

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**  
**INFORMATION EXCHANGE FOR MARINE EDUCATORS**

**MARCH 2015**

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](mailto: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 REFERENCES**

**Climate Intervention Reports**

Climate intervention, also known as geoengineering, refers to deliberate, large-scale manipulation of Earth's climate intended to counteract human-caused climate change. The National Academies Press has released two reports that assess the potential impacts, benefits, and costs of two different proposed classes of climate intervention: carbon dioxide removal and reflecting sunlight.

<http://nas-sites.org/americasclimatechoices/other-reports-on-climate-change/2015-2/climate-intervention-reports/>

### **Mediterranean MPA monitoring: What is going on in my MPA?**

This edition of Science for MPA Management reviews the scientific literature published on the topic of sound and regular monitoring being essential to effective MPA management. It addresses best practices, limited resources, and more.

<http://www.medpan.org/documents/10180/0/Science+for+MPA+management+-+Issue+4/478f0de0-2104-49ed-a2bf-501ea320bf1>

### **Migration for Memory: A Disaster Mitigation Framework for Cultural Resources**

This framework is meant for those safeguarding community treasures, offering tools they need to make sure cultural resources make it through major disasters. The report discusses training, logistics, and more.

[http://mbhc.state.ma.us/costepma/wp-content/uploads/2015/01/COSTEP-MA\\_Mitigation\\_for\\_Memory\\_Framework\\_2015\\_FINAL\\_Web.pdf](http://mbhc.state.ma.us/costepma/wp-content/uploads/2015/01/COSTEP-MA_Mitigation_for_Memory_Framework_2015_FINAL_Web.pdf)

## **REQUESTS**

### **GIS Data & Product Survey**

NOAA's National Weather Service is working to increase the availability and usability of GIS products and services provided to the public. The GIS Data & Product Survey will help the service improve its products and services. Please take the survey by May 5, 2015.

<https://www.surveymonkey.com/s/noaa-nws-gis>

### **Seeking Advisory Team Members for High School Climate Curriculum**

NAAEE and the World Wildlife Fund seek members of an advisory team for a new high school climate curriculum.

Contact Christy Merrick at [christymerrick@gmail.com](mailto:christymerrick@gmail.com)

### **Seeking Fish Stories**

Jonathan is a biologist/author currently writing a book on the inner lives of fishes, to be published in 2016 by Scientific American/Farrar, Straus and Giroux. The book will be driven by both science and by personal encounters with fishes (broadly defined as all bony fishes and cartilaginous ones, but not marine mammals or invertebrates). If you have an authentic account you would like to share please contact him.

Contact Jonathan Balcombe at [jonathan@jonathanbalcombe.com](mailto:jonathan@jonathanbalcombe.com)

## **GRANTS AND OPPORTUNITIES**

### **Belk Service Learning Challenge**

Belk Service Learning Challenge engages students in grades 6-8 in service learning through a video contest. The deadline for entry is March 13, 2015.

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

### **Beneath the Waves Youth Making Ripples Film Competition**

The aim of the Beneath the Waves Youth Making Ripples film festival and competition for K-12 students is to engage students in marine science education, and to highlight the importance of scientific research related to ocean and coastal communities. Educators and students are challenged to incorporate film into their curriculum by adopting a hands-on approach to marine science education using 21st century technology.

Students should submit short films (< 5 minutes) on any marine science topic of their choice. The deadline for submission is December 5, 2015.

<http://www.beneaththewavesfilmfest.org/youth-making-ripples/forms/>

### **Brimstone Award for Applied Storytelling**

The National Storytelling Network's annual Brimstone Award for Applied Storytelling is awarded for a project that focuses on the transformational properties of storytelling, to increase understanding of the ways storytelling can promote change in individuals and communities. Educators are invited to submit a storytelling project that is service-oriented, based in a community or organization, and replicable in other places and situations. The preliminary proposal deadline is April 30, 2015.

