

SECAS MARSH MIGRATION MODELING



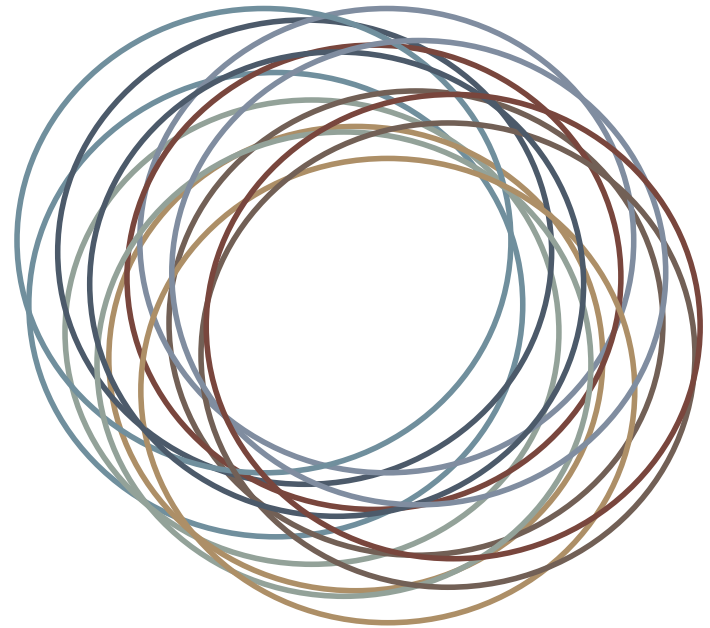
Working together –engaging people as partners

All of us are much better than anyone of us!

October 30, 2017 – Louisville, KY



Defining a Common Landscape Vision



Gulf Coast Vulnerability Assessment “Transformational”



- **Sam D. Hamilton Award**
- **Collaborative effort ~70 Gulf of Mexico partners**
- **Vulnerability of ecosystems species Gulf-Wide**



[Description](#)

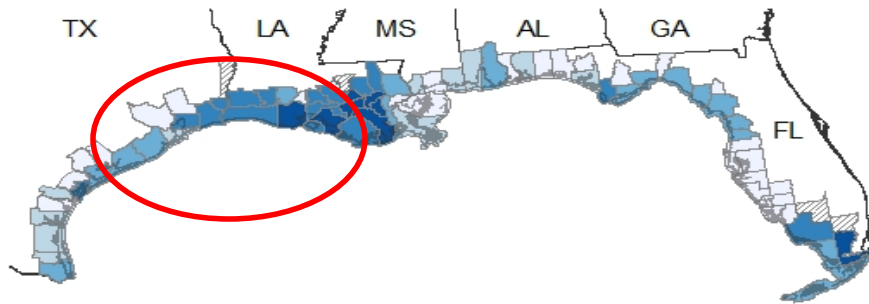
[ScienceBase](#)

[Webinar](#)

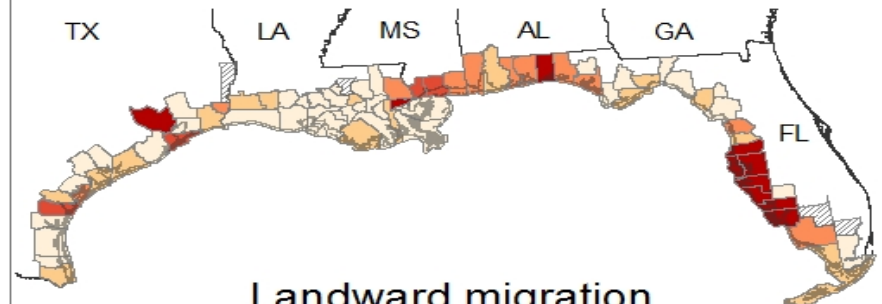


Gulf Coast Marsh Migration

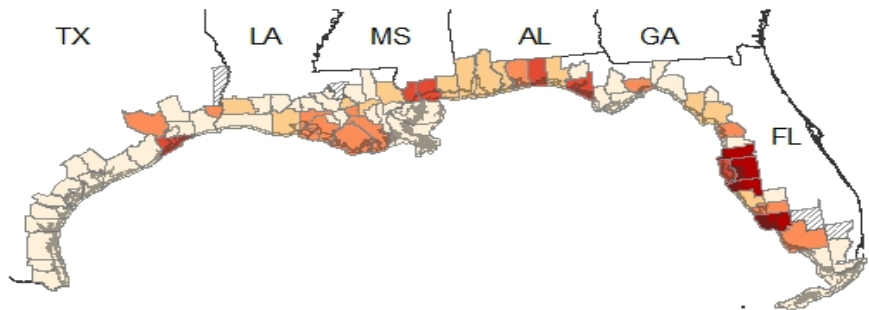
County-level barriers and opportunities for landward migration of tidal saline wetlands for a 1.2 m sea-level rise scenario



