

Chesapeake Bay Research Reserve Education is Change on the Ground

2017

Connect



10 public outreach events
966 visitors reached
1,582 hours



Prepare

39 teachers trained
2,672 students engaged
4,961 student contact hours

Improve



48 volunteers
1,008 volunteer hours



"[TOTE] helped me to bring more engaging activities to the classroom which inspires the students to want to learn more."

Classroom Teacher,
Virginia Beach

"I feel programs like these are a wonderful way to show children to be good stewards of our great outdoors."
Summer Camp Parent



Developing the Future Workforce

CBNERR-VA has a history of promoting the development of applicable skills and attributes among individuals who will be the backbone of the future workforce. Through education programming, nearly 50 volunteers per year have the ability to interact with student and general public audiences to hone their communication skills. CBNERR-VA is also a large supporter of students in higher education, providing seasonal internships for undergraduate and graduate students as well as through the *Virginia Scientists and Educators Alliance* program, which trains graduate students in lesson plan development and challenges them to create a lesson plan based on their research that can then be used in classrooms to enrich K-12 science education!

Inspiring Sustainable Communities

CBNERR-VA has demonstrated a long-standing commitment to increasing the awareness of our mission by connecting with members of our local communities. The Discovery Lab program provides monthly family-friendly outreach events, allowing educators to stimulate the curiosity and awe of local citizens by focusing on a variety of marine science topics. The summer camp program has reached over 1,000 children in ten years, providing field and lab-intensive investigations into marine and estuarine ecosystems while creating a safe and fun environment for nurturing scientific literacy and promoting a sense of stewardship and altruism in future generations.

From the Field to the Classroom

CBNERR-VA has the unique and exceptional benefit of being located at the Virginia Institute of Marine Science (VIMS), one of the nation's largest marine research and education centers. The cutting-edge science being done at CBNERR-VA and VIMS has regularly been used in the development of the Reserve's educational curriculum and programs, most notably in the sea level rise-focused *Climate Education for a Changing Bay* program, which used data collected through surface elevation table (SET) work and water quality stations to educate local Earth Science students about the challenges facing their communities in the future.

Virginia's Chesapeake Bay National Estuarine Research Reserve is one of 29 sites in the National Estuarine Research Reserve System. Each site is a state - federal partnership that combines research, monitoring, and education to advance the understanding and management of estuarine environments.



National Estuarine Research Reserve Education Change on the Ground in 2017

Connects

People to Estuaries

1 million+
ACRES

of natural classrooms & living laboratories with



28 INTERPRETIVE CENTERS



650,340 VISITORS

learn about estuaries through Research Reserve outreach & education



Aloha to our Hawai'i Reserve, designated in 2017!

Prepares

the Next Generation

87,899 STUDENTS

take learning out of the abstract & into the outdoors



3,079 TEACHERS

are trained in the estuary & supported in the classroom



SKILLS BUILT

- ✓ Observation
- ✓ Asking research questions
- ✓ Problem solving
- ✓ Data driven decision making

ESTUARY SCIENCE

LOCAL DATA

LAB WORK

FIELD INVESTIGATION

Improves

the Environment

12,849 CITIZENS

are trained & inspired to protect their coasts & estuaries



VOLUNTEER ACTIONS

- ✓ Protect wildlife
- ✓ Monitor water quality
- ✓ Plant native species
- ✓ Clean up the coasts

28 RESEARCH RESERVE EDUCATORS