<http://www.storynet.org/grants/brimstone.html>

### **CappSci Inventors Coral Restoration Project**

Propose an innovative technology to scale-up coral reef restoration. Projects may promote growth, prevent death, or tackle the issue in any other logical, justified way. The invention must be cost-effective, practical to implement, and suitable for development and testing in a public science museum. The deadline for initial proposal submission is May 19, 2015.

<http://cappsci.org/cappsci-inventors?inventors=coral2015>

### **Coastal and Estuarine Research Federation Scientific Awards**

The Coastal and Estuarine Research Federation offers a variety of awards for coastal and estuarine research and education. The deadline for award nominations is April 23 2015.

<https://cerf.memberclicks.net/cerf-scientific-awards>

### **Community Resilience Education Funding**

NOAA's Office of Education has issued a request for applications for projects designed to strengthen environmental literacy to improve community resilience to extreme weather events and environmental changes. See the grant for complete details, including eligibility and check out the times of the upcoming informational webinars. The deadline for application is April 13, 2015.

<http://www.oesd.noaa.gov/grants/funding.html>

### **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 April 30, 2015.

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

### **Google Science Fair**

Google and partners offer the annual Google Science Fair, an international competition which encourages students ages of 13-18 to ask questions and perform science experiments to answer those questions. The deadline for submission is May 18, 2015.

<https://www.google.sciencefair.com/en/>

### **Habitat Focus Area Grant**

NOAA announces the Habitat Blueprint - Coastal and Marine Habitat Focus Area Grants for Biscayne Bay, Florida, Puerto Rico's Northeast Reserves and Culebra Island, and Kachemak Bay, Alaska. The principal objective of the grant is to identify and support cooperative habitat conservation projects in NOAA Habitat Focus Areas that sustain resilient and thriving marine and coastal resources, communities, and economies. The deadline for application is March 30, 2015.

<http://www.habitat.noaa.gov/habitatblueprint/hfagrants.html>

### **Katherine M. Swanson Young Innovator Award**

The Tech Museum of Innovation supports the Tech Awards, an international awards program that honors innovators from around the world who are applying technology to benefit humanity. The Katherine M. Swanson Young Innovator Award category is for applicants age 27 and younger. The deadline for submission is April 7, 2015.

<http://thetechawards.thetech.org/submit-application>

### **Laureate Global Fellowship**

The Laureate Global Fellowship from the International Youth Foundation recognizes 20 young leaders, ages 18-29, from around the world who have pioneered solutions to challenges in their communities and beyond. The deadline for application is March 25, 2015.

<http://www.youthactionnet.org/apply>

### **Living on the Ocean Planet Video Competition**

The National Ocean Sciences Bowl, in partnership with NMEA, is sponsoring the Living on the Ocean Planet video contest. High school students can submit a one-to-three minutes video on the theme, The Science of Oil in the Ocean. The deadline for submission is March 20, 2015.

<http://nosb.org/compete/nosb-video-contest/>

### **Microbial Science Grants**

The Center for Microbial Oceanography: Research and Education (C-MORE) is accepting applications for Grants for Education in Microbial Science (GEMS). Past awardees have used their grants for classroom resources, laboratory and field equipment (e.g., microscopes, Vernier probes, plankton nets), field-trip transportation costs, participation on research cruises, and more. Any educator may apply, but preference will be given to public school teachers, non-profit organizations, and first-time applicants. See the website for details and to connect with a University of Hawaii advisor. The deadline for application is March 31, 2015.

<http://cmore.soest.hawaii.edu/education/teachers/gems.htm>

### **National Association of Biology Teachers Awards**

The National Association of Biology Teachers recognizes excellence in teaching with a variety of awards, including the Ecology/Environmental Science Teaching Award. Check the website for information about the different awards. The deadlines for nomination start March 15, 2015

<http://www.nabt.org/websites/institution/index.php?p=132>

### **NOAA Sea Grant Aquaculture Extension & Technology Transfer Competition**

This grant funds marine aquaculture extension and technology transfer efforts, as part of the overall plan to support the development of environmentally and economically

sustainable ocean, coastal, and Great Lakes aquaculture. Applicants are encouraged to connect with the Sea Grant office in advance to discuss their integrated research and extension projects; check with your local office for their earlier deadline for proposal. The deadline for Sea Grant proposals is April 27, 2015.

