

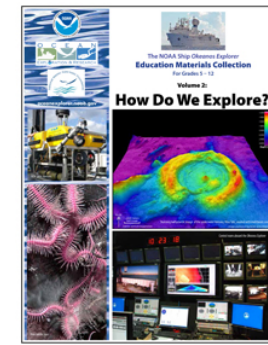
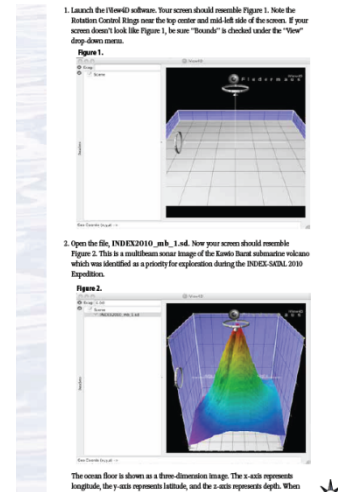


Ocean Exploration
and Research

Education

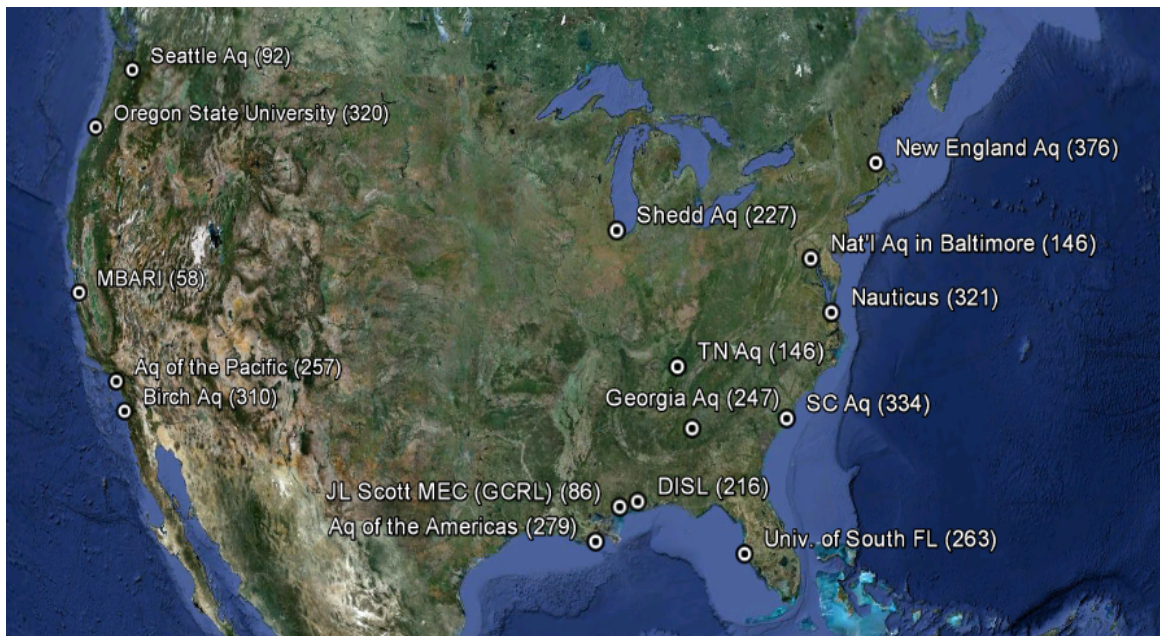
Education: What We Do

- Translate the OER “science story” through education products and professional development
- Expedition-based education products for “signature” missions covered on NOAA Ocean Explorer website



Education: What We Do

Education Alliance Partnerships



Education: What We Do

Deep-sea Discoveries in the Atlantic: An Online Workshop to Advance Transatlantic Ocean Science Literacy

- Five weeks
- 640 participants, 28 countries, 40 U.S. states



www.coexploration.org/oe2014/

COLLEGE OF EXPLORATION ONLINE CAMPUS

NOAA

OCEAN EXPLORATION & RESEARCH

Completed - Online Workshop 2014:

Deep-sea Discoveries in the Atlantic onboard the NOAA Ship Okeanos Explorer
- An Online Workshop to Advance Transatlantic Ocean Science Literacy
March 3 - April 4, 2014
[Click to see the PDF workshop flyer advertisement](#)

Tweets

CollegeOfExploration @CollegeOfExploration
7 My
@COSEE mtb encouraging #TAOL2014 @atlanticocean @oceanliteracy summary mtb
coexploration.org/atlantic pls add more docs.google.com/forms/d/1...
13 Retweeted by COSEE Expand

Online Professional Development Center

Online professional development offered by NOAA's Office of Exploration and Research provides educators with more in-depth studies into specific ocean science content through the context of ocean exploration. In partnership with The College of Exploration, an online campus setting provides the venue through which educators from around the world can meet, view keynote addresses given by ocean explorers and ask questions of keynote speakers online.

