

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

JUNE 2014

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.

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/>.

NOTABLE REFERENCE

Third National Climate Assessment

The United States Global Change Research Project released the Third National Climate Assessment. The report describes the impacts of climate change across ten geographic regions of the United States, and in economic sectors such as agriculture, energy, and health. The descriptions translate scientific insights into practical information that can help decision-makers and citizens anticipate and prepare for climate-change impacts. Climate.gov offers a page with links to materials for teaching about climate using the National Climate Assessment. NSTA also offers a variety of climate science-related resources, with free NSTA Science Objects and other materials.

<http://nca2014.globalchange.gov/>

<http://www.climate.gov/teaching/2014-national-climate-assessment-resources-educators>

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

INITIATIVES OF THE MONTH

ConnectED

Esri, the market leader in Geographic Information Systems technology, has announced a commitment in support of President Obama's ConnectED Initiative. Esri will provide free access to ArcGIS Online to all elementary and secondary schools in the United States. Under this pledge, schools will receive the same advanced mapping software used by government and business, at no charge.

<http://connected.esri.com/#>

Drinkable Book

WaterisLife sponsors the Drinkable Book, a sanitation manual with pages that double as both water filters and useful information about sanitation in both English and the local language. The book's pages contain technology which can decrease the bacteria count of contaminated drinking water by more than 99.9 percent. Each page can produce up to 60 days of safe drinking water, while an entire book can provide up to four year's worth.

<http://www.dezeen.com/2014/05/12/drinkable-book-sanitation-manual-water-filters-brian-gartside/>

WEBSITES OF THE MONTH

Center for Improved Engineering and Science Education

The Center for Improved Engineering and Science Education (CIESE) at the Stevens Institute of Technology sponsors and designs interdisciplinary projects that teachers can use to enhance their curriculum through use of the Internet. They focus on projects that utilize real time data and collaborative projects that utilize the Internet's potential to reach peers and experts around the world. Check this out if you haven't visited here lately.

<http://ciese.org/currichome.html>

Hokule'a Worldwide Voyage

Follow along with the Polynesian Voyaging Society's canoes Hokule'a and Hikianalea as they sail from Honolulu, Hawaii to American Samoa. NOAA's Office of National Marine Sanctuaries is supporting this worldwide voyage, begun May 18, 2014. The Hawaiian voyaging canoes are journeying around the world to learn, create global relationships, and explore how to care for the oceans and earth. Ask the crew a question, track the voyage, check out the learning resources, attend a Google hangout, and more.

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

REQUESTS

Looking for Students to Skype

A group of students (ages 12-18) with SCUBAnauts is coming to Washington, D.C. for Capitol Hill Ocean Week, June 9-13, 2014. They will hold a brief conference using Skype for students to share their marine environmental projects with another student group. This is a great opportunity to learn about what other students are doing in relation to the oceans and connect with students from other parts of the country and world. Contact Elizabeth for details.

Contact emoses@scubanautsintl.org

NSTA Survey

NSTA is asking educators to help set priorities for how the organization can best support science teaching. Please take this short survey.

<https://www.surveymonkey.com/s/3B6HBGW>

Seeking Input to Reef Management Plan

Our Florida Reefs North Working Group represents academic interests in the process of developing a management plan for the Southeast Florida reef tract. This process is designed to increase public involvement in the future management of southeast Florida's coral reefs. What would you like to see as part of this management plan? If you sponsor a marine science/environmental science club, they would be interested in the feedback from those students as well.

<http://ourfloridareefs.org/public-comment-form/>

GRANTS AND OPPORTUNITIES

Binoculars for Young Citizen Scientists

Through November 2014, Celestron, through Cornell's BirdSleuth K-12 initiative, will be awarding binoculars to schools where educators have made outstanding efforts to engage their students in citizen science.

<http://www.birdsleuth.org/binoculars-for-the-citizen-scientists/>

Biodiversity Through Your Eyes Photo Competition

In support of the International Day For Biological Diversity and this year's theme, Island Biodiversity, UNEP's Caribbean Environment Programme has launched the Biodiversity Through Your Eyes photo competition. This competition is open to anyone interested in capturing what biodiversity means to them, with a special emphasis on its importance for livelihoods on islands. The deadline for submission is June 19, 2014.

