Republic of Guinea 3D GeoStreamer

PGS expands its footprint within the MSGBC Basin with a new MultiClient 3D GeoStreamer survey

New MC3D acquisition covers blocks A4 and A5. The full suite of products will offer both immediate and long-term value in the subsurface analysis of the region.

Multiple plays are expected to be imaged with a focus on carbonate bank (shelf edge), shallow water delta plays and deepwater channel systems. A working petroleum system has been proven in an underexplored area of the prospective MSGBC basin.

Data acquisition direction is perpendicular to both the present-day shelf edge and the underlying regional subsurface structures, enabling optimal illumination of exploration targets. Final processing includes full-fidelity prestack time and depth migrated products.
**SURVEY SUMMARY**

**Type:** 3D  
**Geostreamer:** Yes  
**Geometry:** Standard  
**Size:** 7900 sq. km  
**Acquisition year:** 2019  
**Completion of processing:** 2020  
**Water depth:** 60-4500 m  
**Shooting direction:** 56.038  
**Vessel:** Ramform Atlas

**ACQUISITION PARAMETERS**

**Number of streamers:** 12  
**Streamer length:** 8025 m  
**Streamer separation:** 150 m  
**Shot interval:** 16.667 m  
**Record length:** 10000 ms  
**Source depth:** 7 m  
**Sample rate:** 2 ms  
**Bin dimensions (Acquisition):** 6.25 m x 25 m m  
**Bin dimensions (Processing):** 12.5 m x 12.5 m m  
**Fold:** 80

**PROCESSING AND DELIVERABLES**

**Processing:** P-UP generation, Full source deghosting, 3D surface related multiple elimination (SRME), Convolutional 3D SRME, Wave equation 3D SRME, 2D surface related multiple elimination (SRME), High resolution radon demultiple, HyperTomo velocity model building, Kirchhoff prestack time migration (PSTM), Kirchhoff prestack depth migration (PSDM), Anisotropic Kirchhoff prestack time migration (PSTM), Poststack time migration, Post-migration image optimization

**Depth products:** Final Kirchhoff PSDM stack, PSDM gathers, Anisotropy and velocity models, Velocity model, Final Kirchhoff PSDM angle stacks, Raw Kirchhoff PSDM angle stacks

**Time products:** Final post-stack time migration, Final Kirchhoff PSTM Stack, PSTM gathers, Stacking velocity, Migration velocity, Raw PSTM angle stacks, Final PSTM angle stacks

A prestack depth migrated section from the Republic of Guinea 3D volume showing the shelf-edge play types

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