

Albemarle - Pamlico



National Estuary Program
North Carolina

ALBEMARLE-PAMLICO NATIONAL ESTUARY PROGRAM

CITIZENS'

MONITORING

NETWORK

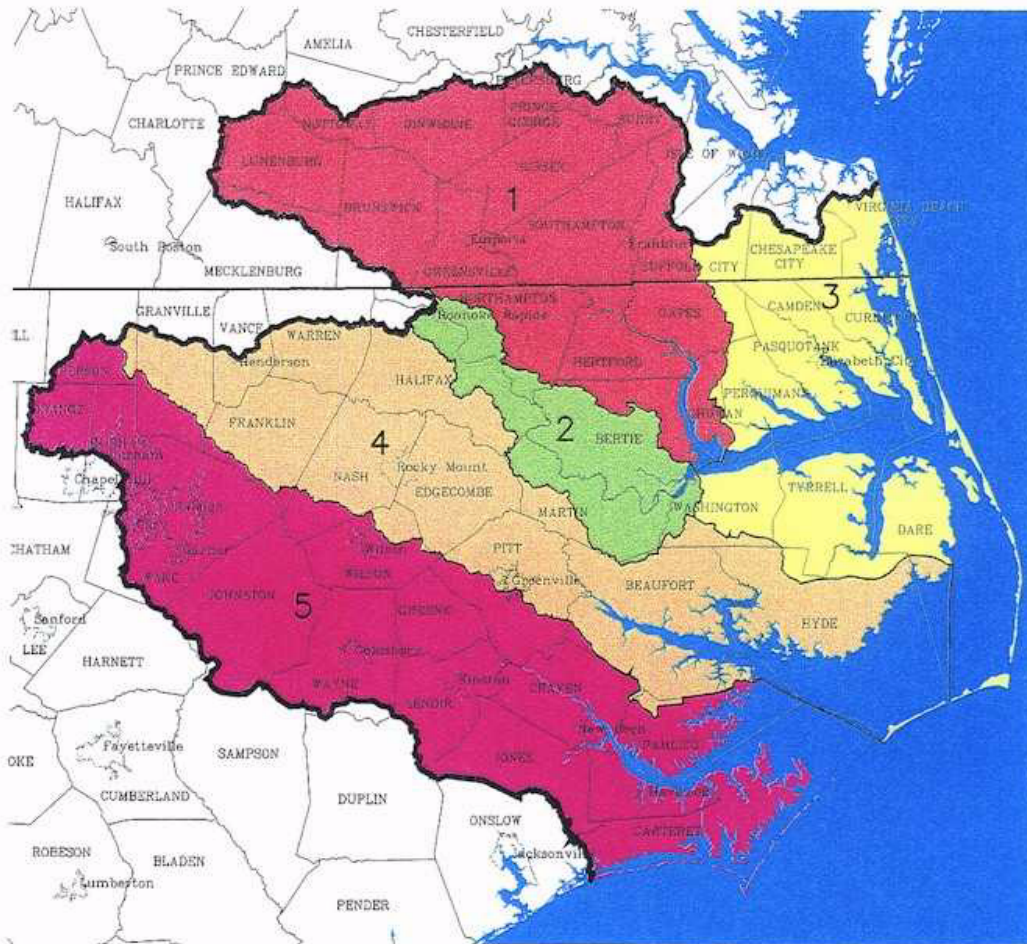
Background

- 1988: CMN originated with the Pamlico-Tar River Foundation
- 1988 -1991: Program sampled areas within the Tar-Pamlico River Watershed Basin
- 1991: Responsibility for the Program was transferred to the Albemarle-Pamlico National Estuary Program through funds provided by EPA

ALBEMARLE-PAMLICO NATIONAL ESTUARY PROGRAM REGION

Study Area

- Approximately 23,000 square miles of watershed
- 9,300 miles of freshwater rivers and streams
- 1.8 million acres of brackish estuarine waters



- 1 - Chowan River Basin
- 2 - Roanoke River Basin
- 3 - Currituck Sound & Pasquotank River/Albemarle Sound Drainage Basin
- 4 - Tar-Pamlico River & Pamlico Sound Drainage Basin
- 5 - Neuse River Basin & Core Sound/Bogue Sound Drainage Basin



What are the benefits of collecting water quality data with volunteers?

- **Educate volunteers about water quality and the environment**
- **Educate and promote environmental awareness to family, friends and/or passersby**
- **Volunteers become more aware of changes to local water quality conditions**
- **Volunteers can alert officials or program staff about changing water quality conditions or other environmental related problems**

What variables do the CMN volunteers measure?

- Air and Water Temperature
- Salinity or Conductivity (depending on location)
- pH
- Dissolved Oxygen
- Transparency (visual water clarity)
- Total Depth of Water
- Chlorophyll a, Phosphates, Nitrates (Chowan River only)
- In addition, volunteers record visual observation of the weather, rainfall amounts, and surface water conditions.

Who are our Volunteers? Where do they come from?

- Retired individuals
- Neighborhood and community groups
- College science clubs
- Elementary, junior high, and high school students
- As well as other individuals of various ages and educational backgrounds











Citizens' Monitoring Network contact information:

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- **CMN office is located on the campus of East Carolina University in Greenville, NC**
- **<http://www.ecu.edu/icmr/cmnn/>**
- **<http://www.apnep.org/>**