



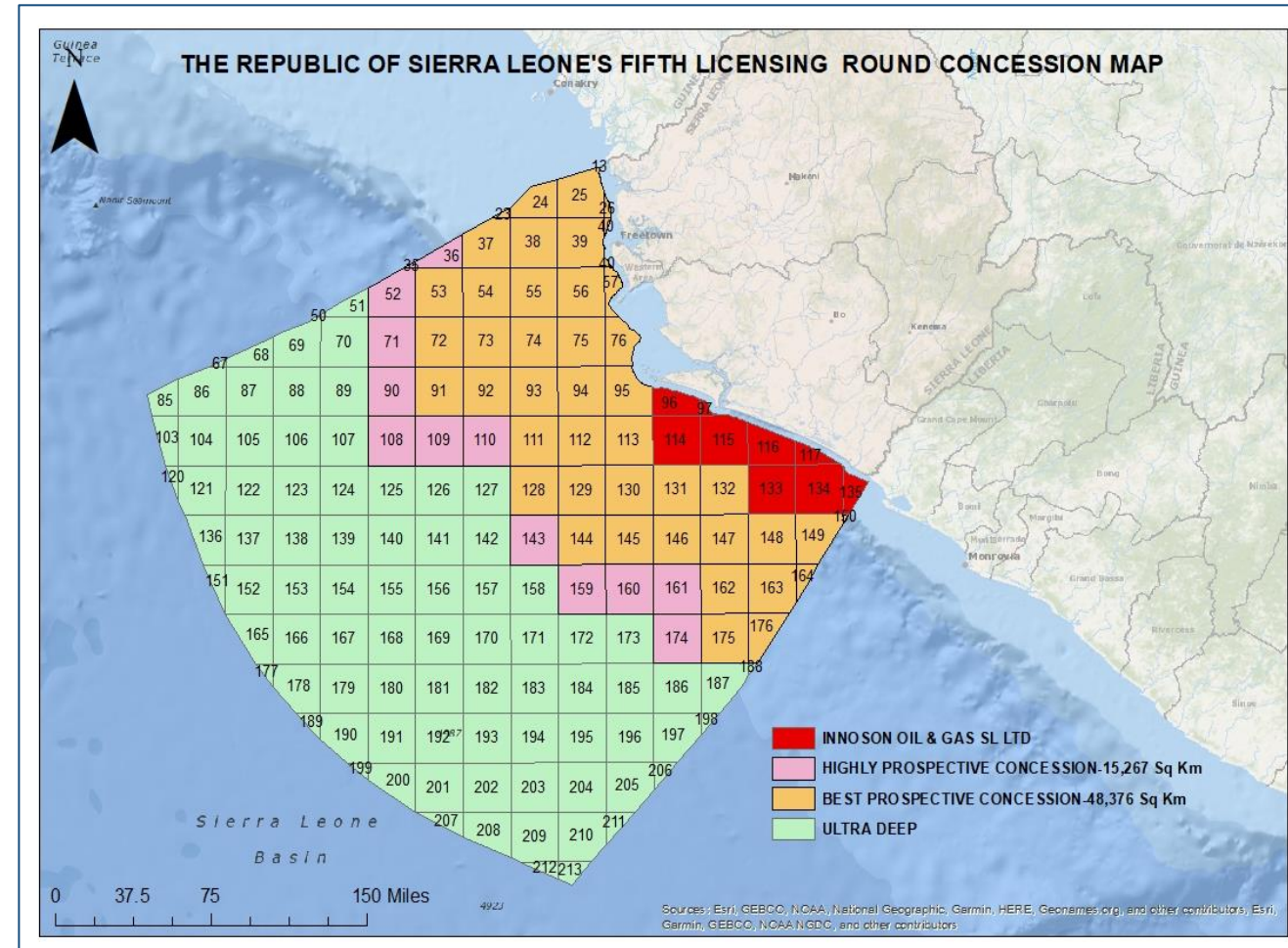
Office of the President

Republic of Sierra Leone Fifth Offshore Licensing Round

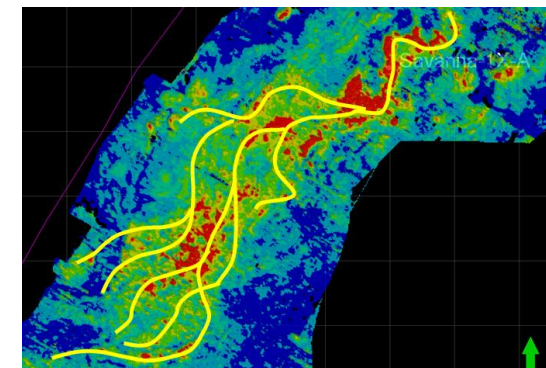
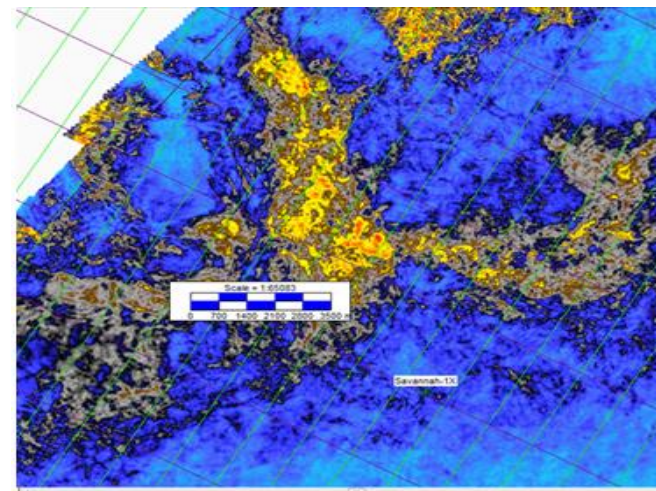
