

FLORIDA GULF OF MEXICO RESTORATION

PROJECT SUBMITTAL FORM

Form Purpose and Instructions:

- To assist the project proposal and review process, please complete this Submittal Form. Completion of the Form will contribute to the appropriate information being completely and accurately submitted for each project.
- Take as much space as needed for each question, but please keep responses as focused as possible. It may assist you to review all the questions before addressing any one question.
- Please submit one Form per project, if you have multiple projects - please submit one Form for each project.
- Please submit completed Forms to Restoration.Projects@dep.state.fl.us. Once your Form is successfully submitted, you will receive a confirmation email from the Florida Department of Environmental Protection.

Project Name:

Contact Information *(Include at least one name, phone number, email address, and organization name if applicable):*

Project Location *(Include a map, if possible, and the city, county, longitude/latitude, and watershed):*

Project Description *(Describe all aspects of the project):*

Estimated Project Costs *(Describe the estimated costs of the project, including any assumptions for contingency and ongoing operations/maintenance. Identify other secured funding sources such as matching funds, in-kind contributions or state/federal dollars. In addition, if possible, complete and submit the Cost Appendix Sheet associated with this Form):*

Other Funding *(Indicate if the project is submitted for any potential funding or if it may be used to leverage additional funding, if so please describe the funding source [e.g. State/Federal Grants]):*

Technical Feasibility *(Describe the technologies involved and any relevant past experience or proven success with similar projects):*

Environmental Benefits *(Describe the nature, magnitude, and timing of any environmental benefits attributable to the project. If possible, describe potential environmental performance measures [e.g. pollutant reduction]. Please address any potential environmental impacts associated with implementing or maintaining the project [e.g. loss of a habitat or conversion of habitat from one type to another during implementation]):*

Economic and Social Benefits *(Describe the economic and social benefits including those related to the project's improved ecosystem services and any estimates on jobs created or preserved):*

Community Resilience *(Describe if the project assists Florida's ability to anticipate, withstand, or recover from hazards or threats [e.g. hurricane preparedness, establishing living shorelines]):*

Conflicts or Complements to Existing Efforts *(Describe any ongoing activities in the project implementation area, if the project is part of another plan, and why the project does or does not interfere with that work. Please consider how the project may complement existing local, regional, and state efforts/plans/objectives):*

Complies with Federal, State, Local, and Tribal Laws/Regulations *(Describe any concerns or potential conflicts):*

Readiness for Implementation *(Describe if the project has had any design or permitting work started or completed [attach permits or design work]. Please address any issues that may delay start or finish of the project):*

Public Acceptance *(Describe any known or potential public approval or opposition to the project):*

Additional Information you wish to provide *(Please include any maps, designs, drawings, photos, or background resources that may assist in completely and accurately understanding the project):*

Fig. 1 Pensacola Bay Living Shoreline and Oyster Reef Restoration Project Site and Adjacent Land Ownerships



Living Shoreline and Oyster Reef Restoration, Pensacola, FL Public Ownerships

YELLOW
RIVER
MARSH
AQUATIC
PRESERVE

Yellow
River Water
Management Area

Eglin Air Force Base

East Bay

Legend

- Military Ownership
- State Protected Lands
- US Forest Service
- Project Area



0 0.5 1 Miles

Map: Kathy Freeman, 1/6/13; Data Sources: TNC, FNAI, FLMA, FDOR

Fig. 2 Pensacola Bay Living Shoreline and Oyster Reef Restoration
1882 Map of Historic Oyster Reefs



Fig. 3 Pensacola Bay Living Shoreline and Oyster Reef Restoration
Ecosystem Services/Benefits Provided By Living Shorelines



Fig. 4 Pensacola Bay Living Shoreline and Oyster Reef Restoration
 2011 Shoreline Data Sampling Points (top)
 Example of the Comparison of 2011 Shoreline Profile with
 Data from 1934, 1935, and 1978 at Escribano Point (bottom)
 Revealing Shoreline Erosion rate of -0.32 meters/year
 (1.04 feet/year)

