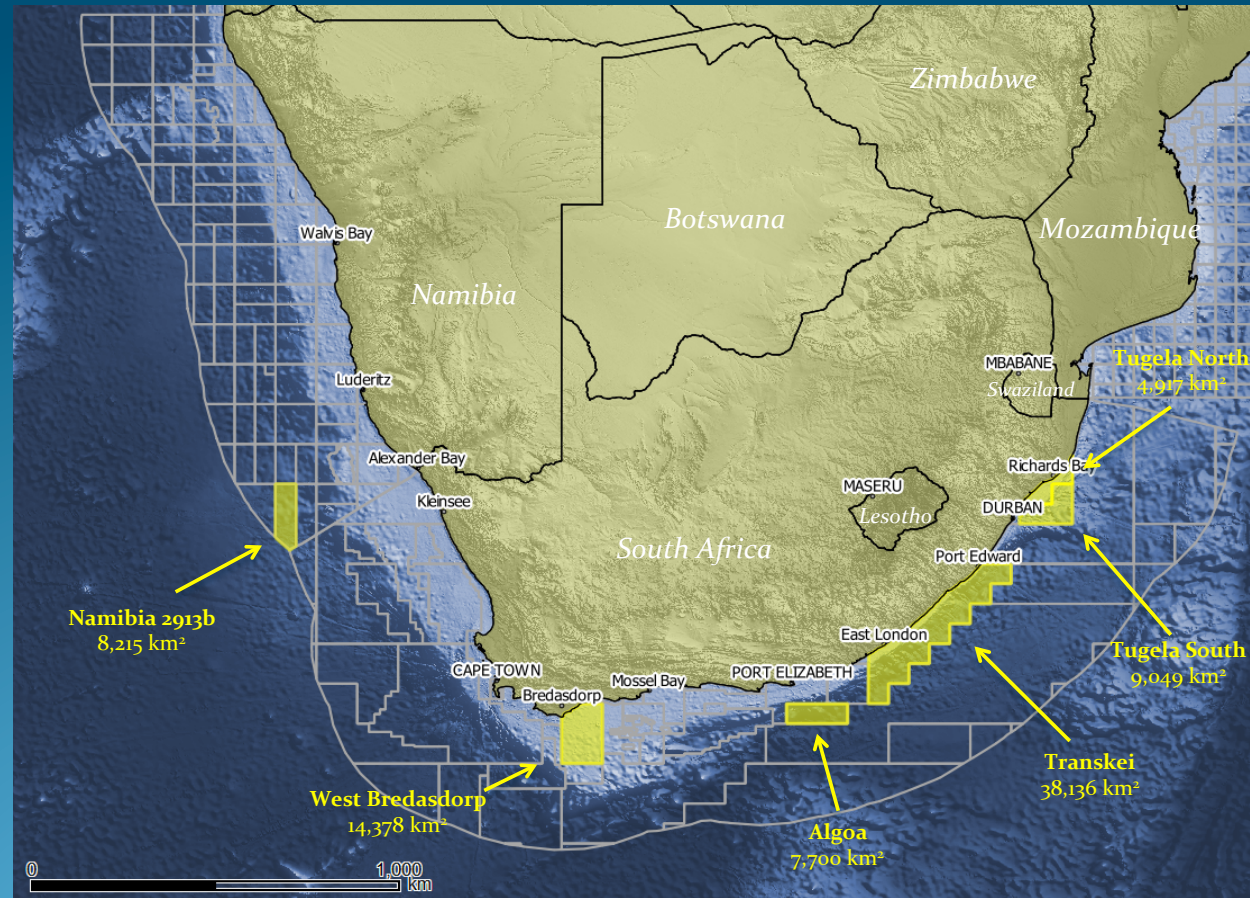
Aptian Prospectivity in Mozambique??





Conclusions

- Emerging oil play: U. Aptian basin-floor fan sands over L. Aptian organic marine shales.
- Proven in shallow water Uteniqua Basin.
- Highly material prospects and leads in deep-water basins.
- Play probably limited in north by U. Aptian sand distribution.
- Impact O&G has five well-positioned exploration licenses.





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