<http://www.cep.unep.org/biodiversity-through-your-eyes-photo-competition-is-launching-today>

Captain Planet Foundation Grants

The Captain Planet Foundation provides grants to school and community groups to support hands-on environmental projects for youth in grades K-12. The objective of the foundation is to encourage innovative programs that empower youth to work individually and collectively to solve environmental problems in their neighborhoods and communities. The next deadline for application is September 30, 2014.

<http://captainplanetfoundation.org/apply-for-grants/>

Every Day Capacity Building Grants

Every Day Grants from the National Environmental Education Foundation, with support from Toyota Motor Sales USA, Inc., help strengthen nonprofit public lands support groups, enabling them to do more to connect their communities to the land. Capacity Building Grants will be awarded to groups who make the best case for how the funds will build their capacity to better serve the lands they love. The next deadline for application is October 30, 2014.

<http://publiclandseveryday.org/grants/capacity-building-grants>

Funky Nests in Funky Places

The Cornell Lab of Ornithology encourages people of all ages to submit photos, artwork, or stories about Funky Nests in Funky Places. The deadline for submission is July 1, 2014.

<http://celebrateurbanbirds.org/community/challenges/funky-nests-2014/>

J-aRT Contest

Send a work of art to the seafloor through this year's J-aRt Contest and watch what the intense pressure does to them. Check out the details on the website. The deadline for entry is June 10, 2014.

<http://joidesresolution.org/node/3596>

GreenWorks! Grants

The GreenWorks! Grant is open to any Project Learning Tree-trained educator in the U.S who has participated in at least one ClimateChangeLIVE event. These grants support student-driven projects, enabling students to take what they learn in the classroom and apply it to the real world. The deadline for application is September 30, 2014.

<http://climatechangelive.org/index.php?pid=177>

NOAA Research Photo Contest

The NOAA OAR (Office of Oceanic & Atmospheric Research) Communications Team is sponsoring a 2014 photography contest to explore the scientific and natural world through a camera lens. Of particular interest are photographs conveying the breadth of ocean and atmospheric research that occurs across the globe. Photographs can depict the natural wonder of underwater environments, demonstrate the power and impact of weather and climate, and show scientists at work. The deadline for submission is July 2, 2014.

<https://research.noaa.gov/photocontest2013/PhotoContest2014/ContentAdditions.aspx>

Ocean Acidification and Hypoxia Funding - California

California Sea Grant is soliciting proposals from Californians to conduct research related to impacts of ocean acidification and hypoxia on California's coastal ecosystems. Proposals to examine the synergistic effects of acidification and hypoxia are encouraged. The deadline for submission is June 25, 2014.

<http://www.csgc.ucsd.edu/FUNDING/APPLYING/OPC-Ocean-Acidification-2014.html>

Seafood Champion Awards

SeaWeb's Seafood Champion Awards recognize individuals and companies whose outstanding commitment to sustainability has led to positive change in the seafood industry. Categories include Seafood Champion Award for Advocacy. The deadline for entry is July 1, 2014.

https://adobeformscentral.com/?f=Js*YHlqNm*RNvv2QhwF3-w#

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

Aquaculture Report Release – Washington, D.C. and Online

On World Environment Day, June 5, 2014, the World Resources Institute and partners will release the next installment of the 2013-14 World Resources Report: Creating a

Sustainable Food Future, Improving Productivity and Environmental Performance of Aquaculture. This working paper examines the implications of doubling aquaculture production between now and 2050, and offers recommendations to ensure that aquaculture growth contributes to a sustainable food future. Join the discussion in person or via the Internet.

<http://www.wri.org/events/improving-productivity-and-environmental-performance-aquaculture>

Capitol Hill Ocean Week 2014 - Washington, D.C. and Online

Capitol Hill Ocean Week will take place June 10-12, 2014 in Washington, D.C. Hosted by the National Marine Sanctuary Foundation, CHOW brings together Members of Congress, representatives of state and local governments, academics, business experts, scientists, and ocean explorers. Join OceansLIVE online for streaming coverage, including every official panel, special guests, and roundtable discussions.

