

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

JUNE 2016

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 eeNEWS@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.

To subscribe or unsubscribe to this list, send information to include in the newsletter, or discuss further enhancements, please contact the editor directly at phyllis.dermer@noaa.gov, or by phone at (865) 932-5074

Collected archives and issues of the newsletter, past and present, are available at <http://marineprotectedareas.noaa.gov/resources/education/>.

OPPORTUNITIES OF THE MONTH

Connecting People to Nature

#NatureForAll and CoalitionWILD seek projects that connect people to nature. They encourage submissions from outside of the environmental sector, and seek projects engaging youth, urban dwellers, and other new audiences. Categories include bringing young children into nature, engaging sectors outside the conservation field, and more. Check this out. The deadline for submission is July 1, 2016.

http://coalitionwild.org/greenhouse/?dm_i=2GI3,QW82,48BW5R,1YIGO,1

Once and Future Ocean

The World Ocean Observatory has been given funds to offer a limited number of free copies of Peter Neill's new book *The Once and Future Ocean: Notes Toward a New Hydraulic Society* to school libraries, grades 7 and up, where marine, oceanographic and environmental studies are emphasized. Send an email with your name, title, contact

email, and area of expertise; school name, website and phone; name and contact email of librarian; and mailing address; all to director@thew2o.net.

<http://worldoceanobservatory.org/content/once-and-future-ocean>

Presidential Science Advisor

The White House is inviting students from around the country to submit ideas on science, innovation, and technology issues. The deadline for submission is June 17, 2016.

<https://www.whitehouse.gov/blog/2016/05/19/attention-kid-scientists-president-wants-your-ideas-science-and-technology>

WEBSITE OF THE MONTH

MetEd Education & Training

The MetEd website from the University Corporation for Atmospheric Research's Community Programs offers education and training resources for those interested in learning more about meteorology, weather forecasting, and related geoscience topics. Topics areas include climate, environment and society, and much more. Courses include Basic Hydrologic Sciences Distance Learning, Introductory Topics in Oceanography, and more. Lessons/Resources include Coastal Climate Change, Ocean Acidification, and much more.

https://www.meted.ucar.edu/training_detail.php

REQUESTS

Call for Articles

CLEARING magazine circulates throughout the Northwest U.S. region. Their call for articles for the Fall 2016 issue is open. Submit an article on your innovative programs, lessons to share, teaching strategies, and more. The deadline for submission is August 15, 2016.

<http://clearingmagazine.org/>

Contact editor@clearingmagazine.org

Teacher-Scientist Partnership Questionnaire

This questionnaire aims to gather information about interests for next steps beyond the formation of a LinkedIn group called Teachers Scientist Partnership.

<https://www.surveymonkey.com/r/teachscipartner>

GRANTS AND OPPORTUNITIES

Carbon XPrize

The NRG COSIA Carbon XPRIZE is a four-year competition that challenges anyone to develop innovative approaches for converting CO2 emissions into valuable products.

<http://carbon.xprize.org/>

Champions of Change for Climate Equity

The White House announces a call for nominations to recognize individuals as Champions of Change for Climate Equity. Nominees should work at the grassroots level to enable low-income and underserved communities prepare for, adapt to, and thrive in the face of climate change. The deadline for nomination is June 10, 2016.

<https://www.whitehouse.gov/blog/2016/04/20/nominate-white-house-champion-change-climate-equity>

Core Fulbright U.S. Scholar Program

The Core Fulbright U.S. Scholar Program offers teaching, research, or combined teaching/research awards in environmental studies and other disciplines. Opportunities are available for college and university faculty and administrators as well as for artists, journalists, scientists, lawyers, and others. The deadline for application is August 1, 2016.

<http://www.cies.org/program/core-fulbright-us-scholar-program>

Disaster Prep Grants

Youth Service America in partnership with Save the Children offer the 9/11 Day of Service We Stand Strong Disaster Prep Grants to support organizations to engage youth in helping their communities be prepared for disasters. The grants are for youth leaders to organize disaster preparedness awareness events (Prep Rallies) and community service projects (Prep Projects) on the September 11th National Day of Service and Remembrance. See the website for other opportunities.

