

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
INFORMATION EXCHANGE FOR MARINE EDUCATORS

MID OCTOBER 2010

This update is funded by the National Marine Sanctuary Foundation in partnership with NOAA's Ocean Exploration and Research Program, with additional support from NOAA's Office of Education and 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, edinfo at FREE, 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 to this distribution list, send a blank message to requests@willamette.nos.noaa.gov with "subscribe infoexchange" in the subject field. Similarly, to remove yourself from the list, send the subject "unsubscribe infoexchange".

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

Notable References

Adapting to Climate Change

Written in response to requests from state coastal managers for NOAA guidance on adaptation planning, *Adapting to Climate Change: A Planning Guide for State Coastal Managers* was created specifically for state-level programs. The guide includes science-based information on climate change and other hazards, and outlines steps for setting up a planning process, assessing vulnerability, devising a strategy, and implementing the plan. The goal of the guide is to help coastal states and communities get organized to take action in the face of a changing climate, have the tools to take action, and take action to plan for and adapt to the impacts of climate change.

http://oceanservice.noaa.gov/news/weeklynews/sept10/adapt_guide.html

First Census of Marine Life 2010

The 64-page report, *First Census of Marine Life 2010: Highlights of a Decade of Discovery* describes some of the scientific highlights of ten years of exploration, research, and analysis undertaken by Census of Marine Life scientists. The report is available to download in thirteen languages. The website also offers a myriad of additional resources and links.

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

The Economics of Ecosystems and Biodiversity Reports

The Economics of Ecosystems and Biodiversity (TEEB) is compiling economics case studies for the conservation of ecosystems and biodiversity, evaluating the costs of the loss of biodiversity and the associated decline in ecosystem services worldwide, and comparing them with the costs of effective conservation and sustainable use. The intent is to sharpen awareness of the value of biodiversity and ecosystem services and facilitate the development of effective policy, as well as engaged business and citizen responses. Reports include TEEB for Local and Regional Policy Makers, for Business, Climate Issues, and more.

<http://www.teebweb.org/InformationMaterial/TEEBReports/tabid/1278/Default.aspx>

WEBSITE OF THE MONTH

Never Lost: Polynesian Navigation

The Exploratorium Museum in San Francisco offers this online resource exploring Polynesian navigation. The materials on the site are divided into Origins, Canoe, Navigation, and Voyage. Visitors can interact with a canoe model by clicking on its various parts; learn about knot tying techniques; and review the necessary provisions for such a journey. *Navigation* features a primer on the basics of wayfinding and a slideshow that offers some insights into the voyage on the open ocean. *Voyage* offers stories and first-hand narratives about the experience.

<http://www.exploratorium.edu/neverlost/>

MESSAGE FROM THE BRIDGE

Ghostbusting in the Chesapeake

Through a special program at the Virginia Institute of Marine Science's Center for Coastal Resources Management, scientists are working with watermen to collect derelict, or "ghost," crab pots and fishing nets that have been lost or abandoned at sea. When fishing gear is not actively worked, it continually catches animals which typically cannot escape, therefore trapping them until they die. This bycatch of sorts can include crabs, fish, diving birds, and turtles. The watermen involved in this project were unable to work the water because of new winter crab-dredging regulations. They were provided training and tools to locate, retrieve, and document the collected fishing gear, and paid for their time and fuel. In the latest Data Analysis Teaching Activity (DATA) from the Bridge, students explore catch data collected by the watermen from the ghost pots. Bridge-authored DATAs utilize real online scientific data from research projects all over the country. They present data in an organized, controlled format, which allows for easier analysis and comprehension, and are aligned with the National Science Education Standards.

<http://www.marine-ed.org/bridge/ghostpots.html>

REQUESTS

Call for Papers - Diversity

There will be a special issue of the journal *Diversity* dedicated to coral reefs early next year, entitled *Coral Reef Diversity: Climate Change and Coral Reef Degradation*. The deadline for manuscript submissions is 30 April 2011. Note that this special issue will be fully Open Access and the Open Access publication fee will be waived for papers submitted in 2010.

http://www.mdpi.com/journal/diversity/special_issues/coral_diversity/

Call for Papers – Green Teacher

Green Teacher magazine will be dedicating its Spring 2011 issue to marine education. The call for contributions is an opportunity to promote ocean literacy and lesson plans with an audience that might not know our work due to their more terrestrial focus. Please note that the deadline can be extended to October 30, 2010. Additional resources are also needed; contact Krista for more details.

Contact Krista Zala at kzala@uvic.ca

Science Bowl Questions

Oak Ridge Associated Universities is looking for people strong in math and/or science to write and/or review questions for the 2010-2011 National Science Bowl®. An honorarium may be available.

Contact tracey.beckendorf@orau.org

GRANTS AND OPPORTUNITIES

American Trails Website Contest

American Trails offers this annual contest to seek out the best websites about trails and greenways. They are looking for websites that make trails come alive while providing effective information delivery, supporting volunteers, and engaging the public. See the website for the many different categories for entry, including education and trails training. The deadline for nominations is December 15, 2010.

<http://www.americantrails.org/webcon.html>

AmeriCorps State and National Grants

The Corporation for National and Community Service is looking for organizations across America to submit applications proposing how to use AmeriCorps members to address pressing social problems. Focus issues include improving education, energy conservation, and more. Organizations that have never received funding from the corporation or AmeriCorps are encouraged to apply for these grants. The deadline for application is January 25, 2011.

http://www.americorps.gov/for_organizations/funding/nofa_detail.asp?tbl_nofa_id=83

Bob the Bunny Competition

This companion competition to the Volvo Adventure Award is aimed at young adventurers, aged 10-12. Participants form a team, identify a local environmental issue, and create an A4 cartoon strip illustrating the issue and actions that can be taken to solve it. The deadline for submission is February 28th 2011.

<http://www.volvoadventure.org/home.aspx>

California Whale Tail Grants

The California Coastal Commission's Whale Tail Grants Program is accepting proposals for coastal and marine education projects. The program funds projects that fall into any one of the following categories: Adopt-A-Beach programs; youth programs; or programs for the general public. Emphasis is on reaching underserved students or members of the public. The deadline for application is November 1, 2010.

<http://www.coastal.ca.gov/publiced/plate/plgrant.html>

Challenge to Innovate

The NEA Foundation, in partnership with the US Department of Education, offers *C2i, Challenge to Innovate*, a call to action to all public school educators to identify and solve education's most pressing classroom problems. C2i will be housed on the Department of Education's Open Innovation Portal. The best ideas will receive cash awards from the NEA Foundation and may be selected for further development. Check the website for details and registration deadlines.

<http://www.neafoundation.org/pages/educators/grant-programs/c2i-the-nea-foundations-challenge-to-innovate/>

Disney Planet Challenge

The Disney Planet Challenge Project-Learning Environmental Competition is an opportunity for teachers and students to join a project-based learning competition inspiring environmental stewardship. Students in grades 3-8 identify an environmental issue in their local community and offer a solution that they manage and document from start to finish. The deadline for registration is December 17, 2010.

<http://disney.go.com/planetchallenge/>

Disney Planet Challenge Gulf Coast Clean-up Projects

DonorsChoose.org and Disney's Planet Challenge are teaming up to fund classroom projects aimed at helping to clean up or learn from the Gulf Coast oil spill. Full-time teachers of grades 3-8 at public schools in Alabama, Florida, Georgia, Louisiana, Mississippi and Texas are eligible to apply. The focus is on hands-on projects focused on cleaning up the Gulf oil spill. The deadline for submission is November 1, 2010.

<http://www.donorschoose.org/blog/2010/08/20/disney-supports-gulf-coast-clean-up-projects/>

Distinguished Educator Recognition Program

The American Meteorological Society offers an annual Distinguished Educator Recognition Program. The program honors educators with a passion for education in the areas of the Weather, the Ocean, the Climate, the Water Cycle, Space Weather, or the Earth as a System in three categories: K-12 Teacher, Outstanding Service to Pre-college Education, and Outstanding non-formal education. The deadline for nomination is October 31, 2010.

<http://www.ametsoc.org/boardpages/bope/distinguishededucatorrecognition.html>

Echoing Green Fellowships

The two-year Echoing Green Fellowship program will provide start-up capital and technical assistance to help new leaders launch their organizations and build capacity. The deadline for submission is November 12, 2010.

<http://www.echoinggreen.org/fellowship/application-overview>

Einstein Fellowship

The Albert Einstein Distinguished Educator Fellowship is a paid fellowship for K-12 math, science, and technology teachers. Einstein Fellows spend a school year in Washington, D.C. serving in a federal agency or on Capitol Hill. The deadline for application is January 4, 2011.

<http://www.trianglecoalition.org/fellows/einapp.htm>

ExploraVision Contest

The Toshiba/NSTA ExploraVision Awards challenge students to use their imaginations and the tools of science to propose scientifically feasible technologies that could exist 20 years into the future. The program encourages K-12 students of all interest, skill, and ability levels to create and explore a vision of future technology by combining their imaginations with the tools of science. The deadline for submission is February 2, 2011.

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

Fulbright-Hays Programs

The Fulbright-Hays *Doctoral Dissertation Research Abroad Fellowship Program* provides opportunities to doctoral candidates to engage in full-time dissertation research abroad in modern foreign languages and area studies. Priorities include research projects that are proposed by applicants using advanced language proficiency in environmental science and education. The deadline for application is November 2, 2010.

The Fulbright-Hays *Group Projects Abroad Program* supports overseas projects in training, research, and curriculum development in modern foreign languages and area studies for groups of teachers, students, and faculty engaged in a common endeavor. Projects are short-term and include seminars, curriculum development, or group research or study. The deadline for application is October 26, 2010.

<http://www2.ed.gov/legislation/FedRegister/announcements/2010-3/091710a.html>

<http://www2.ed.gov/legislation/FedRegister/announcements/2010-3/092410a.html>

Graduate Research Fellowship

The National Estuarine Research Reserve System's Graduate Research Fellowship provides master's degree students and Ph.D. candidates with an opportunity to conduct research of local and national significance that focuses on enhancing coastal zone management. Fellows conduct their research within a National Estuarine Research Reserve and gain hands-on experience by participating in their host reserve's research and monitoring programs. The deadline for application is November 1, 2010.

<http://www.nerrs.noaa.gov/Fellowship.aspx>

International Jellyfish Art Contest

The Global Jellyfish Group invites students and children age 12 and under to submit their best artwork of jellyfish to the first Jellyfish ROCK Student Art Contest. The art should display any aspect of jellyfish, including jellyfish blooms, their biology, their effects on the environment or society, and their role in food webs. The deadline for entry is November 1, 2010.

<http://jellywatch.org/blooms/contest>

John Wesley Powell Prize

The John Wesley Powell Prize alternates annually in recognizing excellence in the fields of historic preservation and historical displays. In 2011, the prize will be awarded to

either an individual or to principal collaborators for a single major historical display project completed in 2009 or 2010. The award for historical display is given for any form of interpretive historical presentation including, but not limited to, museum exhibits, historical films, CDs, websites, or multi-media displays.

Contact Virginia Parks at virginia_parks@fws.gov

Living on the Ocean Planet Video Competition

The National Ocean Sciences Bowl, in partnership with NMEA and the Ocean Today Kiosk, is sponsoring the 2011 Living on the Ocean Planet video contest. High school students can submit a 2-minute video on this year's contest theme, *Human Responses to Ocean Events*, which includes both natural and unnatural activities within marine and freshwater environments. The deadline for submission is January 28, 2011.

<http://www.nosb.org/competitions-2/nosb-video-contest/>

Making Citizen Observations a Global Vision

Earthzine, a publication of the Institute of Electrical and Electronic Engineers, announces its second global essay and blogging competition for college and university students.

This year's theme is *Making Citizen Observations a Global Vision*, which seeks to explore the benefits and challenges of the collaborative role citizen observers play in the collection and validation of Earth observations. Winning essays will explore and debate concepts related to the contest's theme, and should be related to one or more of Earthzine's focal topics: agriculture, biodiversity, climate, disasters, ecosystems, energy, health, water, or weather. The deadline for submission is October 22, 2010. Click on the logo on the right of the page.

