

### Ocean Exploration Education Highlights **June 2017**

Welcome to the NOAA Ocean Explorer Education Highlights newsletter. This monthly newsletter provides 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?



Exploration and Research. Octonauts Corner:



ages 3 and up.

#### Resources for Younger **Students** NOAA's Office of Ocean Exploration and

Research (OER) launched the Octonauts Corner webpage on oceanexplorer.noaa.gov. On this webpage visitors can download fun educational materials such as Creature Cards, a deep-sea creature chart, and view related videos from NOAA ship Okeanos Explorer expeditions. More content will be added as it becomes available. These materials are especially applicable for younger learners

The Octonauts are a crew of eight adorable animals who explore the ocean in search of adventure. From their undersea "Octopod" base, the eight talented critters pursue their mission to explore new underwater worlds, rescue amazing sea creatures, and protect the ocean.

#### Return to the Moat of Death

Standards-based Lesson

#### (Grades 6-8) NOAA Ship Okeanos Explorer 2017

expeditions are helping to investigate and map vulnerable marine habitats, as well as deep-sea geologic features in the Central Pacific such as the young, active volcano named Vailulu'u off American Samoa that is undergoing rapid growth. In this newly developed <u>lesson</u>, students will explain how geological, biological and

oceanographic processes are involved with habitats observed on Vailulu'u seamount, and will discuss the time and spatial scales over which these processes operate. For more educational materials on seamounts, including lessons, essays and

Note: All lessons are written to support the NGSS and the Ocean Literacy Essential Principles and Fundamental Concepts.

Image of the Month



## the Seafloor

#### From May 2 to May 16, explorers on the **Exploring** the Sunken Heritage of

**Human History on** 

**Midway Atoll** Expedition searched for and explored sunken aircraft associated with the Battle of Midway. This year marks the <u>75th</u> <u>anniversary</u> of the battle, and this project aims to raise awareness and honor the legacy of the brave men who helped to turn the tide in the Pacific at this time. Much of the famous air battle took place near the atoll, and the remnants of dozens of historic aircraft may rest

beneath the surface.

Explorations like this help us

better understand and interpret the human stories associated with this significant battle, and add an important maritime heritage component to our understanding of the broader history of World War II in the Pacific. For more information, including a video, visit this site. Click here for an educator webinar on this expedition.

Brian Hauk takes notes on a recently discovered potential whaling anchor. Underwater debris like this, found using magnetometer surveys, is scattered throughout the lagoon at Midway, reminding divers of the human history that has affected this place: not only was Midway strategically important for both the United States and Japan to hold and fight over during World War II, but it was just as important to whaling fleets and other mariners searching for resources or transiting the Pacific a century prior. Image courtesy of Brett Seymour, Exploring the Sunken Heritage of Midway Atoll expedition.



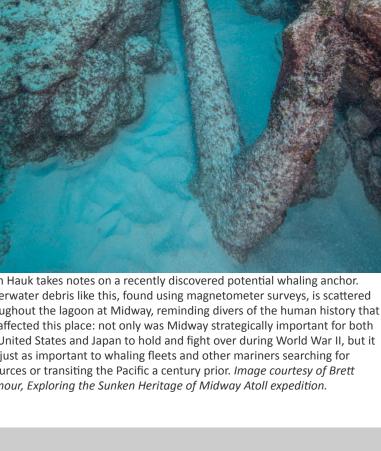
their work. They are famous for bringing the

amazing vibrant images of the deep sea to

life to you at home and picking songs that

evoke emotions and match the clips perfectly. The women behind the reels are Annie White, Caitlin Bailey, and Emily Narrow, all working for the Global Foundation for Ocean Exploration. During the Discovering the <u>Deep: Exploring Remote Pacific Marine</u> <u>Protected Areas</u> expedition we spoke to what it is like for them to be out at sea, and

these three videographers about their work, what inspires them. Read more about why and how these women make amazing videos of the deep sea <u>here</u>.





free educator professional development workshops at an aquarium or science center near you! Upcoming workshops in June and July will be held in Louisiana, Maryland and Texas. The complete Spring/Summer 2017 professional development schedule for Exploring the Deep Ocean with NOAA is posted on our website. **Note:** This workshop is a combination of the

and tools and the excitement and science of

want to learn about why and how we explore

ocean exploration into classrooms. If you

the deep ocean, please attend one of our

previously offered Why Do We Explore? and How Do We Explore? workshops.

# NOAA Workshop Alumni Joins Teacher-at-Sea Program

Terry Maxwell, who attended the educator professional development workshop *Exploring the Deep Ocean* with NOAA at the Shedd Aquarium in Chicago, IL in October 2016, describes how it has impacted his teaching career:

"I applied for the <u>Teacher At</u> Sea experience after the workshop, and received notice in February that I was selected for the experience. I will be part of a research mission which will be exploring benthic zones and sea scallop populations in the Atlantic Ocean along the New England coast. Just wanted to

pass along this information, and say thank you to the people at NOAA and Shedd for making me aware of this opportunity". Read about the program and how to apply <u>here</u>. 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! **VISIT OUR WEBSITE** 

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