<http://innerspacecenter.org/oceanslive>

Coastal Waters Institute - Texas

Join Artist Boat for a free, hands-on field and classroom-based professional development; there are a few spots left for the workshop July 21-24, 2014 in Port Aransas, Texas. Participants will receive the Coastal Waters Institute Curriculum and more.

Contact lashley@artistboat.org

EarthEcho Learning and Advisory Panel

EarthEcho International is seeking educators to be a part of a Learning and Advisory Panel, a collaborative educator network tasked with the review and creation of high quality educational materials that align with scope and complexity of the Next Generation Science Standards, and utilize, review, and improve existing EarthEcho resources. The deadline for application is June 18, 2014.

<http://earthecho.org/news/EELEAP>

EE en Español - Online

The EECapacity Project will host a diverse group of 30 educators and community leaders from North America who will participate in webinars, exchange experiences, access publications, and work together to develop a resource that can help EE practitioners work with the Latino/Hispanic community. This free project-based online learning community will take place June 19-December 19, 2014. Hurry - the deadline for application is June 12, 2014.

https://docs.google.com/a/noaa.gov/file/d/0B764Qmh_VHEXTzVfZVdFc0RaT3c/edit
https://docs.google.com/a/noaa.gov/forms/d/1b6yAfg98pAiJ0KP_B9kn2dfhRDbJA9cdvI9ZLxa5RT0/viewform

Effective Practices in Ocean Acidification Communication

Join this K-12 working group for Effective Practices in Ocean Acidification Communication. This will include monthly skype/conference calls; identifying and vetting classroom resources for accuracy and effective messaging; and more.

Email Jason Hodin at seastar@stanford.edu

Global Edge: Online Course Modules

The Global Edge site from Michigan State University's Broad College of Business offers educational tools for use in the classroom or in executive training. Check out the Culture module, including Ethics, International Negotiations, and more.

<http://globaledge.msu.edu/reference-desk/online-course-modules>

Introduction to the Next Generation Science Standards - Connecticut

Join scientists and educators for this hands-on workshop geared to help middle and high school science educators incorporate real world scientific practices, data, and cross-cutting concepts in their science classroom, July 8-10, 2014 in Groton and Storrs, Connecticut. This free workshop will introduce the Next Generation Science Standards with a series of half-day complementary components covering life sciences, engineering and technology, climate change and adaptation, and natural hazards. A stipend may be available. Hurry – space is limited.

Contact Diana Payne at diana.payne@uconn.edu

MPA Webinars - Online

The MPA Center and partners sponsor a free monthly webinar series focused on building and strengthening MPA networks. Upcoming topics include disaster preparedness, sustainable recreational use, and more. Webinars are archived following the presentation.

<http://marineprotectedareas.noaa.gov/resources/webinars/>

NAI Webinars – Online

The National Association for Interpretation hosts a variety of webinars designed to advance interpretation techniques and help you connect with your audiences. Upcoming webinars discuss advocacy vs lobbying, facilitated dialogue, and more.

http://www.interpnet.com/nai/Certification/Webinars/nai_certification/Webinars.aspx?hkey=7c32c73e-3c21-4540-998e-45c82a050a96

Priority Issues of the Gulf of Mexico Alliance Workshop - Mississippi

Grand Bay National Estuarine Research Reserve and partners will host this professional development workshop, July 8-10, 2014 in Moss Point, Mississippi. The workshop is free for Alabama, Louisiana, and Mississippi science teachers, and a stipend may be available. Subjects will include water quality, habitat conservation and restoration, and more. Space is limited.

Contact Shelia A. Brown at shelia.brown@usm.edu

Professional Development Courses - Massachusetts

The New England Aquarium offers summer professional development workshops in Boston, Massachusetts. In addition to scheduled workshops, the aquarium will design custom in-service training. Registration ends July, 2014.

