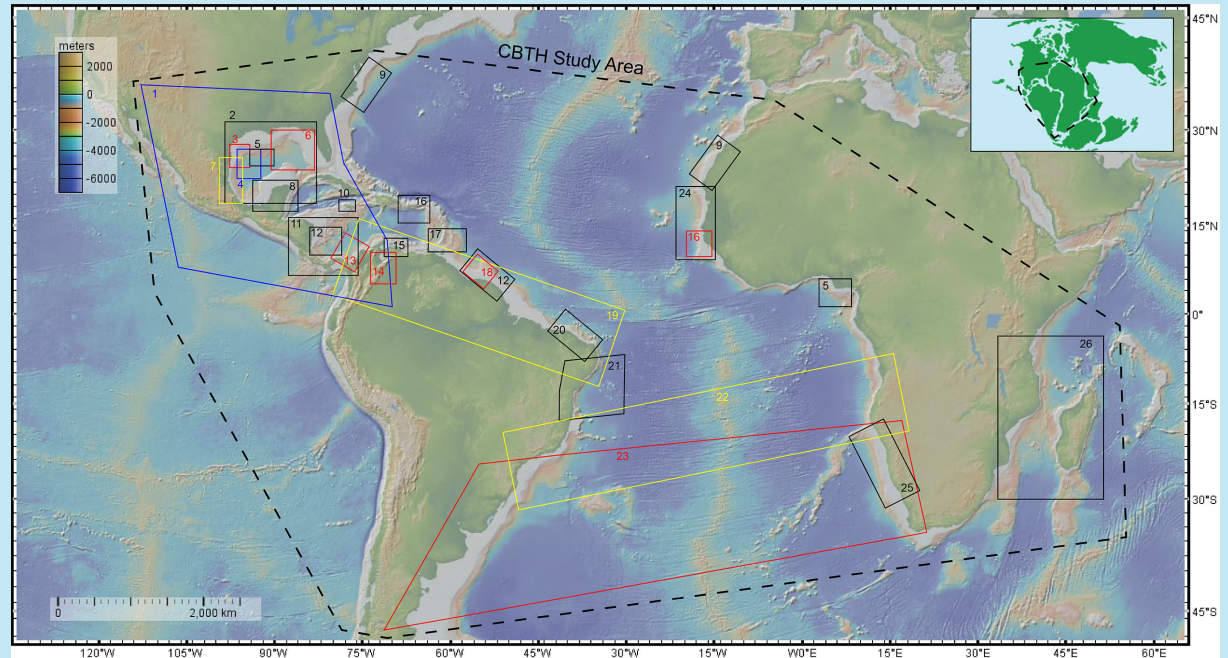


CBTH Project: Conjugate Basins, Tectonics, and Hydrocarbons

Overview:

The CBTH Project seeks to create a GIS-based digital and atlas synthesis of available seismic and well data to define the regional hydrocarbon potential of a vast region affected by the Mesozoic breakup of Pangea (shown in upper inset of map of the study area below). This project, which has been operating since September 1, 2005, includes: 1) known hydrocarbon basins of onshore and the lesser known offshore basins of the Caribbean and northern South America (Venezuela, Colombia, Trinidad, Suriname, Guyana, Northern Brazil); 2) the US and Mexico sectors of the Gulf of Mexico; 3) and the rifted-passive margins of the Central in eastern North America and western Europe, and the South Atlantic in South America and west Africa. Our main objectives are to compile all the available digital seismic and published data in a GIS database to provide an integrated geologic synthesis of tectonosequences, depositional systems, major structures, petroleum geology, paleogeographic maps, and quantitative plate reconstructions for a better understanding of the hydrocarbon systems in the region. Our largest concentration of data and current studies are in the Caribbean and the Gulf of Mexico but we have several recently completed and ongoing projects in Brazil and west Africa.



Numbers correspond to Phase IV, Year 3 student study areas: 1) Detrital zircon compilation 2) GOM well subsidence phases 3) NW GOM structure, stratigraphy 4) Mexican Ridges-Perdido structure 5) Gravity modeling Niger, Mississippi deltas 6) SE GOM basement, structure, stratigraphy 7) Mexican Ridges-Perdido structure, stratigraphy 8) Norphlet reservoirs, N. Yucatan, GOM 9) Eastern USA-NW Africa conjugate reconstructions 10) Jamaica seeps 11) Basin modeling, Colombian basin 12) Amazon cone structure, stratigraphy 13) Structure, basin modeling, South Caribbean deformed belt 14) Andes flexure modelling 15) Structure NW offshore Venezuela 16) Tectonic geomorphology, Puerto Rico 17) Barbados prism structure, stratigraphy 18) Demerara-NW Africa conjugate reconstructions 19) Compilation of OAE events in well data, NE South America 20) Ceara-Barreirinhas basins structure, stratigraphy 21) Fission track constraints on SE Brazil margin 22) Santos-Campos gravity, structure, stratigraphy 23) South Atlantic volcanic conjugate margins 24) NW Africa gravity, structure, stratigraphy 25) Namibia stratigraphy, basin modeling 26) Mozambique basin gravity, structure

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Current Phase V Sponsors:

