

COSEE COASTAL TRENDS

- **Principal Investigator:** Laura Murray, University of Maryland Center for Environmental Science
- **Location:** COSEE Coastal Trends is based at the Horn Point Laboratory at the University of Maryland Center for Environmental Science in Cambridge, Maryland.
- **Website:** www.coseecoastaltrends.net
- **Collaborators/Partners:** University of Maryland; Integration and Application Network; Hampton University; Virginia Aquarium; Maryland Department of Education; College of Exploration; Maryland Sea Grant
- **Co-Principal Investigators and Key Project Partners:** Tim Carruthers, Integration and Application Network; Cassie Gurbisz, University of Maryland; Deidre Gibson, Hampton University; Chris Witherspoon, Virginia Aquarium



Mission: To increase literacy in ocean science with a focus on coastal trends through partnerships among scientists, educators, students, and the general public.

What We Do: COSEE Coastal Trends works to bridge the gap between science and education by:

- Fostering partnerships among scientists, educators, and students
- Developing exciting, web-based, and scientifically accurate educational resources
- Creating learning cycles through collaboration, evaluation, and adaptation
- Disseminating educational resources through partnerships and networks
- Developing STEM-structured curricula for school districts

Who We Are: COSEE Coastal Trends consists of a team of scientists, informal educators, and science communication experts from the University of Maryland Center for Environmental Science, Hampton University, the University of Delaware College of Marine and Earth Sciences, and the Virginia Aquarium and other partnering institutions

Audience: 6th-12th grade teachers, scientists, graduate and undergraduate students, K-12 students

Date Established: Fall 2007

Why We Were Established: COSEE Coastal Trends was established to increase professional relationships and communication between scientists and educators and to produce current science education resources.



History: COSEE Coastal Trends has brought scientists, educators, and students together to conduct research and develop classroom materials based on that research. Materials produced by these teams have been evaluated and field-tested by teachers to ensure usability and reviewed by scientists to guarantee technical accuracy. The collaborative processes at the heart of COSEE Coastal Trends' programs have allowed participants to share their knowledge and gain new expertise. For example, teachers have the opportunity to conduct laboratory and fieldwork. Scientists gain insight on how data can be used to create a sense of place that engages audiences. Graduate and undergraduate students receive unique research experience and valuable training on how to communicate science to general audiences.

What We Offer...

COSEE Coastal Trends engages teachers, scientists, graduate and undergraduate students in a broad range of programs, including:

- Collaborative Research and Education Programs where scientists, educators, and students work together to conduct research and develop web-based classroom resources
- Professional development workshops for educators focused on coastal trends

- Mentoring Young Scientist programs where middle school students learn about ocean science and present this information to the general public, guided by scientists and college-aged student mentors
- Science Communication Courses that help scientists, informal educators, and students conceptualize and present complex scientific information
- Development of an Ocean Science Course that highlights COSEE's Ocean Literacy Essential Principles

Example Offerings...

- Programs: Scientist-Educator Teams, Mentoring Young Scientists, Coastal Trends Day
- Workshops: Coastal Trends Institute
- Online classroom resources