<http://ysa.org/grants/organization-grants/westandstrong/>

Disney Summer of Service Grants

The Disney Summer of Service Awards recognize young people, ages 5-18, who are creating positive change through volunteering and service. The deadline for application is September 30, 2016.

<http://ysa.org/grants/youth-grants/disney/>

Fishers Emergency Response System RFP

The University of the West Indies, Mona has received financing for consulting services to develop and test an Early Warning and Emergency Response System for fishers at sea, including the respective system's e-services, and conduct the requisite training in the use and administration of the system. The system should reduce fishers vulnerability to the impacts of climate change while providing for sharing of local ecological knowledge to inform climate-smart planning, management decision-making, and risk management in the fisheries sector. The deadline for expressions of interest is May 27, 2016.

<https://www.openchannels.org/grants/2016-05-27/eoi-development-early-warning-and-emergency-response-system-fishers>

Hasbro Community Action Hero Award

The Hasbro Community Action Hero Award recognizes outstanding young volunteers between the ages of 5 and 18 who have done remarkable community service. The deadline for nomination is June 13, 2016.

<http://www.generationon.org/teens/awards/hasbro-community-action-hero-award>

NSTA Summer Institute

Enter to win free registration for a Next Generation Science Standards Summer Institute, July 15, 2016 in Reno, Nevada or August 8, 2016 in Detroit, Michigan. The deadline for entry is June 10, 2016.

<http://ngsssummerinstitutes.hscampaigns.com/>

NSTA Teacher Awards

The National Science Teachers Association sponsors numerous awards for educators. Check the website for complete details of all the awards. The deadline for application for most is December 15, 2016.

<http://www.nsta.org/about/awards.aspx>

President's Environmental Youth Awards

Sponsored by the EPA, the President's Environmental Youth Awards (PEYA) program recognizes young people for projects which demonstrate their commitment to the environment. The deadline for submission is March 1, 2017.

<http://www2.epa.gov/education/presidents-environmental-youth-award>

Rivers, Trails and Conservation Assistance Program

The Rivers, Trails and Conservation Assistance (RTCA) program assists with community-led natural resource conservation and outdoor recreation initiatives. RTCA staff provide guidance to communities so they can conserve waterways, preserve open space, and develop trails and greenways. The deadline for application is June 30, 2016, but contact them as early as possible before application deadline to discuss your proposed project and inform them of your intent to apply. See the website for complete details.

<http://www.nps.gov/orgs/rtca/apply.htm>

Westinghouse Charitable Giving

Westinghouse provides grants to nonprofit programs that support science, technology, engineering, and mathematics education, environmental sustainability, and community vitality; encouraging programs that meet the needs of the disadvantaged, the young, and those with disabilities. See the website for complete details. The next deadline for proposals is October 1, 2016.

http://www.westinghousenuclear.com/Community/Charitable_Giving/

Zayed Global High School Prize

The goal of the Zayed Global High School Prize is to inspire future generations across the globe by instilling an ethos of sustainability from an early age, including an appreciation of issues in energy and broader sustainability. The deadline for application is June 26, 2016.

http://www.zayedfutureenergyprize.com/en/prize-categories/global_high_school_prize/

FELLOWSHIPS, INTERNSHIPS, AND TEMPORARY OPPORTUNITIES

DAN Europe Internship - Italy

The unpaid DAN (Divers Alert Network) Europe internship program will start July 6, 2016. The custom-tailored program includes a common training period of three weeks followed by a mentored experience-based internship.

<http://www.greenbubbles.eu/?p=897>

EDGE Fellowships

The Zoological Society of London's EDGE of Existence program focuses on threatened species that represent a significant amount of unique evolutionary history. They are accepting applications for the fellowship program from in-country early-career

conservation biologists or wildlife managers. The deadline for application is June 15, 2016.

http://www.edgeofexistence.org/conservation/become_fellow.php

NSTA New Science Teacher Academy Fellowships

NSTA fellowships offer middle and high school science teachers from specific states in their second through fifth years of teaching a year-long immersion in a host of science-related activities and professional development opportunities. The deadline for application is August 5, 2016.

