Ocean Exploration Education Highlights

What’s the Latest from NOAA for Your Classroom?

Dr. Alexander Smagghe explores the world’s oceans in depth, and spends his days working to improve ocean exploration through hands-on education. His passion for the ocean leads him to explore challenging questions about how we can best prepare the next generation of ocean explorers. 

Ocean Exploration Education
Ocean Exploration Education is an initiative of the NOAA Office of Ocean Exploration and Research (OER) and is managed by the Sea Education Association. OER’s mission is to advance our understanding of the ocean through research, exploration, education and outreach.

Ocean Exploration Education invites you to collaboratively build knowledge about the ocean, our planet, and how they interact through hands-on education for the classroom and beyond.

Ocean Exploration Education is supported by the Office of Ocean Exploration and Research, NOAA, U.S. Department of Commerce. NOAA's mission is to ensure that the nation's oceans, coasts, and marine and atmospheric resources and environments are healthy, resilient, sustainable, and valuable to current and future generations.

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Hurricanes - A Multimedia Discovery Mission

Stories from above the Earth, a hurricane’s eye overhead, a storm in the ocean’s depths, and the first ROV dive ever into the Musicians Seamounts. The Okeanos Explorer’s Campaign to Address Pacific monument, in the central and western Pacific Ocean as the centerpiece of the Okeanos Explorer’s expedition for November 1, 2017 DISCOVERING DEEP-SEA CORALS OF THE PHOENIX ISLANDS (CAPSTONE)’.

Explore new areas of the deep-sea and watch it in this video.

Explore the Deep Ocean

Exploring the Deep Ocean - Educator Professional Development

Exploring the Deep Ocean is an OER Professional Development workshop offered to educators to learn more about marine conservation and identifying ways to integrate marine conservation into teaching and learning. The workshop is an exploration of classroom activities related to ocean science, ocean conservation, expedition, and deployment to the deep ocean. Educators explore the biological diversity of marine species and how the Okeanos Explorer contributes to scientific research.

Explore the Deep Ocean is an online workshop, free of charge, for educators and is designed for educators in Pre K-12 classrooms. OER’s free full-day professional development workshops are plentiful around the country that would be tailored to your specific needs.

Ocean Exploration Education offers a series of 13 interactive multimedia presentations on ocean topics. These presentations combine the energies of wind and water into a destrucive and potentially deadly force. You can find more background information on hurricanes here and stay up to date by following the National Hurricane Center’s website.

NOAA in Your Backyard!

Join the Upcoming Expedition!

For the past three years, the NOAA Ship Okeanos Explorer has conducted missions in the central and western Pacific Ocean as part of a multilateral effort lubricated by the Joint Oceanographic Institutions for Research and Development (JOI) and NOAA. The ship is used to conduct research in the Atlantic, Antarctic, and Pacific Oceans in support of NOAA’s mission to advance our understanding of ocean phenomena. The ship is a 713-foot research vessel that can operate in all oceanic environments, and is equipped with cutting-edge deep-sea technology, including a remotely operated vehicle (ROV) and multiple camera systems.

The ship is capable of conducting research in the polar regions and is equipped with a deep-sea camera system that can capture images of life on the seafloor. The ship is also equipped with a system for collecting samples from the seafloor, and is capable of conducting research in a variety of conditions. The ship is equipped with a range of scientific instruments, including a submersible that can be used to explore the seafloor and collect samples, and a ROV that can be used to collect samples from the seafloor and from the ocean surface.

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