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

Migratory Bird Grants

The U.S. Fish and Wildlife Neotropical Migratory Bird Conservation Act Grants Program supports projects that promote the conservation of neotropical migratory birds and their habitats in the United States, Canada, Latin America, or the Caribbean. The deadline for proposals is November 1, 2010.

<http://www.fws.gov/birdhabitat/Grants/NMBCA/index.shtm>

NOAA Preserve America Initiative Internal Funding Program

The NOAA Preserve America Initiative Internal Funding Program is designed to stimulate efforts within NOAA to preserve, protect, and promote the agency's heritage assets. Funds will be awarded only to NOAA offices; however, other federal, state, academic, and non-profit organizations can participate as partners, applying in conjunction with a NOAA employee. The deadline for one-page pre-proposals is November 5, 2010.

<http://preserveamerica.noaa.gov/>

Oceans 2030: Youth Outlook

Oceans 2030: Youth Outlook is a multimedia contest for youth to share their vision for our oceans over the next 20 years. The contest is organized as part of the National Council for Science and the Environment's Our Changing Oceans Conference. The deadline for entry is November 22, 2010.

<http://www.ncseonline.org/conference/Oceans/cms.cfm?id=4031>

Office Depot Foundation Grants

The Office Depot Foundation's funding focus includes: Making a Difference in Children's Lives, Building Communities, and Disaster Relief. The upcoming deadline for application is November 15, 2010.

<http://www.officedepotfoundation.com/funding.asp>

PepsiCo Foundation Grants

The PepsiCo Foundation seeks to foster healthy, vibrant, and self-sufficient communities worldwide through global partnerships that improve the quality of life across communities in areas of great need. Grants offer support to nonprofits in the areas of health; environment, including water security, sustainable agriculture, and adaptive approaches to climate change; and education, including access to education and training for the underserved and women's empowerment. Letters of interest may be submitted year round.

<http://www.pepsico.com/Purpose/PepsiCo-Foundation/Grants.html>

Prudential Spirit of Community Awards

The Prudential Spirit of Community Awards honor young people in middle and high school grades for outstanding volunteer service to their communities. The deadline for application is November 1, 2010.

<http://spirit.prudential.com/view/page>

QuikScience Challenge

QuikScience challenges teachers in California and Hawaii to form a team, submit a project, and be eligible for an opportunity to go to Catalina Island. In addition, check out mentor assistance, a *Surfing Science @ USC* rally, and a workshop for high school students. The deadline for the challenge is October 30, 2010.

<http://www.usc.edu/org/cosee-west/quikscience/>

Recovered Oil Fund for Wildlife

The purpose of the Recovered Oil Fund for Wildlife is to support projects that help bolster populations of fish and wildlife species impacted by the Deepwater Horizon oil spill. Implementation of direct conservation actions to bolster populations will be preferred. The deadline for application is November 1, 2010.

http://www.nfwf.org/AM/Template.cfm?Section=Charter_Programs_List&TEMPLATE=/CM/ContentDisplay.cfm&CONTENTID=17427

Rubber Band Contest for Young Inventors

The Akron Global Polymer Academy of The University of Akron is hosting the third annual Rubber Band Contest for Young Inventors to encourage students in grades 5–8 to demonstrate their creativity and ingenuity by creating an invention that incorporates the use of rubber bands. There will be two separate divisions of competition: Arts & Leisure and Science & Engineering. Prizes will be awarded to both students and schools. The deadline for submission is February 16, 2011. Check out the lesson plans and educational videos on the website.

<http://rubberbandcontest.org/>

Siemens We Can Change the World Challenge

NSTA, the Siemens Foundation, and Discovery Education are partnering to educate, empower, and engage students and teachers nationwide to become agents of change in improving their communities through the Siemens We Can Change the World Challenge.

This national sustainability challenge encourages K-8 students to team up with their classmates to create replicable solutions to environmental issues in their classroom (grades K–2), school (grades 3–5), community (grades 6–8), and world (grades 9-12). The deadline for entry is March 15, 2011.

<http://wecanchange.com/>

Solve for Tomorrow Contest

Samsung and its partners are asking teachers to participate in its Solve for Tomorrow contest to foster an increase in the pursuit of Science, Technology, Engineering, and Math (STEM) education and illustrate the practical impact that applying these subjects can have, by creating a video addressing the question, “How can Science and Math help improve the environment in your community?”. The deadline for application is October 24th, 2010.

<https://pages.samsung.com/us/sft/home.htm>

Starbucks Shared Planet Youth Action Grants

The Starbucks Foundation requests Letters of Inquiry for the Spring 2011 grant cycle from organizations that: provide training to young people to develop necessary skills and knowledge to incubate ideas, identify and assess community needs, create a plan of action, execute a plan, and evaluate outcomes against goals; build ongoing leadership capacity and long term engagement of young people; and communicate young peoples' success stories through various media. The deadline for submission is January 31, 2010.

<http://www.starbucksfoundation.com/index.cfm?objectid=998EF1C4-1D09-317F-BBF7F71F7B681A12>

Teacher at Sea 2011 Field Season

NOAA’s Teacher at Sea program is now accepting applications for the 2011 field season. The program accepts applications from currently employed, full-time educators in these categories: K-12 teachers and administrators; community college, college, and university teachers; museum and aquaria educators; and adult education teachers. Thirty spots may be available. The deadline for application is November 30, 2010.

<http://teacheratsea.noaa.gov/>

Thacher Environmental Research Contest

The Institute for Global Environmental Strategies offers the Thacher Environmental Research Contest for grades 9-12 for students whose projects demonstrate the best use of satellites and other geospatial technologies or data to study Earth. The deadline for entry is April 11, 2011.

<http://www.strategies.org/education/index.aspx?sub=education&sub2=scholars&sub3=scholars2011>

Very Best in Youth Program

The Nestlé USA Very Best in Youth Program honors young people ages of 13-18 who have excelled in school and are making their community and the world a better place. The deadline for entry is November 1, 2010.

<http://verybestinyouth.nestleusa.com/About/Default.aspx>

Volvo Adventure Awards

In collaboration with the United Nations Environmental Programme, the Volvo Adventure Award rewards environmental activities among the decision makers of the future.

Environmental projects are undertaken by teams of young people, ages 13-16, to improve their local environment. The deadline for entry is January 31, 2011.

