



<http://www.gcrc.uga.edu>



Goals

- To provide mechanisms for improved scientific exchange between coastal scientists and decision makers.
- To promote the incorporation of best-available scientific information into State and local resource management.

Personnel

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Project Coordination – Janice Flory, Margaret Myszewski, Christine Laporte

Research Staff – Joan Sheldon, Wade Sheldon, Travis Douce

Affiliated Scientists and Managers (116)

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Coastal Carolina University

Georgia College and State Univ.

Georgia Institute of Technology

Georgia Sea Grant

Georgia Southern University

Indiana University

Louisiana State University

The Ohio State University

Savannah State University

Skidaway Inst. of Oceanography

State University of West Georgia

University of Florida

UGA & UGAMI

UGA Marine Ext. Service

University of Houston

University of Massachusetts

University of New England

GA DNR, CRD

GA DNR, EPD

GA DNR, WRD

Georgia Forestry Commission

Nat'l Marine Sanctuaries Program

National Park Service

NOAA

Private consulting firm

Sapelo Island NERR

S. Cal. CWRPA

US Army Corps of Engineers

US Geological Survey

GCRC Approach

Facilitating interactions between scientists & managers

- Listserv

- Meetings

- Website (www.gcrc.uga.edu)

Synthesizing technical information

- Environmental effects of docks and marinas

- Oil spill physical oceanography summit

- Offshore wind energy: considerations for Georgia

Conducting research

- Watershed assessments

- Marsh dieback

- Coastal water quality

- Regional research needs

Communicating results

- Georgia Sound articles

- Coastal advisory committee meetings and other venues

- Website

Offshore Wind Energy: Considerations for Georgia

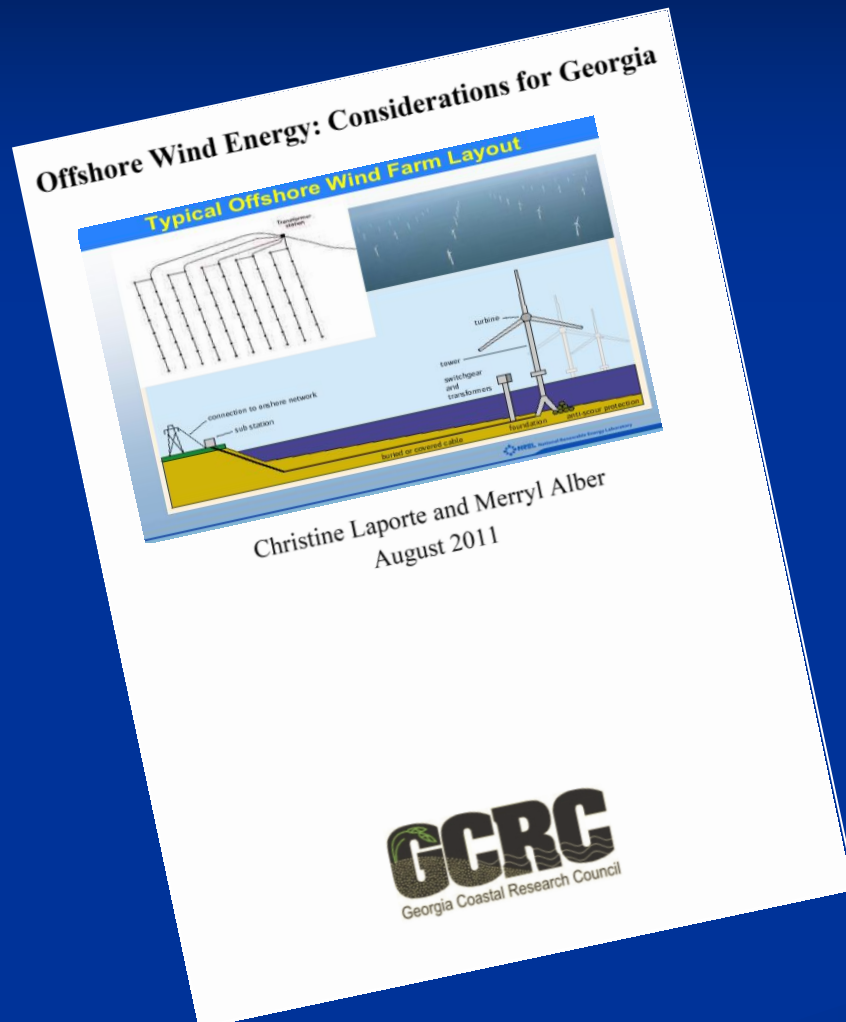
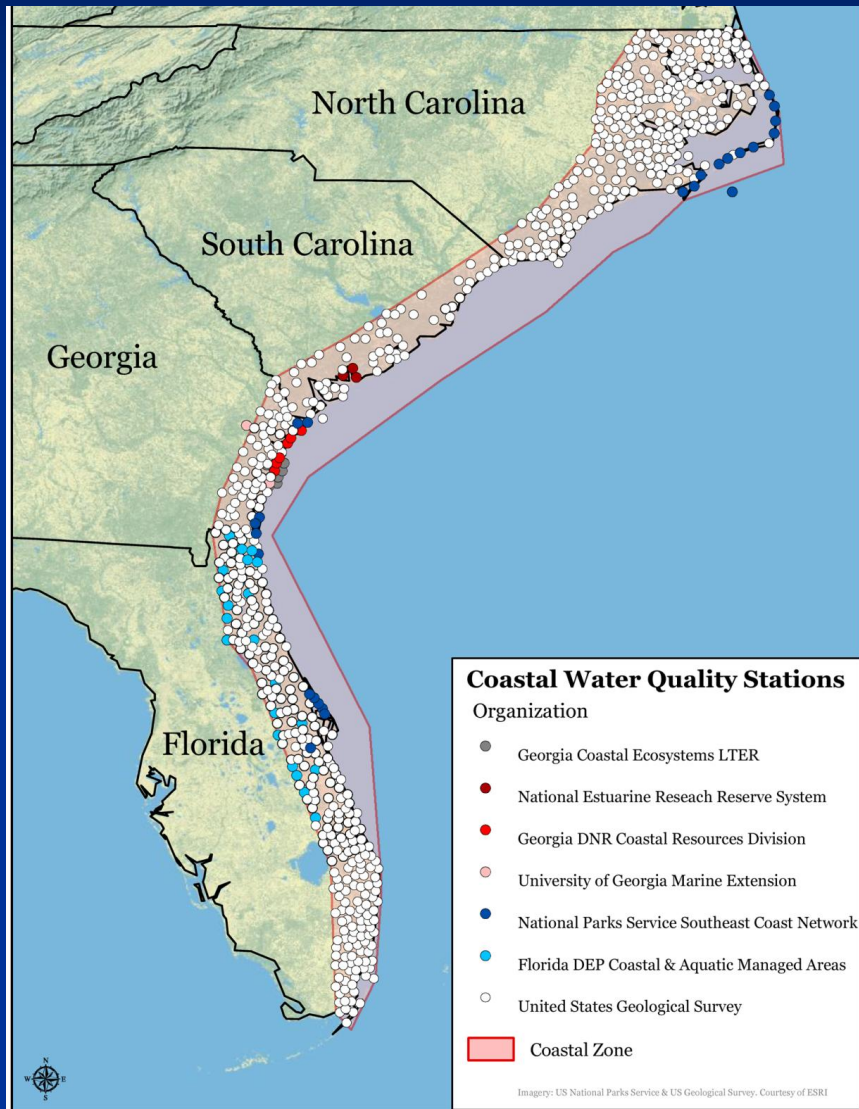


Table of Contents

- I. Introduction
- II. Components of an offshore wind energy installation
- III. Technical considerations
- IV. Environmental considerations
- V. Planning
- Appendix A. Permitting and regulatory
- Appendix B. Additional resources

Southeast Coastal Water Quality Portal



Goal: To develop a database and web portal of water quality monitoring program metadata

www.gcrc.uga.edu/wqmeta

41 monitoring programs with WQ data from 16,182 monitoring sites



Southeast Coastal Water Quality

NPS Water Quality Database - Mozilla Firefox

File Edit View History Bookmarks Tools Help

NPS Water Quality Database

You are logged on as Wade Sheldon

SE Coastal Water Quality Monitoring Metadata Project

Home > Search Sites/Stations

Search for Monitoring Sites and Stations

Program: [\(select all\)](#)

Site Name: [\(partial site name\)](#)

Site Type:

- ☒ Ground Water Station
- ☒ Meteorological Station
- ☒ Nutrient Sampling Station
- ☒ Shellfish Contaminants
- ☒ Streamflow Station
- ☒ Water Quality Station

☐ fixed site ☐ probabilistic site

Parameter: [\(parameter name\)](#)

Date Range: 1/1/1990 to

Hydrologic Unit: [\(8-digit HUC\)](#)

Geographic Bounding Box: [Zoom in to the region you want to search \(click on the magnifying glass to zoom in\)](#)

[\(decimal degrees\)](#)

Display Options: Format: Web page (HTML table)

Done

NPS Water Quality Database - Mozilla Firefox

File Edit View History Bookmarks Tools Help

NPS Water Quality Database

SE Coastal Water Quality Monitoring Metadata Project

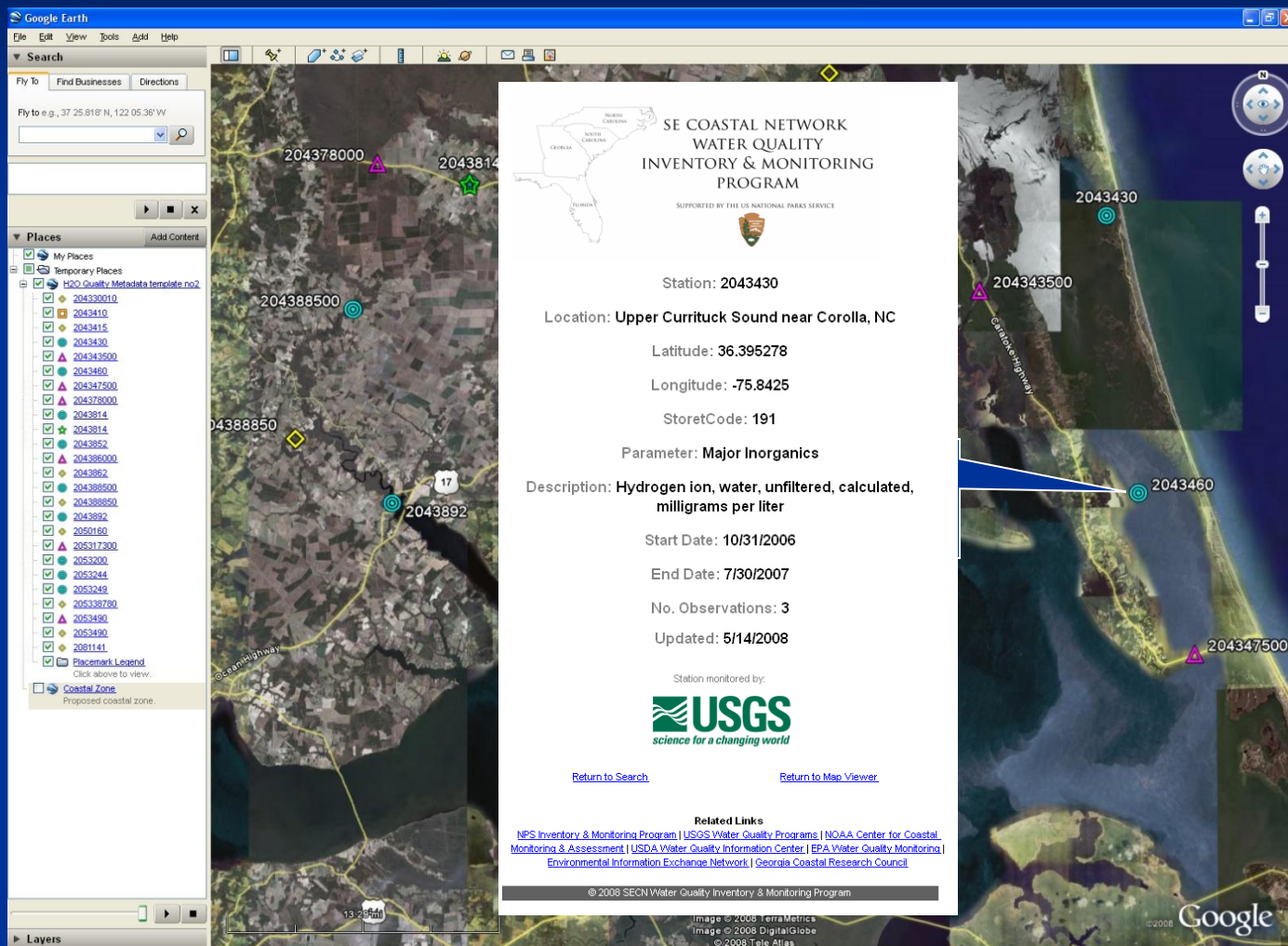
Home > Search Sites/Stations > Site/Station Details