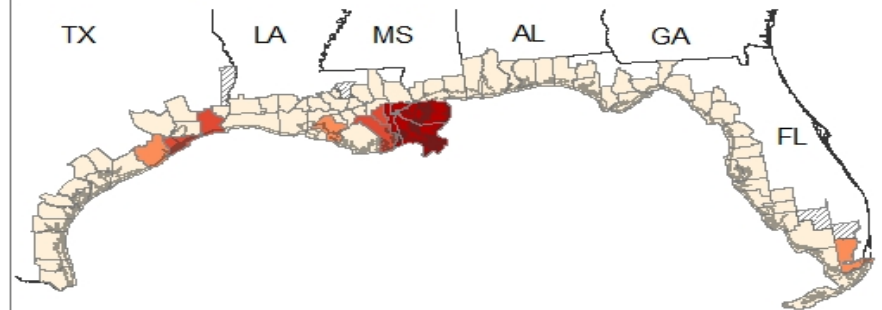
Landward migration



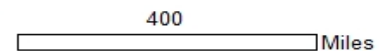
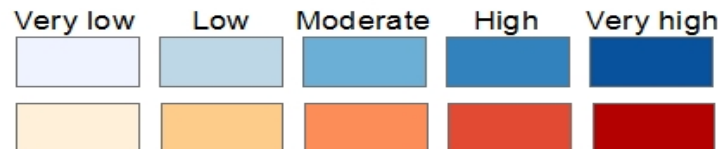
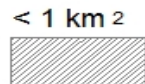
Landward migration prevented - current urban



Landward migration prevented - future urban

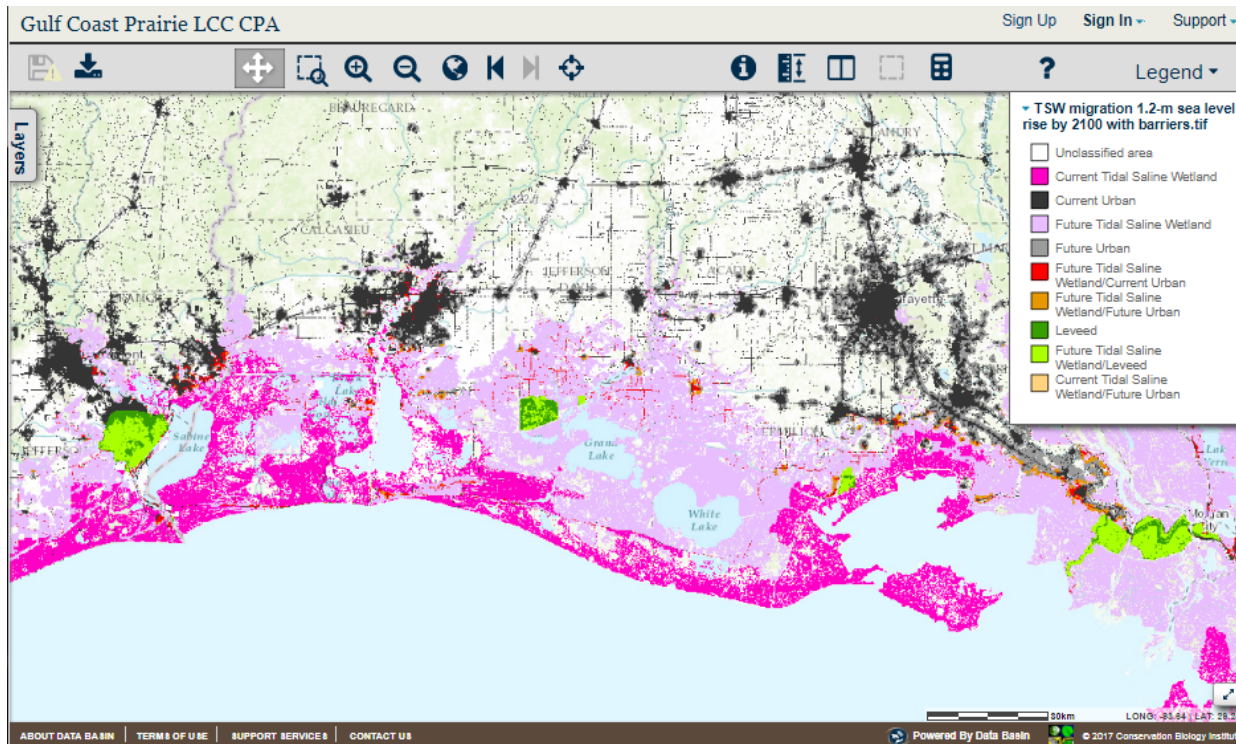


Landward migration prevented - levee



Coastal wetland systems

- [Tidal marsh migration under sea level rise](#)



Enwright, N.M., Griffith, K.T., and Osland, M.J., 2015, Incorporating future change into current conservation planning—Evaluating tidal saline wetland migration along the U.S. Gulf of Mexico coast under alternative sea-level rise and urbanization scenarios: U.S. Geological Survey Data Series 969, <http://dx.doi.org/10.3133/ds969>.