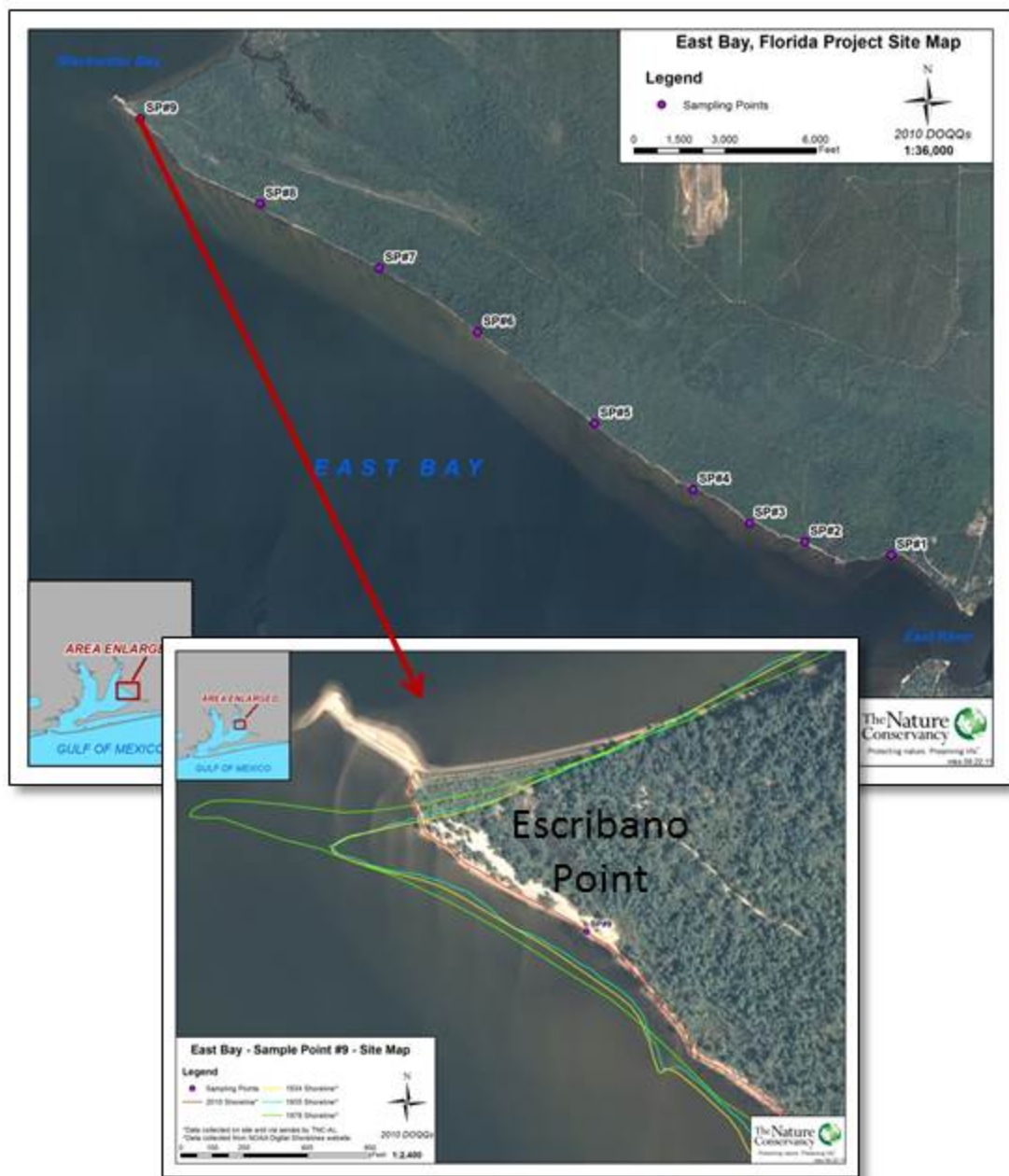


Figure 5. Sea Level Affecting Marshes Model Pensacola study area showing coastal wetland habitat changes under the 1 meter sea level rise modeled scenario

1m Scenario (Protect Developed)