<http://www.nsta.org/academy/>

Turtle Eco-Tour Program - Florida

The Loggerhead Marinelife Center, a non-profit sea turtle hospital, offers the SWIM (Serving the World's Imperiled Marine Life) Destination Eco-Tour program June 17-23, 2016 in Juno Beach, Florida. Participants will have the opportunity to experience hands-on sea turtle research, rehabilitation, and conservation efforts.

<https://www.marinelife.org/conservation/swim/juno-beach-itinerary/>

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

AREA Conference – West Virginia

The Aquatic Resources Education Association (AREA) will host the 2016 biennial conference October 23-27, 2016 in Shepherdstown, West Virginia. Students with a strong interest in aquatic resources education and a career with a fish and wildlife agency may apply for a conference scholarship. The deadline for application is August 31, 2016.

<https://area.wildapricot.org/page-18106>

Bays and Bayous Symposium - Mississippi

The 2016 Mississippi-Alabama Bays and Bayous Symposium, November 30-December 1, 2016 in Biloxi, Mississippi focuses on coastal science research, education, and outreach in the northern Gulf of Mexico.

<http://masgc.org/bays-and-bayous>

Coral Reef Airborne Laboratory Science Workshop – Hawai'i

The CORal Reef Airborne Laboratory (CORAL) is a three-year NASA Earth Venture Suborbital project to measure the condition of coral reefs and understand their relation to the environment. CORAL will use airborne spectral imaging to generate calibrated scientific data products and models describing reef condition, namely the composition, primary production, and calcification of the seafloor community. There will be a workshop June 18, 2016 in Honolulu, Hawai'i.

Contact Stacy Peltier at stacy.peltier@bios.edu

<https://coral.jpl.nasa.gov/>

Energy Within Environmental Constraints - Online

Harvard University offers the free HarvardX MOOC, Energy Within Environmental Constraints, a quantitative introduction to the energy system and its environmental impacts. The ten-week course starts June 8, 2016.

<https://www.edx.org/course/energy-within-environmental-constraints-harvardx-engsci137x>

Environmental Courses - Online

The University of Wisconsin-Stevens Point offers fall online courses. Check the website for offerings and course dates. The deadlines for registration are August 15, 2016 or three weeks before the course start date (whichever is earlier).

<http://www.uwsp.edu/cnr/AMP/Pages/Course%20Info/Registration.aspx>

Foundations of Interpretation - Online

The Eppley Institute for Parks and Public Lands at Indiana University offers the free online course, Foundations of Interpretation, designed to provide a basic understanding of the theory and practice of interpretation. The course integrates text, interactive practice activities, videos, and more in a self-paced, online format.

<http://idp.eppley.org/training/entry/tools/foundations>

Gulf of Mexico Oil Spill and Ecosystem Science Conference - Louisiana

The Gulf of Mexico Oil Spill and Ecosystem Science Conference, February 6-9, 2017 in New Orleans, Louisiana, is accepting submissions for scientific sessions. The conference theme, Ecosystem Approaches to Gulf Response and Restoration, encourages researchers to consider the application of their results to practical use. They are especially interested in sessions focused on communicating science to a variety of audiences.

<http://www.cvent.com/events/2017-oil-spill-and-ecosystem-science-conference/event-summary-b167156e2ddd40e5a4d371b459058545.aspx?tw=25-5A-7D-C2-10-F6-D1-0B-ED-4B-B5-45-F9-67-C1-2A>

Leaders of Learning - Online

This free MOOC from HarvardX will help participants explore and understand their own theories of learning and leadership. While the six-week course started May 17, 2016, you may be able to still enroll, or sign up to receive future notifications about courses from HarvardX.

<https://www.edx.org/course/leaders-learning-harvardx-gse2x-0>

Leadership Courses - Online

NonprofitReady.org has partnered with Filtered, an online training company, to offer free access to two of Filtered's curricula: Leadership & Management and Communication, Influence & Teams.

