

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

MARCH 2013

This update is funded by the National Marine Sanctuary Foundation in partnership with NOAA's Ocean Exploration and Research Program, with additional support from the National Marine Protected Areas Center, to share information pertinent to the marine educator community. It is intended to encourage exchange of information and programs. We hope that it will also promote collaboration among the different educators addressing similar issues in their programs.

Please share this email with your colleagues and constituents. If you request materials or respond to a request for information, please mention that you learned about it from NOAA's Information Exchange.

The information included here has been compiled from many different sources, including EE-NEWS@NAAEE, EEinGEORGIA, the Scout Report, scuttlebutt, NSTA Express, and others. We have verified web addresses, but make no guarantee that they will remain active. The Department of Commerce/NOAA does not necessarily endorse or promote the views or facts presented on these sites.

Collected archives and issues of the newsletter, past and present, are available at <http://mpa.gov/resources/education/#exchange>. Contact the editor directly at phyllis.dermer@noaa.gov, or by phone at (865) 932-5074, to discuss further enhancements or to contribute information for future issues.

Notable References

National Climate Assessment

The National Climate Assessment and Development Advisory Committee has overseen the development of this draft climate assessment report, engaging over 240 authors in its creation. Share your thoughts about the report with the authors and federal agencies who are preparing the report. The public review closes April 12, 2013.

<http://ncadac.globalchange.gov/>

Survey of Science and Mathematics Education

The Report of the 2012 National Survey of Science and Mathematics Education was prepared with support from the National Science Foundation. The study provides a snapshot of K–12 science and math education with detailed information on science and math teachers, curriculum and instruction, and instructional resources. Read the highlights or download the full report from this NSTA webpage.

http://science.nsta.org/nstaexpress/nstaexpress_2013_02_25_addendum.htm

Valuation of Marine Ecosystem Goods and Services

CERMES, the Centre for Resource Management and Environmental Studies, offers the downloadable technical report, *The Valuation of Marine Ecosystem Goods and Services in the Wider Caribbean Region*. The report provides a summary of economic analyses of marine ecosystem services in the Wider Caribbean Region for the three major marine ecosystem types being addressed by the Caribbean Large Marine Ecosystem Project: reef, pelagic, and continental shelf. Particular attention is given to empirical valuation studies, and advantages and disadvantages of alternative methods are discussed. http://cermes.cavehill.uwi.edu/Technical_Reports/Schuhmann_2012_WCR_marine_resource_valuation_CTR_63.pdf

PROGRAM OF THE MONTH

Student Summit on the Ocean and Coasts

The Coastal America Partnership Student Summit on the Ocean and Coasts, March 9-12, 2013 in Washington, D.C., brings together students from around the U.S., Canada, and Mexico to raise awareness of coastal issues and to promote stewardship of our ocean. Students, accompanied by educators, will present issues tied to their local Coastal America Learning Center and the Ocean Literacy Essential Principles and Fundamental Concepts. There will be a live webcast on March 11, 2012 over the Smithsonian's Institution's Ocean Portal. <http://coastalamerica.wordpress.com/2013/02/27/2013-student-summit-is-coming/>

WEBSITES OF THE MONTH

Five-Minute Film Festival

Edutopia's VideoAmy curates themed playlists of YouTube videos for educators and students. Check out Teaching in a Winter Wonderland, Best Education Parodies of 2012, and more <http://www.edutopia.org/blogs/beat/five-minute-film-festival>

TED-Ed

TED-Ed's commitment to creating lessons worth sharing is an extension of TED's mission of spreading great ideas. The TED-Ed video library offers curated educational videos, many of which represent collaborations between educators and animators nominated through the TED-Ed platform. The platform also allows users to take any useful educational video, not just TED's, and create a customized lesson around the video. <http://ed.ted.com/>

GRANTS AND OPPORTUNITIES

Agronomy, Crop, Soil, and Environmental Science Awards for Educators

The American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America are accepting nominations for their awards program honoring researchers, educators, professionals, and students in agronomy, crop, soil, and environmental sciences. The deadline for application is April 9, 2013. <https://www.agronomy.org/awards>

App-lying USGS Earth Science Data Challenge

The U.S. Geological Survey is sponsoring this contest to develop new visualizations and applications for its earth science datasets that will address some of today's scientific challenges, such as climate change and biodiversity loss. The deadline for entry is April 1, 2013.