Inquiry- and standards-based activities and other resources are also provided in a facilitated environment to enable educators to take content from the keynote addresses into a variety of teaching environments in an effort to enhance ocean science literacy and further promote Ocean Literacy Essential Principle #7 - "The ocean is largely unexplored."

Professional Development Events 2014

Deep-sea Discoveries in the Atlantic onboard the NOAA Ship Okeanos Explorer:
An Online Workshop to Advance Transatlantic Ocean Science Literacy

Login to NOAA OER online workshop

You will need a USER ID and Password for the College of Exploration Online Campus. Also, with that USER ID, you have access to the NOAA OER Online Community, and all Online Professional Development Events.

- If you already have one, just log in below - and automatically become a member of this workshop.

- Don't have a USER ID? [Click to create one.](#)

- [Forgot your password?](#)

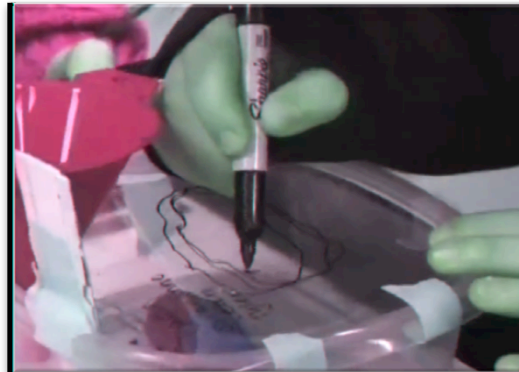
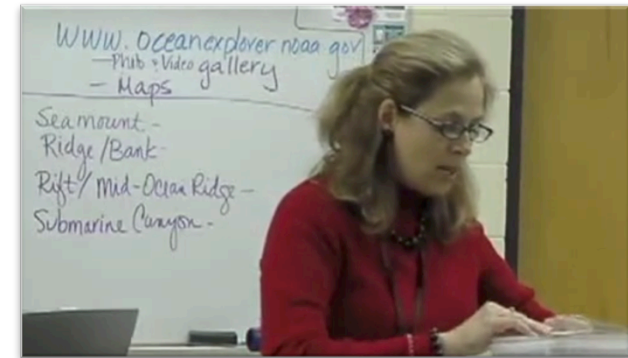
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Login

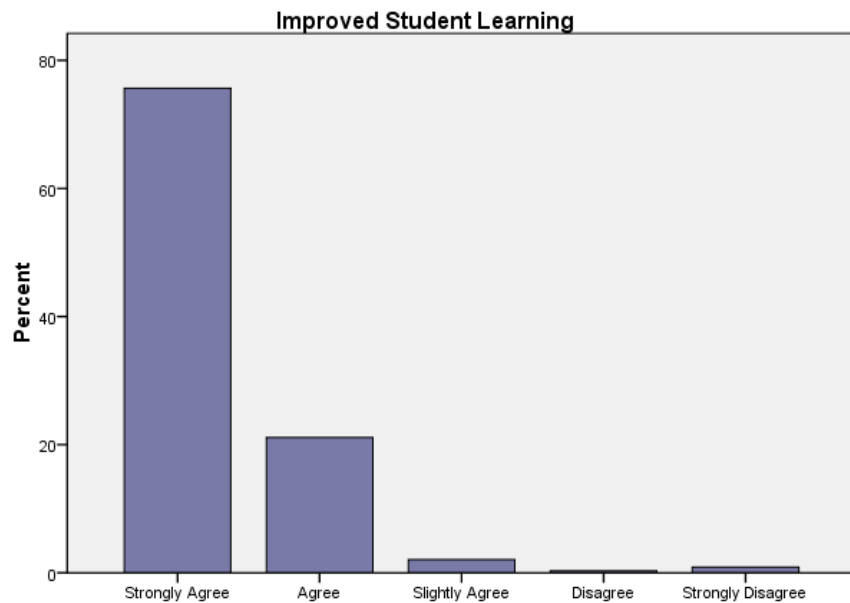
Education: Why We Do It

- 33 U.S.C. 3402 (PL 111-11)
- National Ocean Policy
- NOAA Mission
- NOAA Education Strategic Plan