<http://ysa.org/briefing/nonprofitready-leadership-management-and-communication-influence-teams/>

Marine Spatial Planning Trainings

The EBM Tools Network and partners have gathered information on existing marine spatial planning training opportunities. Categories include short courses, graduate programs, tools training, and more.

<https://meam.openchannels.org/trainings>

NAI Webinars – Online

The National Association for Interpretation hosts a variety of webinars designed to advance interpretation techniques and help participants connect with their audiences.

Upcoming webinars focus on Inspiration-based Interpretation. Check back for future offerings.

http://www.interpnet.com/NAI/interp/Certification/Other_Training/Webinars/nai/certification/Webinars.aspx

National Security and Climate Change - Online

The Southern Alliance for Clean Energy offers this free webinar, June 2, 2016, to help attendees better understand how climate change increases security risk by aggravating stressors such as poverty, environmental degradation, political instability, and social tensions that exacerbate violent conflict. Speakers will discuss how the military is working to meet the challenges of basing, training, equipping, and operating under such conditions.

<https://climateandsecurity.org/2016/05/26/webinar-national-security-and-climate-change/#more-8912>

NMEA Youth Conference – Florida

Hosted by the NMEA Youth Engagement Committee and SeaWorld Orlando, NMEA invites students in high school and college who are passionate about marine science, education, and conservation to join a special Youth Conference, June 28, 2016 at the NMEA Annual Conference in Orlando, Florida, followed by the conference's evening event at SeaWorld Orlando.

http://www.marine-ed.org/page/NMEA_2016_YouthConf

Ocean Exploration Workshop – Florida

NOAA's Ocean Exploration Program and partners offer the Okeanos Explorer Education Materials Collection Professional Development Workshops for Educators. Participants will receive classroom-ready lessons, certificates of participation, and other resources. Volume 2: How Do We Explore? Professional Development for Educators of Grades 5-12 will take place July 30, 2016 with the University of South Florida College of Marine Science in St. Pete Beach, Florida. The deadline for registration is July 8, 2016.

Contact Teresa Greely at greely@marine.usf.edu

Ocean Literacy Summit - Maine

The New England Ocean Science Education Collaborative will host the 2016 Ocean Literacy Summit, November 3-4, 2016 in Portland, Maine. The summit will focus on the research and education activities surrounding Ocean Literacy principle #3, the ocean is a major influence on weather and climate. An interactive Science and Education Fair will highlight hands-on activities and interpretive ideas on teaching ocean literacy.

<http://www.neosec.dreamhosters.com/previous-summits/2016-ocean-literacy-summit/>

Protected Area Systems: Management and Design – Online

This free, 8-week e-course from the United Nations Development Programme is aimed at policy makers, managers, and practitioners of protected area systems. Participants will gain an overview of key issues related to the design and management of protected area systems and have a chance to interact with protected area experts.

<http://nbsapforum.net/#read-thread/1672>

Public Lands Alliance Convention – Washington, D.C.

The call for proposals is open for the 2017 Public Lands Alliance Convention and Trade Show, February 12-16, 2017 in Arlington, Virginia. They seek session ideas that will help attendees serve and support public lands in the United States, especially those

which provide innovative tools and solutions for partners in Education and Learning on Public Lands, Effective Public Lands Partnerships, and Public Lands in a National and International Context. The deadline for submission is June 10, 2016.

<https://publiclandsalliance.submittable.com/submit/56395>

Rising Tides and Changing Times Workshop – South Carolina

Explore past, present, and future impacts of climate change, August 3-4, 2016 in South Carolina. This free workshop for formal and informal educators will provide a close look at the challenges of rising seas on eastern coasts.

<https://www.climate.gov/teaching/professional-development/climate-education-workshop-rising-tides-and-changing-times>

Seminars on Science - Online

Registration is open for Seminars on Science from the American Museum of Natural History. Courses are co-taught by an experienced classroom teacher and a research scientist. Upcoming courses include Climate Change, Earth: Inside and Out, The Ocean System, and more. Summer Session 2 runs July 11-August 21, 2016, with deadlines for registration in June. A stipend may be available for those completing the climate change course. Be sure to also check out the upcoming MOOC, The Dynamic Earth: A Course for Educators starting June 13, 2016. See the website for complete details.