Site or Station Details

Site/Station	acemcnut - Mosquito Creek nutrient sampling station
Organization	NERRS - NOAA National Estuarine Research Reserve System (NERRS)
Program	Ace Basin NERR Monitoring Program
Location	ACE Basin National Estuarine Research Reserve, South Carolina
Coordinates	32.55580° N, -80.43800° W
Date Range	Mar 01, 2002 to the present (last updated Mar 26, 2009)
Web Links	Web Page: http://www.dnr.sc.gov/marine/NERR/index.html
Site Map	

Parameters	Type	Name	Category	Alias	Tags	Probabilistic	Storet Code
nutrients	Ammonia	Nitrogen	NH4F			no	71846
nutrients	Chlorophyll a	Pigments	CHLA_N			no	32217
nutrients	Inorganic nitrogen	Nitrogen	DIN			no	
nutrients	Nitrate	Nitrogen	NO3F			no	71850
nutrients	Nitrite	Nitrogen	NO2F			no	71855
nutrients	Nitrite plus nitrate	Nitrogen	NO23F			no	00630
nutrients	Orthophosphate	Phosphorus	PO4F			no	00660

Southeast Coastal Water Quality



Google Earth

File Edit View Tools Add Help

Search

Fly To Find Businesses Directions

Fly to e.g., 37.25.818° N, 122.05.36° W

Places

- My Places
- Temporary Places
- H2O Quality Metadata template no.2
- 204330010
- 2043410
- 2043415
- 2043430
- 204343500
- 2043460
- 204347500
- 204378000
- 2043814
- 2043814
- 2043852
- 204386000
- 2043862
- 204388500
- 204388500
- 2043892
- 2050180
- 205317300
- 2053200
- 2053244
- 2053249
- 205338750
- 2053490
- 2053490
- 2051141

Placemark Legend

Click above to view.

Coastal Zone

Proposed coastal zone.

SE COASTAL NETWORK
WATER QUALITY
INVENTORY & MONITORING
PROGRAM

SUPPORTED BY THE U.S. NATIONAL PARKS SERVICE

Station: 2043430

Location: Upper Currituck Sound near Corolla, NC

Latitude: 36.395278

Longitude: -75.8425

StoretCode: 191

Parameter: Major Inorganics

Description: Hydrogen ion, water, unfiltered, calculated, milligrams per liter

Start Date: 10/31/2006

End Date: 7/30/2007

No. Observations: 3

Updated: 5/14/2008

Station monitored by:

USGS
science for a changing world

[Return to Search](#) [Return to Map Viewer](#)

Related Links

[NPS Inventory & Monitoring Program](#) | [USGS Water Quality Programs](#) | [NOAA Center for Coastal Monitoring & Assessment](#) | [USDA Water Quality Information Center](#) | [EPA Water Quality Monitoring](#) | [Environmental Information Exchange Network](#) | [Georgia Coastal Research Council](#)

© 2008 SECN Water Quality Inventory & Monitoring Program

Image © 2008 TerraMetrics
Image © 2008 DigitalGlobe
© 2008 Tele Atlas

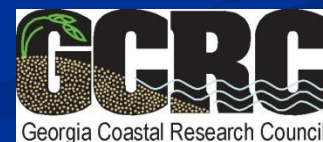
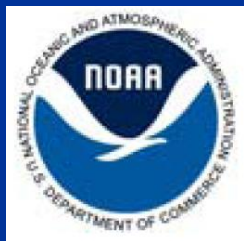
Google

South Atlantic Regional Research Project



Goal: To develop a coordinated coastal research approach for the southeast region.

<http://www.gcrc.uga.edu/sarrp>




South Atlantic Regional Research Plan

Healthy Ecosystems
Working Waterfronts
Clean Coastal and Ocean Waters
Disaster-Resilient Communities



http://www.gcrc.uga.edu/SARRP/Documents/SARRP_ResearchPlan_2010.pdf



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Coastal News and September 2011 Announcements

Scroll down to see all the announcements or click directly on items of interest.