<http://applifyingusgsdata.challenge.gov/>

Banking on Youth Competition

This competition provides youth, ages 13-22, an opportunity to showcase their ideas for sustainable ventures that will directly benefit society. The deadline for submission is March 15, 2013.

<http://bankingonyouth.org/>

Braitmayer Foundation Education Grants

The Braitmayer Foundation offers grants to fund a broad range of K-12 education programs with curricular reform initiatives and professional development opportunities for teachers, particularly those which encourage people of high ability and diverse background to enter and remain in K-12 teaching. The deadline for application is March 15, 2013.

<http://www.braitmayerfoundation.org/guidelines/>

Coral Reef NGO Partnership

The Coral Reef NGO Partnership-Cooperative Agreement provides the opportunity to establish a partnership with the NOAA Coral Reef Conservation Program to further the conservation of coral reefs. The deadline for application is March 29, 2013.

<http://www.grants.gov/search/search.do;jsessionid=1LqkRSfGHMQgLq2K5RzQ54ZRvg4W1YkTbL6RTyVcNSZzC9YvbZQV!-1328374230?oppld=219235&mode=VIEW>

Do Something Awards

The Do Something Awards celebrate young people age 25 and under who are tackling a problem and changing the world. The deadline for application is April 15, 2013.

<http://www.dosomething.org/programs/awards>

Dorothy Stout Professional Development Grants

The National Association of Geoscience Teachers awards grants to faculty and students at two-year colleges and K-12 teachers. The grant supports professional growth in, or classroom teaching of, Earth science. The deadline for application is April 15, 2013.

<http://www.nagt.org/nagt/programs/stout.html>

Environmental Excellence Awards

SeaWorld Parks and Entertainment offers the Environmental Educator of the Year Award honoring youth or adults who have made outstanding efforts to inspire the next generation of conservation leaders. The deadline for nomination is March 15, 2013.

http://seaworldparks.com/en/SeaWorld_Teachers/Environmental-Excellence-Awards

Every Day Event Grants

With support from Toyota Motor Sales USA, Inc., the National Environmental Educational Foundation (NEEF) is offering Every Day Event Grants to public land organizations or Friends Groups, to engage their community on a public land site.

NEEF will award 25 grants to groups to hold a minimum of three events. The events can be educational, recreational, and/or volunteering-based. Hurry – the deadline for application is March 8, 2013.

<http://publiclandseveryday.org/grants/every-day-event-grants-0>

Ezra Jack Keats Minigrant Program for Public Libraries and Public Schools

The Ezra Jack Keats Foundation is accepting applications from public schools and libraries for program or event minigrants. The deadline for application is March 15, 2013.

<http://www.ezra-jack-keats.org/minigrant-program/>

Get Real Competition

The CK-12 Foundation's Get Real Competition asks students to create real-world applications of the K-12 STEM concepts they are learning in their classrooms. The deadline for submission is March 30, 2013.

<http://www.ck12.org/about/get-real/>

Get Ur Good On Grants

Youth Service America supports Get Ur Good On Grants for youth-led (ages 5-25) service initiatives. Projects must address a demonstrated community need or issue, and must be held in conjunction with Global Youth Service Day, April 26-28, 2013. The deadline for application is March 10, 2013.

<https://www.wizehive.com/appform/login/ysa2013gurgo>

Gloria Barron Prize for Young Heroes

The Gloria Barron Prize recognizes young people, ages 8-18, who have shown leadership and courage in public service to people and the planet. The deadline for nomination is April 30, 2013.

<http://www.barronprize.org/>

Google Science Fair

Google, in partnership with CERN, National Geographic, LEGO, and Scientific American, offers the annual Google Science Fair, an international competition which encourages students between the ages of 13-18 to ask questions and perform science experiments to answer those questions. The deadline for submission is April 30, 2013.

<https://www.googlesciencefair.com/en/2013/>

Governor's Environmental Stewardship Awards - Tennessee

The Governor's Environmental Stewardship Awards honor outstanding accomplishments in the protection and enhancement of Tennessee's natural resources. Check out the ten categories, including land use, natural heritage, and more. The deadline for nomination is March 29, 2013.

<http://www.tn.gov/environment/awards/>

Hart Family Fund for Small Towns

Grants from the Hart Family Fund for Small Towns are intended to encourage preservation at the local level by providing seed money for preservation projects in small towns with a population of 5000 or less. The deadline for application is May 1, 2013.

See the website for eligibility and details.