<http://www.amnh.org/learn/>

Sharing Stories About Climate Change - Online

Join the NOAA Climate Stewards Education Project, June 6, 2016, for this webinar with the director of the Climate Stories Project. Learn about this educational and artistic forum for sharing stories about personal and community responses to climate change.

<https://attendee.gotowebinar.com/register/4319746264851488769>

Sharks! Global Biodiversity, Biology, and Conservation - Online

In this free MOOC from Cornell University and the University of Queensland, starting June 28, 2016 for four weeks, learn about sharks, their senses, and how sharks and their relatives have impacted human history and culture. Join researchers as you track the movement of a wild shark on Twitter, observe shark habitats, and more.

<https://www.edx.org/course/sharks-global-biodiversity-biology-cornellx-uqx-bioee101x>

Summer Institute for Climate Change - Minnesota

Climate Generation's 2016 Summer Institute, June 21-24, 2016 in St. Paul, Minnesota, will focus on their newest middle school curriculum resource, Next Generation Climate.

<http://www.climategen.org/what-we-do/education/professional-development/summer-institute/summer-institute-2016/>

Sustainability in Higher Education Student Summit - Maryland

Join the Association for the Advancement of Sustainability in Higher Education's Student Summit, October 9, 2016 in Baltimore, Maryland.

<http://conference.aashe.org/program/student-summit/>

Tropical Coastal Ecosystems - Online

This self-paced free MOOC course from the University of Queensland helps students develop the skills and knowledge needed to preserve tropical coastal ecosystems. The seven-week course is being offered again, with new material, starting May 31, 2016.

Hurry and register as soon as you can.

<https://www.edx.org/course/tropical-coastal-ecosystems-ugx-tropic101x-2>

EDUCATIONAL RESOURCES

A Capella Science

Check out the A Capella Science videos on YouTube. Topics include entropy, time, gravity, Animalia, and more.

<https://www.youtube.com/user/acapellascience/videos>

About Bioscience

This well-organized website offers information and resources on a wide range of bioscience topics, including biodiversity, ecology, and more. The career sections are very informative. Check this out.

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

Advancing STEM Learning For All

Check out the National Science Foundation's 2016 Video Showcase, Advancing STEM Learning For All. There are over 150 videos that showcase innovative work to improve science, math, engineering, and computer science education. Be sure to check 2015's Teaching and Learning Showcase.

<http://stemforall2016.videohall.com/>

Being Prepared for Climate Change

The workbook from the EPA, Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans, presents a step-by-step application of a risk management methodology to climate change adaptation.

<http://toolkit.climate.gov/tool/being-prepared-climate-change-workbook-developing-risk-based-adaptation-plans>

Carbon TIME

The Carbon: Transformations in Matter and Energy (Carbon TIME) teaching units are designed for middle and high school science classes. They focus on processes that transform matter and energy in organisms, ecosystems, and global systems. Four units, *Systems and Scale*, *Plants*, *Animals*, and *Decomposers*, examine matter and energy in flames and individual organisms. The *Ecosystems and Human Energy Systems* units focus on carbon and energy at ecosystem and global scales. Students use these cellular and chemical processes to explain the functioning of organisms as well as ecological and global carbon cycling.

<http://carbontime.bsccs.org/home>

Climate Change Animation

The California College of the Arts and The Marine Mammal Center produced an animated short highlighting the science of climate change, its effects on marine mammals, and actions we can take to reduce our global footprint.

<https://www.youtube.com/watch?v=dBTy4JfJUQM>

Climate Change Game Night – Washington, D.C.

The Smithsonian's National Museum of Natural History Q?rius program will host a Climate Change Game Night focused on water, June 9, 2016 in Washington, D.C. Explore Arctic ice-melt, conserve marine ecosystems, and more.

http://go.si.edu/site/Calendar?id=101261&view=Detail&s_src=nmnh_email_nmnh_er&s_subsrc=enews_1605

Climate Change Information Portal

Delaware Sea Grant's Climate Information Portal offers information and links to climate science, including Delaware-specific climate information and best practices for communities and individuals to consider.