<http://www.grants.gov/web/grants/view-opportunity.html?oppld=274777>

### **Outstanding Earth Science Teacher Award**

The National Association of Geoscience Teachers presents its Outstanding Earth Science Teacher awards to K-12 educators who have made exceptional contributions to the stimulation of interest in the earth sciences. The deadline for nomination is May 1, 2015.

<http://nagt.org/nagt/awards/oest.html>

### **Presidential Innovation Award for Environmental Educators**

The Presidential Innovation Award for Environmental Educators Program recognizes outstanding K-12 teachers who employ innovative approaches to environmental education and use the environment as a context for learning for their students. Teachers from each EPA region will be selected to receive the award. Hurry - the deadline for application is March 13, 2015.

<http://www2.epa.gov/education/presidential-innovation-award-environmental-educators>

### **Voya Unsung Heroes Awards**

The Voya Unsung Heroes program helps K-12 educators and their schools fund innovative classroom projects. The deadline for application is April 30, 2015.

<https://unsungheroes.scholarshipamerica.org/>

### **Weather in Focus Photo Contest**

NOAA is accepting submissions for its Weather in Focus photo contest, recognizing photographers who have captured images of weather or the science used to forecast weather, water, and climate today. The submission deadline is March 31, 2015.

<http://www.weather.gov/photocontest/>

### **World of Children Awards**

The World of Children Award provides funding and recognition to support life-changing work for children. The World of Children Humanitarian Award is for education, social, and humanitarian services. The World of Children Youth Award is for a young person under the age of 21 who is providing exceptional services/support to other children. The deadline for nomination is April 1, 2015.

<http://www.worldofchildren.org/theaward/awards-we-give/>

### **Youth Birding Scholarships**

The American Birding Association offers scholarships to help young people attend bird-related summer camps, workshops, training programs, conventions, and other activities. The deadline for submission is April 1, 2015.

<http://youngbirders.aba.org/scholarships>

## **FELLOWSHIPS, INTERNSHIPS, AND TEMPORARY OPPORTUNITIES**

### **Education Officer at Sea**

Apply to sail as an Education Officer on *Joides Resolution* Expedition 356: Indonesian Throughflow, July 31-September 30, 2015. The deadline for application is March 25, 2015.

<http://joidesresolution.org/node/453>

### **Education Summer Chaperone**

Dolphin Research Center in Grassy Key, Florida currently has an opening for a residential chaperone for youths attending the DolphinLab program. The position runs June 4–August 7, 2015, and includes room, board, a stipend, and the opportunity to participate in the seminars and workshops for the college-accredited program.

[https://dolphins.org/career\\_opportunities](https://dolphins.org/career_opportunities)

### **Holbrook Travel Professional Development - Various**

Holbrook Travel facilitates professional development programs for science teachers from June through August 2015 to Costa Rica, Belize, Galapagos, and elsewhere.

<http://holbrooktravel.com/pd>

### **Marine Ecology Internships**

The Marine Ecology Lab at Dauphin Island Sea Lab on Dauphin Island, Alabama is looking for interns to help conduct research on several on-going projects in various nearshore benthic habitats along the Northern Gulf of Mexico. Openings are available for both summer and fall seasons for between 3 and 6 months, starting May/June or August/September. These internships offer a monthly stipend. Hurry – the earliest deadline for application is March 9, 2015.

[http://www.disl.org/job\\_list/13](http://www.disl.org/job_list/13)

## **CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT**

### **Big Listening 101 - Online**

The free webinar from Upwell, Big Listening 101: Networked Campaigns and Communications the Upwell Way, will take place March 5, 2015. Those interested in using social media to advance their campaigns for change can learn how to listen to the tides of internet conversation, learn to surf them, better identify opportunities, and use the momentum of conversation to raise issues above the noise and better achieve campaign objectives through Big Listening techniques. Free registration is required.

