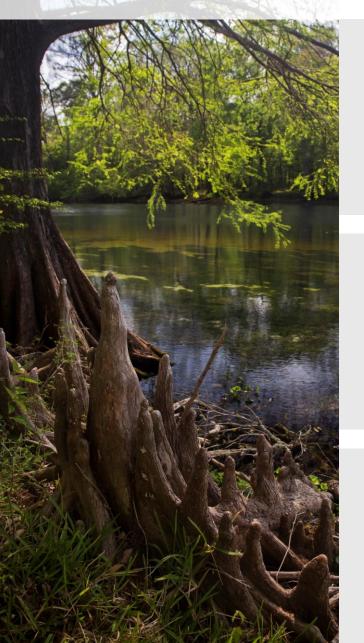




Mission: to build a diverse community that conducts **interdisciplinary** research, education and outreach to understand and solve complex water challenges

Goals



People: Foster strategic internal and external partnerships to accelerate water-related research, education, and outreach programs.

Knowledge: Deliver high-impact, interdisciplinary research and education programs that confront critical water challenges at state, national, and global levels.

Action: Inform water management through actionable research, expert guidance, and robust stakeholder engagement and outreach

Interdisciplinary Excellence

417 Affiliated Faculty

80 departments across 11 colleges.





Assistance



Scientist-Stakeholder Partnerships



UF Water Scholars Program



Biennial Symposia













A PARTNERSHIP BETWEEN STATE, FEDERAL, AND COUNTY GOVERNMENTS TO PROVIDE SCIENTIFIC KNOWLEDGE TO THE PUBLIC

Initiative 2

Enhance and protect water quality, quantity, and supply

Photo by Charles Barrett

Northeast District 2 Northwest District 1 Central District 3 Southwest District 4 Southeast

149 Faculty with Extension appointment

Water Resources Regional Specialized Agents

Create and Deliver: Develop engaging educational materials to inform and inspire communities about water resources.

Build Partnerships: Build Partnerships: Forge strong connections with federal, state, and local stakeholders to collaboratively tackle local and regional water challenges

Unite Efforts: Coordinate a statewide initiative to integrate and amplify successful water programs, enhancing water quality, quantity, and supply across regions.

Extension Water Programs























Providing **science-based solutions** to protect and conserve Florida's valuable water and other natural resources by promoting policies and practices that lead to measurable impact.

Research and Extension programs largely relate to water quality and quantity and various best management practices (BMPs) in the following areas:

- Agriculture
- Urban and suburban landscapes
- Large-scale development

Turning Research into Practice



Conduct research and educate on **how people form and act on opinions** regarding complex agricultural and natural resources issues.

Encourage informed decision-making in three important areas:

- Exploring emerging issues impacting food and agriculture
- Advancing the responsible use of water and conservation of natural resources
- Helping communities and organizations understand and adapt to changing agricultural and natural resources issues

Turning Research into Practice



Water-Related Projects





Impacting coastal communities

 Evaluated the response efforts of governmental agencies and nonprofit organizations after the 2010 Deepwater Horizon oil spill

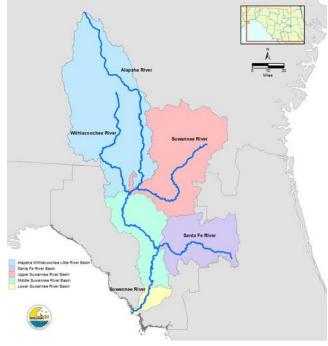
Increasing the awareness of and engagement in the use of water

 Impacted at least 9,000 homes in the Orlando area to alter their water use and landscaping policies