<https://www.deseagrant.org/climate-portal>

Climate Choices Issue Guide

The Environmental Issues Forums provides tools, training, and support for engaging adults and students in discussions about sticky issues that affect the environment and communities. The Climate Choices Issue Guide and associated materials can support a moderated discussion about climate change and possible actions. Check out the NAAEE website to learn how to get involved with environmental issues forums.

<https://www.nifi.org/en/issue-guide/climate-choices>

<https://naaee.org/our-work/programs/environmental-issues-forums>

Climate for Health

The Climate for Health initiative advances climate solutions to protect the health of patients and communities while working to reduce climate impacts in hospitals, offices, and elsewhere. The website offers a downloadable infographic on some of the health impacts of climate change.

<http://climateforhealth.org/why-health-climate>

Coral Trait Database

The Coral Trait Database is a growing compilation of scleractinian coral life history trait, phylogenetic and biogeographic data.

<https://coraltraits.org/>

Deep Links

Deep Links is a collaborative project between Plymouth University's Deep Sea Conservation Research Unit and partners. The project investigates how patterns of population connectivity vary with depth in the deep-sea, and how this influences species diversity. The six-week expedition runs through June 23, 2016.

<https://deeplinksproject.wordpress.com/>

Deep Sea Publishing

Deep Sea Publishing publishes general fiction, children's stories, young adult and teen novels, art and photography, and technical references. The company is committed in helping authors publish their novels, children's books, and science and technology books. Check out some of their titles, including the Dr. Jaws series, Bryant Family Chronicles, Virginia Flowers, and more.

<http://deepseapublishing.com/>

Earth Science Videos

Tom Gazda supports this website with handpicked earth science videos from around the Internet. Current topics include Plate Tectonics, Energy & Seasons, and more. Check back for future additions.

<http://www.gazdonianproductions.com/>

eBird/Macaulay Library Media Search

The eBird/Macaulay Library Media Search is a tool for exploring photos and sounds uploaded through eBird, as well as the collection of bird sounds and video archived in the Macaulay Library. Click the icon of the type of media you're searching for (video, audio, and more)

<https://ebird.org/media/catalog>

Effectively Communicating Climate Change - Online

The OneNOAA Science Seminar Series will present Effectively Communicating Climate Change to the American Public: Challenges and Opportunities, June 2, 2016. See the website for an abstract and remote access information.

https://calendar.google.com/calendar/render?eid=Z2FpZjdiOHU2dWQ0YmF1OGdtdG01NmVyMzQgbm9hYS5nb3ZfNDk0NDMyMzQzNjMzMzJAcmVzb3VyY2UuY2FsZW5kYXl1uZ29vZ2xILmNvbQ&sf=true&output=xml#eventpage_6

Evolution of Terrestrial Ecosystems Program

The goal of the Evolution of Terrestrial Ecosystems Program at the Smithsonian National Museum of Natural History is to understand how terrestrial ecosystems have been structured and how they change over geologic time.. Using fossil records, scientists use paleoecological analyses to uncover a host of different patterns, evolutions, structures, and compositions of ecological communities and their ever changing dynamics.

<http://naturalhistory.si.edu/ETE>

Hidden Chukchi Borderlands Expedition

From July 2-August 10, 2016, scientists will be exploring the hidden microbial system within the sea ice of the Chukchi Borderlands on board the U.S. Coast Guard Cutter *Healy*. Follow along with the expedition, and stay tuned for a webinar for educators; check back, as information will be posted in late June.

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

<http://oceanexplorer.noaa.gov/explorations/explorations.html>

iDigBio: Integrated Digitized Biocollections

Funded by the NSF, the iDigBio website features data and images for millions of biological specimens that are available in electronic format. The site currently includes lesson plans for grades 6-12, with additional resources planned.

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

Kahoot!