<https://cc.readytalk.com/cc/s/registrations/new?cid=r7xeuh0bbpjo>

### **Bouncing Back: Preparing for a Changing Coast – Massachusetts**

The Waquoit Bay National Estuarine Research Reserve (NERR) will offer a teacher professional development workshop focusing on preparing for the impacts of climate change, especially sea level rise, March 18, 2015 in Waquoit, Massachusetts. The day will include hands-on, field, and on-line activities to bring back to your classroom, expert presentations, and take home materials.

<http://www.waquoitbayreserve.org/event-registration/?ee=229>

### **Coastal Ecology Teacher Workshop - Georgia**

Join educators at the Sapelo Island National Estuarine Research Reserve, June 20-22, 2015 on Sapelo Island, Georgia, for the Georgia Coastal Ecology Teacher Workshop. The deadline for registration is May 15, 2015.

Contact Georgia Graves at [georgiabeachwalk@bellsouth.net](mailto:georgiabeachwalk@bellsouth.net)

### **International Conference on Interpretation**

The theme of the 2015 International Conference on Interpretation, May 3-7, 2015 in Montreal, Quebec, is Changing Boundaries, Changing Times. The deadline for earlybird registration is March 16, 2015.

[http://www.interpnet.com/NAI/interp/Events/NAI\\_International\\_Conference/nai\\_events/NAI\\_International\\_Conference.aspx](http://www.interpnet.com/NAI/interp/Events/NAI_International_Conference/nai_events/NAI_International_Conference.aspx)

### **Made Clear Workshops – Maryland and Delaware**

The MADE CLEAR project (Maryland and Delaware Climate Change Education Assessment and Research) for the 2015 Climate Science Academy will include climate change science presentations and model lessons. Sessions will be held April-August 2015, and will be a mix of in-person workshops, interactive webinars, and independent work. While the target audience is middle school science and engineering teachers and librarians, others will also be accepted. See the website for complete details. The deadline for application is March 27, 2015.

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

### **Making Sense of Climate Science Denial - Online**

This free MOOC (Massive Open Online Course) through edX is about how people think about climate change. It runs for seven weeks starting in April, 2015. Participants will look at the most common climate myths, lessons from past climate change, critical thinking needed to identify the fallacies associated with the myth, and more.

<https://www.edx.org/course/making-sense-climate-science-denial-uqx-denial101x#.VPHhLOHLkbg>

### **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 include Interpreting for the Latino Community, Holistic Training, Interpretive Message Writing, and more.

[http://www.interpnet.com/NAI/interp/Certification/Webinars/nai\\_certification/Webinars.aspx](http://www.interpnet.com/NAI/interp/Certification/Webinars/nai_certification/Webinars.aspx)

### **NMEA Conference**

The theme of the National Marine Educator's Association 2015 Conference, June 29-July 2, 2015 in Newport, Rhode Island, is Ocean State, Ocean Planet: Exploring Our World of Water. There will be five conference tracks: in the classroom; out of the classroom; next generation science standards; today's scientific research; and partnerships with industry and government.

[http://www.marine-ed.org/general/custom.asp?page=NMEA\\_2015](http://www.marine-ed.org/general/custom.asp?page=NMEA_2015)

### **Ocean Exploration Workshops – Various**

NOAA's Ocean Exploration Program and partners offer the Okeanos Explorer Education Materials Collection How or Why Do We Explore? Professional Development Workshops for Educators. Participants will receive classroom-ready lessons, certificates of

participation, and other resources. Contact the noted educator or check out the website for registration and more information

