

**ALBEMARLE-PAMLICO NATIONAL ESTUARY PROGRAM**

***CITIZENS'***  
***MONITORING***  
***NETWORK***

# Albemarle - Pamlico



National Estuary Program  
North Carolina

# History

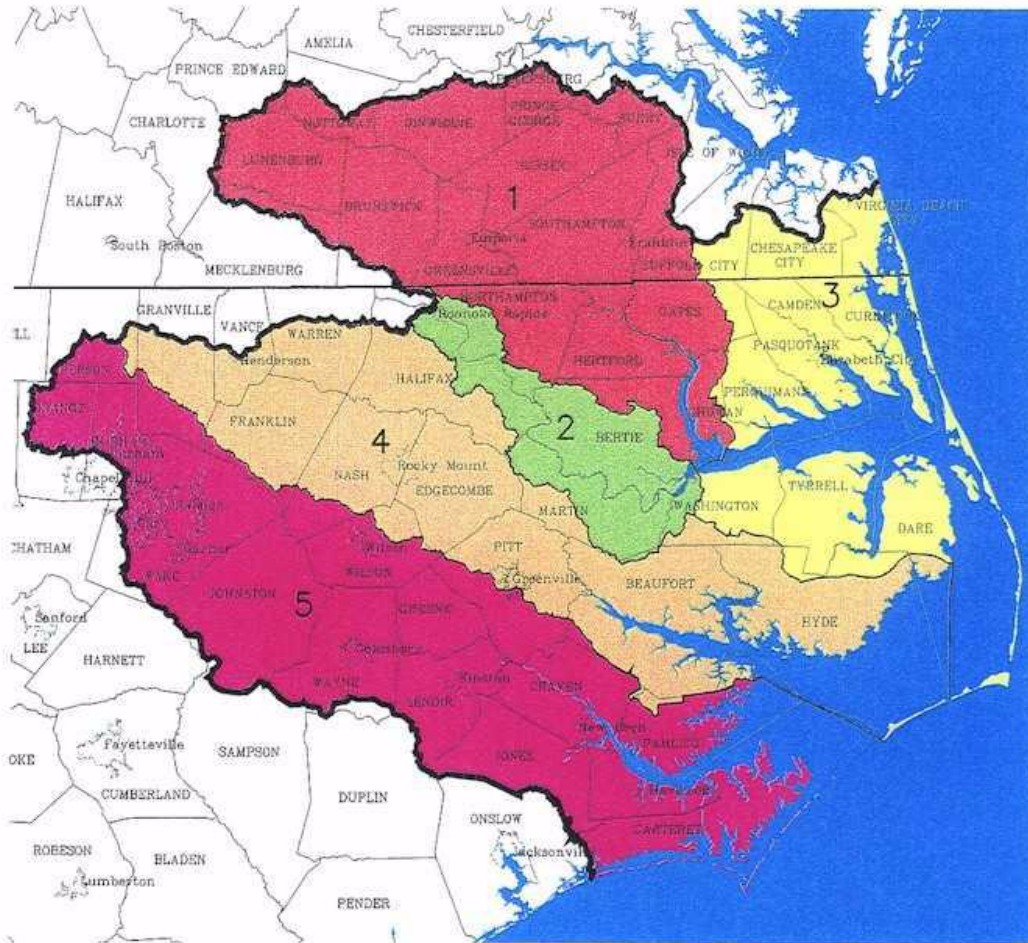
- 1988: CMN originated with the Pamlico-Tar River Foundation
- 1988 -1991: Program sampled areas within the Tar-Pamlico River Watershed Basin
- 1991: Responsibility for the Program was transferred to the Albemarle-Pamlico National Estuary Program through funds provided by EPA



