

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

APRIL 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, 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

Changing the Atmosphere: Anthropology and Climate Change

This report from the American Anthropological Association's Global Climate Change Task Force offers a guiding document as to how anthropological contributions can inform issues related to global climate change. Chapters discuss human causes of climate change, lessons learned about human adaptation, the importance of local and community engagement, and more.

<http://www.aaanet.org/cmtes/commissions/upload/GCCTF-Changing-the-Atmosphere.pdf>

Communicating Science

Two resources: The March 8, 2015 edition of the Marine Ecosystems and Management (MEAM, vol. 8, No. 3) offers a discussion about "Turning science into policy: What scientists should (and should not) do when talking to policy-makers." Examples are

offered from different circumstances. David Shiffman from Southern Fried Science has written a blog post on how to write and publish a scientific paper in marine ecology and conservation.

<http://depts.washington.edu/meam/issues.html>
<http://www.southernfriedscience.com/?p=18236>

Legal Frameworks for MPA Enforcement in the Caribbean

This report presents a comparative assessment of enforcement provisions in fisheries and marine protected area legislation in different Caribbean countries. It can be used to compare MPA legislation across the Caribbean and promote the adoption of successful legislative techniques to help achieve a more uniform approach to MPA enforcement throughout the region.

<http://www.gcfi.org/Publications/ELIEnforcementReport.pdf>

GRANTS AND OPPORTUNITIES

Butler-Cooley Excellence in Teaching Award

The Turnaround Management Association and the John William Butler Foundation honor exceptional teachers who have changed the outcome of students' lives and the communities in which they live with the Butler-Cooley Excellence in Teaching Awards. The deadline for applications is May 1, 2015.

http://www.turnaround.org/cmaextras/2015TMA-ButlerCooley_AwardsACTIVE.pdf

Brower Youth Awards

The Earth Island Institute's New Leaders Initiative offers the Brower Youth Awards, recognizing young people (ages 13-22) for their outstanding youth leadership and project impact in conservation, preservation, and restoration. The deadline for application is May 18, 2015.

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

Fishing for Energy Program

The National Fish and Wildlife Foundation's Fishing for Energy Program supports outreach and prevention strategies to reduce the impacts of derelict fishing gear to marine and coastal environments. The deadline for application is April 23, 2015.

<http://www.nfwf.org/fishingforenergy/Pages/2015rfp.aspx#.VRWgTuFtE9w>

From the Bow Seat Ocean Awareness Student Contest

The goal of this contest is to challenge middle and high school students to think critically about challenges facing the ocean. This year's contest theme is Our Oceans, Our Plastic. The website offers links to scientific literature, pollution websites, resources on artists and writing, and much more. New this year are the middle school division and a poetry category. The deadline for entry is June 15, 2015.

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

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 June 15, 2015.

<http://celebrateurbanbirds.org/community/challenges/funky-nests-2015/>

Good Neighbor Innovation School Grants

Youth Service America and State Farm are looking for administrators who want to create a culture of meaningful learning through service in their school. Twenty K-12 public schools will be recognized as Good Neighbor Innovation Schools with grants and support. The deadline for application is May 8, 2015.

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

Green In Action Awards

Green In Action Awards support sustainability projects. The deadline for entry is May 2, 2015.

<http://www.greeneducationfoundation.org/greenweek/contests/green-in-action-contest.html>

Interpretive Master Plan RFP

The Florida Department of Environmental Protection solicits responses to the Request for Proposal for an Interpretive Master Plan for the Division of CAMA / FCO GTM NERR. The proposal relates to the Guana Tolomato Matanzas National Estuarine Research Reserve's Investigator Facilities and Environmental Education Center Upgrade Project, with a goal to provide the northeast Florida community with resources and civic-minded solutions that promote ecosystem resiliency. The deadline for submission is April 29, 2015.

http://www.myflorida.com/apps/vbs/vbs_www.ad_r2.view_ad?advertisement_key_num=118668

Marisla Environmental Program

The Marisla Foundation offers Environmental Program Grants for activities including promoting the conservation of biological diversity and advance sustainable ecosystem management. Primary emphasis is on marine resources conservation with a geographic focus on western North America, Chile, and the western Pacific. The quarterly deadlines for application are January, April, July, and September 15, 2015.