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

Seagrass and Salt Marshes - Florida

The Apalachicola National Estuarine Research Reserve Coastal Training Program offers a summer Panhandle Habitat Series for coastal decision makers such as consultants, park rangers, volunteer organizations, and others. Seagrass and Salt Marshes Class will take place May 26, 2014 in Port Saint Joe, Florida. The class covers

the ecology, geology, and the economic importance of coastal marshes and seagrass beds.

<http://www.eventbrite.com/o/apalachicola-national-estuarine-research-reserve-coastal-training-program-3569409179>

Social Interpretation: Graphic Design and Social Media – North Carolina

The National Association for Interpretation will hold this Social Interpretation workshop August 18-19, 2014 in Charlotte, North Carolina. It is designed for interpreters who have little or no training in graphic design or social media, but find themselves responsible for creating nonpersonal media.

http://www.interpnet.com/nai/Certification/Social_Interpretation_Graphic_Design_Social_Media/nai/certification/Social_Interpretation.aspx?hkey=644bc161-e54d-47d4-914c-96f3f0f66e41

Summer Institutes - Massachusetts

The Museum Institute for Teaching Science is offering a series of Professional Development Summer Institutes offering EE STEM-based professional development for formal educators. To be responsive to the interests and needs of educators, the institutes will be offered in different locations and formats. All Institutes are collaborations of environmental education, science, and cultural institutions and organizations. See the website for details.

<http://mits.org/2014-summer-professional-development-institutes/>

Writing for Environmental Professionals - Online

The Duke Environmental Leadership program offers the online course, Writing for Environmental Professionals, June 2 - July 11, 2014. Scholarships may be available through the Coca-Cola Advancement in Teaching in the Environment Scholarship (CATES).

<http://nicholas.duke.edu/del/writing-environmental-professionals>

EDUCATIONAL RESOURCES

Charles W. Morgan Sets Sail

Following a six-year restoration, explorers from Mystic Seaport will sail the *Charles W. Morgan* to Stellwagen Bank National Marine Sanctuary following other ports of call along the New England coast. Instead of hunting whales, the last wooden whaleship afloat will sail as an ambassador for ocean conservation. Follow along with live broadcasts from the ship, with commentary from historians, scientists, authors, and artists, July 11-13, 2014 at 10-, 12-, and 14:00.

<http://innerspacecenter.org/oceanslive/upcoming-events>

Climate-Smart Conservation

The guide from the National Wildlife Federation, Climate-Smart Conservation: Putting Adaptation Principles into Practice, provides natural resource managers and other decision-makers with a toolbox on how to plan and implement effective natural resource conservation in the face of rapidly changing climate conditions. The guide directly addresses specific needs called for in the National Fish Wildlife and Plant Climate Adaptation Strategy, and the need to increase the resilience and adaptation of natural resources and the people and economies that depend on them.

http://www.nwf.org/pdf/Climate-Smart-Conservation/NWF-Climate-Smart-Conservation_5-08-14.pdf

Climate Variability and Change - Online

The Climate Variability and Change Virtual Course was a five-day facilitated course in 2013, and the 13 recorded presentations are now available for free, online. The materials offer background on climate variability and change with emphasis on effective communication skills. Topics include weather vs. climate, drought, communication, and more.

https://www.meted.ucar.edu/training_module.php?id=1034#.U4dOGigUrpU

Climate Voices

The Climate Voices network brings non-political conversations about the research findings of the majority of climate scientists to citizens across the United States and Puerto Rico. Check out the videos and websites, find a speaker, and more.

<http://climatevoices.org/>

DEEPER Guide

The DEEPER Guide is a resource guide for initial teacher educators, staff, and students in faculties of education to help embed EE into their pre-service programs. It shares the expertise of environmental educators who have found successful ways of integrating EE into initial teacher education. While focused on Canada, it is equally useful for other interested parties. Chapters include practical recommendations for strategies and practices, a resource appendix, and more.

http://www.oise.utoronto.ca/ese/DEEPER/DEEPER_Guide.html

Doing Good Together

Doing Good Together: 101 Easy, Meaningful Service Projects for Families, Schools and Communities, addresses family volunteerism with hands-on service projects focused on promoting literacy, helping the environment, and more. The website offers a free look inside at various pages, including the Table of Contents.