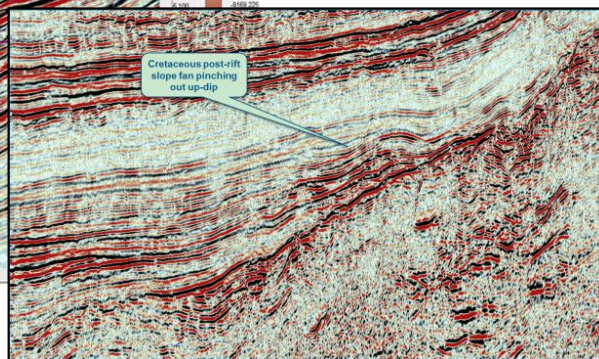
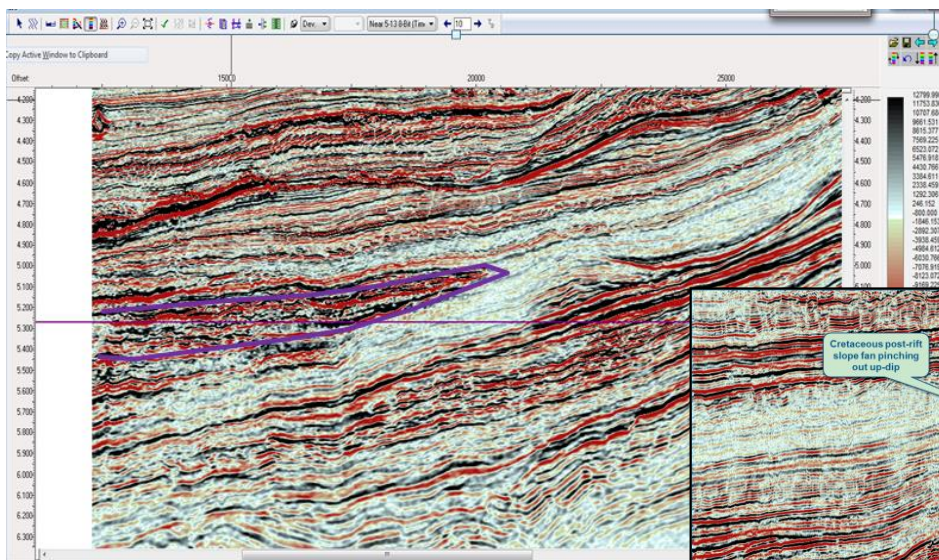
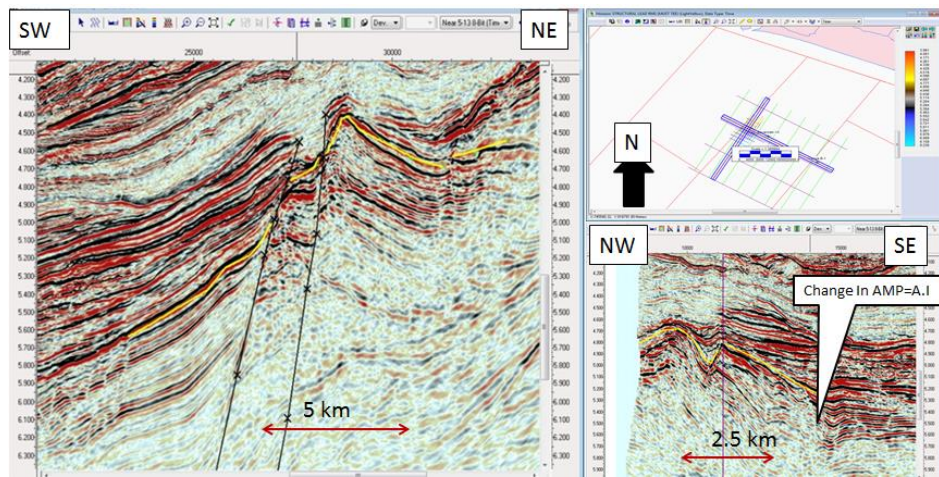
Presented By: Petroleum Directorate of Sierra Leone

