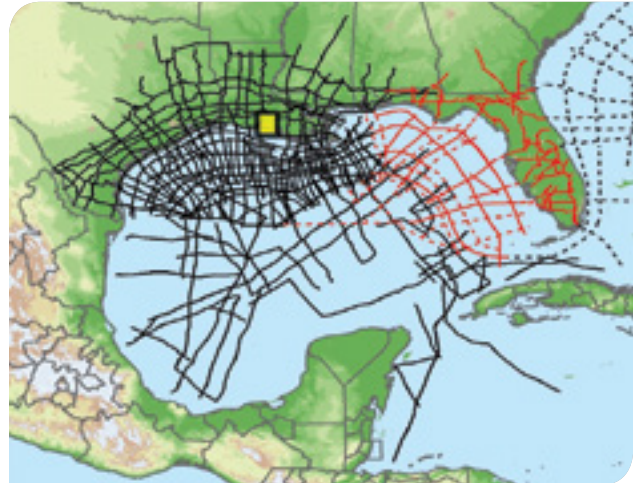


FloridaSPAN

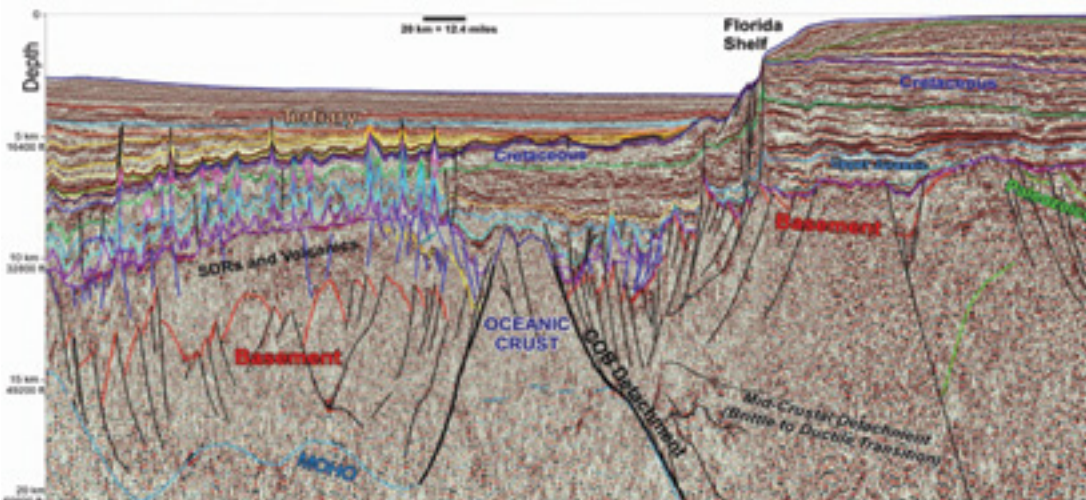
FloridaSPAN™ is one part of the suite of Gulf of Mexico BasinSPANS™ (SPANS) programs, a mega-regional seismic study across the entire Gulf of Mexico that is unique to any margin in the world today and offers explorationists a true continental-scale view of the Gulf basin. ION's Gulf of Mexico programs greatly improve our ability to document marginal development, perform crustal reconstructions and document the sedimentary filling history of the entire Gulf of Mexico. Deep imaging of crustal structures link robust, onshore sedimentary margins and pathways across the shelf into deep water and then further down through the abyssal plain and into the southern side of the basin.

FloridaSPAN includes the offshore Florida data and an onshore grid of reprocessed legacy data. The offshore data covers the shelf margin and deep water in the eastern Gulf of Mexico while the onshore grid transects four states to reach the east coast. These lines connect to the GulfSPAN™ and YucatánSPAN™ onshore and offshore grid and will connect to the East Coast Atlantic margin program, USAMSPAN. This program covers an important part of the history of the Gulf of Mexico rifting events as Florida breaks away from Africa.

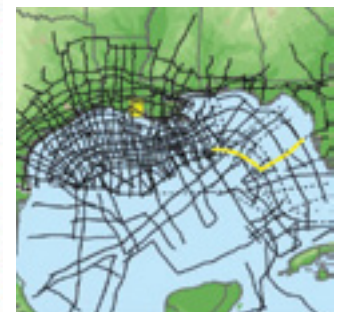
The offshore survey includes seismic data newly acquired in the eastern gulf and depth-imaged by ION's GX Technology group to 40 km with both Kirchhoff and Reverse Time Migration (RTM) to integrate gravity, magnetic and well data. The program lines are positioned to cross the Florida shelf and escarpment and extend into deep water with special emphasis on crossing the continental to oceanic crustal boundary, tying important wells and transecting Jurassic basins and highs. The deep imaging on this dataset reveals more criteria to assist models of crustal structure and show the nature of the boundary between continental and oceanic crust as a crustal boundary detachment feature.