<http://www.volvoadventure.org/home.aspx>

World of 7 Billion Contest

Population Connection is hosting a nationwide video contest for high school students, challenging them to create a video public service announcement that illustrates the impact of the world's population reaching seven billion, as it relates to environmental and global issues. Teachers will receive free classroom resources. The deadline entry is March 1, 2011.

http://www.worldof7billion.org/index.php/student_video_contest

INTERNSHIPS AND TEMPORARY OPPORTUNITIES

Cayman Island Internships

Applications are invited for three Internships for 2011 at the Central Caribbean Marine Institute based at the Little Cayman Research Centre. The deadline for application is October 30, 2010.

http://www.reefresearch.org/ccmi_website/jobs.htm

Coastal Studies for Girls

Coastal Studies for Girls is actively seeking students for their upcoming Spring semester. The program is a residential marine science and leadership semester school just for 10th grade 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. The deadline for priority admission is March 15, 2011.

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

National Geographic Student Summit

With expedition leaders and experts at the helm, National Geographic offers this opportunity to set out on daily field assignments, teaching students to be active explorers by using inquiry and reporting tools to dig deeper into national treasures and current events in our nation's capital. Activities and curriculum are tailored to middle and high school.

<http://ngstudentsummit.com/teachers/index.html>

CONFERENCES, WORKSHOPS, AND PROFESSIONAL DEVELOPMENT

Building New England Connections – New England

Building New England Connections will bring together teams of teachers using the watersheds and coastal environments of New England as a context for learning. Project Oceanology and Connecticut Sea Grant are providing this opportunity with funding from NOAA's B-WET Program. The program includes a 2-day professional development workshop, November 5-6, 2010; classroom resources; participation in a 2-day overnight research project of coastal and watershed environments, including an oceanographic research cruise, laboratory, and field studies; and more. One team from each New England state will participate.

<http://www.oceanology.org/BNECPDflier.pdf>

Climate Change - Cause and Effect - Georgia

The Georgia Aquarium, in partnership with COSEE–Southeast, presents *Ocean Awareness Day: Climate Change - Cause and Effect*, November 6, 2010 in Atlanta, Georgia., an educator workshop for middle and high school teachers. This event is free but pre-registration is required. The deadline for registration is October 25th, 2010 <http://www.georgiaaquarium.org/education/teachers/professional-development.aspx>

Climate Change Education Roundtable – Washington, DC

The purpose of the Climate Change Education Roundtable is to foster ongoing discussion of the challenges to and strategies for improving public understanding of climate science and climate change among federal agencies, the business community, non-profit, and academic sectors and provide a critical mechanism for developing a coherent, national strategy to advance climate change education guided by the best available research evidence. An upcoming meeting will be held October 21-22, 2010 in Washington, D.C. Free registration is required. http://www7.nationalacademies.org/bose/Climate_Change_Education_Homepage.html

EISTA 2011 - Call for Papers

The initial deadline for submission of draft papers for the 9th International Conference on Education and Information Systems, Technologies and Applications: EISTA 2011, July 19-22, 2011 in Orlando, Florida, is October 20, 2010. <http://www.iiis2011.org/imsci/website/CallForPapers.asp?vc=5>

Evolution in the Marine Environment - Online

COSEE-West and the College of Exploration will host a free online webinar for formal and non-formal educators, *Tracking a Sea Change: Evolution in the Marine Environment*, November 1-19, 2010. Presentations will include Evolutionary Biology: A story of thinkers, adventurers, and the history of life on earth, Evolution and Fisheries Management: Gone fishing or fishing gone? and Sperm Behavior: a key to the past and future of Californian abalone. The keynote speaker will host a live event on November 6 and offer an interactive question and answer period. Credit is available for participants. http://www.coexploration.org/cosee_west/

Exploring the Gulf of Mexico's Deep-Sea Ecosystems - Online

NOAA's Office of Ocean Exploration and Research in partnership with the College of Exploration announces *Lessons from the Deep: Exploring the Gulf of Mexico's Deep-Sea Ecosystems*, an online professional development workshop for educators of all grade levels, October 11-29, 2010. All materials will be archived following the event. Be sure to check out the education materials collection, a selection of lessons about deep-sea ecosystems in the Gulf of Mexico based on ten ocean exploration expeditions. Some of the explored sites are within a few miles of the Deepwater Horizon well. Additional background information will be introduced about the unique geology of the region and behavior of oil in seawater. Credit is available for participants. <http://www.coexploration.org/oe/>

Farallones Workshop Series - California

The Farallones Marine Sanctuary Association is offering a series of free lectures, workshops, and field excursions. Workshop presentations, activities, and content are geared for middle and high school biology and environmental science teachers; however, all teachers and educators are welcome.

- Cephalopooza - A Squid Spectacular, October 30, 2010

- LiMPETS Introduction to Rocky Intertidal Monitoring, January 29, 2011
- LiMPETS Introduction to Sandy Beach Monitoring, March 26, 2011
- Advanced LiMPETS: Data Analysis Activities for the Classroom, April 16, 2011

Check the website for location and registration.

http://www.farallones.org/education/teacher_workshops.php

Get the Grant! - Mississippi and Alabama

Gulf of Mexico Coastal Training is a collaboration between the five Gulf Coast National Estuarine Research Reserve Coastal Training Programs. They are offering a series of Get the Grant! Workshops in Mississippi and Alabama. Check the website for details.

<http://www.gulfalliancetraining.org/workshops.aspx>

How Do We Explore? - Online

NOAA's Office of Ocean Exploration and Research, in partnership with The College of Exploration, offers free online professional development, providing educators with in-depth studies into specific ocean science content through the context of ocean exploration. The online campus setting provides a venue for educators worldwide to meet, view keynote addresses given by ocean explorers, and ask questions of keynote speakers online. Hands-on and inquiry-based activities, along with many other resources, are provided in a facilitated environment.

How Do We Explore? Okeanos Explorer Online Teacher Professional Development is scheduled for January 24-February 11, 2011. This three-week online workshop will introduce participants to the new Education Materials Collection for the NOAA Ship *Okeanos Explorer*, the first Federal ship dedicated to ocean exploration. Topics will include searching for anomalies, selecting sites for exploration, communication tools including telepresence technology, mapping techniques, water column study, and operating remotely operated vehicles. The free workshop will be available 24/7, and archives will remain posted after the workshop.

