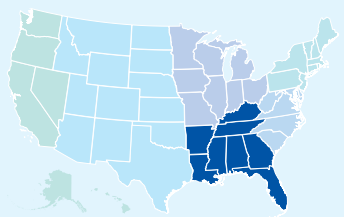


Framework for Quantifying Risk and Resilience is Grounded in Direct Input from Historically Underserved Communities

South Region



Overview

The Water Institute of the Gulf developed a [community-informed framework for quantifying risk and resilience](#).

The framework incorporates qualitative local knowledge into quantitative coastal risk data and a racial equity lens in the analysis. By integrating information from the public with numerical modeling and measurable data, this research improves decision-making so that it is data driven. It takes a step toward addressing the complex nature of resilience by looking at what it means to different communities.

Notable Features

- **The framework acknowledges the benefit of community resilience.** Its replicable scientific method allows community engagement to become a part of the standard process of resilience assessment.
- **It requires the direct input of underserved communities.** The framework actively includes underserved residents in the development of the data outputs.
- **It assesses the correlation between race, ethnicity, and social vulnerability.** The framework recognizes that communities of color and Indigenous peoples have experienced greater risk from a history of structural and environmental discrimination.
- **It produces a data model for community use.** The data model is one that decision-makers can apply to a range of applications, including plan evaluation and prioritizing investments.

- **It integrates multiple aspects of coastal risk.** The framework incorporates economic, social, and environmental variables using a consistent set of metrics.

People Involved

- Scott Hemmerling, Director of Human Dimensions, The Water Institute of the Gulf, led the work as the primary investigator.
- Jessi Parfait, Research Associate, The Water Institute of the Gulf, anthropologist.
- Colleen McHugh, Senior Adaptation Planner, The Water Institute of the Gulf, planner.
- Harris Bienn, Geospatial Scientists/Lead GIS Analyst, The Water Institute of the Gulf, led mapmaking and analysis.
- Allison DeJong, Planner, The Water Institute of the Gulf, assisted in outreach, planning, and analysis.
- Erin Kiskaddon, The Water Institute of the Gulf, assisted in outreach, planning, and analysis.

Additional Resources

- [Report Summary and Key Team Members](#).

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