# ALBEMARLE-PAMLICO NATIONAL ESTUARY PROGRAM REGION

## Study Area

- **Approximately 30,000 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**

# 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







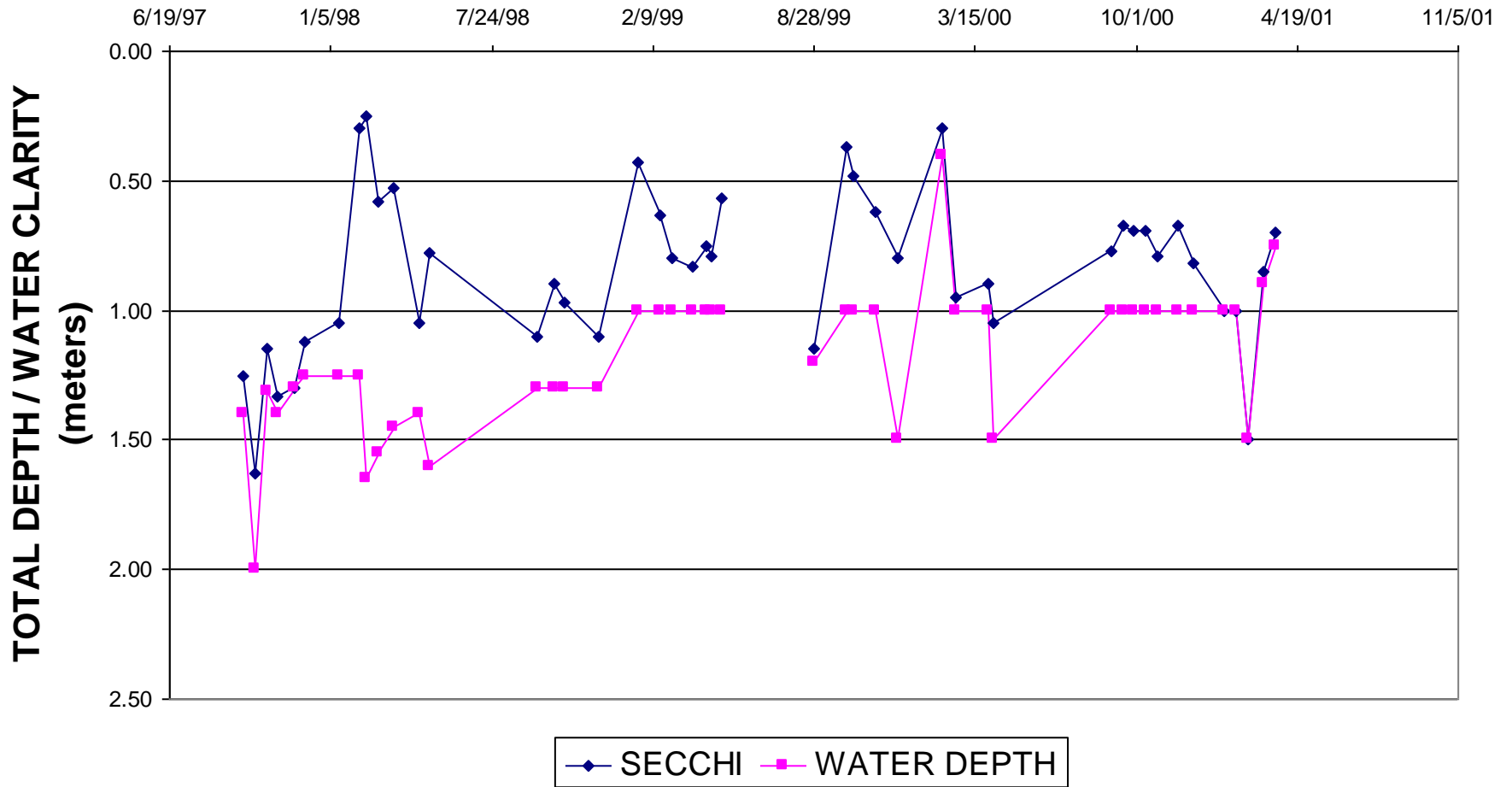


# What variables do the CMN volunteers measure?

- 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.