GCRC Report	Offshore Wind Energy: Considerations for Georgia
Funding	Climate Adaptation FY 2012-2013 (NOAA-Sea Grant)
	Environmental Chemical Sciences (NSF)
	Dynamics of Coupled Natural and Human Systems (NSF)
	Physical Oceanography (NASA)
	Water Sustainability and Climate (NSF)
	Land Cover, Land Use Change (NASA)
Fellowship	Early-Career Research Fellowships in Ocean Sciences (Sloan Foundation)
Conferences	Societies, Estuaries and Coasts (CERF 2011)
Resources	New Tool: Marine Mapping Applications
	Ecosystem-Based Management Tools Network
	Coastal & Estuarine Science News (Coastal and Estuarine Research Federation)
	Materials Available: Planning for Climate Change (NERRS)
	Gulf of Mexico News (NOAA Ocean Service)
Documents of Interest	America's Ocean Future (JOCI)
	Climate Ready Estuaries Annual Progress Report (EPA)
	Next Generation Strategic Plan (NOAA)
	Working Waterways & Waterfronts Symposium
	Adapting to Climate Change: A Planning Guide for State Coastal Managers (NOAA)
	Adapting to Climate Change: A Call for Federal Leadership (Policy paper from the Pew Center)



Georgia Coastal Research

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Feel free to submit project summaries! Download the [blank form](#) (Word document), fill it out, and [email](#) it back to us.

Watershed Linkages

- [Study of Human Impacts on the Salinity Regimes of Coastal Georgia Estuaries](#)
Richard Wiegert, [Merryl Alber](#), Alice Chalmers (Dept. of Marine Sciences, Univ. of Georgia) and [Jackson O. Blanton](#) (Skidaway Inst. of Oceanography)
- [The Impact of Land Use Changes on the Salt Regimes of Georgia Estuaries](#)
Richard Wiegert, [Merryl Alber](#), Alice Chalmers (Dept. of Marine Sciences, Univ. of Georgia) and [Jackson O. Blanton](#) (Skidaway Inst. of Oceanography)

Internet

100%

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[Please read the note at page bottom.]

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We have compiled a list of research issues and information needs from individuals and organizations participating in GCRC activities over the last couple years. They are roughly organized into four categories --

- [Fisheries](#)
- [Habitat](#)
- [Water and sediment quality/quantity](#)
- [Management and communications](#)

Fisheries

- Status of and trends in Georgia blue crab and shrimp fisheries
- Identification of spawning sites for recreationally important Sciaenids
- Assessment of Georgia inshore and offshore artificial reefs as fish habitat
- Boating and fishing access needs and impacts assessment for coastal Georgia
- Identification of critical habitats for early life stages of Red Drum, Spotted Seatrout, Southern Kingfish, Sheepshead, and Southern Flounder
- Life history and population dynamics of Tripletail in coastal Georgia
- Estimates of fishing and natural mortality for southern kingfish
- Acute and chronic mortality of adult red drum following catch-and-release in the recreational fishery
- Development of a coastal Georgia Fisheries Habitat Plan using GIS
- Current oyster acreage maps
- Sources of funding for shellfish aquaculture development
- Characterization/quantification of impacts to Essential Fish Habitat (EFH) and fisheries productivity
- Assessment/monitoring of manmade and natural reefs and associated communities
- Monitoring techniques/methodologies for Georgia's offshore, coastal, and estuarine reefs
- Sociological and economic evaluations associated with offshore/inshore artificial reef development, user groups, and trends
- Improvements in artificial reef technology (eg., designed units, siting, material configurations, etc.) to maximize the development of reef communities
- Life history investigations
- Improved fishery assessments, with increased/coordinated fishery-dependent and fishery-independent monitoring/surveys regionwide
- Bottom mapping on the continental shelf, mapping/modeling of circulation and effects of terrestrial and ocean climate/weather events on circulation patterns associated with fish spawning and recruitment on the shelf
- Marine protected areas
- Cause of decline in blue crab stocks
- More complete knowledge of the early life history of exploited estuarine and marine fishes indigenous to coastal Georgia
- Definitive information on the habitat preferences of all life stages of exploited estuarine and marine fishes and invertebrates indigenous to coastal Georgia