<https://online.foundationsource.com/public/home/marisla>

North Face Explore Fund

The North Face Explore Fund grant program supports non-profit organizations that encourage youth outdoor participation, focusing primarily on creating more connections between children and nature, increasing access to both front and back country recreation, as well as providing education for both personal and environmental health. The deadline for application is April 17, 2015.

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

Odebrecht Award for Sustainable Development

The Odebrecht Award for Sustainable Development gives students a chance to highlight their best ideas for sustainable development. Projects should explore innovative practices, methods, and ideas that can be implemented through a variety of real-world ventures. The deadline for submission is May 31, 2015.

<http://www.odebrechtaward.com/award.php>

Paddle Nation Project Grant

Outdoor Nation is accepting applications from non-profit organizations who are interested in connecting youth with their waterways through recreational paddling. This

funding opportunity supports projects and initiatives that are youth-developed and that result in increased paddling participation. The deadline for application is April 13, 2015. http://www.cybergrants.com/pls/cybergrants/quiz.display_question?x_gm_id=4494&x_quiz_id=5170&x_order_by=1

Patagonia Environmental Grants

Patagonia offers grants to organizations that work on root causes of problems and approach issues with a commitment to long-term change, with a focus on organizations that build a strong base of citizen support. Applications are accepted year round at retail stores and twice yearly at the headquarters, with the next deadline for application of April 30, 2015.

<http://www.patagonia.com/us/patagonia.go?assetid=2927>

Science and Industry in the Arctic

MATE's international student underwater robotics competition consists of an international event and a network of 23 regional contests that take place across the world, with student teams from all types of schools and organizations participating. The competition consists of four different classes that vary depending on the sophistication of the ROVs and the mission requirements. The 2015 MATE International ROV competition will take place June 25-27, 2015 in St. John's, Newfoundland and Labrador, Canada. Check out the southeast regional, set for April 24-25, 2015 in Savannah, Georgia.

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

SeaWorld & Busch Gardens Conservation Fund

The SeaWorld & Busch Gardens Conservation Fund supports projects in species research, habitat protection, animal rescue and rehabilitation, and conservation education. The deadline for application is April 30, 2015.

<http://swbg-conservationfund.org/en/grant-seekers/>

Sol Hirsch Education Fund Grants

The National Weather Association awards grants to K-12 teachers to improve the study of meteorology. Selected teachers can use the funds to take accredited courses, attend workshops and conferences, or purchase materials for the classroom. The deadline for application is June 1, 2015.

<http://www.nwas.org/grants/solhirsch.php>

State Farm Youth Advisory Board Service-Learning Grants

The State Farm Youth Advisory Board Grant Program funds student-led service-learning projects throughout the U.S. and Canada. Specific areas of interest include arts and culture, environmental responsibility, and more. Educators interacting with students in public K-12 schools are eligible to apply. The deadline for application is May 1, 2015.

<http://www.statefarmyab.com/apply/national-grants/>

Wildlife Crime Tech Challenge

The Wildlife Crime Tech Challenge aims to reward innovative scientific and technological solutions to stamp out wildlife crime. Applicants are encouraged to develop innovative solutions to reduce consumer demand for illegal wildlife in four areas: transit routes, forensic evidence, consumer demand, and corruption. See the website for complete details.

<https://wildlifecrimetech.org/index>

FELLOWSHIPS, INTERNSHIPS, AND TEMPORARY OPPORTUNITIES

Education Officer at Sea

Sail aboard the JOIDES *Resolution* as Expedition 356's Education Officer. The expedition runs July 31-September 30, 2015 and will explore the Indonesian Throughflow, Australian Monsoon, and subsidence on the northwest shelf of Australia. Hurry – the deadline for application is April 3, 2015.