- April 11, 2015 with the University of South Florida College of Marine Science in St. Pete Beach, Florida. How Do We Explore? Professional Development Workshop for Educators. The deadline for registration is March 20, 2015. Contact Teresa Greely at [greely@marine.usf.edu](mailto:greely@marine.usf.edu)
- May 2, 2015, with the New England Aquarium in Boston, Massachusetts. How Do We Explore? Professional Development Workshop for Educators. The deadline for registration is April 10, 2015. Contact Tania Slywynskyj at [tslywynskyj@neaq.org](mailto:tslywynskyj@neaq.org)
- May 2, 2015, with the John G. Shedd Aquarium in Chicago, Illinois. How Do We Explore? Professional Development Workshop for Educators. The deadline for registration is April 10, 2015. Contact Laura Lytle at [llytle@sheddaquarium.org](mailto:llytle@sheddaquarium.org)
- May 9, 2015 with the Birch Aquarium at Scripps Institution of Oceanography in San Diego, California. Why Do We Explore? Professional Development Workshop for Educators. The deadline for registration is April 17, 2015. Contact Audrey Evans at [eadrey@ucsd.edu](mailto:eadrey@ucsd.edu)

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

### **Secret of Sequels - Online**

Youth Service America will host The Secret to Sequels webinar, March 11, 2015 The webinar brings together youth experts, organizational leaders, and educators to discuss best practices for how to sustain service projects.

<http://www.ysa.org/sequels>

### **Summer Institute for Climate Change Education – Minnesota**

The scientists and educators teaching at the Will Steger Foundation's Summer Institute for Climate Change Education, June 15-17, 2015 in St. Paul, Minnesota, offer hands-on activities that will provide educators with climate change and energy concepts, skills to make learning experiential and to take students outside, and more. The nominal fee includes lodging, meals, and more.

<http://www.willstegerfoundation.org/summer-institute>

### **Teachers on the Estuary Workshop – Massachusetts**

The Waquoit Bay NERR will offer the free research and field-based teacher training program called Teachers on the Estuary (TOTE) for middle and high school science and math teachers, July 13-16, 2015 in Waquoit, Massachusetts, with a focus on planning and carrying out investigations. This program is designed to help teachers learn how to use real data and guide student investigations. Participants will investigate an on-line module on salt marsh values and climate change. A stipend and other support may be available.

<http://www.waquoitbayreserve.org/education-training/education-programs/teacher-training/>

### **Turning Learners Into Leaders - Online**

The free Roots & Shoots Summer Online Course, Turning Learners Into Leaders: Empowering Youth Through Service in Education, June 29–August 2, 2015 teaches participants how to identify and implement a local service-learning campaign. Registration opens April 2015.

<http://www.rootsandshoots.org/onlinecourse>



### **Wastewater Issues in Watersheds – Massachusetts**

The Waquoit Bay NERR and partners offer the free workshop, Wastewater Issues in Watersheds: The Perfect STEM Topic, April 10-11, 2015 in Waquoit, Massachusetts. The goal of this course is to increase understanding of wastewater issues by using them as examples to meet standards in science, technology, engineering and mathematics, and to improve teachers' and students' understanding of the importance of coastal salt marshes and bays and the impact of too many nutrients upon them.

<http://www.waquoitbayreserve.org/event-registration/?ee=233>

## **EDUCATIONAL RESOURCES**

### **AsapSCIENCE**

AsapSCIENCE is a YouTube channel which offers weekly videos touching on different topics of science. Check this out when you've got time to listen online.

<https://www.youtube.com/user/AsapSCIENCE>

### **Climate Outlooks**

NOAA's Climate Prediction Center Climate Outlooks offer users forecasts of future weather conditions relative to what's normal for their region. Part of the U.S. Climate Resilience Toolkit, users can access outlook maps showing experts' judgments regarding changes for above-, below-, or near-average temperature and precipitation, as well as potential hazards and drought conditions, with timescales ranging from weeks to years.

<http://toolkit.climate.gov/tool/climate-outlooks>

### **Climate Security**

The Climate Security 101 project aims to answer frequently asked questions regarding the nature of climate risks to security, as well as act as a clearinghouse for the latest climate security research and policy documents.

<http://climatesecurity101.org/>

### **Climate Stewards Education Project**

The NOAA Climate Stewards Education Project provides formal and nonformal educators sustained professional development, collaborative online tools, and the support to build a climate-literate public engaged in climate stewardship. Sign up for the email list about resources and opportunities.