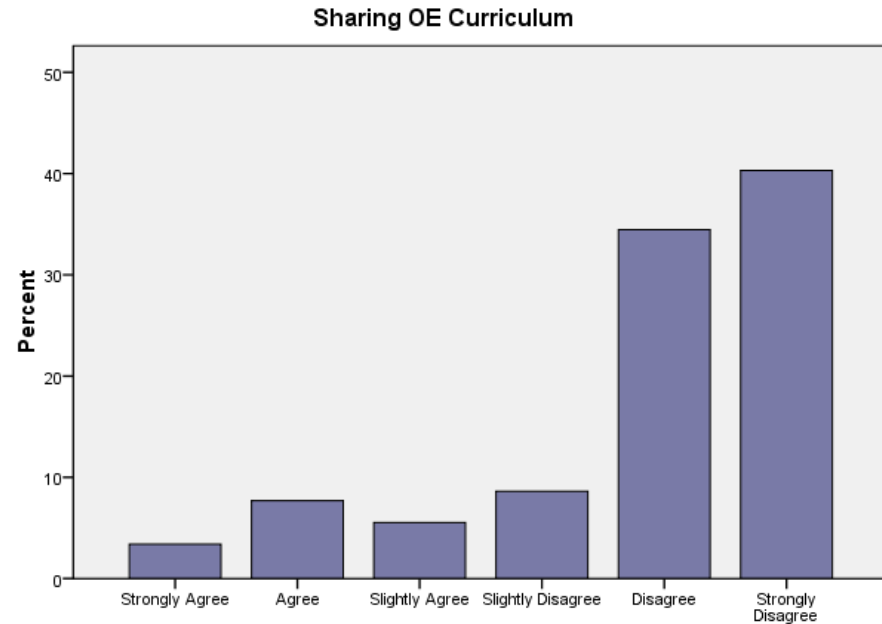


Education: What We Achieve

From a Follow-up Professional Development Workshop



I believe that my participation in the OE curriculum professional development has enabled me to improve student learning about the ocean in my classroom.



I have not shared information about the OE curriculum with other teaching professionals.

n=348

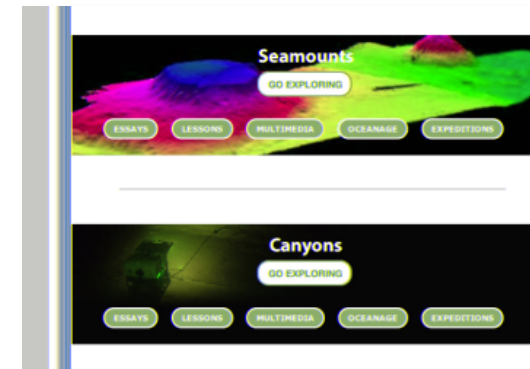
Education: Challenges

- Need new, creative ways to communicate with the public about ocean exploration
- Scientists and explorers need support and tools for effective education
- Need to increase direct interaction with the science of expeditions
- Few aquariums or other appropriate informal science centers—important venues for reaching the public—are few in central states; alternatives need to be developed
- Need to increase diversity of audience to reflect increasing diversity in the U.S.



Education: What's Next

- Challenger Centers Ocean Mission
- Q?rius Integration
- ECC Integration
- ISC Collaboration
- Build capacity of existing education products
- Develop higher education component of core material