<http://www.preservationnation.org/resources/find-funding/special-funds/hart-fund.html#.US4sTFe-inU>

Indonesia-US Youth Leadership Program

The Indonesia-US Youth Leadership Program offers high school students a hands-on experience in environmental action planning and leadership development through a two-way exchange which focuses on community activism to address local and regional environmental issues in the U.S. and Indonesia. High school teachers and youth workers are invited to apply for the Adult Participant Position. The deadline for application is March 15, 2013.

<http://www.legacyintl.org/our-programs/indonesia-u-s-youth-leadership-exchange/group-leader/>

ING Unsung Heroes Awards

The ING Unsung Heroes program helps K-12 educators and their schools fund innovative classroom projects. The deadline for application is April 30, 2013.

<http://ing.us/about-ing/citizenship/childrens-education/ing-unsung-heroes>

Marine Art Contest

The 2013 Marine Art Contest is open to all students in grades K-12. The contest theme is *Amazing Ocean Creatures of Stellwagen Bank National Marine Sanctuary*. The deadline for submission is April 25, 2013.

http://stellwagen.noaa.gov/news/pdfs/art_contest_2013.pdf

MATE ROV Challenge

The MATE competition requires students to transform their teams into companies that manufacture, market, and sell products. In addition to engineering their ROVs, the students are required to prepare technical reports, poster displays, and engineering presentations that are delivered to working professionals who serve as competition judges. The 2013 competition focuses on ocean observing systems. Sign up for regional updates, check out the missions, and more.

<http://graysreef.marinetech2.org/>

McCarthy Dressman Grants

The McCarthy Dressman Education Foundation partners with individuals to expand educational opportunities for America's youth that inspire students by nurturing their curiosity about the world and their place in it. Funding includes Academic Enrichment Grants, Teacher Development Grants, and Student Teaching Scholarships. The deadline for application is April 15, 2013.

<http://www.mccarthydressman.org/>

National STEM Video Game Challenge

The annual National STEM Video Game Challenge for middle and high school students accepts submissions of original video game concepts and designs. The deadline for submission is March 12, 2012.

<http://www.stemchallenge.org/>

Power of Children Awards

The Power of Children Awards: Making a Difference is intended to honor and empower youth in grades 6–11, who have made a significant impact on the lives of others, demonstrated selflessness, and exhibited a commitment to service and the betterment of society. Sponsored by The Children's Museum of Indianapolis, the program seeks to

recognize individual youth as role models who exemplify an extraordinary commitment to public service and social responsibility. The deadline for submission is April 30, 2013.

<http://www.childrensmuseum.org/poca>

Presidential Award for Excellence in Mathematics and Science Teaching

NSF is now accepting nominations for the Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST). This year, the award will recognize outstanding mathematics and science teachers in grades 7-12 for their contributions to improving teaching and learning. The deadline for nomination is April 1, 2013.

<https://www.paemst.org/>

Project Earth - Sister Cities International Challenge

Using the Project Earth online resources and sharing platform and the Sister Cities International network of students, teachers, and schools, this challenge encourages young people to work with fellow students in their sister cities to implement sustainable projects focused on mutual environmental problems and renewable energy projects. The deadline for entry is April 30, 2013.

<http://www.projectearth.net/Competition/Details/664c3a30-27af-4b87-814e-32d380d95795>

Purpose Prize

The Purpose Prize awards people over 60 who are taking on society's challenges, including education, the environment, and more. The deadline for nomination is April 4, 2013.

<http://www.encore.org/prize>

Sparkplug Foundation Grants

The Sparkplug Foundation funds start-up and new projects in music, education, and community organizing. The deadline for questionnaire completion is April 8, 2013.

<http://sparkplugfoundation.org/content/how-apply>

Wild Gift Wilderness Experience

The Wild Gift is open to all students and young professionals, ages 21-35. It provides an experience in deep wilderness and encourages a commitment to a self-designed leadership project that will advance wildlands stewardship and the development of sustainable human community and lifestyle. The most important requirement is a record of accomplishment that reflects leadership talent. The deadline for application is April 15, 2013.

<http://wildgift.org/apply>

World of Children Awards Program

The World of Children is seeking nominations for the 2013 Awards Program, recognizing individuals who make a difference in the lives of children across the globe. The awards provide funds to support the programs they have created. The deadline for nomination is April 1, 2013.