<http://oceanservice.noaa.gov/education/climate-stewards/>

### **Eat the Invaders**

This website is aimed at fighting invasive species, one bite at a time. It offers information about invasive species, where to find them, and how to prepare them, along with recipes and more. Be sure to check out the article, Invasivore's Dilemma.

<http://eattheinvaders.org/>

<http://www.outsideonline.com/outdoor-adventure/culinary/The-Invasivores-Dilemma.html>

### **EE Week**

National Environmental Education Week (EE Week), April 19-25, 2015, is a celebration of environmental education, aimed at inspiring environmental learning and stewardship

among K-12 students. This year's theme is Surrounded by Science. Register your events, check out the blogs and news feeds, view archived webinars, and more.

<http://eeweek.org/>

### **Endangered Species Day**

National Endangered Species Day is May 15, 21015. The Endangered Species Day website features a Teacher Resource Center with sample science and art lesson plans, and more.

<http://www.endangered.org/campaigns/endangered-species-day/>

### **Hot Science – Cool Talks**

The Environmental Science Institute at the University of Texas at Austin fosters environmental research, education, and outreach across disciplines. They host Hot Science - Cool Talks as a means for researchers from the University of Texas and other universities to communicate their research to the K-12 educational community and the public. Each lecture includes an Internet broadcast for those who cannot attend, a CD-ROM that includes the PowerPoint presentation used during the lecture, detailed notes for each slide, links to websites, and additional resources on the subject material. Check out the archived lectures; topics include climate change, energy, and more.

<http://www.esi.utexas.edu/k-12-a-the-community/hot-science-cool-talks>

### **Marine Debris Curriculum**

NOAA's Marine Debris Program offers a variety of downloadable marine debris educational materials. Turning the Tide on Trash: A Learning Guide on Marine Debris is a set of lesson plans and background information to introduce educators, students, and researchers to the topic of marine debris. The interdisciplinary education guide is designed to provide maximum flexibility in the classroom: it can be used as a stand-alone teaching tool or to supplement work in other subject areas. The Educator's Guide to Marine Debris is designed for educators in both formal and informal education situations. It is a regional introduction to three main categories of marine debris: litter; derelict or abandoned boats; and lost or abandoned commercial and recreational fishing gear. Check out the other materials on this website.

<http://marinedebris.noaa.gov/educate-others/curriculum>

### **Océano Profundo 2015: Exploring Puerto Rico's Seamounts, Trenches, and Troughs**

The latest expedition for NOAA's Office of Ocean Exploration and Research's Okeanos Explorer is Océano Profundo 2015: Exploring Puerto Rico's Seamounts, Trenches, and Troughs, February 24-March 11, 2015. The expedition posting includes a Mission Plan, an Ocean Explorer Expedition Education Module, lessons, and topical theme pages. Legs I and II will focus on mapping. Leg III with deep ROV dives will begin in April, 2015.

<http://oceanexplorer.noaa.gov/okeanos/explorations/ex1502/background/leg1/welcome.html>

### **One Earth Sangha**

For a different reflection on climate change, One Earth Sangha seeks to galvanize a Buddhist response to climate change by raising awareness of the science, providing an interactive space where teachers and community members can discuss the issues, and creating opportunities for focused action. Articles cover topics such as emotional

resilience and reports on climate action. Resources on Dharma and Climate offers links to resources on climate change from Interfaith and other organizations.

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

### **Pacific Marine National Monument Films**

These two new films featuring the Pacific Marine National Monuments are available for free, online viewing. Our Deepest Waters is a 23-minute film for adults, while the Marvelous Music Report at 9 minutes long, is for kids 4-12 years old. The films discuss the marine resources found in these protected areas and the efforts NOAA Fisheries, U.S. Fish and Wildlife Service, and territorial partners are making to safeguard them.

<https://vimeo.com/87202587>

<https://vimeo.com/101320425>

### **Science Friday: Educate**

The Educate section of the Science Friday website offers informative articles with more added two or three times a month. Lesson Plans are accompanied by target grade levels and estimated time to completion, as well as an Educator Toolbox that provides easy access to additional downloadable material.