The Republic of Sierra Leone Fifth Licensing Round – Contract Areas on Offer

- Offshore covers approximately 170,000 km², with 140,000 km² of offshore open acreage available
- MSGBC and Guyana-Suriname Basins are developing oil and gas from Cretaceous reservoirs. Sierra Leone is along trend with **63,643 km²** of acreage open for the Fifth Licensing Round
- After a block re-demarcation in 2018, the PDSL now has a series of smaller blocks that align with the ECOWAS north-south grid system
- 56 Graticular Blocks are on offer for the Fifth Licensing Round. Each block is approximately 1,360 km²
- Minimum of Three (3) Graticular Blocks constitute a Contract Area

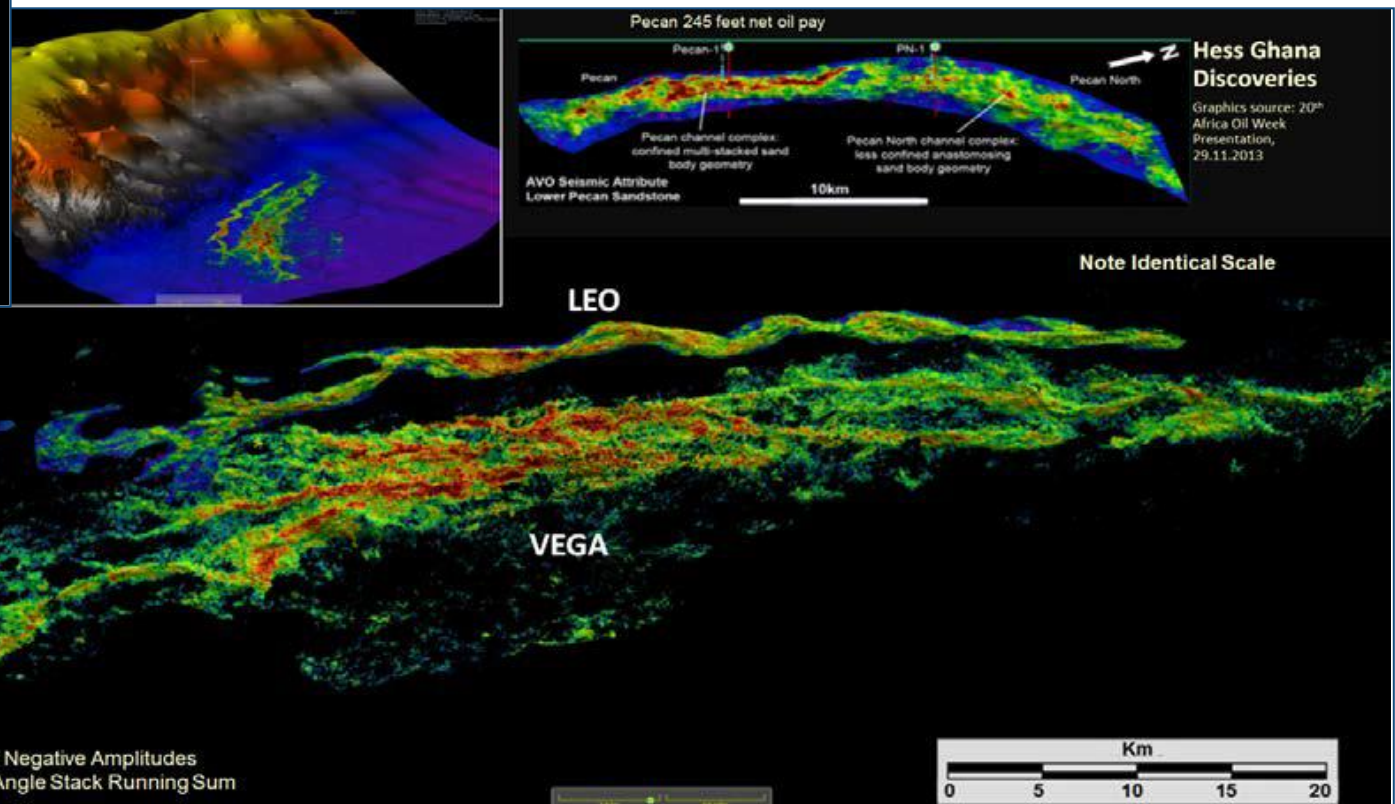
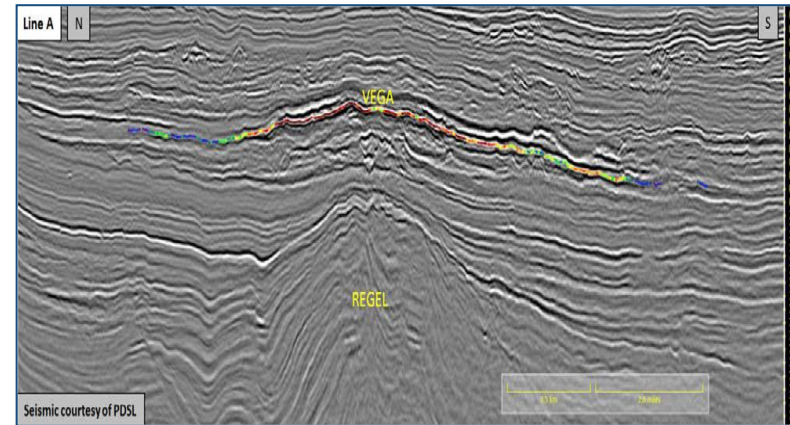
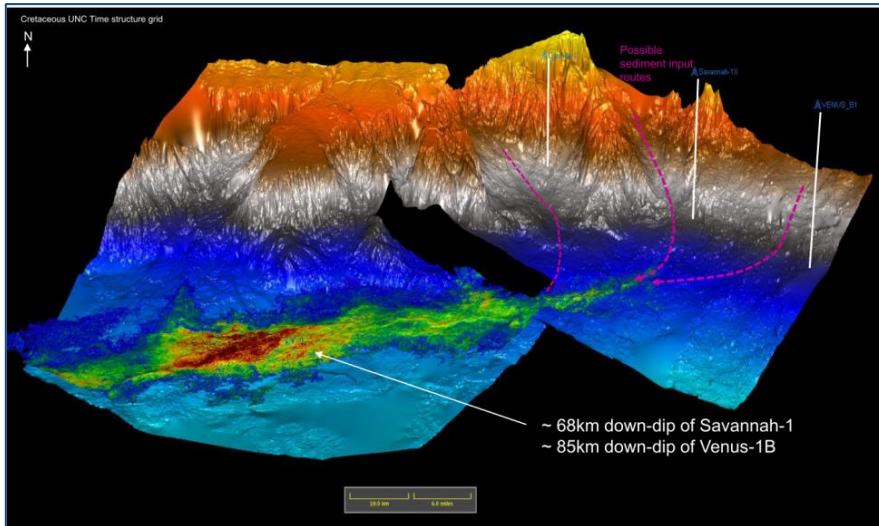