<http://worldofchildren.org/nominate/nomination-form/>

Youth Service Challenge

The Jefferson Awards Youth Service Challenge offers the chance to gain local and national recognition about the service projects youth are doing. The deadline for submission is April 30, 2013.

<http://www.youthservicechallenge.net/>

INTERNSHIPS AND TEMPORARY OPPORTUNITIES

New England Coastal Wildlife Alliance Internships - Massachusetts

The New England Coastal Wildlife Alliance is seeking qualified high school, college, and graduate students within New England to assist with various projects and activities through their research program. Interns work alongside staff conducting a variety of educational programs, research projects, and conservation activities. Internship positions are unpaid and housing is not provided.

<http://www.necwa.org/internships.html>

Sea Grant Marine Education Internships - Georgia

The University of Georgia's Marine Education Center and Aquarium offers four paid annual post-baccalaureate internships in marine education. Interns train and work for 50 weeks, September 3, 2013-August 15, 2014 on Skidaway Island, Georgia. The deadline for application is April 5, 2013.

<http://www.marex.uga.edu/aquarium/internPrograms.html>

Smithsonian Marine Ecosystems Exhibit Internships - Florida

The Smithsonian Marine Ecosystems Exhibit, a public aquarium located in Fort Pierce, Florida, is seeking applicants for the paid Summer Marine Education Internship, mid-May through mid-August 2013. The deadline for application is March 8, 2013.

Contact Cristin Ryan at ryanc@si.edu

Summer On The Sound Summer Camp - Washington

Students entering grades 4-6 can join Highline Community Colleges' Marine Science and Technology Center for the Summer on the Sound 2013: Marine Science Camp, June 24-28, 2013 in Des Moines, Washington. The camp will focus on the life in the Puget Sound, with the camp dates corresponding to some of the lowest tides of the years.

<http://mast.highline.edu/Summer-Camp2012.php>

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

Aquaculture 101 Teacher Workshop - Alabama

Auburn University and the Alabama Cooperative Extension System, in conjunction with Gadsden State Community College and the Alabama-Mississippi Sea Grant, offer this teacher training, June 10-14, 2013 in Gadsden, Alabama. The workshop focuses on helping teachers integrate aquaculture concepts into math and science courses at their school.

<http://www.aces.edu/dept/fisheries/documents/Aquaculture101workshopandpreregform.pdf>

Changing Oceans: Challenges, Impacts and Solutions - Massachusetts

This four part course, March 9 & 16, April 4, and May 9, 2013 in Boston, Massachusetts, will help teachers understand how various issues are impacting the marine environment, as well as discuss the solutions and technologies being used to tackle them.

Participants will gain content background in ocean science as well as hands-on practice

in inquiry-based classroom activities. Participants will receive lesson plans as well as other resources to use in their classroom. The deadline for registration is March 6, 2013.

http://www.neaq.org/education_and_activities/teacher_resources/professional_development/workshops/index.php

Climate Education in an Age of Media - Massachusetts

The Climate Education in an Age of Media project at the University of Massachusetts Lowell offers two summer workshops for secondary and post-secondary science educators to combine student-created media production and climate science. Hurry – the deadline for application is March 8, 2013.

http://cleanet.org/cced_media/your_classroom/index.html

Great Lakes Teacher Workshop – Lake Erie Watershed

The Teacher Workshop, Great Lakes “F-EX” (Field Experiences) for Great Lakes Stewards, June 19-21, 2013 starting in Erie, Pennsylvania, is a professional development excursion through the Lake Erie watershed. NOAA educators will teach this hands-on workshop for grades 5-12 teachers. The workshop is limited to 15 teachers. The deadline for application is April 1, 2012. Stipends may be available.

<http://www.paseagrant.org/workshops/great-lakes-f-ex-field-experiences-for-great-lakes-stewards/>

Green Eggs & Sand - Georgia

The Green Eggs & Sand workshop and curriculum modules are designed to explore the Atlantic Coast horseshoe crab/shorebird phenomenon and management controversy. The workshop, co-sponsored by Sapelo Island National Estuarine Research Reserve, April 26-28, 2013 on Skidaway Island, Georgia, includes hands-on activities, a field trip, and more. The deadline for registration is April 8, 2013.

<http://eeingeorgia.org/net/calendar/details.aspx?s=106869.0.0.4863&dateid=6924>

Gulf of Mexico Climate Community of Practice Workshop - Texas

The Climate Community of Practice workshop, April 8-10, 2013 in Houston, Texas, brings together elected officials and other local leaders and decision-makers in the Gulf of Mexico with extension, outreach, and education professionals. The workshop provides information and science-based guidance to determine communities’ level of risk and strategies to improve their resilience.