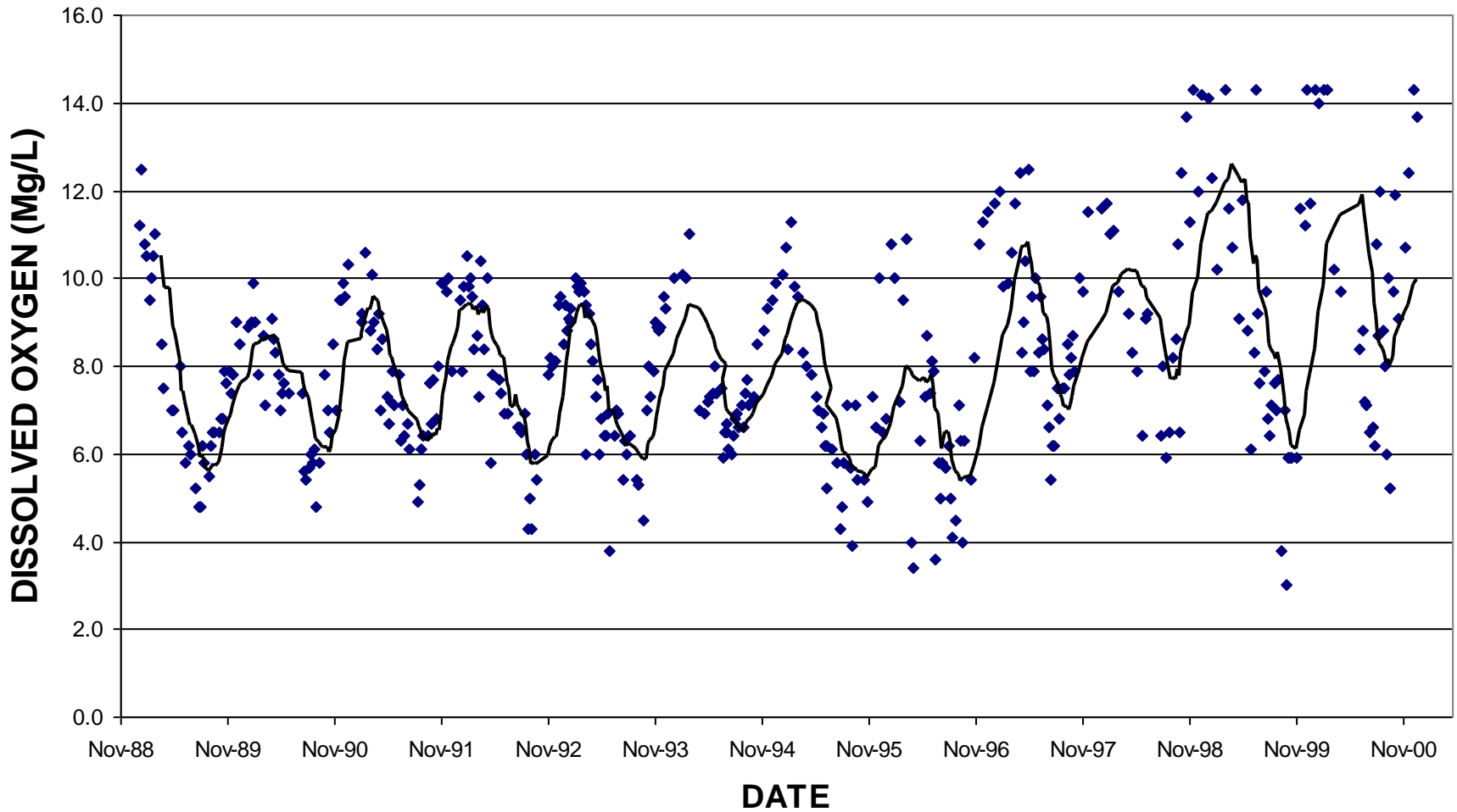
# SITE 27A SALMON CREEK CHOWAN RIVER J.P. LAW ELEMENTARY