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

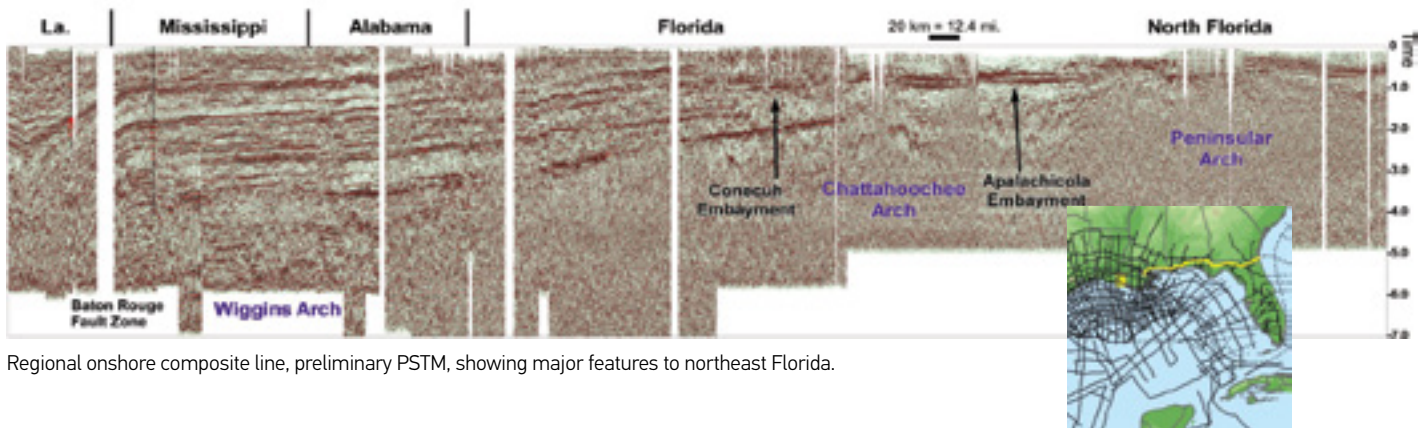
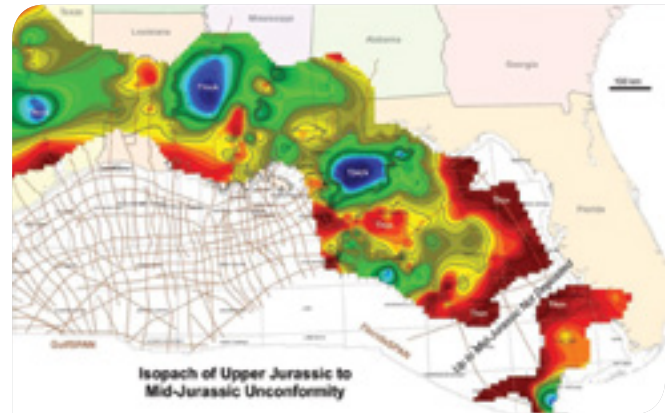


Key Line offshore shows Florida shelf to deep water and crustal structure. The line is merged to GulfSPAN on the left.



A regional interpretation is performed tying to existing well information and highlights the early history of these features which include the Destin Salt Basin and Florida Middle Ground Arch and delineates Norphlet section onlapping onto paleohighs. The early progradational history of the Jurassic Smackover carbonates is imaged. A series of maps is created and selected maps integrate with the GulfSPAN interpretation and show the Jurassic section around the Gulf rim.

The onshore data is a select grid of lines from legacy data that is reprocessed from field tapes and made into composite regional lines. The lines show consistent processing and depth imaging from the Texas and Louisiana onshore data, crossing several states to reach the east coast to connect with the planned USAMSPAN data. Approximately 1,500 onshore wells serve to control the interpretation and velocity surveys are used to guide the depth imaging. Proposals of extensive faults formed during the Florida/Africa break-apart will be examined on this dataset. The line below shows preliminary PSTM through north Florida and the thinning of the Mesozoic section onto the Chattahoochee and Peninsular Arches.



Regional onshore composite line, preliminary PSTM, showing major features to northeast Florida.

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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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