<https://sites.google.com/site/2013climatecopworkshop/>

Interpretive Writing Workshops - Various

This workshop offers the basics of interpretive writing as they apply to signs, brochures, websites, and more. Participants will learn how to create clear, dynamic, and concise interpretive texts for your site, whether it is a museum, park, zoo, nature center, or aquarium. Check out the website for dates and locations.

http://leftridge.com/Workshop_Schedule.html

Marine Education Workshop - Florida

Newfound Harbor Marine Institute offers this Marine Education Workshop, March 15-17, 2013 on Big Pine Key, Florida. Subjects include Soft and Hard Corals, Mangrove Islands, Sponge and Sea Grass beds, and more. The workshop includes labs, field trips, and more.

Contact Judy Gregoire at info@nhmi.org

Maury Project Summer Workshop - Maryland

The Maury Project is a teacher enhancement program of the American Meteorological Society based on studies of the physical foundations of oceanography. The workshop, July 7-19, 2013 in Annapolis, Maryland, is intended to: introduce master teachers to the physical foundations of selected oceanographic topics and issues; explore and suggest ways in which these understandings and concepts can be employed in school studies; and prepare workshop attendees to conduct training sessions on selected oceanography topics and issues for teachers in their home areas during the next school year, as well as possibly participate in DataStreme Ocean Local Implementation Teams. The deadline for application is March 15, 2013.

<http://www.ametsoc.org/amsedu/MAURY/summer.html>

NAAEE Conference - Call for Presentations

The North American Association for Environmental Education is seeking proposals for the 42nd Annual Conference and 10th Annual Research Symposium, October 9-12, 2013 in Baltimore, Maryland. The conference theme is *Rising Tides: Riding the Waves of Change*. The deadline for submission is March 31, 2013.

<http://www.naaee.net/conference>

Nature Photography Workshop - Maryland

The Assateague Island Nature Photography Workshop, April 19-21, 2013 in Berlin, Maryland, is designed for those with a basic knowledge of the operation of a 35 mm SLR digital camera, an interest in nature photography, and the desire to improve their photographic skills and optimize the use of their camera. The workshop is limited to 10 participants.

<http://shop.assateagueislandalliance.org/product.sc?productId=117&categoryId=22>

NMEA 2013 – Call for Presentations

The theme of the annual conference of the National Marine Educators Association, July 22-26, 2013 in Mobile, Alabama, is *Sea the Gulf Join the Roux*. The deadline for presentation submission is March 15, 2013.

<http://nmea.disl.org/sessions.html>

Ocean Exploration Workshops – Various

NOAA's Ocean Exploration Program and partners offer the Okeanos Explorer Education Materials Collection, How Do We Explore? Professional Development Workshop for Educators. Participants will receive curriculum with CD-ROM's, certificates of participation, and more. Contact the noted educator or check out the website for registration and more information.

- May 4, 2013 with New England Aquarium, Boston, Massachusetts. The deadline for registration is April 12, 2013. Contact Tania Slywinskyj at tslywinskyj@neaq.org
- June 22, 2013 with Audubon Aquarium of the Americas, New Orleans, Louisiana. The deadline for registration is May 31, 2013. Contact Tricia LeBlanc at tbleblanc@AudubonInstitute.org

<http://oceanexplorer.noaa.gov/edu/development/development.html>

Ocean Science Summer Institute – Washington

This institute, June 24-27, 2013 in Port Townsend, Washington, is a Training of Trainers for both formal and informal educators. Participants will receive hands-on experience

with the Ocean Sciences Sequence including implementation strategies, daily field trips, and more. The deadline for discounted earlybird registration is May 16, 2013. Be sure to check out the other professional development opportunities on the website.

<http://www.ptmsc.org/teacher.html>

Project Atmosphere Summer Workshop for Master Teachers - Missouri

Project ATMOSPHERE is the comprehensive national program of teacher enhancements of the American Meteorological Society based on studies in the atmospheric sciences. The workshop, July 14-26, 2013 in Kansas City, Missouri, is directed towards improving teacher effectiveness in generating interest and understanding in science, technology, and mathematics among students at precollege levels. The deadline for application is March 31, 2013.

http://www.ametsoc.org/amsedu/Proj_ATM/projatm.html

Save the Bay – Rhode Island

Save The Bay's Bay Institute For Experiential Learning, June 25-28, 2013 in Providence, Rhode Island, brings together formal and informal educators from around the country for professional development with a curriculum focused on human history and ecological change. The coursework combines field experiences with traditional coursework to enhance participants' content knowledge in marine studies, climate science, environmental sustainability, and related disciplines. The deadline for application is March 15, 2013; funding may be available for Rhode Island teachers.