<http://www.sciencefriday.com/teacher-resources/index.html#page/full-width-list/1>

### **SciGirls**

With support from the National Science Foundation Twin Cities Public Television puts middle school girls in front of a national audience on the PBS series SciGirls. This TV science series is designed specifically for girls, ages 8-12, to inspire and empower them to consider STEM careers.

<http://pbskids.org/scigirls/>

### **Skeptical Science: Getting Skeptical About Global Warming Skepticism**

This website addresses climate change skepticism using peer-reviewed research. A quick view sidebar addresses the ten most common climate myths. The Resources page offers a number of guides and other materials. Some of the information is translated into 20 languages.

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

### **Tracking Earth's Energy Flow**

The February UCARConnect Feature of the University Corporation for Atmospheric Research is Tracking Earth's Energy Flow. Resources include a researcher profile, videos, references, and more.

<https://ucarconnect.ucar.edu/features/tracking-earths-energy-flow#.VPDkAOHLkbh>

### **Virtual Sea Turtle Field Trip**

Invite Florida Oceanographic Society's education staff into your grade 6-10 classroom for a free, live, interactive, virtual field trip experience focused on sea turtle biology and conservation.

Contact Michelle Byriel at [mbyriel@floridaocean.org](mailto:mbyriel@floridaocean.org)

### **Volvo Ocean Race Lesson Plans**

The Volvo Ocean Race is an around-the-world sailing competition. The education program focuses on five themes, including marine science, geography and culture, and more, with a goal to educate and inspire children about the sport of sailing, the ocean,

and to discover the continents and cultures across the world through the lens of the race. Check out the links to the themed educational materials.

<http://www.volvoceanracenewport.com/en/education-program.html>

### **Web Weather for Kids**

The University Corporation for Atmospheric Research Center for Science Education offers a variety of information and educational resources about weather, climate, and more. Web Weather for Kids offers introductory information about clouds, hurricanes, winter storms, and more.

<https://scied.ucar.edu/webweather>

## **INITIATIVES, JOURNALS, and MORE**

### **Discovery Day at the Dauphin Island Sea Lab - Alabama**

This family event, April 11, 2015 on Dauphin Island, Alabama, includes a variety of environmentally-themed children's activities; an open house at the research facilities of the lab where the public can interact with scientists and graduate students to explore their ongoing research projects; and free children's admission to the Estuarium, the aquarium at the Sea Lab.

[http://www.disl.org/news\\_item/23](http://www.disl.org/news_item/23)

### **Journal of Research in STEM Education**

The new Journal of Research in STEM Education aims to facilitate the sharing of new ideas among STEM researchers, practitioners, and policymakers. In addition to original research articles, J-STEM will feature articles on innovative pedagogies developed by both formal and informal educators. The international, peer-reviewed, open-access journal is currently accepting submissions for its inaugural issue, to be published in June 2015. The deadline for submission is March 15, 2015.

<http://j-stem.net/>

### **King Tides Project**

King Tides Project International is an initiative of organizers on coastlines around the world. Participants work through photodocumentation, community mapping, art, and science to help people understand how sea level rise may impact their lives.

<http://kingtides.net/>

### **Sculpture + Intercepting the Waste Stream**

Sculpture + Intercepting the Waste Stream is an introductory sculpture course with a primary focus on transforming waste material into works of art. The course introduces environmentally conscious techniques and processes as well as guidance in terms of professional presentation and practices. Group discussions and critiques, video screenings, and readings complement studio time.

<http://www.projectvortex.org/sculpture--intercepting-the-waste-stream.html>

### **Wiese Distinguished Lecture Series - Alabama**

The Dauphin Island Sea Lab will host the 17th Annual Wiese Distinguished Lecture Series, April 13, 2015 on Dauphin Island, Alabama. The free lecture will feature Dr. Carlos Duarte speaking on Ocean Solutions for Humanity's Grand Challenges.

[http://www.disl.org/news\\_item/25#sthash.BQrj54kb.dpuf](http://www.disl.org/news_item/25#sthash.BQrj54kb.dpuf)