



Ocean Exploration Education Highlights October 2016

Welcome to the NOAA Ocean Explorer Education Highlights email. These monthly emails provide you with quick access to ocean exploration-focused, standards-based tips and tools to bring the excitement and science of ocean exploration into your classroom!

What's the Latest from NOAA Ocean Exploration for Your Classroom?



Looking for Background to Teach Students about Seamounts? Try this Multimedia Resource!

Tens of thousands of seamounts are scattered throughout the deep-sea, in every ocean on Earth. Seamounts profoundly influence the environment around them as they are biologic storehouses, home to diverse and abundant animal communities. The [Seamounts](#) Multimedia

Discovery Mission includes a short video lesson describing the formation of seamounts and their associated deep-sea communities, a short video on global impact, and three online interactive student activities.

The Ocean Explorer [Multimedia Discovery Mission Demos](#) are a series of 13 interactive multimedia presentations and learning activities that address a wide range of ocean topics.

Interested in More Information and Resources on Seamounts? Explore this Topical Theme Page!

Ocean Explorer Topical Theme Pages are designed to provide the best of what the Ocean Explorer website has to offer on a number of popular ocean science topics. Each theme page provides links to content essays, lessons, multimedia interactive activities, career information and associated past expeditions. Take a look at this [theme page on Seamounts!](#)

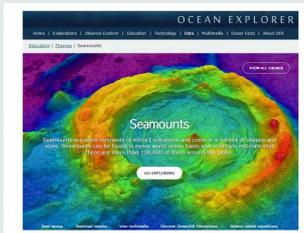


Image of the Month



A sea toad hanging out, waiting for its next meal to swim by. *Image courtesy of NOAA.*

Sea Toad

Sea toads are a family of deep-sea anglerfishes. This sea toad fish was discovered deep below the ocean surface in the waters around Wake Island in the western Pacific Ocean in August of 2016.

Watch the [video of this sea toad](#) as it is approached by the [Deep Discoverer](#) remotely operated vehicle. Sea toads aren't fast traveling fish, but when they do maneuver themselves about, they have some pretty impressive

moves.



Dr. Kelley emerging from the icy waters of Glacier Bay National Park during the [Deepwater Exploration of Glacier Bay National Park 2016 expedition](#). *Image courtesy of Dan Blackwood.*

Meet Ecological Physiologist, Dr. Amanda Kelley

As an ecological physiologist, Dr. Kelley's interests include understanding the biological impacts of ocean change. Her research focuses on characterizing environmental variables such as [ocean acidification](#), temperature and hypoxia, using remote oceanographic sensors, and pairing collected data with laboratory studies to measure the physiological responses of individuals of certain species to ocean change. She is particularly interested in understanding ocean change impacts in polar marine ecosystems, areas that are predicted to be the first to experience such changes.

Check out [Dr. Kelley's OceanAGE career profile](#) to learn what influenced her career choices (which have included being a member of a rock band and a carpenter), what her job entails, and much more.



Teachers participate in a NOAA OER professional development workshop. *Image courtesy of NOAA.*

Upcoming Education Professional Development

Our Fall 2016 [professional development opportunities](#), *Exploring the Deep Ocean with NOAA*, are now listed on our website. Sign up for a full-day onsite professional development at an aquarium or science center near you!

Note: *This workshop is a combination of the previously offered Why Do We Explore? and How Do We Explore? workshops.*

We hope that these Exploration Education Highlights will help you focus more of your classroom teaching and learning on the amazing discoveries taking place right here, right now, on our own Planet Ocean! Onward and downward!

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