<http://www.amazon.com/Doing-Good-Together-Meaningful-Communities/dp/1575423545>

Earth: A Graphic Look at the State of the World

This website offers an integrated collection of charts and maps summarizing the conditions of the world's natural ecology and human cultures, their interactions, and their impact on one another. Topics include fresh water, fishing and aquaculture, and more. Sign up for the newsletter, check out the quiz, and more on this website.

<http://www.theglobaleducationproject.org/earth/index.php>

EarthLabs

EarthLabs: A National Model for Earth Science Lab Courses is another well-designed project from the Science Education Resource Center (SERC) at Carleton College. These online units for a high school Earth science lab course are scientifically rigorous and quantitative. The units cover Corals, Drought, Fisheries, and more and consist of online and laboratory experiments, reading appropriate primary literature, and conducting web research. While exploring these resources, refer back to the base SERC Teach the Earth resources for a refresher on the many offerings, including upcoming workshops.

<http://serc.carleton.edu/earthlabs/index.html>

<http://serc.carleton.edu/teachearth/index.html>

EcoLeaders

The National Wildlife Federation's Campus Ecology program's EcoLeaders Initiative is an online community for student environmental leaders to connect, share ideas, and earn recognition for their projects on campus or in the community.

<http://www.nwfecoleaders.org/home>

Educational Passages

Educational Passages uses miniature sailboats as an educational tool for oceanography, earth science, geography, international relationships, and more. They are expanding into the Pacific Ocean and are looking for schools and other marine educational associations to join in upcoming events. Sign up for the mailing list, check out the boat tracking, and contact them for more information.

<http://educationalpassages.com/>

Expedition 351: Izu Bonin Mariana Rear Arc Expedition

Join the *JOIDES Resolution* May 30-July 30, 2014 for the Izu Bonin Mariana Rear Arc Origins expedition. The education program will focus on this exploration, the nature and process of science, and careers. Sign up for live interactions with your group; sessions are free but the number of slots are limited.

<http://joidesresolution.org/node/3389>

Fiscal Management Manual for NGOs

Island Resources Foundation offers the 44-page Fiscal Management Manual for NGOs as a free download. The manual is a practical guides to special fiscal management requirements for accounting for NGOs and other not-for-profit or non-commercial civil society organizations.

<http://www.irf.org/mission/development/pubs.php>

Grand Time Game

The Grand Time Game is a collection of activities that teach students about geologic time. The game elements consist of a tabletop model that demonstrates the geologic history of the Grand Canyon, a script in which students report selected events along the geologic time scale as the instructor operates the model, and a set of overhead transparencies that the instructor shows to illustrate the story.

<http://fsc.fernbank.edu/Geology/GEOWEB/GrandTimeGame/GrandTimeGame.html>

Island Bright Spots In Conservation & Sustainability

The Global Island Partnership promotes public-private-civil society partnerships for biodiversity and sustainable livelihoods domestically, regionally, and internationally. This report supports the dedication of the 2014 International Day for Biological Diversity to islands biodiversity.

<http://www.cbd.int/idb/image/2014/idb-2014-booklet.pdf>

Marine Archaeology Resources

The Bridge offers a variety of resources about marine archaeology. Topics include *Queen Anne's Revenge*, *USS Monitor*, and more.

http://www2.vims.edu/bridge/search/bridge1output_menu.cfm?q=archeology

Marine Science Curricula

The Florida non-profit, Inwater Research Group, is dedicated to providing the scientific community and general public with information to promote conservation of coastal and marine species and their habitats. They will be creating free curricula centered around ocean conservation and focused on STEM initiatives. The lessons are meant to be experiential, dynamic and will cater to myriad learning styles. Activities will include hands-on biological assessments, "out of the seat" learning games, critical thinking written assessments, and chances for the students to role play careers in the sciences. Sign up to receive the materials through a short survey.