<http://coexploration.org/oe/>

http://oceanexplorer.noaa.gov/edu/development/online_development.html

ICETI 2011 – Call for Papers

The submission deadline for the 2nd International Conference on Education, Training, and Informatics, ICETI 2011, March 27-30, 2011 in Orlando, Florida, has been extended to October 22, 2010. The conference will be collocated with the 17th International Conference on Information Systems Analysis and Synthesis and the 9th International Conference on Computing, Communications and Control Technologies.

<http://www.iiis2011.org/icsit/website/default.asp?vc=31>

International Congress for Conservation Biology – New Zealand

The call for proposals for symposia, workshops, and short courses is now open for the 25th International Congress for Conservation Biology, November 28-December 2, 2011, in Christchurch, New Zealand, with a theme of *Engaging Society in Conservation Biodiversity*. The deadline for proposals is December 10, 2010.

<http://www.conbio.org/Activities/Meetings/2011/register/proposals.cfm>

Lifelines for High School Climate Change Education

Lifelines for High School Climate Change Education is a project to establish professional learning communities of high school teachers aimed at implementing effective teaching of climate change in existing courses. The network participants will identify the best

resources to use and share best practices. If you are interested in joining, check out the information on the website.

<http://www.lawrencehallofscience.org/gss/lifelines/>

Marine Mammals in Coastal Georgia - Georgia

Join experts in the marine mammal field who will speak on the North Atlantic Right Whale, Atlantic Bottlenose Dolphin, and Florida Manatee, November 12, 2010 in Brunswick, Georgia. Topics will include life history, adaptations, management and threats, and an activity session. K-12 curriculum and resources will be provided for all participants. The deadline for registration is October 25, 2010.

Contact Georgia Graves at georgiabeachwalk@bellsouth.net

Ocean Awareness Day - Georgia

Georgia Aquarium, in partnership with COSEE–Southeast, presents *Ocean Awareness Day: Climate Change - Cause and Effect*, November 6, 2010 in Atlanta, Georgia, an educator workshop for middle and high school teachers to reinforce their background knowledge about ocean sciences and to explore ocean scenarios associated with global climate change. This event is free but pre-registration is required; the deadline for registration is October 25, 2010.

<http://www.georgiaaquarium.org/education/teachers/professional-development.aspx>

Professional Development Opportunities - Washington

The education department at Woodland Park Zoo is offering professional development opportunities for educators, including pre-service teachers. Workshop topics include creating backyard/schoolyard habitat, climate change impacts on wildlife of land and sea (with the Seattle Aquarium and Cool School Challenge), and more.

<http://www.zoo.org/education/teacher-development>

ROLE Model Webinars - Online

COSEE-Ocean Systems offers a Fall series of Research-Based Online Learning Event (ROLE) Model webinars featuring ocean scientists and educators from across the country. Join scientists as they present marine science content through concept-map presentations of their research and hear from educators who've used concept mapping in their work in innovative ways. The hour-long webinars are free and offer direct access to scientists as well as customizable, take-home resources.

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

Shorebirds Conservation Teacher Workshop - Georgia

The Georgia Shorebirds Conservation Teacher Workshop, December 2-5, 2010 on Sapelo Island, Georgia is open to formal and informal educators of all grade levels. All participants will receive curricula and resource materials. Topics will include: life history, anatomy, morphology, management, rehab, and research.

<http://eeingeorgia.org/net/calendar/details.aspx?s=54703.0.68.4863&mode=p&c=3526135&p=6286>

Learning Ocean Science through Ocean Exploration - Various

NOAA's Ocean Exploration Program and partners will offer Learning Ocean Science through Ocean Exploration professional development workshops for science teachers. Participants will receive the curriculum with CD-ROM's, certificates of participation, and more. Contact the noted educator for registration and more information.

- November 6, 2010 with New England Aquarium in Boston, Massachusetts, an introductory workshop, with a follow-up workshop in May, 2011. The deadline for registration is October 22, 2010. Contact Jaysree Oberoi at joberoi@neaq.org
- November 6, 2010 with Birch Aquarium at Scripps in San Diego, California, an introductory workshop, with a follow-up workshop March 12, 2011. The deadline for registration is October 22, 2010. Contact Adrienne Marriott at Creec9a@hotmail.com.
- November 13, 2010 with Hatfield Marine Science Center in Oregon, an introductory workshop. The deadline for registration is October 22, 2010. Contact Tracy Crews at tracy.crews@oregonstate.edu.
- November 13, 2010 with John G. Shedd Aquarium in Chicago, Illinois, an introductory workshop, with a follow-up workshop April 9, 2011. The deadline for registration is October 29, 2010. Contact Jackie Formoso at jformoso@shedd Aquarium.org.

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

Wetland Courses for Educators - Various

Environmental Concern, Inc. offers a variety of courses designed for formal and non-formal educators who are interested in learning more about wetlands, and who would like to bring the excitement of wetland education into their classroom. Upcoming *WOW! The Wonders of Wetlands* course offerings include *Georgia and Ohio*. Check out their upcoming schedule, along with hands-on education materials, programs, and more.

<http://www.wetland.org/educationhome.htm>

EDUCATIONAL RESOURCES

Aquarius 2010: If Reefs Could Talk

From October 12-21, 2010 you can find out what it would be like to live underwater, by tuning in to daily broadcasts live from Aquarius, the undersea research lab located off the coast of Key Largo in the Florida Keys National Marine Sanctuary. The scientific researchers that live in the Aquarius underwater habitat, along with scientists operating from the surface, are sharing their experiences while performing their latest mission, *Aquarius 2010: If Reefs Could Talk*. Check out the lesson plans, meet the team, and more. The information will be archived if your schedule doesn't permit watching the live broadcasts. Of note are the changes in schedule due to Hurricane Paula.

<http://isc.gso.uri.edu/oceanslive>

Bird Migration

AMSER (Applied Math and Science Education Repository) offers this website with links to various aspects of bird migration.

