

# understanding estuaries

through the use of  
data

# Data and the Estuary, WS



## A Professional Development Opportunity

**June 22-26, 2009**

This 5-day program is designed to provide teachers with the resources, knowledge and experience necessary to facilitate the integration of estuaries and their related issues into the classroom. The program accomplishes this through hands-on field-based investigations carried out in the diverse environments of the Chesapeake Bay National Estuarine Research Reserve. Teachers will have the opportunity to gather authentic data on land use, water quality, biotic communities and other parameters, analyze that data, and ultimately use this information to develop action projects that will have a positive impact on the natural systems of the Chesapeake Bay.

This program will help teachers increase their ability to:

- Utilize Estuaries 101, Chesapeake Explorations, and associate curricula
- Access tools and curricula that support STEM programming
- Design authentic student-driven investigations
- Implement Investigations
- Analyze collected information
- Develop action projects to manage and address the results of investigations

Tuition: Free

\$200 Stipend Available upon completion of the program OR

MSDE Credits: 2

For More information or to Register Contact:

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This program is supported by a partnership between: Chesapeake Bay National Estuarine Research Reserve, Jug bay Wetlands Sanctuary, and the Anita C. Leight Estuary Center

**THE NATIONAL ESTUARINE RESEARCH RESERVE SYSTEM (NERRS)** is a network of 27 protected areas established for long-term research, education and stewardship. This partnership program between NOAA and the coastal states protect more than one million acres of estuarine land and water, which provide essential habitat for wildlife; offer education opportunities for students, teachers and the public; and serve as living laboratories for scientists.

NERRS are federally designated to enhance public awareness and provide suitable opportunities for public education and interpretation.

WHO WE ARE



### OUR SITES

#### Otter Point Creek on the Bush River

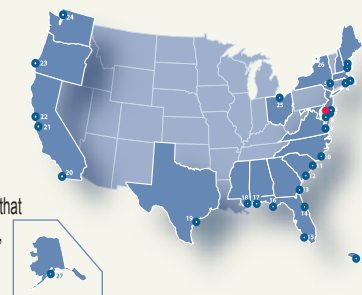
Otter Point Creek represents one of the last large expanses of tidal freshwater marsh, forested wetland and hardwood forest in the Upper Bay.

#### Jug Bay on the Patuxent River

Located in the middle Patuxent River, Jug Bay is a broad shallow embayment that supports a wealth of freshwater plants and animals, including migratory geese, duck and other birds like the secretive sora rail.

#### Monie Bay

The largest of the three sites, Monie Bay is dominated by large expanses of marsh woven with tidal creeks. It supports a high diversity of plants and animals, including wading birds, migratory ducks and geese, bald eagles, ospreys, submerged aquatic vegetation and a variety of salt marsh plants and species.



For more information, visit:

[dnr.maryland.gov/bay/cbnerr](http://dnr.maryland.gov/bay/cbnerr)