<https://www.surveymonkey.com/s/P6PYKVC>

Mission 31

Fabien Cousteau's crew for the 31-day Aquarius mission includes scientists and educators. The overarching theme for Mission 31 is the human-ocean connection within the lens of exploration and discovery. Three main topics will be highlighted throughout the mission: climate change and the related challenges of ocean acidification; ocean pollution with an emphasis on the effects of plastics; and overconsumption of resources with specific focus on the decline of biodiversity. Follow along on blogs, watch live video feed, check out the resources, and more.

<http://mission-31.com/>

NASA Wavelength

NASA Wavelength, the online catalog of peer-reviewed NASA Science Mission Directorate Resources, offers a myriad of easily searchable earth science resources. The resources can be accessed by grade level, topic, and more. Check out the data and images links, browse the nature of science resources, and more.

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

National Landmarks at Risk

The Union of Concerned Scientists offers the downloadable report, National Landmarks at Risk: How Rising Seas, Floods and Wildfires are Threatening the United States' Most Cherished Historic Sites. The report covers different landmarks through 25 case studies. The range and scale of impacts discussed include erosion, rising seas, wildfires, and more.

http://www.ucsusa.org/assets/documents/global_warming/National-Landmarks-at-Risk-Full-Report.pdf

Okeanos Explorer East Coast Mapping Expedition

From May 7-22, 2014, the NOAA Ship Okeanos Explorer traveled from Tampa, Florida to Davisville, Rhode Island, while conducting seafloor and water column mapping of focus areas. Check out the archived resources for this expedition.

<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1403/welcome.html>

Planning and Drought

Planning and Drought outlines steps for drought planning. It offers a guide for planners and communities to explore what drought is, how to track it, and how to mitigate its effects. The book includes eight case studies illustrating a range of drought's consequences and how different organizations prepared for and responded to them. The (large) document is available as a free download. Check out the Drought.gov website, sign up for the newsletter, and more if you haven't visited in a while.

<http://drought.gov/media/pgfiles/PAS574.pdf>

QUEST

A collaboration of six public broadcasters around the country, QUEST is a multimedia series covering sustainability topics through articles, videos, radio reports, television broadcasts, and educational materials. Topics include water, biodiversity, climate, and more.

<http://science.kqed.org/quest/curriculum/>

SciJinks

SciJinks is a joint NOAA and NASA educational website about weather and other Earth science topics, targeting middle and high school students and educators. Search for articles and activities that match the standards' disciplinary core ideas, science and engineering practices, or cross-cutting concepts. Topics include weather, tides and oceans, seasons, and more. Check out the games including Weather Tricktionary, the Bad (Weather) Joke Machine, and much more.

<http://scijinks.jpl.nasa.gov/>

Slug Discounts

The Banana Slug Band is offering half off discount for music downloads, using the coupon code slugrule. CD titles include Only One Ocean, We All Live Downstream, RiverSong, and more. The discount ends June 15, 2014.

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

State of World Fisheries and Aquaculture

The FAO's State of World Fisheries and Aquaculture is available for download in whole or part. The report highlights the growing role of fish in feeding the world. Chapters include status and trends, balanced harvest, meeting future demands, and much more.

<http://www.fao.org/3/a-i3720e/index.html>

Sustainable Financing

Sustainable financing was a popular topic at the Third International MPA Congress (IMPAC3) last October in Marseille, France. Proceedings from a special workshop on the subject are available for download. In addition, the latest issue of MPA News continues the discussion.

<http://depts.washington.edu/mpanews/IMPAC3financing.pdf>

<http://depts.washington.edu/mpanews/MPA137.htm>

Teacher at Sea Blog

Denis Costello is taking part as a teacher at sea in an ocean acidification cruise and will blog about the expedition. The NSF-sponsored ocean acidification research cruise will take place on the Scripps Institution of Oceanography vessel *R/V Melville*, which will travel between San Diego and Seattle during May and June, 2014. The environmental research program will study the effects of upwelling in the eastern boundary of the Pacific Ocean, examining the result of fluctuating amounts of iron in the water.

