

TEXAS PARKS AND WILDLIFE DEPARTMENT

Galveston Island State Park Master Plan

Galveston County, Texas



top: 50-year projected habitat shift based on estimated sea level rise and erosion
bottom: Native dune vegetation

Hurricanes often have dramatic effects on barrier islands, and the impact of 2008's Hurricane Ike on Galveston Island, Texas was no exception. Yet the hurricane left in its wake a keen awareness of the need to address the consequences of such storms and their dramatic effects on the island. It also

50-year plan helps protect Gulf Coast natural resources in the face of climate change while providing valued outdoor recreation.

catalyzed a master planning effort to guide the redevelopment, management, protection and restoration of Galveston Island State Park, a treasured natural and recreational resource that is bordered by the Gulf of Mexico to the south and West Bay of Galveston Bay to the north.

Despite being surrounded by developed land, this 2,300-acre park is home to a variety of natural habitats, including beach and dunes, coastal strand prairie, tidal marsh and seagrass beds.

Biohabitats provided professional services as a key member of the planning team. The plan produced for Texas Parks and

Wildlife Department, looks out on a 50-year horizon, addressing not only coastal storms, land use, and infrastructure needs, but also projected sea level rise and changes.

After conducting an inventory and assessment of the park's natural resources, we performed predictive modeling to project the impacts of sea level rise on the landscape, and how habitats may shift accordingly. Next, this information was utilized to develop a plan to guide the restoration and management of park habitats.

SERVICES

- Inventory & Assessments
- Planning
- Management

conservation planning
ecological restoration
regenerative design



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