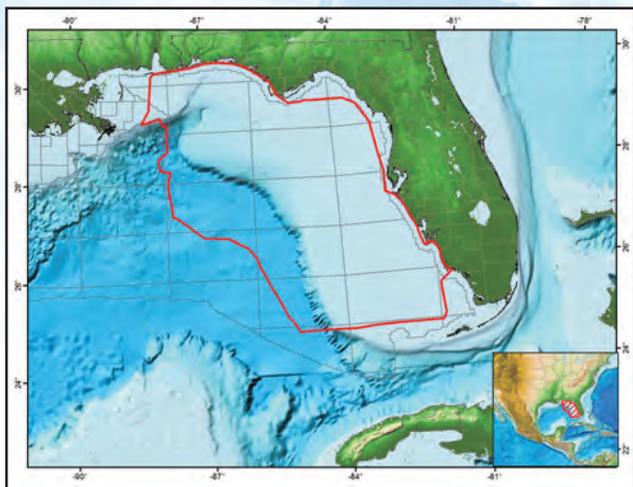


# ShelfWorks

## Deep Gas US Shelf Interpretation Package

US Shelf: Mississippi, Alabama, Florida



The ShelfWorks package for Eastern Gulf of Mexico is a regional geologic structure (faults, anticlinal and synclinal elements) and regional lineaments interpretation derived from water-bottom gravity (35,200 stations), marine gravity (33,825 line miles) and aeromagnetics (58,200 line miles) data, geological data and seismic refraction data. IGC selected SSA, EDCON/High Tide, and CGG databases because of their uniform coverage over the Mississippi, Alabama and Florida shelf areas. 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.

Pre-Mid Jurassic to Magnetic Basement Isopach  
Depth to Top of Volcanics

#### 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

3D EarthModel Bouguer Gravity

Isostatic Residual Gravity

1st order Bouguer Residual Gravity

#### Magnetic Data

Total Magnetic Intensity Field

Reduction-to-Magnetic Pole (RTP)

Data Enhancement Maps (3)

#### Geological Interpretation

Regional Geologic Features

Well Control

Buffler (MJS) Basement

#### ShelfWorks Report

An interpretation report includes the data source description, data processing, and interpretation methodology, a summary of the regional geology (with references), interpretation results and conclusions.

#### Output Format

Digital Archive, VIDL or ArcGIS Library



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