


CBNERR-VA By the Numbers

174,313,900
water quality samples
(since 2003)

7,732,066
sampling locations
(since 2003)

32,477
SAV quadrats monitored
(since 2004)




8 grants newly funded

18 active grants

30 committees & workgroups with Reserve representation

12,279 social media programming views

200 Aquatroll units deployed along Goodwin Islands & Catlett Islands transects

45 Marsh Surface Elevation Table (SET) sites for monitoring

27 projects conducted within Reserve boundaries by state & federal agencies and universities

5 new manuscripts, reports & data files




720 students served through virtual classroom visits/field trips

1,204 total Discovery Lab participants

11 graduate students hosted through VASEA & the Institute's Marine Advisory Program

46 teachers participating in VASEA lesson plan expo

Stay in touch with us!



CBNERR-VA
Virginia Institute of Marine Science
1370 Greate Rd
Gloucester Point, VA 23061-1346
804.684.7135
vims.edu/cbnerr/



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CHESAPEAKE BAY
NATIONAL ESTUARINE
RESEARCH RESERVE
VIRGINIA



VIRGINIA INSTITUTE OF MARINE SCIENCE



CBNERR-VA Highlights

July 1, 2020 – June 30, 2021

Cultivating science-based and community-supported resource management through innovative stewardship and promotion of socioecological resilience.



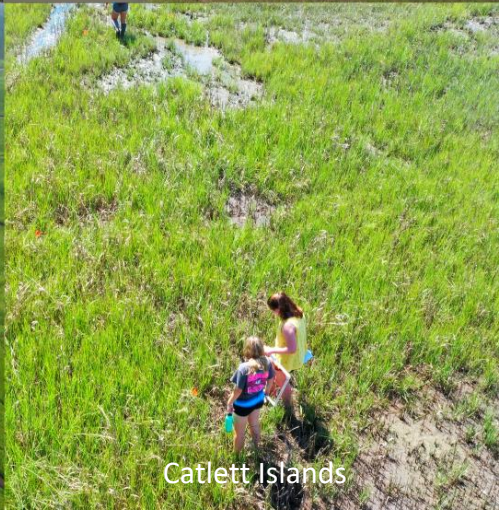
Goodwin Islands



Taskinas Creek



Sweet Hall Marsh



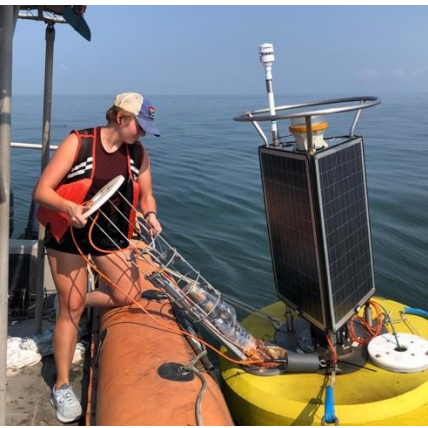
Catlett Islands

Who is CBNERR-VA?

Designated in 1991, the Chesapeake Bay National Estuarine Research Reserve in Virginia (CBNERR-VA) is one of 29 protected areas that make up the National Estuarine Research Reserve System (NERRS) established to promote informed management of the nation's estuaries and coastal habitats.



What We Do



Reserve Science

- Water Quality, atmospheric and biological monitoring
 - Water Quality monitoring at all Reserve components and additional stations
 - NERRS System-Wide Monitoring Program Weather Station at Taskinas Creek
 - Submerged Aquatic Vegetation (SAV) biomonitoring and SeagrassNet at Chincoteague Bay (NPS)
 - Harmful Algal Blooms (HABs) monitoring
 - Chesapeake Bay Interpretive Buoy System (CBIBS) ▶ <https://buoybay.noaa.gov/>
- Virginia Estuarine and Coastal Observing System (VECOS) ▶ <http://web2.vims.edu/vecos>
- Chesapeake Data Explorer ▶ <https://cmc.vims.edu/#/home>



Education and Outreach

- Teachers on the Estuary (TOTE) training for K-12 teachers to bolster environmental literacy in local classrooms
- Virginia Teachers Innovating and Designing Experiential Science (VATIDES) training for pre-service teachers on how to conduct field investigations
- Virginia Scientists and Educators Alliance (VA SEA) training for graduate students in marine science
- Discovery Labs: family-friendly workshops on estuarine science
- Critter Collection: a collection opportunity to understand and prepare an estuarine aquarium for classroom use



Coastal Decision-Maker Outreach

- Thematic trainings, workshops and summits on issues relevant to coastal decision-makers
- Technical assistance on coordination, facilitation, communications, planning process, grant writing, DEIJ in coastal zone and social science
- Community engagement through partner coordination and liaising



Environmental Stewardship

- Research permit submissions for various on-site research/monitoring projects conducted by non-Reserve staff, including state and federal agencies and universities
- Marsh sediment core processing to characterize sediment conditions at SET stations
- Marsh base-line habitat maps and emergent wetland biomonitoring at all Reserve components

What's New This Year



- Chronolog station at York River State Park ▶ <https://www.chronolog.io/site/CBV101>
- Camp Launch: serving underrepresented students from the Hampton Roads Region through marine science education
- Support of climate-adaptive nearshore natural and nature-based restoration projects
- Sarah Nuss awarded [Conservation Educator of the Year](#) title by the Garden Club of Virginia
- Research reference database that leverages BibTex formats and associated code-based reformatting tools to track and publish research products associated with the reserve
- Lynnhaven River Submerged Aquatic Vegetation (SAV) restoration
- Partnership with MarineGeo and Chesapeake Bay Program to include Goodwin Islands as an SAV Sentinel Site, contributing SAV monitoring data to their databases
- [COVID on the Coast](#): series highlighting the challenges, solutions and silver linings surrounding the COVID-19 pandemic and its impact in coastal VA
- Engagement of the oyster aquaculture industry and establishment of real-time water quality monitoring for facility intake waters at Bevan Oyster Company and Oyster Seed Holdings Company
- Participation in a Marsh Mat Study, a limited U.S. Fish & Wildlife Service pilot study to determine if micro-habitat creation through use of “marsh mats” can be used as a management strategy
- Middle Peninsula Tidal Creek Bathymetry Project
- Equitable Negotiation on the Coast: a workshop for practitioners engaging in strategic relocation (in concert with UVA's Institute for Engagement & Negotiation)
- Margaret A. Davidson Graduate Fellowship

What's Coming Up Next

- State of the York: A holistic synthesis of place-based data for informed decision-making and outreach
- Inclusion of the three Reserve-based stations of Taskinas Creek, Catlett Islands and Sweet Hall Marsh in the VIMS Tide Watch network
- NWI Project: Enhancing 3D Coastal Capabilities: “From Basin to Creek”