<http://www.savebay.org/bayinstitute>

ScienceOnline Oceans

The ScienceOnline Oceans Conference, October 11-13, 2013 in Miami, Florida, will focus on how scientists, conservationists, and science communicators can use the Internet for collaboration, as well as for public education, outreach, and broader impacts. The program will be determined based on submitted suggestions from the attendees with abstract submission starting in March, so check the website.

<http://www.southernfriedscience.com/?p=13959>

Stone Lab Courses for Educators & High School Students - Ohio

Stone Laboratory, Ohio State's Island Campus on Lake Erie, is offering courses designed for educators in geology, ecology, oceanography, and Great Lakes education. Introductory summer science courses for high school students offer small class sizes and the ability to earn college credit that could cover undergraduate course requirements. The deadline for registration for courses is March 19, 2013. The deadline for scholarship applications for for-credit classes is March 8, 2013. Additional scholarships may be available.

<http://stonelab.osu.edu>

Summer Teacher Coastal Stewardship Program - Florida

Florida A&M University's 2013 Summer Teacher Coastal Stewardship Program, June 17-28, 2013 in Tallahassee, Florida, provides teachers with the skills, materials, and knowledge to teach watershed conservation and stewardship and increase K-12 environmental literacy. The deadline for application is April 12, 2013.

Contact Kimberly Davis at kimberly.davis@famu.edu

Summer Workshops - Maine

Herring Gut Learning Center offers three summer courses in Port Clyde, Maine: Introduction to Aquaponics, Discovery through Drawing, and Bringing Marine Ecosystems into the Classroom. Partial tuition scholarships may be available. The deadline for application is May 31, 2013.

<http://www.herringgut.org/forteachers.html>

Teach at the Beach – New Jersey

Teach at the Beach is a professional opportunity for educators in the New Jersey/Pennsylvania/Delaware area. This year's workshop, May 17, 2013 in Camden, New Jersey, will include Building Underwater Remotely Operated Vehicles, Grants for the Classroom, and more. The deadline for registration is May 1, 2013.

<http://njmarineed.weebly.com/tatb-2013.html>

TIGed e-courses - Online

TakingITGlobal (TIGed) offers three graduate-level, accredited e-courses for teachers designed to support teachers in bringing the world into their classrooms through the use of e-technologies and international partnerships. The courses aim to help students understand global perspectives, environmental issues, and student voice.

<http://www.tigweb.org/tiged/professional-development/ecourses.html>

EDUCATIONAL RESOURCES

ARKive School Museum

The ARKive School Museum encourages students to get creative. By discovering fascinating biological facts about endangered species, designing and creating interactive exhibits, and hosting hands-on activities in their own 'museum', students improve their scientific literacy and develop cross-discipline skills. Check out the teaching resources developed for 5-7 year olds.

<http://www.arkive.org/education/resources>

Bird Cams

All of the bird cams from the Cornell Lab of Ornithology have been consolidated onto one website. The home page offers news updates, highlight videos, and more.

<http://cams.allaboutbirds.org/>

BookletCharts for Boaters

NOAA's Office of Coast Survey introduces BookletCharts, moving the product into official production. These reduced-scale nautical charts in PDF format for in-home printing are available for downloading and printing for free.

<http://www.nauticalcharts.noaa.gov/staff/BookletChart.html>

Broader Impact Tools

COSEE NOW has created the Broader Impact Wizard to help users develop a broader impact statement that will satisfy NSF Criterion II and help communicate their science. The five-step process will produce an outline of important points to include in the statement and will help frame discussions with partners. In addition, there are pre- and post-award resources with grant applications.

<http://coseenow.net/scientist-resources/>

A Common Language of Ocean Uses

The MPA Center has developed a Common Language of Ocean Uses that provides practical, intuitive, and regionally flexible definitions of a wide range of typical human uses. The Common Language organizes 35 distinct Use Categories into four familiar Sectors to help planners, managers, and stakeholders map and understand the drivers, impacts, and benefits of ocean uses across multiple scales.

http://www.mpa.gov/pdf/helpful-resources/common_language_ocean_uses_february2013_final.pdf

Crash Course on Climate Change

This Dumb Scientist blog post by Bryan Killet, a NASA/Caltech scientist, was written for teenagers to explain climate change and the impact of human-generated CO₂.