Kahoot! is a free website that allows teachers to quickly create educational games. The games are designed to be played interactively, in a group setting, in which each player answers questions on his or her own device while games are displayed at the front of the room. There is also a social learning component, in that students contribute to discussion boards and chat rooms in order to deepen their understanding. Free registration is required.

<https://getkahoot.com/>

Mapping Ask Us Anything

Join the Office of Ocean Exploration and Research Mapping Team June 2, 2016 for a Reddit Science "Ask Me Anything" session. They'll be available to answer your questions about NOAA Ship Okeanos Explorer's mapping capabilities or seafloor mapping in general.

<http://oceanexplorer.noaa.gov/oceanos/explorations/ex1605/background/reddit/welcome.html>

Mesophotic Coral Ecosystems

The United Nations Environment Programme released a report on mesophotic coral ecosystems (MCEs), representing contributions from 35 scientists. The report asks the question – can MCEs provide a “life boat” for shallow coral reefs that are suffering decimation from rising sea surface temperatures and other anthropogenic impacts? <http://www.grida.no/publications/mesophotic-coral-ecosystems/>

MPA Blog

The IUCN’s World Commission on Protected Areas offers their Official MPA Blog. Follow along with news, opportunities, and more. <http://blog.protectplanetoocean.org/>

Multisolving

The Climate Interactive website offers strategies for creating a more livable world today while preventing future climate change. Strategies that improve health, equity, and resilience can also reduce greenhouse gas emissions and protect the climate. The website offers examples, tools, and more. <https://www.climateinteractive.org/programs/multisolving/>

NOVA: Interactives Archive

These interactives from the PBS science show, NOVA, offer a wide range of topics, including Earth, Exploration, Nature, and more. Check out Make the Earth’s Weather, Find Your Longitude, Quick Change Artists, and much more. <http://www.pbs.org/wgbh/nova/hotscience/>

Ocean Science Radio

The Ocean Science Radio podcast features ocean science news and guests. Visitors can listen to it for free on SoundCloud or iTunes. <https://soundcloud.com/ocean-science-radio>
<https://itunes.apple.com/hr/podcast/ocean-science-radio/id1087991703?mt=2>

Owlie Skywarn

The National Weather Service’s education pages offer materials for parents, teachers, and students. Resources include weather ready information and activities, weather science, and weather safety. Check out the extensive links. <http://www.weather.gov/owlie/>

Photography Tips for Beginners

Holbrook Travel offers these photography tips to help improve your travel (and other) photos. <http://www.holbrooktravel.com/blog/photography/top-5-photography-tips-beginners>

Project Poseidon

Project Poseidon is a proposed 100-day undersea exploration and research expedition at Aquarius Reef Base. The two overarching objectives of the expedition are to conduct cross-disciplinary research across multiple fields of study, and to effectively communicate and disseminate the mission’s scientific findings through a comprehensive

education and public outreach program. Check out the SeaSpace Society's project page, and follow along on facebook.

<http://www.seaspacesociety.org/#!/project-posiedon/c1viv>

<https://www.facebook.com/projectposeidonunderseaexpedition>

Science Supply Search

NSTA's Science Supply Guide helps teachers find supply sources for their science classroom or lab. The modified search website offers categorized browsing for supply companies.

<http://nstasciencesupplyguide.com/>

Sharks & Coffee Podcast

Dr. Jaws offers this series of podcasts about sharks. Season 1 is available on YouTube, and Season 2 is set to debut June 2, 2016.

<https://www.youtube.com/watch?v=tR0wySLeMMo&feature=youtu.be>

Transatlantic Mapping Survey

A multi-national team of ocean mapping experts carried out a second year of trans-Atlantic mapping surveys for the Atlantic Ocean Research Alliance. The surveys help to better understand the North Atlantic Ocean, promote sustainable management of its resources, and promote citizens' understanding of the Atlantic through ocean literacy. Read the daily blogs, check out the education resources, and more.

<http://www.atlanticresource.org/aora/trasna>

Unraveling Spiral

This global temperature GIF visualization takes a look at global temperatures in a different way. The web page also shows other historic temperature graphics.