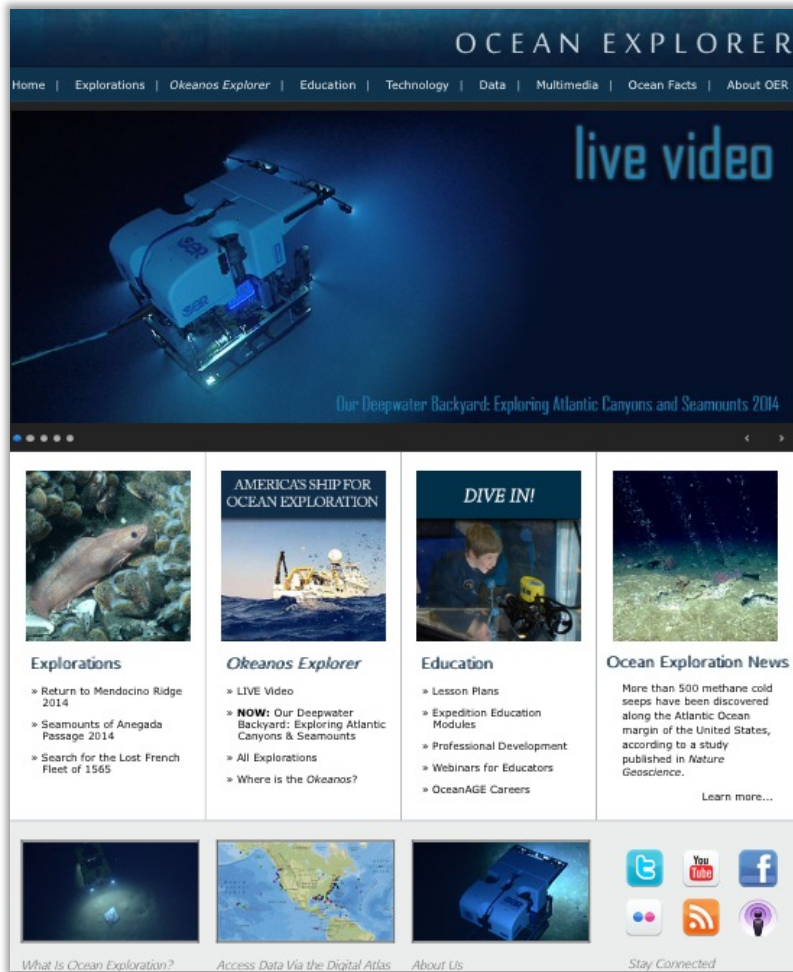




Ocean Exploration
and Research

Web & Social Media

Web & Social Media: What We Do



OceanExplorer.NOAA.gov

NOAA Ocean Explorer website: <http://oceanexplorer.noaa.gov>

Social media accounts:

- Twitter: @oceanexplorer
- Facebook: OceanExplorationResearch
- YouTube: oceanexplorergov
- Flickr: oceanexplorergov



Ocean Exploration
and Research

Web & Social Media: Why We Do It

Communication Objectives:

- Build understanding of ocean exploration value and importance
- Increase OER recognition and awareness
- Highlight partnerships and partner achievements

Why Online Tools:

- Larger audience reach, lower cost
- Where and how people are looking for info (expected)
- Drive traffic to NOAA Ocean Explorer website (social media)

Web & Social Media: Our Fiscal Year 2014 Results

Record numbers and growth in
FY2014

NOAA Ocean Explorer website:

- 10,735,619 visits (*up 7.6% from FY13*)
- 1,998,166 education downloads (*up 102% from FY13*)

Social media:

- 47,648 Twitter followers (*up 39% from FY13*)
- 15,517 Facebook likes (*up 164% from FY13*)
- 6,142 YouTube subscribers (*up 17% from FY13*)

OceanExplorer.NOAA.gov



Ocean Exploration
and Research

Web & Social Media: Challenges

Technical Challenges:

- Keeping online tools current, relevant
- Limited resources, lots of ideas

Communication Challenge:

- Telling a comprehensive, compelling ocean exploration story

Web & Social Media: What's Next

Fiscal Year 2015 Focus:

- Expedition coverage
- Enhancement of website video and image galleries
- Mobile-friendly content development
- Science and technology stories, beyond expeditions
- Increased and targeted use of social media to engage and interact

Beyond FY15: Full website redesign

The screenshot shows the NOAA Okeanos Explorer website. The main heading is "Okeanos Explorer" with a navigation menu including Home, Expeditions, Multimedia, Education, Data, About, and Ocean Explorer. The current page is titled "Expeditions | INDEX 2010".

Bahasa Indonesia

MISSION PLAN

Education

Partnership

Little Hercules ROV

Geology

Biodiversity

Biogeography

Microbes

INDEX 2010: Indonesia-USA Deep-Sea Exploration of the Sangihe Talaud Region "An Indonesia and US Journey to discover and value the hidden world of our deep sea"

Jeremy Potter
Expedition Coordinator
NOAA Office of Ocean Exploration and Research

From June to August 2010, an international team led by scientists from the United States and Indonesia will collaborate to explore the depths of Indonesian waters. The expedition, Indonesia-USA Deep-Sea Exploration of the Sangihe Talaud Region (INDEX 2010), will feature a number of firsts including: the maiden voyage of NOAA ship *Okeanos Explorer*; the first joint Indonesia-USA ocean exploration expedition; and the first joint international mission with two ships sending live video to scientists in Exploration Command Centers ashore.

We expect to make discoveries that will advance our understanding of undersea ecosystems, particularly those associated with submarine volcanoes and hydrothermal vents. The geographical area of operation is located entirely within the 'Coral Triangle Region', the global heart of shallow-water marine biodiversity. This will also be the first time scientists use a remotely operated vehicle (ROV) to get even a glimpse of deepwater biodiversity in the waters of the Sangihe Talaud Region.

During the expedition U.S. and Indonesian scientists will work side-by-side on two ships, the *Okeanos Explorer* and the Indonesian research vessel *Baruna Jaya IV*, and at Exploration Command Centers ashore. The ship's complementary capabilities will provide first look at the areas surrounding the Sangihe and Talaud island chains northeast of North Sulawesi, where there are sure to be many geological and biological discoveries.

NOAA Podcast:
Learn about the *Okeanos Explorer* with a [video or audio podcast](#) on the mission. (Quicktime, 1.9 Mb.)

DEEP SEA EXPLORATION
INDEX 2010
Sangihe Talaud
Indonesia-USA

Okeanos Explorer Digital Atlas

Daily Updates

Slideshows

Video Playlist

Photo & Video Log

August 6 Log

August 5 Log

August 4 Log