



New York's **National Estuarine Research Reserve** brings together people, science, data, education, and funding to support the communities and natural resources of the Hudson River Estuary.

- **Monitoring:** Our unique dataset on baseline estuary conditions helps to meet the information needs of our partners and manage the Estuary's diverse habitats.
- **Research:** We combine strong partnerships with federal funding to support science that engages intended users of results in all stages of the research process.
- **Training:** We provide timely, scientific information, access to technology, and skill-building opportunities for partners throughout the region.
- **Education:** We integrate local science and professional monitoring technology to help students become citizen scientists who collect meaningful environmental data.

Learn more at [www.hrner.org](http://www.hrner.org)

# A RESEARCH FOCUS FOR THE HUDSON

The Hudson River Estuary is changing. In tributaries, down the main stem, and along tidal wetlands that stretch to the Atlantic, climate change and other drivers are reshaping the region's intertidal areas.

Together with our partners, the Hudson River National Estuarine Research Reserve identified focus areas for research that supports the resilience of the Estuary's natural resources and communities. These focus areas are intended to inspire collaborative projects that address critical scientific questions and deliver the innovative technical assistance that resource managers and communities need to meet the demands of a changing estuary over the next five years. Collectively, they embrace the following topics:



## SPECIES

Exploring species presence, abundance, and behavior; the impacts of non-natives; interactions between species; and innovative methods of identification.



## STEWARDSHIP

Advancing restoration science and the preservation of natural functions in changing conditions through site specific design, construction, and monitoring



## HABITAT

Characterizing vegetation composition, distribution, and elevation across habitats and investigating their ecological functions.

Learn more about these [research focus areas](#) 







# A RESOURCE FOR RESEARCH

As a member of the National Estuarine Research Reserve System (NERRS), New York's Hudson River Research Reserve combines a nationally standardized monitoring program and federal funding to advance regional science. Alongside undergraduate and graduate research opportunities, these resources are valuable assets for building the region's capacity to do locally relevant, nationally significant research.

## Collaborative Science

The NERRS Science Collaborative is a national program that funds research to address coastal management needs identified by Research Reserves and the communities they serve. These projects engage intended users of the science throughout the research process—from the articulation of research questions to the design of science-based products to address local challenges. Since 2009, the Hudson River Research Reserve has engaged its partners in collaborative science projects that have helped communities design sustainable shorelines, calculate the impacts of sediment release associated with dam removal, understand wetland capacity to offer storm protection, and predict the consequences of gated storm surge barriers.

## Graduate and Undergraduate Research

In partnership with the National Oceanic and Atmospheric Administration and the Hudson River Foundation, we create opportunities for students to have meaningful research experiences and cross-disciplinary mentorship in programs including the Margaret A. Davidson Graduate Research Fellowship, Tibor T. Polgar Fellowship, Mark B. Bain Graduate Fellowship, and the Hollings Undergraduate Scholarship.

## Data for a Changing River

The Hudson River Research Reserve has monitored changes in the Estuary since 1991. As part of the NERRS System-Wide Monitoring Program (SWMP), we collect site-specific data on abiotic indicators of water quality and weather every 15 minutes at several sites along the Hudson River. To track the ecological functions of habitats and how they are changing, we collect data on vegetative cover, marsh surface elevation, and water levels.



## Places for Research

The Hudson River Research Reserve's four component sites are located along a 150-mile stretch miles of the River. Together they provide a unique platform for advancing the science needed to protect and manage the Estuary's natural resources.



## Contact Us

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### Access Our Data and Reports

The Hudson River Research Reserve's monitoring data and yearly status reports are at [www.nerrsdata.org](http://www.nerrsdata.org)