<https://www.washingtonpost.com/news/capital-weather-gang/wp/2016/05/10/the-most-compelling-visual-of-global-warming-ever-made/?sdfdsdfsdfsd>

Vector-borne Diseases and Climate Change

The University Corporation for Atmospheric Research offers this web page with a variety of resources discussing vector-borne diseases and climate change. Check out the videos, try out the lessons dealing with climate and health, and explore the links to additional websites.

<http://ucarconnect.ucar.edu/features/vector-borne-diseases-and-climate-change>

Weather-Ready Nation

NOAA's Weather-Ready Nation module is designed to increase participants' level of readiness for various weather threats. Visitors select their age group (10-12 or 13+) and state and are linked to a customized set of weather scenarios.

<https://www.meted.ucar.edu/emgmt/wxreadynation/launch.htm>

West Coast Ocean Acidification Cruise

The fifth West Coast Ocean Acidification cruise in May–June 2016 will reoccupy study areas extending through the California Current System, from Baja California to British Columbia. Collaborators both onboard and onshore will assess the health of marine ecosystems in the context of the observed environmental conditions. Read the archives and follow along with the cruise.

<https://westcoastoa.wordpress.com/>

What's Wild in our Wetlands

This interactive map allows visitors to explore some of the major fish species found in different wetland habitats in coastal state.

<http://www.habitat.noaa.gov/protection/wetlands/wild-in-our-wetlands/index.html>

INITIATIVES, JOURNALS, and MORE

bioGraphic

This multimedia magazine from the California Academy of Sciences was created to showcase both the wonder of nature and the most promising approaches to sustaining life on Earth. Topics include Wildlife, Places, Systems, and more. Media includes articles, images, video, and more.

<http://biographic.com/>

Citizen Climate Cost Project

The Citizen Climate Cost Project is a research, education, and citizen-science project currently being piloted in three high schools. It aims to assess and measure the impacts of climate change on American communities; actively engage students and citizens in quantifying its costs; provide citizens with information to advocate for their specific needs; and provide researchers and policy makers with survey-based community-level data for developing sound adaptation and mitigation strategies. If you are interested in keeping informed about the project, follow along on the facebook page or contact Dr. Johnson.

https://www.facebook.com/CitizenClimateCostProject/info/?tab=page_info

Contact Dr. Johnson at laurie.johnson@rutgers.edu

Current Conservation

Current Conservation is published quarterly to promote interdisciplinary research in conservation and to foster communication among scientists, students, resource managers, educators, and policy makers. The magazine carries research and news from both the natural and social science facets of conservation. Articles are illustrated with stylized artwork, infographics, and photos. Issues are downloadable online, along with columns, photo essays, and more.

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

Educators Night Out - Houston

The Houston Zoo offers two opportunities to attend an educators night out, August 9 or 11, 2016. Learn some STEAM activities, meet their ambassador animals, and more.

<http://www.houstonzoo.org/education/educators/>

Reef Encounter

The April 2016 issue of Reef Encounter, the magazine-style news journal of the International Society for Reef Studies, is available for free download. Check it out, along with archived editions dating back to 1998.

<http://coralreefs.org/publications/reef-encounters/>

Sea Youth Rise Up Google+ Hangout

Join the NY Aquarium and partners on World Oceans Day, June 8, 2016, for the live broadcast of young ocean leaders as they raise awareness about global ocean issues

and share ideas for youth-driven solutions as part of the launch of the Sea Youth Rise Up campaign.

<http://www.seayouthisriseup.com/live-broadcast>

Wave for Change

Join Jack Johnson and catch the Wave for Change this World Oceans Day, a campaign that asks participants to record themselves making a commitment to the ocean, doing the wave, and sharing their wave on social media. This year's focus is on helping to solve the problem of plastic pollution.

<http://www.worldoceansday.org/wave-for-change-resources/>

World Oceans Day

June 8th is World Oceans Day, a global day of ocean celebration and collaboration for a better future. This year's theme is Healthy Oceans, Healthy Planet, promoting prevention of plastic ocean pollution. Register your event, check out what's happening near you, and more.

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