<http://dumbscientist.com/archives/crash-course-on-climate-change>

Disaster Hero

This online game offers a mix of action-based play and disaster quizzes, providing a fun way for children in grades 1-8 to learn what to do in a number of disaster situations, including tornadoes, hurricanes, earthquakes, and floods. The website also offers Information and resources for parents and teachers.

<http://disasterhero.com/>

Eco Student Blog

This blog is written by EPA employees, educators, and students and concerns all the things students are doing and can do to help the environment. It was launched to provide students with an outlet to expand on the environmental conversation with their peers. Check out the career advice and look through the archives.

<http://blog.epa.gov/students/>

Emergency 2.0 Wiki

The Emergency 2.0 Wiki is a free global resource for using social media and new technology in emergencies. The Wiki serves a global hub for emergency agencies, government, the public, and others to use social media to better prepare for, respond to, and recover from emergencies. The information on the website includes guides, apps, mapping tools, practical guidelines, and much more. It hopes to advance emergency communications and build emergency resilient communities.

<http://emergency20wiki.org/>

Endangered Species Teacher Forum

As part of an ongoing focus on enhancing endangered species education, the Endangered Species Day Teacher Resource Center now features a Teacher Forum. The forum enables teachers to exchange classroom instruction techniques, ask questions, and share resources about endangered species.

<http://www.stopextinction.org/esd/195-esd-education.html>

Field Guide to Aquatic Invasive Species

The Pennsylvania Aquatic Invasive Species Field Guide can help users identify new invasive species infestations and slow or stop their spread in Pennsylvania's waterways. The downloadable field guide includes how to properly collect and report specimens, species profiles, and more.

<http://www.paseagrant.org/projects/pennsylvanias-field-guide-to-aquatic-invasive-species/>

Great Lakes Eco-Region

NOAA's Great Lakes Eco-Region learning resources include multimedia, lessons, links to real-world data, and background information about these bodies of water. Lessons and background information cover fish life cycles, watershed land use, invasives, and more. The website also offers links to many other Great Lakes resources.

http://www.education.noaa.gov/Freshwater/Great_Lakes_Eco-Region.html

Holding onto the Green Zone Curriculum

Holding onto the Green Zone is an earth science curriculum designed to encourage collaboration between land managers and youth educators/leaders to promote conservation of fragile riparian resources. The curriculum works through the processes of science inquiry and experiential learning. Check out the downloadable Student Action Guide and Leader Guide.

<http://www.uwex.edu/erc/youth/riparian.html>

iMarine

iMarine is an open and collaborative initiative that will establish a data infrastructure to support the ecosystem approach to fisheries management and conservation of marine living resources. Check out AppliFish and other mobile apps and more.

<http://www.i-marine.eu/pages/Home.aspx>

IODP Distinguished Lecturer and Educator Workshop

Learn about the science that plays a role in our understanding of Earth by joining staff and scientists from Consortium for Ocean Leadership's Deep Earth Academy and the Integrated Ocean Drilling Program. The free workshop offers hands-on activities based on ocean drilling data. See the website for details.

<http://iodp-ussp.org/outreach/distinguished-lecture-series/host-a-lecture/>

Measuring Teacher Effectiveness

The RAND Corporation provides research on a range of topics, and this website provides access to papers and commentaries produced as part of their initiative on measuring teacher effectiveness. The site is designed for teachers, administrators, policymakers, and others seeking objective information on measuring teaching effectiveness.

<http://www.rand.org/education/projects/measuring-teacher-effectiveness.html>

National EE Week

Get ready for National Environmental Education Week 2013, April 14-20, 2013 with the website's *Greening STEM: Taking Technology Outdoors* resources. Register for upcoming webinars and look through the archives. Check out the extensive resources and curricula library.

<http://www.eeweek.org/>

Nature's Voices Project

The Nature's Voices Project: Stories of Hope from the Next Generation is seeking personal and inspiring stories and testimonials about outdoor and/or environmental education experiences. Check out the stories, and submit your own.