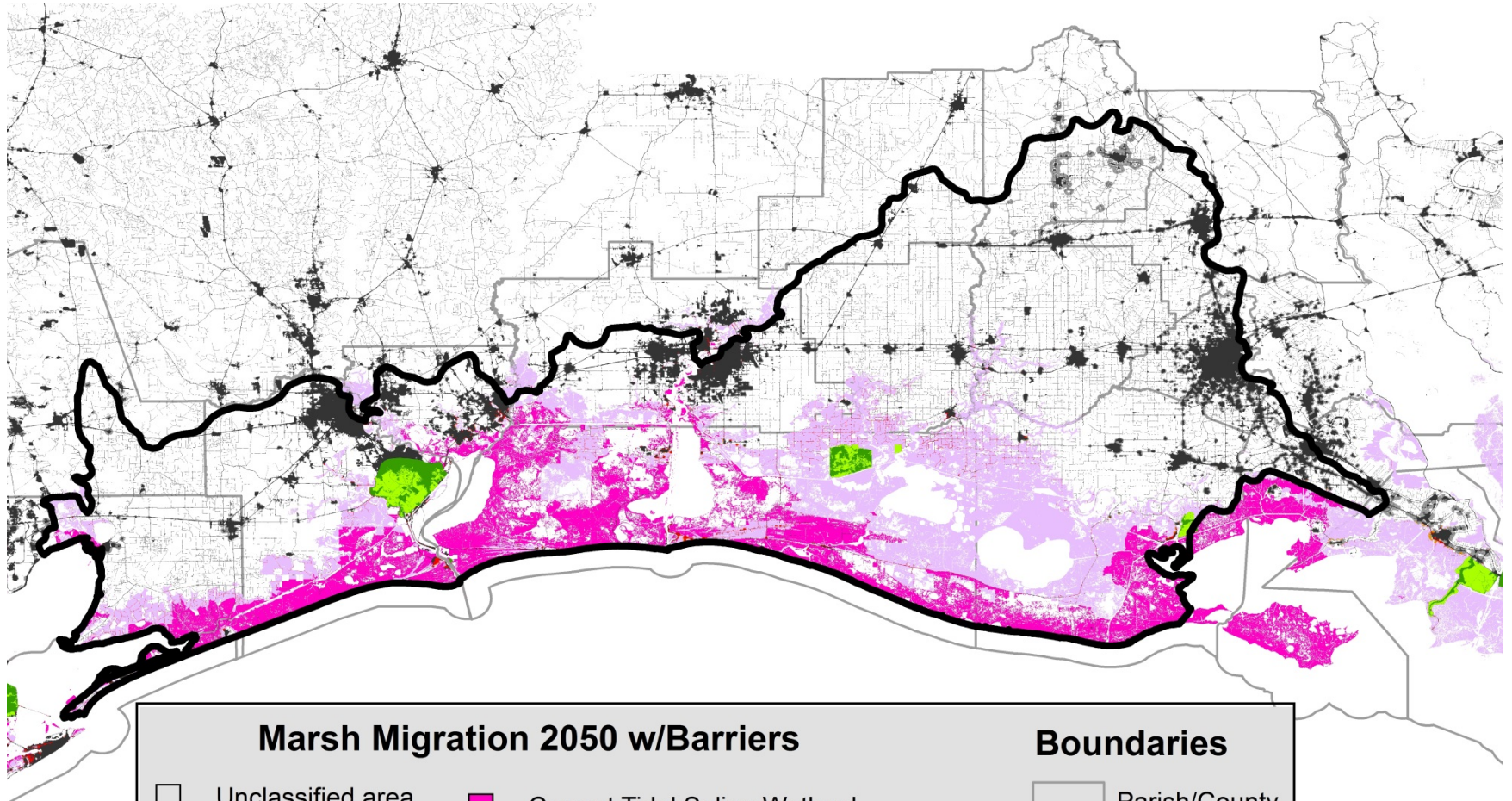
[Description](#)

[ScienceBase](#)











[Webinar](#)

[Conservation Planning Atlas](#)