The Republic of Sierra Leone Fifth Licensing Round – Deep-water Prospectivity



- Proven hydrocarbons in deep water Cretaceous turbidite plays
- Structural and stratigraphic plays identified in deep water by PDSL
- Abundant remaining potential

The Republic of Sierra Leone Fifth Licensing Round – Deep-water Prospectivity

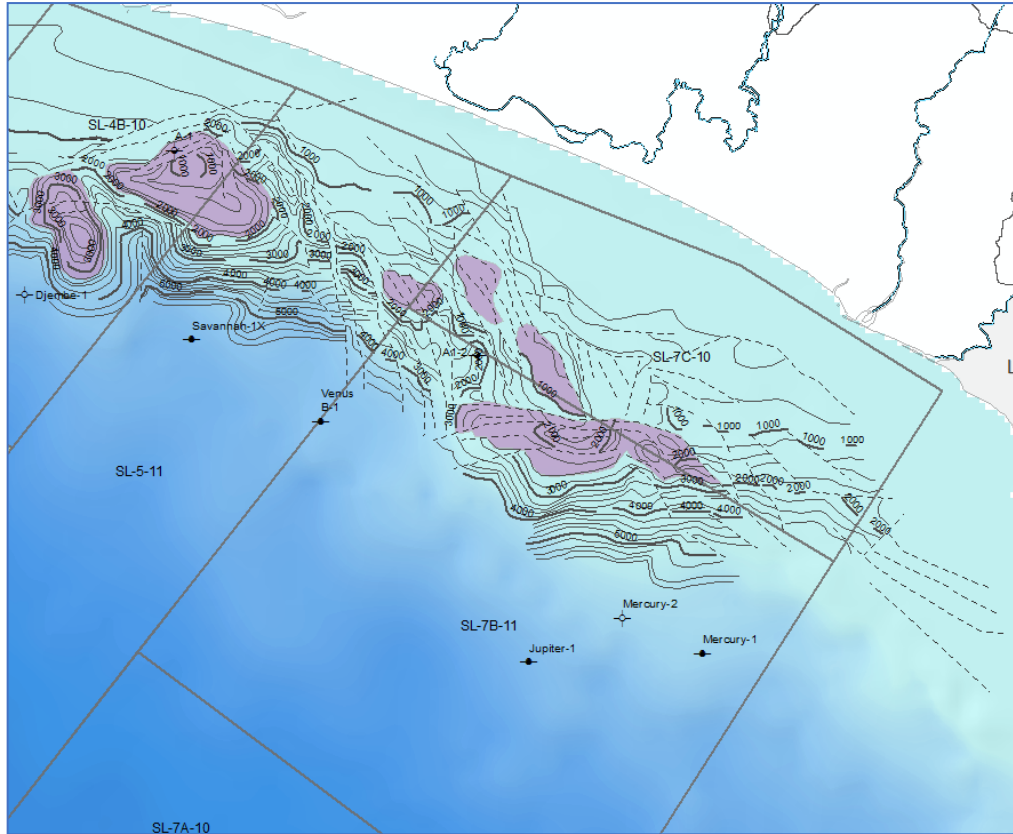


Geo-body Mapping from the Vega & Leo Prospects [Africa Petroleum; 2017]

The current understanding is that submarine fan development in the basin was mainly concentrated over the

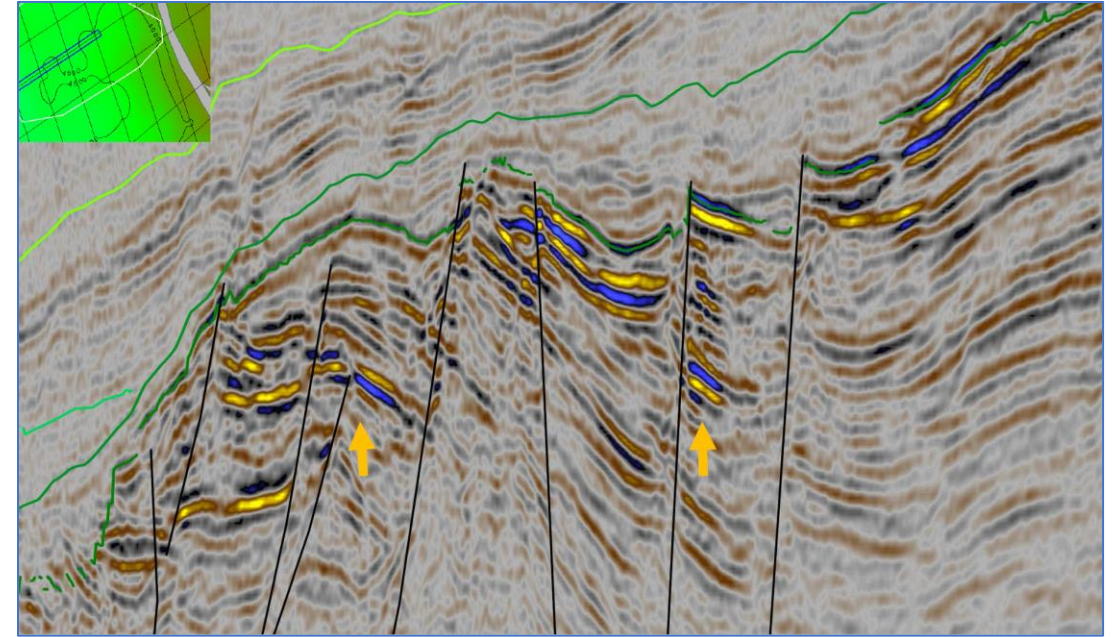
- Late Albian Unconformity (MCU),
- Santonian Unconformity, and
- Base Tertiary Unconformity (K/T Boundary)

The Republic of Sierra Leone Fifth Licensing Round – Shallow Water Prospectivity



Re-digitized 80's Data with ArcGIS [PDSL, 2018]

- Targets in water depths of less than 150m
- Targets up-dip of deep-water discoveries [reduced drilling costs]



Rotated Fault Blocks Brightening into Fault Seal

- Rifted fault blocks in proximal offshore areas
- Additional seal and traps due to Sierra Leone Fracture zones extending onto shore, as detected in high pass filtered magnetics.



**Applications must be received by the Petroleum
Directorate Online or in Freetown by:**
[12 Noon Wednesday 30th September 2022](#)

Contact Us

Office Hours

Monday – Saturday
07:00 – 17:00

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