<http://naturesvoices.org/home.html>

Contact Susan Silber at susansilber07@gmail.com

Ocean Frontiers

The film, Ocean Frontiers, takes a bipartisan approach to both the problems we face in managing our oceans and the solutions at hand. The film features on-the-ground reporting from places across the country that are implementing promising new approaches to ocean and coastal management. Check out the website for information about where it's playing, how to host a screening, view video clips, and more.

<http://ocean-frontiers.org/>

Ocean Tracks

Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO) support this website where visitors can see the tracks of selected marine animals tagged by CSIRO and partner agencies. There are both low-tech and animated/3D versions.

<http://www.oceantracks.csiro.au/>

Parent Leadership in Education: Resource Roundup

Edutopia has compiled a list of articles, videos, and other resources to help parents engage in a productive way with teachers and school.

<http://www.edutopia.org/parent-leadership-education-resources>

Park Cultural Landscapes

The National Park Service offers this cultural landscapes website which answers basic questions about cultural landscapes and serves as a gateway for more in-depth discoveries. New material will continue to be added, including climate change and sustainability, additional case studies, and more.

http://www.nps.gov/cultural_landscapes/

Social Media in Education Resources

This collection of blogs, articles, and videos from Edutopia aims to help teachers deploy social media tools in the classroom to engage students in 21st-century learning.

Resources include tips for teaching with new media, creating school guidelines, and more.

<http://www.edutopia.org/social-media-education-resources>

Turbulence Webinars

COSEE-Ocean Systems offers archives of the three-part Turbulence Webinar series. The series focuses on the physics of ocean turbulence and its effect on marine organisms.

<http://cosee.umaine.edu/programs/webinars/turbulence/>

World Register of Deep-Sea Species

The World Register of Deep-Sea Species is a taxonomic database of deep-sea species based on the World Register of Marine Species. The project provides an open-access source of quality taxonomic information on and imagery of deep-sea species.

<http://www.marinespecies.org/deepsea/index.php>

Youth Ocean Conservation Team

The Youth Ocean Conservation Team is a network of youth and adults who are passionate about taking action to protect the planet's marine ecosystems. The team provides an avenue for youth to share ideas and thoughts on relevant ocean conservation issues, gain advice and support for the ocean conservation projects they're

working on, and collaborate with other young people involved in ocean conservation efforts. Subscribe to the newsletter, read the blog, join the marine debris prevention and ocean conservation program, and more.

http://www.stowitdontthrowitproject.org/pb/wp_f343c28a/wp_f343c28a.html

Zoonotic Diseases: Work Smart, Stay Safe

How can people who work around wildlife stay safe from the spread of zoonotic diseases? This instructional 90-minute seminar created by the United States Geological Survey is designed to provide a basic overview of these diseases and their transmission. Visitors to the site can also learn about common routes of disease exposure and biosafety recommendations. The diseases discussed here include rabies, Lyme disease, and more.

http://www.nwhc.usgs.gov/outreach/mammalian_zoonotic_course.jsp

INITIATIVES, JOURNALS, and MORE

Evacuteer.org

Evacuteer is charged with helping people leave Louisiana if they're forced to evacuate. The group's projects include evacuation training, social media campaigns, and public art installations which will double as evacuation pick up points. Check out the website to see if similar planning might work for your community.

<http://evacuteer.org/>

Oyster Gardening - Alabama

The Mobile Bay Oyster Gardening Program is recruiting oyster gardeners and adopters for the 2013 season. Volunteers who have access to "conditionally approved" waters in Baldwin or Mobile counties can grow oysters for this restoration program, which will be transplanted in Mobile Bay and the Mississippi Sound at the end of the oyster gardening season in November. Non-locals can participate in the program by adopting an oyster garden, with certificates of adoption and monthly newsletters about the season's progress.

<http://masgc.org/oyster/oysterhome.htm>

My Social Security

The Social Security Administration has just launched My Social Security, a new Internet portal that allows individuals to access information related to current or future Social Security benefits. Employees not yet receiving benefits can review their earnings record as well as the Social Security and Medicare taxes they have already paid on covered earnings. The new portal also includes a calculator that can be used to estimate future Social Security retirement, disability, and survivor benefits.

<https://secure.ssa.gov/RIL/SiView.do>

Nature News Special: 2012 Review

Nature magazine presents this website allowing non-subscribers access to a yearly round-up of key science issues and discoveries. The website offers information about the human stories behind key developments from the year, 366 Days about daily scientific events of the past year in a variety of media, readers' choice, and more.

<http://www.nature.com/news/specials/2012/index.html>