<http://amser.org/amser/topicindepthbirdmigration>

California and the World Ocean Conference Theme Resources

This NOAA website offers links to online supplemental resources on major conference themes, including coastal and marine spatial planning, climate change, ocean literacy, sustainable economies and ecosystems, and freshwater.

<http://oceanservice.noaa.gov/cwo2010/>

Center for Microbial Oceanography: Research and Education

The NSF-sponsored Science and Technology Center is designed to facilitate a more comprehensive understanding of the diverse assemblages of microorganisms in the sea. The website offers background information about microbial oceanography, microscopic slideshows, and education and outreach materials.

<http://cmore.soest.hawaii.edu/index.htm>

Coral Reefs and Climate Change

Coral Watch offers *Coral Reefs and Climate Change*, which comes with an activity CD with complementary resources and activities.

<http://www.coralwatch.org/web/quest/home1>

CoVis-Weather World 2010

The Weather World 2010 Project is a framework for integrating current and archived weather data with multimedia instructional resources. These resources were developed through participation in NSF's Collaborative Visualization (CoVis) project which supports project-based learning of the sciences for grade levels 9-12. The website includes open ended projects and classroom activities along with teaching guides on weather-related topics. The website also contains modules on meteorology, remote sensing, and reading weather maps, along with archived weather case studies.

<http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/crcim/home.xml>

Cradle of the Earthquake

NOAA's Office of Ocean Exploration and Research offers archives of the *Cradle of the Earthquake: Exploring the Underwater San Andreas Fault 2010 Expedition*, which took place September 16-October 2, 2010. The website offers daily logs, videos and images, lesson plans, and more.

<http://oceanexplorer.noaa.gov/explorations/10sanandreas/welcome.html>

Culturally Relevant Resources for Environmental Science Instructors

This resource guide offers websites, print publications, organizations, videotapes, and more that provide culturally-contextual learning on environmental science for indigenous students. Note that the information is from a publication issued in 2000.

<http://tribalcollegejournal.org/themag/backissues/winter2000/winter2000resource.html>

Dauphin Island Sea Lab Resource

The Dauphin Island Sea Lab educators offer many resources for students and teachers from the K-12 and Teacher Education website. Many presentations offered at past conferences are available for downloading online, along with activities, teacher manuals, and more. Check out *Mr. Sand* and the accompanying teacher manual, and the Seagrasses Slideshow.

<http://dhp.disl.org/resources.html>

Dichotomous Key Resources

The author of the Agnes Pflumm books offers several resources that can be useful for teaching classification and the use of dichotomous keys. Be sure to check out additional teacher and student resources on the website.

http://www.agnespflumm.com/pond_scum_discover_classified.htm

Discovering Ancient Climates in Oceans and Ice

This TED talk by Rob Dunbar is short, suitable for high school students, and covers sea level rise, ancient coral reefs, and acid oceans in non-technical language.

http://www.ted.com/talks/rob_dunbar.html

Earth Alerts

Earth Alerts is a Windows-based application that allows users to monitor in near real-time a variety of natural hazard events that are occurring anywhere around the world. Earth Alerts uses a variety of online resources provided by organizations such as the National Weather Service, U.S. Geological Survey, and Smithsonian Institution. Alert notifications, reports, and imagery are available.

<http://earthalerts.manyjourneys.com/>

Expedition 329: South Pacific Gyre Microbiology

From October 9-December 13 2010, an international team of scientists sailed on the scientific drilling vessel *JOIDES Resolution* for an expedition to the South Pacific to define the physical and chemical limits of seafloor microbial life in tectonic and oceanographic settings not yet explored. Explore the expedition through archived weekly blogs, podcasts, and more. Check out Adopt a Microbe, the games, and more.

<http://joidesresolution.org/node/1412>

Exploring Energy Resources for Educators and Students

The goal of Earth Science Week, conducted annually by the American Geological Institute in partnership with other sponsors, is to encourage students, educators and the public to explore the natural world and learn about geosciences. This year's theme is *Exploring Energy*, and NASA offers a variety of multimedia products and educational activities designed to improve understanding of energy resources and the role of energy in Earth's climate system.

<http://climate.nasa.gov/esw2010/>

Exploring the Ocean Surface with Data from the Global Drifter Program

This guide from the Science Education Resource Center at Carleton College provides educators with information on the classroom use of buoy data from the Global Drifter Program. This data is produced by an array of over 1000 drifting buoys, monitored by satellite, that make measurements of sea surface temperature (SST) and surface velocity. The data are used to track ocean currents and measure properties such as sea surface temperature, salinity, wind speed, and atmospheric pressure. Topics include meteorology, ocean surface currents, and hurricanes.

<http://serc.carleton.edu/usingdata/datasheets/GlobalDrifterProgram.html>

Fire Ecology and Management

This six-module series from the Northwest Center for Sustainable Resources addresses both the general role of fire in ecosystems as well as specific wildfire management issues in forest ecosystems. Each module can be downloaded or ordered in hardcopy.

<http://www.ncsr.org/materials/NCSRFireEcologySeries.htm>

Gislands 2010 Downloads

Gislands 2010 was an International Summer School on Geotechnologies applied to Marine Spatial Planning, funded by the Science, Technology and Equipment Secretary of the Azores Regional Government, and organized by the Geographical Information &

Territorial Planning Centre at University of the Azores. The website offers pdf downloads of the lecture slides.

http://www.gislands.org/index.php?option=com_content&view=article&id=20&Itemid=20

Glaciers

This interactive feature from WGBH offers an introduction to glaciers, including where and why they form, what influences their growth and decline, and more. A background essay and discussion questions are included, along with links to related topics.

<http://www.teachersdomain.org/resource/ess05.sci.ess.earthsys.glaciers/>

Great Migrations

National Geographic Channel's Great Migrations is a seven-part global programming event that takes viewers on the journeys millions of animals undertake to ensure the survival of their species. The program reveals new scientific discoveries and offers breathtaking visuals. The National Geographic Channel also supported the development of education resources downloadable from this website to help bring content about animal migration and behavior into the classroom. The series will start November, 2010, but videos are already available on the website for previewing.

