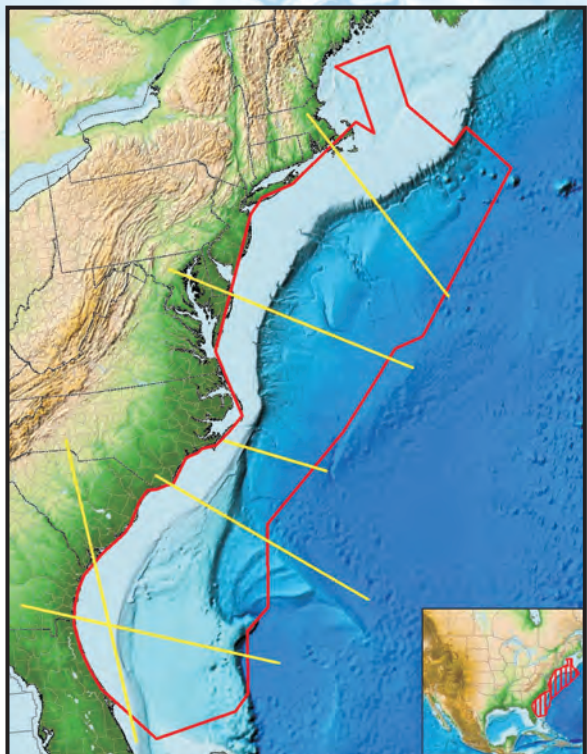


BaseWorks

East Coast US Interpretation Package



The BaseWorks package for the US East Coast covers over 315,000 square miles. It is a regional geologic structure and lineaments interpretation derived from geophysical (gravity and magnetics) and geological data. The primary data sets include the public-domain satellite-derived free-air gravity data and over 127,000 line miles of aeromagnetic data acquired by LKB and Aero from 1966 through 1978.

BaseWorks 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.

Deliverables:

Structural Framework

Regional Features (lineaments, faults, anticlinal and synclinal elements)

Magnetic Basement Structure Map - commonly defined as the upper surface of magnetized igneous terrane, often both mafic and felsic bodies.

Sediment Isopach (bathymetry to basement structure)

Six Structural Models

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

Magnetic Data

Total Magnetic Intensity Field

Reduction-to-Magnetic Pole (RTP)

Targeted Data Enhancement maps (2)

Gravity Residuals

Bouguer Gravity

Isostatic Residual Gravity

Targeted Data Enhancement maps (2)

BaseWorks 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 Formats

Digital Archive, VIDL or ArcGIS Library, etc.



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