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

Environmental Studies PhD Peace Corps Program

Antioch University New England has partnered with the Peace Corps to extend its environmental studies, sustainability, and environmental education efforts to over 60 countries globally. Students earn tuition-free credits during Peace Corps service.

<http://www.antiochne.edu/environmental-studies/peace-corps-masters-international/>

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

Art and Environment - Online

This online course will provide an introduction to the field of eco art as well as a basic introduction to environmentalism. Content is available May 15-August 18, 2015.

<http://wexartenvironment.wordpress.com/teacher-course>

Blue Vision Summit

The Blue Vision Summit, May 11-14, 2015 in Washington, D.C., will include a Healthy Ocean citizen lobby on Capitol Hill, panel discussions, and more.

http://www.bluefront.org/blue_vision_blog/2015-summit/

Climate Resilience Toolkit Webinar - Online

NOAA and partners will host this free webinar, April 13, 2015. It will examine NOAA's climate resilience toolkit, which provides resources and a framework for understanding climate issues. Topics include coastal flood risk, ecosystem vulnerability, and more.

<http://cpo.noaa.gov/ClimatePrograms/ClimateandSocietalInteractions/SARPPProgram/WebinarsandWorkshops.aspx>

Coastal Studies for Girls - Maine

Coastal Studies for Girls is a residential marine science and leadership semester school just for girls, located on the coast of Freeport, Maine. The program offers hands-on marine and environmental science and outdoor leadership adventures in the classroom, laboratory, and along the coast. In addition to the summer programs for students, they offer Mapping Place with ArcGIS for educators, June 30, 2015.

<http://www.coastalstudiesforgirls.org/summer-programs/>

Dynamic Earth - Online

The American Museum of Natural History, in partnership with Coursera, is offering three free Massive Open Online Courses (MOCC) for teachers. The Dynamic Earth: A Course for Educators runs May 4-30, 2015.

<https://www.coursera.org/course/amnhearth>

Environmental Science Programs

EnvironmentalScience.org offers lists of environmental science education programs, careers, and more. The Resources link offers information about internships and scholarships.

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

FESIRSE

The Institute for Earth Science Research and Education is seeking participants in its Facilitating Environmental Science Inquiry and Research for Students and Educators project (FESIRSE), funded by a three-year grant from the Toyota USA Foundation. The project promotes and supports student research in environmental and climate science.

<http://www.instesre.org/Toyota/ToyotaHome.htm>

Global Ocean Science Education Workshop – Rhode Island

The first Global Ocean Science Education Workshop will take place June 26-27, 2015 in Narragansett, Rhode Island. Panelists and plenary speakers from over 15 nations will address international and national ocean science research and education priorities.

Workshop goals include identifying opportunities and setting a course for international collaborations and establishing a foundation for an international ocean science education network. Note: this meeting takes place the week before the NMEA annual conference, to be held in nearby Newport, Rhode Island, June 29-July 2, 2015.

<http://www.coexploration.org/gose/>

GLOBE Train the Trainer – South Dakota

A free train-the-trainer workshop, April 20–24, 2015 in Rapid City, South Dakota, will be held for those wishing to become trainers in Global Learning and Observations to Benefit the Environment (GLOBE), an international science and education project sponsored by NASA, NOAA, NSF, and the US State Department.

<http://www.sd-discovery.org/for-teachers/professional-development/#GLOBE>

Gulf of Mexico Restoration and Recovery Webinar - Online

The free webinar, Climate Change, Community Resilience, and Restoration in the Gulf of Mexico, April 10, 2015, will discuss the intersection of climate change, community resilience, and Gulf restoration, focusing on the challenges of and opportunities for creating restoration projects that both incorporate climate change considerations and are responsive to the needs of coastal communities.

<http://eli-ocean.org/gulf/climatechangewebinar/>

Huntington Beach School Trips - California

Follow and Learn about the Ocean and Wetlands, FLOW, is an educational program located in Huntington Beach, California. School groups can schedule a tour where students can shadow and assist with monitoring activities and learn about methods, techniques, and equipment used to collect and analyze plankton. Teachers receive lesson plans, activities, and more. Free bus transportation for Title I schools may be available. There will be a free training session April 17, 2015.

