

Importance of Louisiana's coast

- Coastal Louisiana has 37% of all the coastal marsh in the continental U.S.
- Home to the nation's largest port by tonnage, and 5 of the top 15 U.S. ports
- Louisiana led the nation in waterborne commerce (2014)
- 60% of U.S. grain ships through the Ports of New Orleans and South Louisiana
- Port Fourchon services 90% of the oil and gas activity in the Gulf of Mexico
- Home to LOOP, the nation's only port capable of offloading deep draft tankers
- Louisiana's working coast exports over \$120 billion in annual goods and services
- Coastal parishes import \$160 billion in goods and services annually
- Henry Hub in Erath is nexus of 9 interstate and 4 intrastate natural gas pipelines
- Our coastal estuary system produces 21% of all commercial fisheries landings by weight in Lower 48 states
- Approximately 75% of all commercially harvested fish species in Louisiana use our wetlands for at least one stage of their life cycle
- Coastal Zone is home to 2.56 million people, 57% of Louisiana's population

Threats and losses

- Land loss from 1985-2010 averaged 16.57 square miles per year
- 1,750 square miles will be lost over the next 50 years if no action taken
- Mississippi River sediment that used to flow into our marsh estuary system is being lost into the Gulf and off the continental shelf. The Mississippi River carries about 2.5 tons of sediment per second past Belle Chasse, increasing to roughly 6.5 tons per second during high water events.
- Subsidence rates vary across the coast, generally ranging from 0 feet to just over one yard (39.37 inches) over the next 50 years
- Sea level rise by itself over the next 50 years is estimated to range from 1.41 feet to 2.72 feet.
- Sea level rise by itself by the end of the century is estimated to range from 3.28 feet to 6.5 feet.

CPRA Accomplishments

- \$20 billion secured for protection and restoration projects
- 120 million cubic yards of fill placed (or now being placed)
- 36,161 acres of land benefited
- 282 miles of levee improvement
- 52 miles of barrier islands and berms constructed or under construction
- 60 parishes with constructed projects
- A 2011 Green Jobs Study showed that CPRA restoration spending of \$618 million resulted in 8,900 total jobs and \$1,1 billion in sales



Caminada Headland Beach and Dune Restoration Project

Project Summary

Over the last 100 years, the Caminada Headland has experienced extensive shoreline erosion and land loss to its marsh, wetland, beach, and dune habitats as a result of storm overtopping and breaching, saltwater intrusion, wind and wave induced erosion, sea level rise, and subsidence. The Coastal Protection and Restoration Authority has restored the beach habitat of the Caminada Headland by transporting sand from Ship Shoal, an underwater sand body located approximately 40 miles away in the Gulf of Mexico to restore habitat on a barrier shoreline.

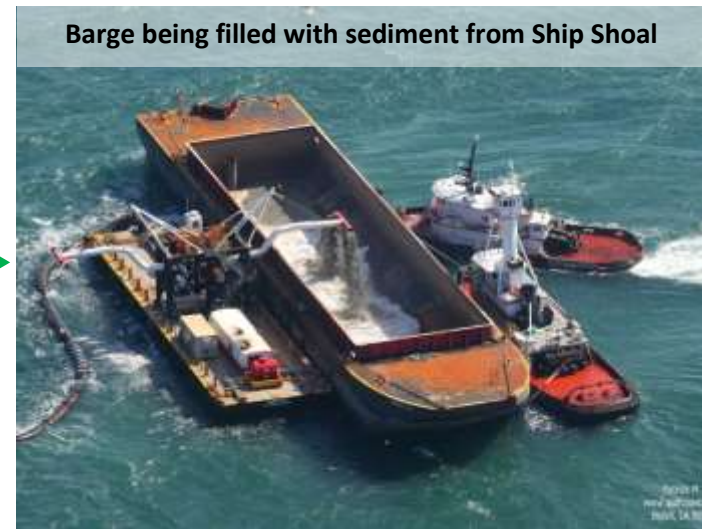
The restoration of the Headland occurred in two project increments. In total, the two projects restored 13 miles of Louisiana's barrier shoreline and created and benefited 1,059 acres of new barrier, dune and beach habitat, representing one of the largest restoration projects ever constructed by the CPRA with a combined project investment of approximately \$216 million. Increment I of the project (the western half) was completed in December of 2014 and restored approximately 373.5 acres and 6 miles of beach and dune habitat. Increment I was funded with Coastal Impact Assistance Program and State Surplus funds. Increment II (the eastern half) is larger, restoring approximately 686 acres and 7 miles of beach and dune. Increment II has been funded through the Gulf Environmental Benefit Fund established by the National Fish and Wildlife Foundation in the wake of the Deepwater Horizon oil spill to manage funds resulting from the settlement of federal criminal charges against BP and Transocean.

Project Benefits

The newly created habitat will help reduce the direct impacts of storm events to Port Fourchon which is located just north of the western portion of the Headland. Port Fourchon is an invaluable site to the oil and gas industry, furnishing between fifteen and eighteen percent of the country's oil supply and ninety percent of the Gulf of Mexico's deep water oil production. The port also services the offshore oil, commercial fishing, seafood, shipping, tourism, and recreation industries. The restored Caminada Headland is considered one of the most important least tern nesting areas in the state, also improving nesting conditions for Wilson's plovers and the diamondback terrapin. It provides greater habitat for birds listed as threatened on the Endangered Species Act, such as piping plovers and red knots. The eastern portion of the Headland consists of Elmer's island Wildlife Refuge, a heavily utilized public resource. It is managed by the La. Department of Wildlife and Fisheries.



CAMINADA HEADLAND BEACH AND DUNE RESTORATION PROJECT



	Combined Project Total
PROJECT COST	\$215.9 million
BEACH ELEVATION	+4.5 feet
BEACH WIDTH	65 feet (average)
DUNE ELEVATION	+7.0 feet
DUNE CREST WIDTH	290 feet
ACRES RESTORED	1,060 acres
TOTAL FILL VOLUME	8.84 million cubic yards
TOTAL PROJECT LENGTH	70,000 linear feet (13.25 miles)

