Jacques Cousteau Research Reserve

Education is Change on the Ground



Connect 786 people engaged through public outreach 1,023 visitors Prepare 110 teachers reached 354 students engaged

818 volunteer hours

"I appreciate their (JC NERR and the NJ Sea Grant Consortium) time and expertise in communicating ways to engage students in the process of scientific inquiry and discovery. My gratitude to them and to the other educators attending this event."



" Always awesome and inspiring!"

2022 TOTE Teacher

Teaching about New Jersey's Estuaries, from Top to Bottom

With some help from our partners at the New Jersey Sea Grant Consortium (NJSGC), the Jacques Cousteau Reserve conducted its first hybrid Teachers on the Estuary (TOTE) workshop in 2022. Eighteen formal and informal educators participated in (online and in-person) activities about salt marsh ecosystem services, common flora and fauna of salt marshes, water quality, coastal acidification, and Environmental DNA (eDNA). The main component of TOTE 2022 is teachers had the unique experience of exploring not just one estuary, but two! They visited New Jersey's Jacques Cousteau estuary and the Hudson-Raritan estuary along the border of New Jersey and New York. Teachers performed comparative studies at each estuary including: seining, plankton and soil sampling, and vegetation transects. Over the last two years, TOTE had to be conducted strictly online due to COVID-19 policies. This year, Education Coordinator, Kaitlin Gannon was excited to have mostly in-person activities involving a lot of estuary exploration and partner collaboration.

Jacques Cousteau National Estuarine Research Reserve Intern Making Science Accessible to Everyone

In 2022, The Jacques Cousteau National Estuarine Research Reserve (JC NERR) hosted three summer interns through the Louis Stokes Alliance for Minority Participation (LSAMP) program. One of the intern projects conducted by student Celin Escobar-Gonzalez, focused on climate change and diversity, equity, inclusion, justice and accessibility (DEIJA). New Jersey is experiencing various climate change hazards and sought to better understand how these hazards impact all communities along the coast. Celin reached out to educators and community leaders of nearby underserved coastal communities to hear local perspectives regarding climate change, climate change hazards that are of most concern to residents, and how the JC NERR might support climate change education and resiliency projects in schools. There is still much work and learning to do; Celin's efforts are a great first step towards addressing DEIJA, local climate change impacts and resiliency.

2022 TOTE Teacher

New Jersey's Jacques Cousteau Reserve is one of 30 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 2022

Connects

Walling III

People to Estuaries

1 million+ ACRES

of natural classrooms & living laboratories with

26 INTERPRETIVE CENTERS



Hello to the Connecticut Reserve, designated in 2022! 296,131 VISITORS

learn about estuaries through Research Reserve outreach & education

Prepares

the Next Generation

54,773 STUDENTS

take learning out of the abstract & into the outdoors



4,347 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

10,570 CITIZENS

are trained & inspired to protect their coasts & estuaries



VOLUNTEER ACTIONS

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

30 RESEARCH RESERVE EDUCATORS

lead programs that foster coastal stewardship in communities in 25 states







Creating value through education 37,371 volunteer hours = \$1,119,261*

falue of a volunteer hour is calculated at \$29.9 based on data from the Independent Sector.