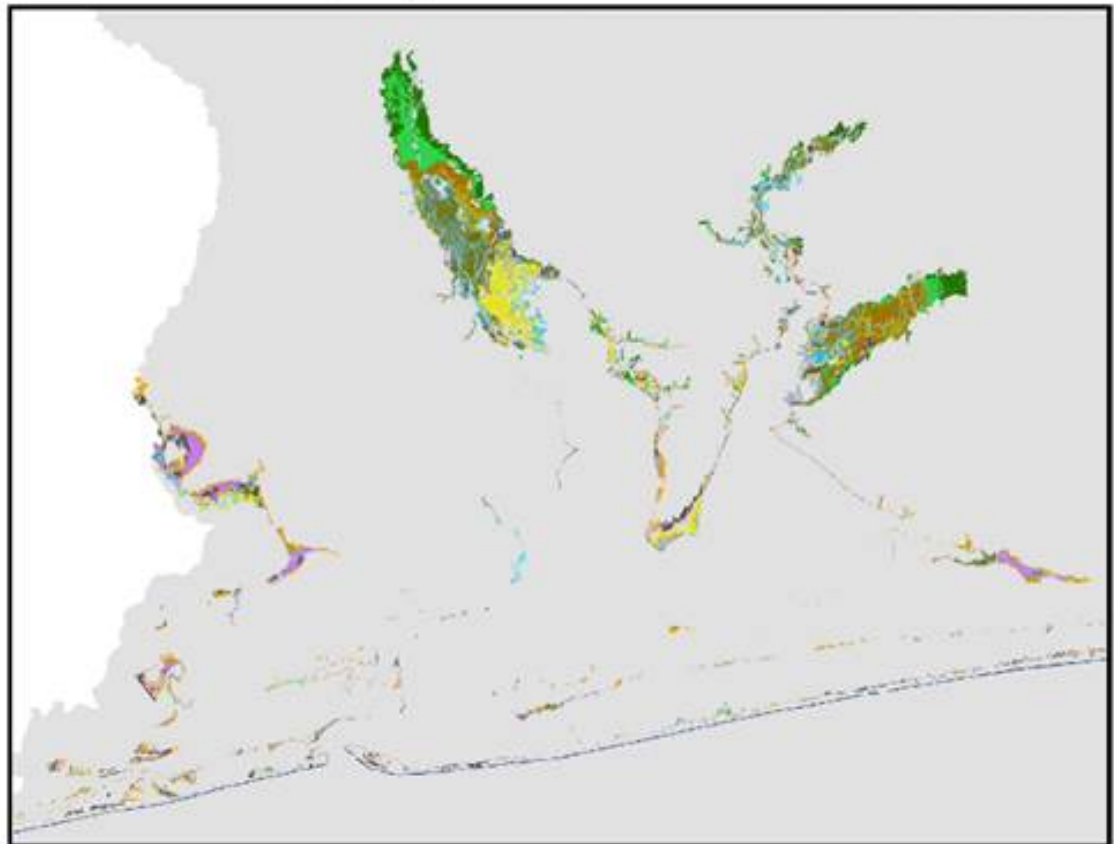
 Pensacola study area

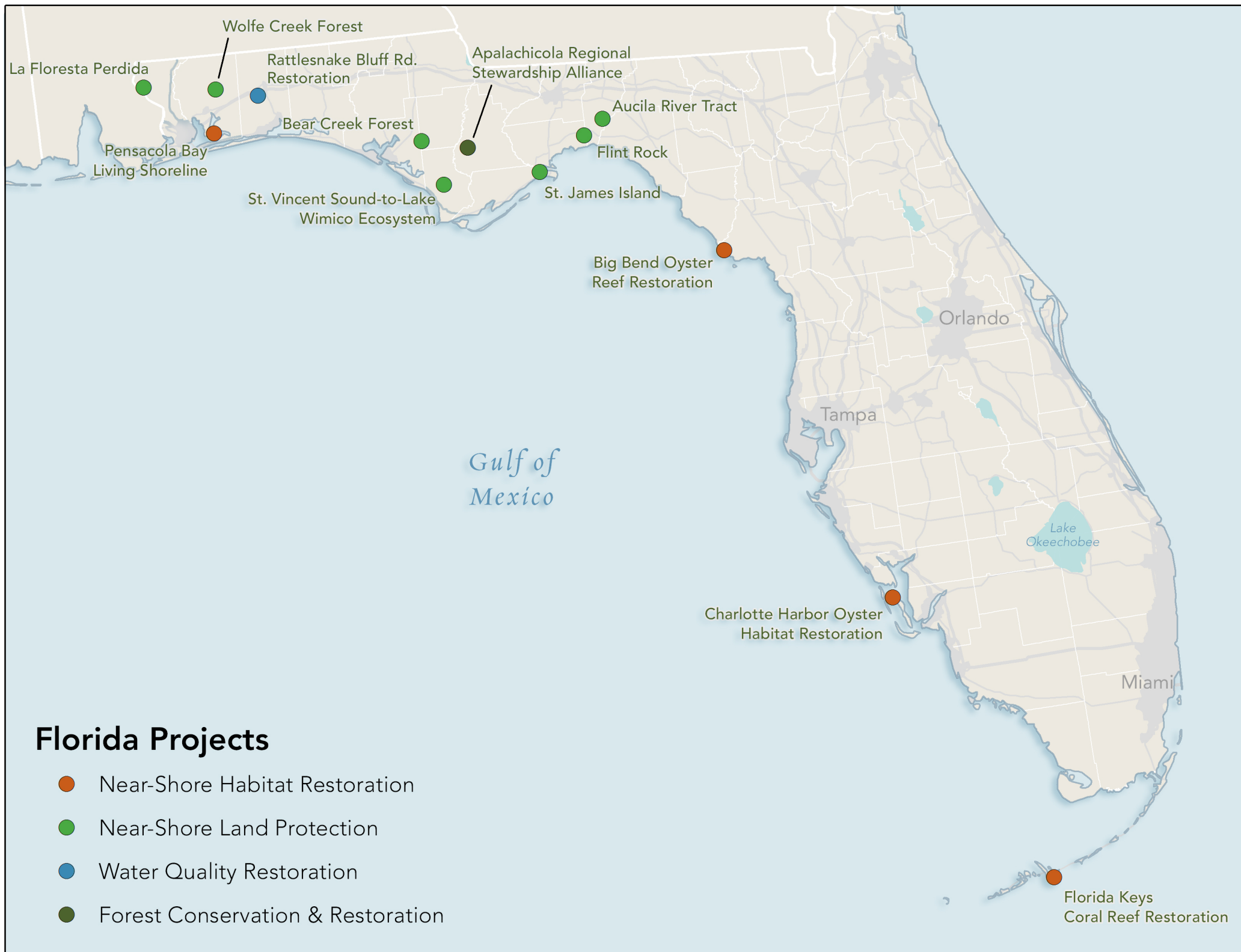
Changes between Initial Condition and Year 2100

Only Changes > 275 ha

-  CypressSwamp - EstuarineWater
-  InlandFreshMarsh - RegularlyFloodedMarsh
-  InlandOpenWater - EstuarineWater
-  IrregFloodMarsh - EstuarineWater
-  IrregFloodMarsh - RegularlyFloodedMarsh
-  IrregFloodMarsh - TidalFlat
-  OceanBeach - EstuarineWater
-  Swamp - IrregularlyFloodMarsh
-  Swamp - RegularlyFloodedMarsh
-  Swamp - ScrubShrub
-  Swamp - TidalFlat
-  Swamp - TidalFreshMarsh
-  Swamp - TidalSwamp
-  TidalSwamp - IrregularlyFloodMarsh
-  TidalSwamp - RegularlyFloodedMarsh
-  UndDryland - ScrubShrub
-  Other Change
-  No Change

1 meter Scenario - Changes between Initial Condition and Year 2100





Cost Appendix Sheet	
Cost Item	Cost Estimate
Planning	
Planning Subtotal:	
Construction	
Construction Subtotal:	
Monitoring	
Monitoring Subtotal:	
Project Cost	
Subtotal:	
TOTAL:	

Estimated Costs by Year	
Year 1	
Year 2	
Year 3	
Year 4	
Year 5	
Year 6	