<http://www.amigosdebolsachica.org/flow.html>

Indigenous Knowledge and Use of Ocean Currents - Online

In this webinar, April 9, 2015, Julie Raymond-Yakoubian will present a recently completed project on indigenous knowledge and use of ocean currents. She will share perspectives on the importance of traditional understandings of ocean currents as a

critical aspect of the body of knowledge held by communities in the region, how this knowledge was collected, and the modern-day practical applications of this knowledge for marine policy, planning, and safety considerations. The report will be archived on the MPA Center website, and the webinar will be archived on Open Channels.

<https://attendee.gotowebinar.com/register/3014373064856709889>

International Congress on Coastal and Marine Tourism

The theme of the International Congress on Coastal and Marine Tourism, November 10-13, 2015 in Kailua-Kona, Hawai'i is Learning from the Past, Looking to the Future. Ten Student Travel Awards will help support undergraduate and graduate student participation and are open to any student whose abstract is approved through the conference's on-line submission system. The deadline for submission is June 15, 2015.

<http://socialsciences.hawaii.edu/conference/cmt2015/>

<http://socialsciences.hawaii.edu/conference/cmt2015/flyer/cmt-2015-students.pdf>

Marinating MST – New York

This field-trip based workshop, July 6-10, 2015 in Garden City, New York, is part of Adelphi's SEA program, a National Science Foundation/NOYCE Scholarship for undergraduate students in their STEP (Scholar Teacher Education Program) program that uses Long Island's natural environment for teaching.

<http://lousiegel.net/Adelphi/MarinatingMST2015flyer.pdf>

National Working Waterfronts and Waterways Symposium - Florida

Themes at the National Working Waterfronts and Waterways Symposium, November 16-19, 2015 in Tampa, Florida include Maritime Culture and Heritage, Climate Change, and more. The deadline for abstract submission is April 15, 2015.

<http://conference.ifas.ufl.edu/nwwws/themes.html>

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

- 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 Slywinskyj at tslywinskyj@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
- 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 eaudrey@ucsd.edu

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

Reclaiming Broken Places; an Introduction to Civic Ecology - Online

This free MOCC, April 10–May 22, 2015 will explore the people, places, and practices that link restoring nature with revitalizing neighborhoods. Civic ecology practices such as community gardening, restoring streams, and removing invasive species to restore

native habitat, can be a means for communities to rebuild and express resilience in places impacted by war, natural disaster, poverty, crime, and environmental degradation.

<https://www.edx.org/course/reclaiming-broken-places-introduction-cornellx-envsci1500x>

Sea Star Wasting Disease in Washington Waters - Washington

Join the Seattle Aquarium for a free teacher workshop for educators of grades 3-7 that will explore the natural history of sea stars, current research on Sea Star Wasting Disease, and opportunities to engage students in citizen science in the field. Register for either of two dates or locations.

<http://www.seattleaquarium.org/teacher-resources>

Seminars on Science - Online

Registration is open for summer sessions of 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. See the website for complete details and registration deadlines.

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

Social Media for Environmental Communication - Online

Check out the Duke Environmental Leadership Program's Social Media for Environmental Communication, April 6-May 15, 2015. Scholarship funding for the course may be available for teachers and educators who reach a K-12 audience through the Coca-Cola Advancement in Teaching in the Environment Scholarship (CATES). Check the website for complete details, including additional courses in environmental communication and behavioral change.

<https://nicholas.duke.edu/del/social-media-environmental-communications>

<http://nicholas.duke.edu/del/cates-program>

Summer Workshops - Maine

Herring Gut Learning Center offers two summer courses in Port Clyde, Maine: Introduction to Aquaponics and Marine Investigations. Partial tuition scholarships for the Aquaponics may be available. The deadline for application is May 31, 2015.