DATE



# SITE 05C CHOWAN RIVER ARROWHEAD BEACH

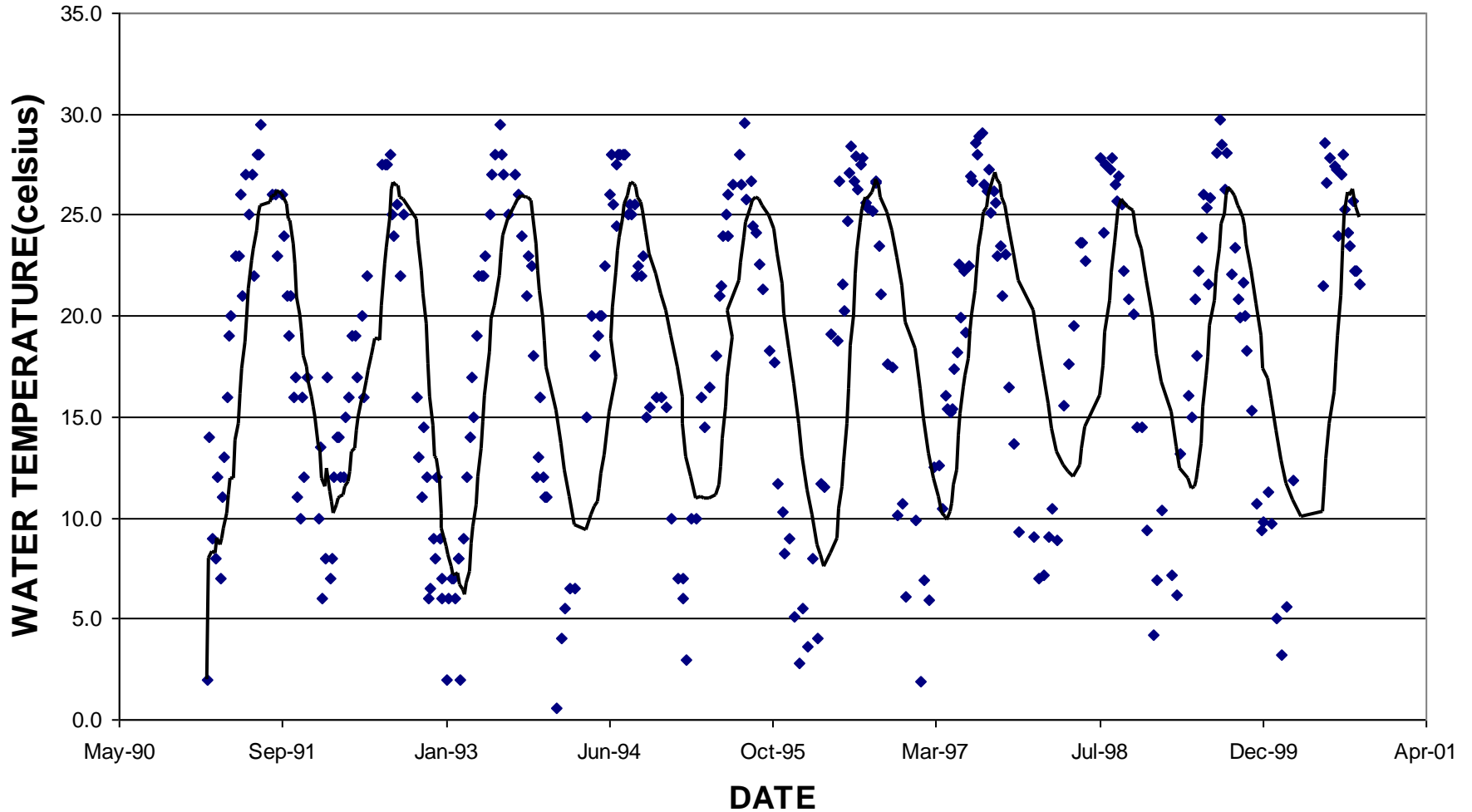
◆ DO Mg/L — 12 per. Mov. Avg. (DO Mg/L)





# SITE 05C ARROWHEAD BEACH CHOWAN RIVER

◆ WATER TEMP      — 12 per. Mov. Avg. (WATER TEMP)



# **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/cmn/>**
- **<http://www.apnep.org/>**