<http://socalcostello.blogspot.com/>

Teaching Pseudoscience in the Classroom

In the final episode of season seven of Lab Out Loud, Episode 113, Rodney Schmalz and Scott Lilienfeld discuss the use of pseudoscience in the science classroom to help give students the tools needed to differentiate between scientific and pseudo-scientific or paranormal claims.

<http://laboutloud.com/2014/05/episode-113-teaching-pseudoscience-in-the-classroom/#play>

TurfMutt

TurfMutt - Saving the Planet One Yard At A Time, is an environmental education program for grades K-5, offering free science-based, standards aligned curriculum, activities, and more. TurfMutt aims to inspire kids to get outside, explore nature in their communities, and learn about the value of plants and green space.

<http://www.turfmutt.com/#>

United Kingdom Wildlife Overseas

The UK's Wildlife Overseas: a stocktake of nature in our Overseas Territories, offers a first look at biodiversity in the United Kingdom's Overseas Territories. The government has limited information on what species or habitats are present, what protections have been established, or which species may be at most imminent risk of extinction.

<http://www.rspb.org.uk/ourwork/projects/details/369443-the-uks-wildlife-overseas-a-stocktake-of-nature-in-our-overseas-territories>

Urban Protected Areas: Profiles and Best Practice Guidelines'

The IUCN offers Urban Protected Areas: Profiles and Best Practice Guidelines, available for free download.

<http://www.iucn-urban.org/>

Vegevaders

This board game allows students to experience through game-play the continuing co-evolution between plants and their microbial pathogens that occurs during the battle to detect/defend (plants) versus evade/invade (pathogens).

<http://pseudomonas-syringae.org/Outreach/EduOutreach-Vegevaders/EduOutreach-home.html>

Window in the Waves

Window in the Waves is the story of the Flower Garden Banks, a documentary of Synergy Productions in association with Louisiana Public Broadcasting. If your public broadcast channel doesn't host a showing, you can view it on the LPB website.

http://beta.lpb.org/index.php?site/programs2/window_in_the_waves/window_in_the_waves

INITIATIVES, JOURNALS, and MORE

Fishackathons

Fishackathons will partner fishery experts with technologists to create innovative technology which address sustainable fishery challenges. During the initiative, June 16-17, 2014, fishery experts will define the challenges to guide technologists in creating concrete solutions that will make real and sustainable impacts. Check the website for locations.

<http://www.fishackathon.co/>

International Mud Day

International Mud Day is June 29, 2014. Join in! And check out the resources for the Mud Book and other great tools.

<http://www.worldforumfoundation.org/working-groups/nature/international-mud-day/>

National Trails Day

National Trails Day, the first Saturday in June (June 7, 2014), is celebrated annually by the American Hiking Society and partners. National Trails Day events include hikes, paddling trips, birdwatching, geocaching, stewardship projects, and more. Find or register an event near you.

<http://www.americanhiking.org/national-trails-day/>

Ocean Exchange

The Ocean Exchange offers a platform for identifying, accelerating, and promoting the solutions and innovations that positively impact the environment, economies, and health. They do this by connecting innovators and organizations, advocating for collaborations, and providing capital investment through an annual contest and financial awards.

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

Science Activities

The journal, Science Activities Classroom Projects and Curriculum Ideas, offers science projects and curriculum ideas for the K-12 classroom teacher. Written by educators, the articles cover a wide range of topics in the biological, physical, environmental, and behavioral sciences. Activities are teacher-tested, and regular departments include news notes (on exhibits, films, videos, and contests), classroom aids, and more. Check out the sample copy with free online access.

<http://www.tandfonline.com/toc/vsca20/48/4#.U4ZmxSgUrpU>

World Oceans Day

Celebrate World Oceans Day, June 8, 2014, with these resources for kids and teachers. Register your event or find one close to home. Take a photo for the sea and show your support for our ocean. If you're in the D.C. area, celebrate with United Nations organizations. Be sure to check out the free Octonaut resources for your young Disney Junior program viewers.

<http://worldoceansday.org/>

<http://www.undp.org/content/dam/undp/library/Environment%20and%20Energy/Water%20and%20Ocean%20Governance/UN%20Oceans%20Day%20Flier.pdf>