Nature Coast Region

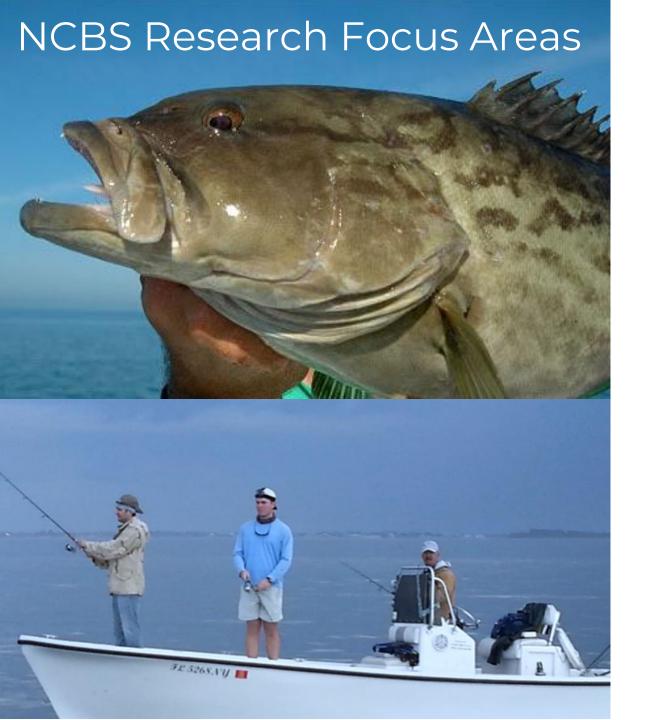








- Row Crop
- Agriculture
- Fisheries
- Forestry
- Shellfish
- Aquaculture
- Tourism
- Wildlife



- Natural resource work including habitat (seagrass, oyster, salt marsh, mangrove)
- Fish and wildlife studies (sport fish, wading birds, reptiles, etc.)
- Shellfish aquaculture
- Living shorelines and coastal community resilience measures
- Impacts of land use and climate change on estuary natural resources – critical goal!

The Center for Coastal Solutions

MISSION:

To develop and deliver the best available science and tools that support decision-making for a healthy and resilient coastal future.

Research Pillars







NATURE-BASED SOLUTIONS

FORECASTING COASTAL HAZARDS

OPTIMIZING WATER
QUALITY DECISIONS

FLORIDA'S DIGITAL TWIN



Areas of Expertise

\$27 M | 32 projects
51 partners | 140+ Pubs
21 Alumni | 40 Affiliates
4 Novel Decision
Support Tools



- Al | machine learning | supercomputing
- Advanced forecasting capabilities for tropical cyclones, red tide detection
- Earth system modeling, which incorporates physical, chemical, and biological processes
- Digital Twin technologies
- Radical collaboration toward solutions



- Robust field operations boats, equipment, tools, experienced technicians
- Diverse multidisciplinary expertise
- Strong network of partners / collaborators
- In-house technical, project management and stakeholder engagement expertise
- Effective communications and products, including newsletter & social media channels
- Professional facilitation & event management



Mission:

"... to support *integrated* research, education and extension to conserve coastal resources <u>and</u> enhance economic opportunities for the people of Florida"

National Focus Areas

Leverage expertise of coastal and ocean scientists through Campus Coordinators at 19 universities and research laboratories across the state

34 Affiliate Faculty 21 Extension Agents 17 Campus coordinators









Environmental Literacy & Workforce Development





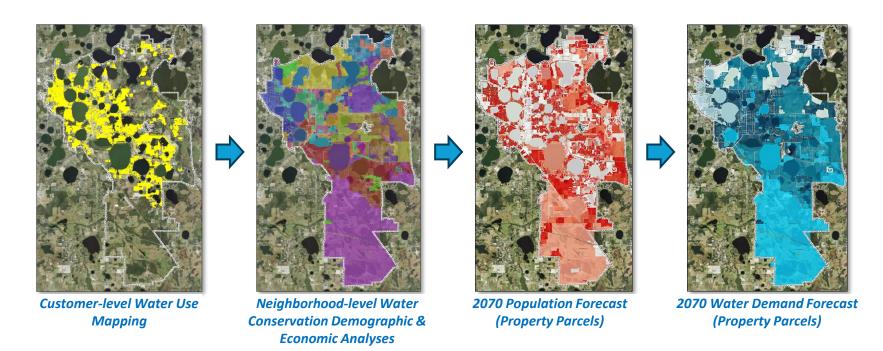
Bureau of Economic and Business Research

- Conducts economic, demographic, survey, and social network research that will inform public policy and business decision-making
- Produces official population estimates & projections for Florida
- Conducts Monthly Statewide
 Consumer Attitude Surveys

BEBR Water Resource Modeling Expertise



- Population Growth and Water Demand Forecasting
- Utility Customer Geocoding & Data Mining
- Water Supply Planning & Water Use Permitting Support
- Water Conservation Tools, Databases & Studies
- 30+ years of forecasting, GIS, database, and expert witness services for Florida's Water Management Districts and utilities

























Bureau of Economic and Business Research



Juniper Springs I Photo by: Floridawanderer