<http://www.nationalgeographic.com/great-migrations-educator-resources/>

Guide to the Decapod Crustaceans of the South Pacific

CRISP, Coral Reef InitiativeS for the Pacific, has released a field guide which is downloadable online, *A guide to the decapod crustaceans of the South Pacific*. The guide includes photos, informative text, and a section of general information on crustaceans at the beginning of the book. The book covers reef, shore, mangrove, stream, and terrestrial species.

<http://www.crisponline.net/CRISPProductNew/Biodiversityknowledgeandconservationplanning/tabid/317/Default.aspx>

How to Smile

Howtosmile.org, from the University of California, Berkeley's Lawrence Hall of Science, is an online collection of hands-on interactive science and math activities dedicated to making learning exciting and engaging. The website is funded by the National Science Foundation as part of the National Science Digital Library (NSDL), and brings together a consortium of science museums across the country to empower educators working with school-aged children in science, mathematics, engineering, and technology.

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

Lophelia II 2010: Cold Seeps and Deep Reefs

NOAA's Office of Ocean Exploration and Research announces the launch of the *Lophelia II 2010: Cold Seeps and Deep Reefs*, October 14-November 4, 2010. The expedition posting (which will be active later tonight) will include daily logs, videos and images, an education module, lesson plans, an "Ask an Explorer" feature, and more.

<http://oceanexplorer.noaa.gov/explorations/10lophelia/welcome.html>

Made in Countdown 2010

Countdown 2010 is a network of active partners working together towards the 2010 Biodiversity Target. The Made in Countdown 2010 publication is a collection of success stories by Countdown 2010 partners which have helped to make a difference for biodiversity. Examples of successful actions include adoption of protection measures,

implementation of action plans, raising awareness, and reduction of biodiversity impacts. The report is downloadable from the website.

<http://www.countdown2010.net/year-biodiversity/what-can-you-do/made-in-countdown-2010>

Map Scales

This quick lesson shows students how to use various types of scales to measure distances on a map. Topics include the statement of equivalency, bar scales, the representative fraction, and how to measure distances along a curve.

http://academic.brooklyn.cuny.edu/geology/leveson/core/linksa/scale_use.html

Marine Biology Topic Overviews

Odyssey Expeditions offers marine science educational resources from the Marine Biology Learning Center. Topics include oceanography, mangroves, fish, and more. The resources offer an overview of the topic with literature citations.

<http://www.marinebiology.org/science.htm>

Marine Debris Materials

NOAA's Marine Debris Program offers a 2011 Marine Debris Planner (calendar) featuring the winning artwork from the 2010 *Keep the Sea Free of Debris!* art contest, along with an educational poster on the garbage patches. Check these and other free items on the website.

<http://marinedebris.noaa.gov/outreach/resources.html>

National Geographic Oil Spill Resources

In conjunction with three television programs on the oil spill, National Geographic, with funding from Oracle, has developed a series of educator materials.

<http://www.nationalgeographic.com/educator-resources/oil-spills/>

National Park Foundation Electronic Field Trips

These electronic field trips give students the opportunity to learn about a particular topic through national parks they may never get a chance to visit. Each program consists of two components: a televised broadcast from a national park featuring National Park Service Rangers and youth hosts, and a website featuring downloadable lesson plans for teachers and interactive games for students. An upcoming field trip is scheduled in February, 2011 to the Gulf Islands National Seashore. Past resources are archived and include *Eruption! An Island Rising from the Sea at Hawaii Volcanoes National Park*, *Searching for Life in Great Smoky Mountains National Park*, and more.

<http://www.nationalparks.org/npf-at-work/our-programs/electronic-field-trip/>

New York Sea Grant Education

New York Sea Grant offers a variety of downloadable educational resources covering estuaries, fishing, and more. Be sure to browse the rest of the website for publications and news.

<http://www.seagrantsunysb.edu/article.asp?ArticleID=51>

Nicholas Institute Website

Duke University's Nicholas Institute has launched a new website with advanced navigation and search functions that allow visitors to find the information they need, faster. Main menu portals on the new site are organized by subject and include climate and energy, water, oceans and coasts, ecosystem services, environmental economics,

geography, and more. An expert's guide, organized by topic, helps identify which Institute staff members have the specific expertise users seek. More than 150 of the Institute's reports, policy briefs, and papers are searchable by topic and author.
<http://nicholasinstitute.duke.edu>

NOAA Research for K-12

This website from NOAA's Office of Oceanic and Atmospheric Research is a joint effort with the College of Education at the University of South Alabama. The website offers middle school science students and teachers research and investigation experiences using on-line resources. Topics include Storms, Fisheries, Atmosphere, and more.
<http://www.oar.noaa.gov/k12/index.html>

Nonpoint Source Outreach Toolbox

The Nonpoint Source Outreach Toolbox from the EPA is intended for use by organizations interested in educating the public on nonpoint source pollution or stormwater runoff. The toolbox contains resources to help develop an effective and targeted outreach campaign.
http://www.epa.gov/owow_keep/NPS/toolbox/

Ocean Science Summaries

The Pew Charitable Trusts' Ocean Science Division supports projects related to marine conservation, including scientific research, technical analyses, and syntheses of scientific information that help to explain critical emerging issues, inform policy, and advance solutions to conservation problems. They offer several publications about fisheries and economics, including *Overfishing Trends and the Global Food Crisis*, *Marine Fisheries and the World Economy*, *Subsidizing Global Fisheries*, *Global Benefits and Impacts of Marine Recreational Activities*, and others.
http://www.pewtrusts.org/our_work_detail.aspx?id=148

Oil Spill Resources

The National Environmental Education Foundation EE Week project has compiled a summarized list of resources and curricula on the BP oil spill that are tied to educational standards from the EPA, NOAA, Smithsonian, and National Geographic.
http://eeweek.org/oil_spill.htm

Publications on MMAs

The Science-to-Action partnership offers recommendations for successful implementation of marine managed areas (MMAs) to maximize the benefits to people and nature. Three new booklets draw on the results of more than 50 studies: *People and Oceans*, *Living with the Sea*, and *Marine Managed Areas: What, Why, and Where*.
<http://www.science2action.org/>

Rediscovering Cordell Bank

For the first time since the designation of the Cordell Bank National Marine Sanctuary in 1989, from October 6-11, 2010, technical scientific SCUBA divers will revisit the shallowest parts of Cordell Bank's reef crest from the research vessel *Fulmar*. Check out the mission blogs and more.
<http://sanctuaries.noaa.gov/missions/2010reefcrest/welcome.html>

Reef Relief Founders Educational Materials

The Reef Relief Founders.com website offers numerous educational resources, images, multimedia, and more. Check out the downloadable *Coral Reef Teachers Guide* and many other resources.

