



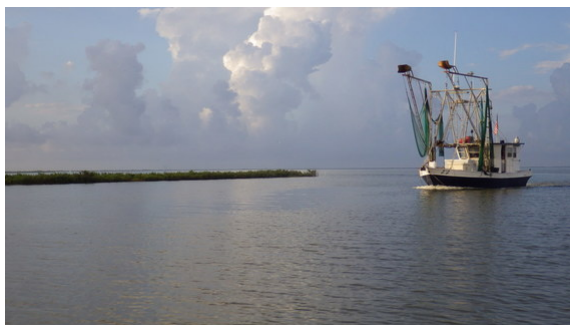
## A LOOK BACK AT 2023

As 2023 comes to a close, we wanted to take a look back and celebrate a year of accomplishments, partnerships, and collaborations toward our mission of working with multiple partners to bring world-class science to today's environmental challenges. Looking forward to 2024!



## Founding of Gulf Center of Equitable Climate Resilience

The Gulf Center for Equitable Climate Resilience (Center) works with partners, stakeholders, and local communities to enhance and expand climate resilience equitably in the northern Gulf of Mexico. The Center was founded at The Water Institute this year along with the hiring of Renee Collini as director. Read more about the program [here](#).

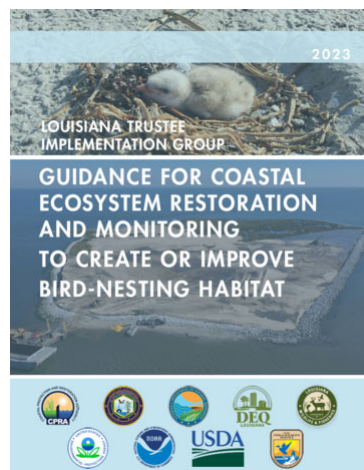


## Helping fishing communities develop more resilient futures

The Water Institute is working with community and fishing industry leaders to develop strategies to make Asian American fishers and shrimpers more resilient to economic and environmental challenges. Read more about the work [here](#).

## Release of guidance for coastal managers to create or improve bird-nesting habitat

The Water Institute worked with partners to organize more than 100 facilitated calls and working sessions over a period of two years which brought together subject matter experts, ecosystem restoration project team members, and agency representatives who are involved in coastal restoration activities. This extensive input, along with a broad literature review, were used to develop the, “Guidance for Coastal Ecosystem Restoration and Monitoring to Create or Improve Bird-Nesting Habitat” document released this year. Read more [here](#).



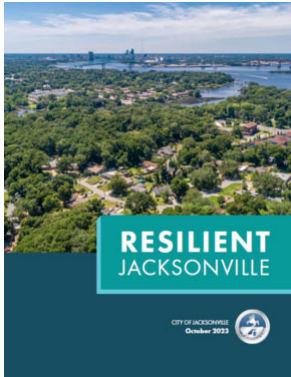
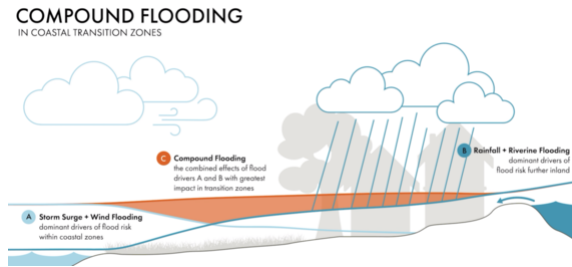
## UNO/Institute partnership brings students to Netherlands for advanced graduate study

The second year of the University of New Orleans/The Water Institute partnership brought graduate students from across the country to the Netherlands for a two-

week intensive modeling, fieldwork, and flume laboratory water management training. The program is funded through a National Science Foundation grant. Read more [here](#).

## Formation of Coastal and Compound Flood Risk team

The Water Institute reinforced our focus around identifying and analyzing compound flood risk through the development of a new team led by Muthukumar "Muthu" Narayanaswamy. Read more [here](#). Watch video [here](#).



## Jacksonville Resilience Strategy released in October

The Water Institute, along with partners SCAPE, Acuity Design Group, Inc., Halff, and Fernleaf, worked with the City of Jacksonville leadership and community stakeholders to develop a data-driven and science-based resilience strategy for the city. Read more [here](#) and [here](#).

## Beaux Jones selected as The Water Institute's President and CEO

The Water Institute's Board of Directors unanimously voted to appoint Beaux Jones as president and CEO during their Dec. 11 board meeting.

“The Institute has a vision of resilient and equitable communities, thriving economies, and sustainable ecosystems and we cannot make this happen alone. It's critical we work together across sectors, disciplines, parties, industries, and boundaries.” Read more [here](#).



## Remembering our friend and former leader Justin Ehrenwerth

We remember our former president and CEO Justin Ehrenwerth who we lost this year. His contributions to The Water Institute, and larger legacy to coastal restoration and water management, won't be forgotten. Read more [here](#).

## SELECTED PUBLICATIONS

- Morphodynamic Preservation of Fluvial Channel Belts
- Characterizing the response of the coastal Rio Grande to upstream damming
- Unstructured-grid approach to develop high-fidelity groundwater model to understand groundwater flow and storage responses to excessive groundwater withdrawals in the Southern Hills aquifer system in southeastern Louisiana (USA)
- Reevaluating the wave power-salt marsh retreat relationship
- A community-informed transdisciplinary approach to coastal restoration planning: Maximizing the social and ecological co-benefits of wetland creation in Port Fourchon, Louisiana, USA
- Sources of Clay-Rich Sediment in Eberswalde Crater, Mars With Implications for Biopreservation Potential
- Rhodium-SWMM: An open-source tool for green infrastructure placement under deep uncertainty
- Vegetation-Driven Seasonal Sediment Dynamics in a Freshwater Marsh of the Mississippi River Delta
- Hydrodynamics and Sediment-Transport Pathways along a Mixed-Energy Spit-Inlet System: A Modeling Study at Chincoteague Inlet (Virginia, USA)
- Influence of Increased Freshwater Inflow on Nitrogen and Phosphorus Budgets in a Dynamic Subtropical Estuary, Barataria Basin, Louisiana
- Hydrodynamics and Sediment-Transport Pathways along a Mixed-Energy Spit-Inlet System: A Modeling Study at Chincoteague Inlet (Virginia, USA)
- Quantifying the Potential Contribution of Submerged Aquatic Vegetation to Coastal Carbon Capture in a Delta System from Field and Landsat 8/9-Operational Land Imager (OLI) Data with Deep Convolutional Neural Network
- Evaluation of emission reduction and other societal and environmental outcomes: Structured decision making for the Louisiana climate action plan
- Long-term sea level rise modeling of a basin-tidal inlet system reveals sediment sinks

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## Please Support Our Work

Climate-driven impacts are happening with greater frequency and affecting a larger number of people every year. Help support our work in developing and delivering tools and approaches that can help communities face these challenges.

**Give Now: Your support is critical to our mission**

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