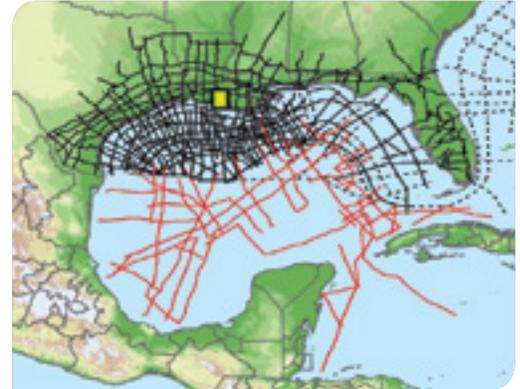


YucatánSPAN

YucatánSPAN™ is one part of the suite of Gulf of Mexico BasinSPANS™ (SPANS) programs, a mega-regional seismic study across the entire Gulf of Mexico that is unique to any margin in the world today and offers explorationists a true continental-scale view of the Gulf basin. Gulf of Mexico SPAN programs greatly improve our ability to document marginal development, perform crustal reconstructions and document the sedimentary filling history of the entire Gulf of Mexico.

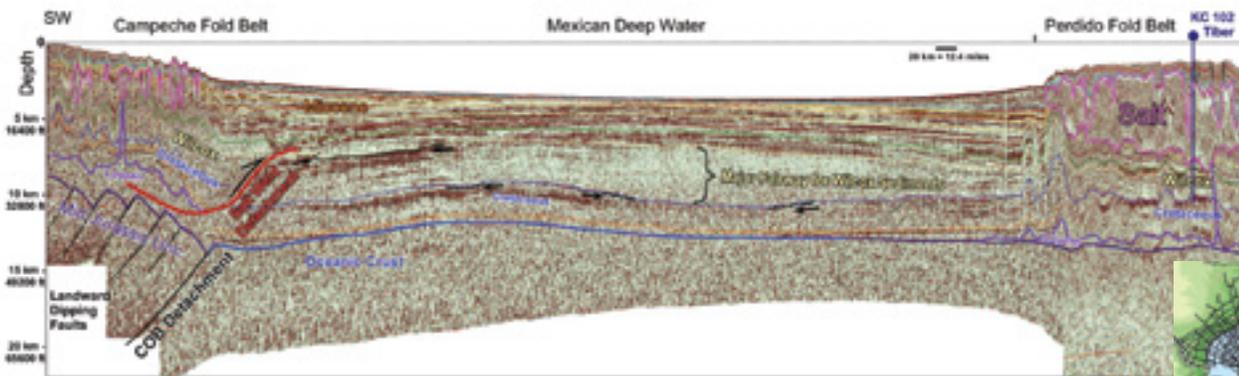
For decades, the understanding of the Mexican sector of the Gulf of Mexico has been based on 1970s vintage seismic data and processing. YucatánSPAN is a program that utilizes the comprehensive regional seismic grid originally acquired by University of Texas in 1978 and covers Mexican waters, crosses the Yucatan platform and links to the FloridaSPAN survey by ultra-long lines that cross the entire Gulf abyssal plain. Lines also reach into northern Cuban waters and tie to the southern FloridaSPAN lines.



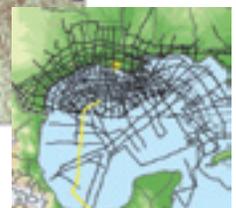
Completed/currently in progress: 42,000+ miles
Planned for 2015 and beyond: 22,000+ miles

The reprocessing starts from field tapes and depth imaging is performed using the RTM and Kirchhoff techniques. In most instances the original field tapes, navigation data and observer's reports were available. Where field tapes were missing and pre-stack processing could not be performed, post stack migration and processing were applied to the original stacked data and those data were incorporated into the composite lines where gaps greater than 10 km existed. It has required more than a year of detective and quality control work to sort through the available data and produce these new composite lines. The resulting enhancement in data quality from improved processing techniques since the lines were last processed as unmigrated stacked data nearly forty years ago is substantial.

The initial results demonstrated superior illumination of the deep crustal structure, salt and under-the-salt sediments, as well as the Cretaceous and Wilcox sediments. This project will provide major advances in the understanding of the southern Gulf of Mexico's geology and its entire evolutionary development.



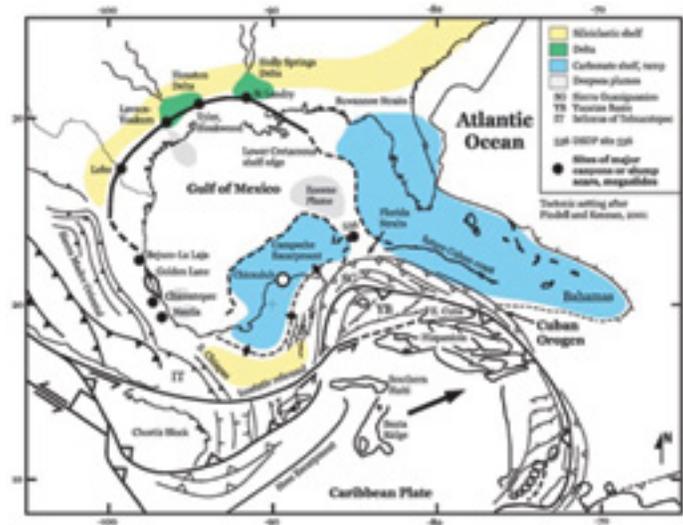
This Yucatan line connects to GulfSPAN where the Tiber well is located. A major Wilcox depo-axis is in Mexican waters and crustal features show the Continental/Oceanic boundary detachment fault.



As seen in the key line, features never before seen on public data are resolved. These include imaging of Campeche's basement step-up to the ocean crust and the basal thrust of the allochthonous Campeche salt front. This new dataset will revolutionize our ability to document southern Gulf of Mexico marginal development, perform crustal reconstructions with the northern Gulf of Mexico margin and document the sedimentary filling history of the entire Gulf of Mexico.

Depositional systems of the Wilcox and Cretaceous are finally seen in their entirety. This grid links to the GulfSPAN data which shows the robust depositional systems seen in the southwestern Texas margin. The YucatánSPAN line example shows that more sediments are coming from onshore Mexico. Thick and brightly reflective Paleogene-Eocene (e.g., Wilcox) fairway(s) are now defined within the Campeche Salt Province. It is believed this sediment is derived from Mexican and exotic source areas undergoing shortening at the time to the south of Chiapas. Proposals can be studied that have for years suggested that carbonate debris identified in deep water wells are derived from the west and south part of the basin margin and the Yucatán platform. The Yucatán and Florida Shelf and Straits crustal and sedimentary provinces are correlated, providing new control on the complex Late Jurassic-Early Cretaceous SE Gulf of Mexico triple junction.

YucatánSPAN provides the whole basin analysis as the Gulf of Mexico began to form and throughout the continued rift events as Africa pulls away from Florida. The early history of the Gulf can finally be mapped. Interpretation of this grid will address problems and puzzles that have been posed for many years and Gulf of Mexico explorationists will now have the opportunity to plan and strategize with more accuracy than ever before.



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ABOUT BasinSPAN™

BasinSPAN surveys are geologically inspired, basin-scale seismic data programs acquired and depth-imaged using the most advanced geological and geophysical processing tools available. They provide upstream companies with the ability to evaluate the geologic evolution, deep basin architecture and depositional and structural histories of entire petroleum systems in a region. Our global 2D BasinSPAN library consists of data from virtually all major offshore petroleum provinces providing asset managers significant risk mitigation as they develop exploration and appraisal programs with greater confidence.

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