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

Research-Based Online Learning Event Model Webinars

COSEE-Ocean Systems offers a series of Research-Based Online Learning Event (ROLE) Model webinars featuring ocean scientists and educators from across the country. Join these experts as they present marine science content through concept-map presentations of their research. The free, hour-long webinars provide direct access to scientists as well as customizable, take-home resources. Check out the link to previous webinars while on the website.

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

Respected Access

Tread Lightly! has developed the first products from a multi-dimensional education and outreach campaign built around a central slogan, *Respected Access is Open Access*. The message is simple – responsible behavior leads to continued access. While the campaign's initial focus is recreational shooters on public lands, the purpose of the campaign is to maintain and enhance access to public lands by improving recreationists' behavior in order to reduce litter, property and natural resource damage; unsafe and irresponsible practices; and visitor conflicts. Check out the public service announcements, resources, and more.

<http://www.respectedaccess.org/open-access/>

Seasonality Module

Earth-Sun relationships play an important role in governing seasonality and climate patterns on Earth. This lab exercise from NASA and posted in the Encyclopedia of Earth is designed to explore seasonality and climate, including climate change, from the perspective of satellite map interpretation.

http://www.eoearth.org/article/NCSE-NASA_Curriculum_Module_-_Seasonality

Teaching Physical Sciences by Ocean Inquiry

Teaching Physical Sciences by Ocean Inquiry, a COSEE-OS supported course at the University of Maine, focuses on educational approaches to help engage students in learning and offers a collection of hands-on/minds-on activities for teaching physical concepts that are fundamental in oceanography. This supplement to *Oceanography* magazine covers density, pressure, buoyancy, heat and temperature, and gravity waves. The website offers the document in several languages, along with links to additional activities and videos of videos showing how to run 15 of the lab exercises.

http://tos.org/hands-on/teaching_phys.html

USGS Global Visualization Viewer

GloVis is an interactive viewer providing access to satellite imagery for virtually any point on the Earth. Users can select a satellite and sensor and either type in latitude and longitude or click on a point on the index map. The viewer will show a mosaic of the most recent cloud-free satellite browse images around the point selected, along with metadata. Users can also navigate to adjacent images, create and modify scene lists, and more. A user's guide is included.

<http://glovis.usgs.gov/>

Using Fish Population Data

This guide in the NSDL, *Exploring Marine Conservation in the Classroom: Using Fish Population Data*, introduces teachers to the use of data on fish species diversity and relative abundance in the classroom. The data, from the Reef Environmental Educational Foundation (REEF), are collected by divers at sites in the Pacific and Atlantic Oceans and are used to address issues relating to fish population dynamics. Topics include relationships between habitats and populations; geographical variations in diversity and abundance; the use of population data in managing and planning aquaculture; and marine sanctuaries and conservation. Students will learn to interpret the data to understand diversity and abundance; understand the interpretation and use of parameters derived from population data such as density and sighting frequency; and use the data to make and test predictions about relationships between habitats and species.

<http://serc.carleton.edu/usingdata/datasheets/REEF.html>

World of Water Films

The New England Aquarium has numerous free copies of World of Water films, good for folks outside of the United States who use VHS PAL format for viewing. Films include Keepers of the Reef, Surviving Sharks, and In Hot Water.

http://www.neaq.org/education_and_activities/teacher_resources/classroom_resources/educational_films/world_of_water_films.php

Contact Heather Tausig at htausig@neaq.org

INITIATIVES, JOURNALS, and MISCELLANEOUS

72&Rising Magazine

This magazine covers topics from wildlife and conservation to photography and adventure with a conservational/research approach to oceans and waterways. The magazine can be read online, though it may take a few minutes to get used to the technology needed to read it.

http://issuu.com/72andrising/docs/72andrising_vol1_290710_2

FOCUS Education Campaign

FOCUS - Forests, Ocean, Climate, and Us - is a nationwide environmental education campaign improving children's understanding of the intimate connection between the health and sustainability of our water resources and the health of our planet. The partners will host a FOCUS Event, October 23, 2010, in Galveston, Texas. Students are invited to help the artist Wyland paint a mural.

http://web.me.com/dclipson1/Focus/Focus_Home.html

Jellyfish ROCK

This outreach event, to be held November 20, 2010 in Santa Barbara, California, is free and open to the public. Join the Global Jellyfish Group for a night of short talks, video presentations, art, and discussions. Podcasts will be made available to download from the website in November, 2010.

<http://www.jellywatch.org/blooms/jellyfishrock/>

Marine Debris Calendars

NOAA's Marine Debris Program has 2011 Marine Debris Calendars that they would like to be utilized and disseminated throughout the nation. They can provide up to 30 calendars per site on a first come, first served basis while supplies last. Please provide the following: quantity requested, full name, organization, mailing address, and how the calendar will be disseminated or used.

Contact Carey Morishige at Carey.Morishige@noaa.gov

MPA News in Spanish

MPA News issues dating back to January 2008 are now available in Spanish.

<http://depts.washington.edu/mpanews/issues.html>

Ocean Guardian Classrooms for All

NOAA's Office of National Marine Sanctuaries is offering classrooms throughout the United States the opportunity to be involved environmental conservation as Ocean Guardian Classrooms.

http://sanctuaries.noaa.gov/education/og_classroom/welcome.html

USA Science and Engineering Festival

The inaugural USA Science and Engineering Festival, October 10-24, 2010 in Washington, D.C., is the country's first national science festival, a grassroots collaboration of over 500 of the nation's leading science organizations. A number of events are scheduled to take place in Washington and around the nation, culminating with a free, two-day Expo on the National Mall.

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

Wings of Slumber

The Banana Slug String Band offered a free download of a wonderful collection of lullabies from their digital album, *Wings of Slumber*. Check this out when your day is just not going right.

<http://bananaslugs.bandcamp.com/album/wings-of-slumber>