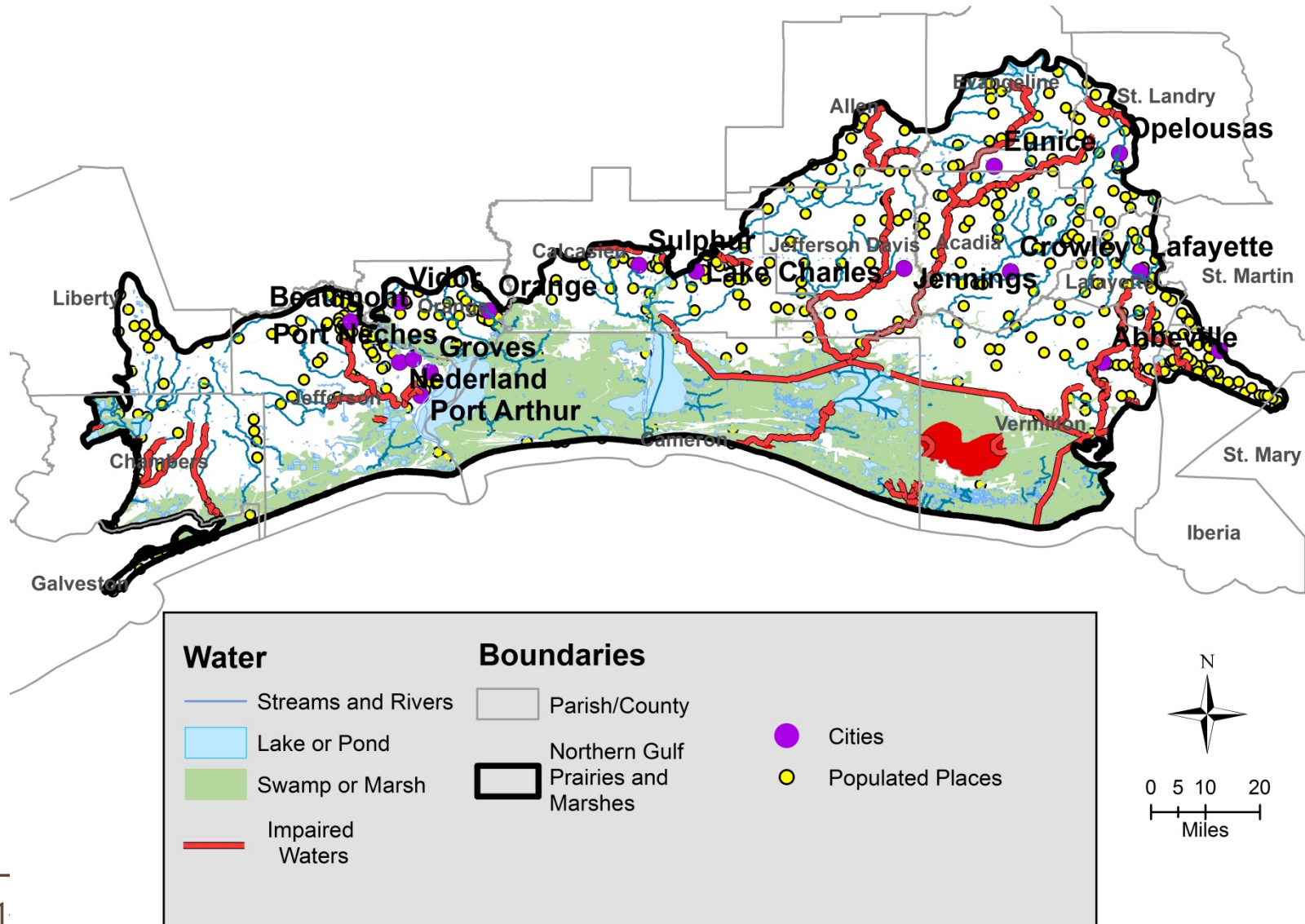
Marsh Migration 2050 w/Barriers

- | | |
|--|---|
|  Unclassified area |  Current Tidal Saline Wetland |
|  Current Urban |  Future Tidal Saline Wetland/Current Urban |
|  Future Urban |  Future Tidal Saline Wetland |
|  Leveed |  Future Tidal Saline Wetland/Future Urban |
|  Future Tidal Saline Wetland/Leveed |  Current Tidal Saline Wetland/Future Urban |

Boundaries

- | |
|--|
|  Parish/County |
|  Northern Gulf Prairies and Marshes |

Communities



HOW HAS OUR SHARED VISION INFORMED FUTURE ACTION?



RESTORE evaluates Gulf-wide Impacts
Salt Bayou – McFaddin Project 2017

Awarded \$15.8 Million - Deepwater Horizon