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

Teacher Professional Development Institutes - California

The Monterey Bay Aquarium will host three free teacher professional development institutes for teams of full-time classroom teachers this summer. Coastal Systems Teacher Institute for grades 3-5, August 2-8, 2015 is open to teachers nationwide. The secondary institutes, Project-Based Science Teacher Institutes for grades 6-8, July 20-24, 2015 and Connecting with Marine Science Institute for grades 9-12, July 6-10, 2015, are open for teachers from California. Hurry – the deadline for registration has been extended to April 6, 2015, but space is limited.

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

TOTE, WOW, and WET Workshop – Rhode Island

The Narragansett Bay National Estuarine Research Reserve will offer a combined Teachers on the Estuary, Wonders of Wetlands, and Project WET workshop, July 10-12, 2015 on Prudence Island, Rhode Island. Most expenses other than transportation are covered. Hurry – space is limited.

<http://www.nbnerr.org/tote.htm>

Youth Ocean Conservation Summit - Maryland

The 2015 Satellite Youth Ocean Conservation Summit Baltimore is scheduled for April 19, 2015 in Baltimore, Maryland. Workshops allow participants to gain the skills necessary to implement conservation projects, teach participants about career opportunities in marine conservation, and expose them to opportunities they can take part in to help protect our planet's oceans and their inhabitants. Hurry - the deadline for application is April 6, 2015.

<http://www.aqua.org/learn/student-programs/youth-ocean-conservation-summit>

EDUCATIONAL RESOURCES

CHAMP

The Coral Health and Monitoring Program (CHAMP) is part of NOAA's Atlantic Oceanographic and Meteorological Laboratory. The CHAMP website offers educational materials about coral spawning, bleaching, and more. In addition to many research projects, the program hosts the Coral-List listserv, which provides a forum for Internet discussions and announcements pertaining to coral reef ecosystem research, conservation, and education. Be sure to browse through the other web pages, including an interesting quotations page.

<http://www.coral.noaa.gov/>

Coastal and Marine Geology Video and Photograph Portal

The U.S. Geological Survey portal offers video and photography of the seafloor off of coastal California and Massachusetts, and aerial imagery of the coastline along segments of the Gulf of Mexico and mid-Atlantic coasts. Check out the tutorial for ease of exploration.

<http://cmgvideo.usgsportals.net/>

Environmental Service Projects

Youth Service America offers this downloadable resource with 55 different environmental service learning projects, along with links to related resources and websites. It is available in English, Spanish, and Portuguese. You can also browse online by issue area, project leader type, and type of practice.

http://www.ysa.org/55_environmental_service_projects_featured

Finding Fish Hotspots and Mapping Coral Reefs

From March 28-April 7, NOAA scientists will be on a research expedition in the U.S. Virgin Islands aboard the NOAA Ship *Nancy Foster*. The science team will use multibeam sonar, scientific echosounder, underwater gliders, a remotely operated vehicle, and other high-tech tools to locate previously-unknown seafloor habitats; to map out coral reefs in fine detail; and to find hotspots where many species of fish gather to spawn in rhythm with the lunar cycle.

<http://oceanservice.noaa.gov/caribbean-mapping/>

Infographics

NOAA's National Ocean Service offer this website with downloadable Infographics on a variety of ocean topics, including coral bleaching, marine debris, coastal resilience, and more.

<http://oceanservice.noaa.gov/infographics/>

Mapping the Uncharted Diversity of Arctic Marine Microbes Project

NOAA's Office of Ocean Exploration and Research has launched the Mapping the Uncharted Diversity of Arctic Marine Microbes Project web page on its Ocean Explorer website. The website includes background essays, images and video, an Ocean Explorer Expedition Education Module, lessons, and more.

<http://oceanexplorer.noaa.gov/explorations/15arctic-microbes/welcome.html>

NASA Women of STEM

The NASA Women of STEM website is dedicated to celebrating women who have made contributions to NASA in the related fields of science, technology, engineering, and math. Profiles are included for astronauts, interns, scientists, and more. Be sure to check out the other, linked educational resources for students and teachers.

