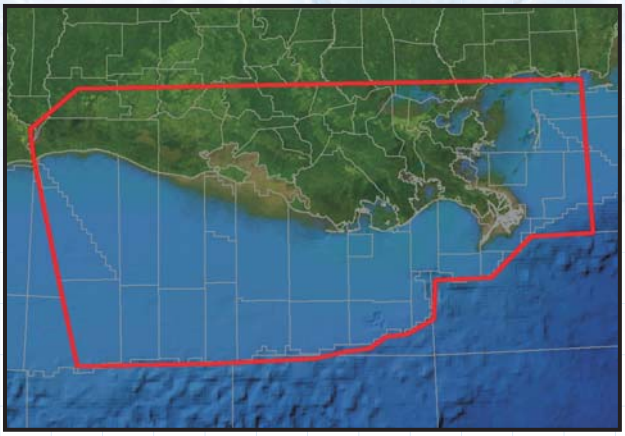
ShelfWorks

Deep Gas US Shelf Interpretation Package

US Shelf: Louisiana



The ShelfWorks package for Louisiana is a geologic structure (faults, anticlinal and synclinal elements) and lineaments interpretation derived from Gravity Map Service land gravity, Sidney Schafer water-bottom gravity, Fugro Airborne Surveys High Resolution aeromagnetics data, geological and seismic refraction data. IGC selected SSA and FAS databases because of their uniform coverage over the shelf area. The interpretation deliverables include a depth to magnetic basement structure map derived quantitatively utilizing various depth estimation techniques, a sediment isopach map, and three crustal maps.

ShelfWorks functionality is its immediate interactive interface with a Client's proprietary database via a set of digital template-inspired interpretation maps. All the surfaces (maps) will high-grade basin, thermal and/or stratigraphic models that are required for deep-gas evaluation.

Input data and a corresponding set of data enhancement maps are also included. Clients receive credit for prior data licenses.

Deliverables:

Structural Framework

Magnetic Basement Structure Map - commonly defined as the upper surface of magnetized igneous terrane, often both mafic and felsic bodies.
Migration Pathways
Pre-Mid Jurassic Magnetic Basement Isopach

Crustal Interpretation

Three Crustal Maps for thermal and stratigraphy models:
Depth to Moho surface (depth to crust/mantle boundary) with refraction control.
Total Crust Isopach (magnetic basement to Moho)
Gravity Effect of Total Crust and Mantle

Gravity Data

Free-Air Gravity
SSA Bouguer Gravity
3D Earth Model Bouguer Gravity
Isostatic Residual Gravity
1st order Bouguer Residual Gravity

Magnetic Data

Total Magnetic Intensity Field
Reduction-to-Magnetic Pole (RTP)
Data Enhancement Maps (2)

Geological Interpretation

Regional Geologic Features

Output Format

PDF Portfolio of map deliverables and written report
Digital Archive, VIDL or ArcGIS Library

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