

Decision Support and Management Tools for Adaptive Public Health Practices: A Pre-emptive Advisory System for Swimming Beach, Recreational and Shellfish Harvesting Waters

Dwayne E. Porter, Geoff Scott, Matt Neet, Dan Ramage, Zac Hart and Jeremy Cothran University of South Carolina Heath Kelsey and Emily Nastase University of Maryland

> Jen Dorton SECOORA

North Carolina

61

Florida

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South Carolina

Georgia



Buoy or Coastal Station

Planned HFR

LEGEND

Camera Location

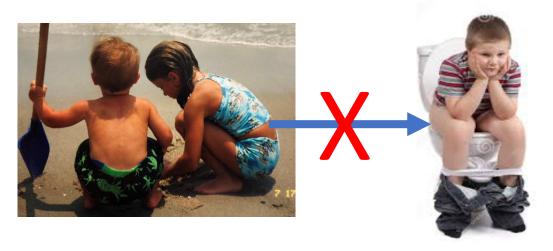




Objective and Approach

Goal

The ultimate **goal** of our work is to assist public health, beach management, tourism officials **and the public** in support of improved decision making.



Objectives

Our **objectives** are to:

- Develop locally-relevant decision-support tools to support our goal;
- Promote geographic and thematic transferability of our approach to tool development; and
- Support communityengagement activities to support improved decision making.

Accomplishments

With the second second



Impact



How's the Beach?

Headed to the beach? Use this app to see if the water quality is healthy before diving in!



Did you know bacterial levels at some swimming beaches and recreational waters are a public health concern?

How's the Beach makes daily forecasts of bacteria conditions for Nags Head, NC, the Grand Strand and Charleston, SC. and Sarasota, FL, These forecasts do not represent swimming advisories; however, they do provide the public with information on beach water quality.

Did you know?

Enterococci are bacteria that inhabit the intestinal tract of humans and animals. The presence of these bacteria in recreational waters can be an indication of fecal pollution. If enterococci are present, it is more likely that pathogens that cause disease, infections or rashes may also be lingering. How's the Beach provides daily forecasts of bacteria levels.



🥕 www.howsthebeach.org

Locations

How's the Beach is easy to use. Visit www.howsthebeach.org on your computer or phone. Click on a location and check the

local bacteria level forecasts before heading to the heach Daily forecasts are available for selected swimming beaches and recreational waters, but that number is continuing to grow.

Map

Use the map to view the forecasted bacteria level for specific locations. Information is updated every 24 hours.

Use the search function

Forecasts are made based

on relationships between

bacteria level and rainfall,

salinity, wind conditions, and water temperature. The black dots represent

to view a list of the

forecasted bacteria levels

Search

Data

samples.

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Aerial View Explore the location of each sampling and forecast location

actual water quality

Disclaimer: This product is for informational purposes only. Please consult your state and local health departments for official beach advisory information

at University of South Carolina, Southeast Coastal Ocean Observi SECOORA Regional Association, and the Integration and Application Network a the University of Maryland Center for Environmental Science.



Midlands River Coalition

· Bacteria levels are monitored so that you can better understand the quality of the water you might recreate in. High levels of bacteria increase the risk of getting infections or rashes from pathogens in fecal pollution from animals and humans. · Weekly water quality monitoring occurs at several highly recreated areas on the Lower Saluda, Broad, and Congaree Rivers, including the Saluda Shoals canoe landing, the Rosewood Drive landing, and the Broad River Rowing Club. For a more comprehensive list of locations, visit HowsmySCRiver.org.