<http://www.nasa.gov/education/womenstem/>

National Centers for Coastal Ocean Science's Educational Materials

NOAA's National Centers for Coastal Ocean Science's educational materials website has been updated and includes topics for teachers and kids, along with a game section. Materials include Fish Gut Chromatography/Chemistry curricula and more. Kids activity books cover different regions and organisms. The Games section offers materials for NOAA Jeopardy with different marine categories.

<http://coastalscience.noaa.gov/about/education/>

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

NOAA's Office of Ocean Exploration and Research invites educators to participate in a webinar, April 2, 2015, to introduce educational resources developed for an ocean exploration mission to explore seamounts and troughs around Puerto Rico and the Puerto Rico Trench. During the expedition, April 9-30, 2015, ship-based scientists will use telepresence technology to collaborate with scientists participating remotely from shore. The 60-minute webinar will provide an introduction to the expedition and the associated education products, including standards-based lessons and other resources to enable you and your students to delve more deeply into the expedition online.

<https://attendee.gotowebinar.com/register/4049581954835657473>

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

Reason for the Seasons

National Geographic Education offers this activity for grades 2-5, exploring how the sun determines the Earth's seasons.

http://education.nationalgeographic.com/education/activity/the-reason-for-the-seasons/?ar_a=1

Revolution

The producers of the film Sharkwater has finished a second film, Revolution, designed to bring ocean acidification to the masses. It was filmed over 4 years in 15 countries. It is being offered to NGOs, conservation groups, or concerned citizens in a partnership program. The website has a downloadable educator's guide, video gallery, and more. Contact Rob Stewart at rob@sharkwater.com if interested in a partnership program.

<http://therevolutionmovie.com/>

Schoolyard Lesson Plans

The Schoolyard Ecology for Elementary School Teachers project has created a number of protocols and lessons, most of them inquiry-based, for outdoor study. They are posted online, along with additional materials for educators from the Cary Institute of Ecosystem Studies.

<http://www.caryinstitute.org/educators/teaching-materials/syefest/lesson-plans>

Science Teacher Education Vacations, Adventures & Workshops

Stephanie at Earth Dancer School posts a Facebook page with teacher workshops, institutes, webinars and more.

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

Tracking Monarch Butterflies on Offshore Oil Platforms

Scientists are developing an app to track butterfly migrations through the Gulf of Mexico and along the Gulf coast. Check out the beta version and follow along for further development.

<https://hornraiser.utexas.edu/project/54e7881614bdf7205ddd5a51>

Water Resources

The U.S. Climate Resilience Toolkit's Water Resources topic section explores climate-related risks and opportunities related to municipal water supplies, flooding, drought, and water-related ecosystems.

<http://toolkit.climate.gov/topics/water-resources-0>

Youth Creating Disaster Recovery & Resilience

Youth experience disaster differently than adults and this website has collected examples of their experiences. Using art, video, and story telling, young people affected by disasters such as the Calgary Flood, the Joplin Tornado, and the Slave Lake Wildfire identify what they need for recovery, challenges they have faced, and ways in which they can contribute to recovery from disasters.

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

INITIATIVES, JOURNALS, and MORE

Climate Education Week

The Earth Day Network supports the Climate Education Week, April 18-25, 2015. Join the educators network for curriculum, service learning projects, and more.

<http://www.earthday.org/climateeducationweek>

Earth Day

Earth Day Network, the global organizer behind Earth Day, has created tools, resources and opportunities for teachers and students to get involved. The theme for 2015 is It's Our Turn To Lead. Celebrate on and around April 22, 2015 and plan a service project. Check out the resources, including toolkits, local campaigns, and more.

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

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/>

Global Youth Service Day

Global Youth Service Day is April 17-19, 2015. Spread the word about your service day event, join in one of the many GYSD Partner Days of Service, and see what others in your area are planning.

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

National Park Week

National Park Week is April 18-26, 2015. All parks will offer free admission April 18-19, 2015. Find a park near you, check out special celebrations, and more.

<http://www.nationalparks.org/national-park-week>