



## Energy and Environmental Affairs

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### CZ-Mail

#### December 2016

Welcome to CZ-Mail, the monthly electronic newsletter from the Massachusetts Office of Coastal Zone Management (CZM). Each issue provides information on major CZM initiatives, available tools and publications, upcoming workshops and events, grants, contracting opportunities, job openings, coastal legislation, and other news of interest to people working on coastal issues. Additional information about CZM's programs, publications, and other coastal topics can be found on the [CZM website](#). To subscribe to CZ-Mail, send a blank email to [join-env-cz-mail@listserv.state.ma.us](mailto:join-env-cz-mail@listserv.state.ma.us). Also, please feel free to share CZ-Mail with colleagues and friends—and if you have any suggestions for future editions, or would like make a change to your CZ-Mail subscription, please email your request to [CZ-Mail@state.ma.us](mailto:CZ-Mail@state.ma.us). For daily updates from CZM, please [follow us on Twitter](#).

All links on this web page were current and working on the date of publication.

#### New Seafloor Mapping Initiative Report Published

CZM and the U.S. Geological Survey (USGS) published the new seafloor mapping report, [High-resolution geophysical data from the Inner Continental Shelf: South of Martha's Vineyard and north of Nantucket, Massachusetts](#), which presents geophysical data collected by USGS during a survey in 2013. The report includes bathymetric data (water depth), acoustic backscatter that provides an image of the seafloor, and seismic-reflection profiles that reveal the nature of the sediment layers below the seafloor. The reports were prepared as part of the 13-year, cooperative mapping program between CZM and USGS, which began in 2003 and has mapped more than 2,403 square kilometers (928 square miles) of the Commonwealth's coastal waters. For more information, see CZM's [Seafloor Mapping Program website](#) and the recently updated USGS [Geologic Mapping of the Seafloor Offshore of Massachusetts website](#), or contact CZM's Dan Sampson at [daniel.sampson@state.ma.us](mailto:daniel.sampson@state.ma.us).

#### Thank You COASTSWEEP Volunteers!

CZM offers our heartfelt thanks to the thousands of volunteers who turned out for the 2016 [COASTSWEEP](#), the annual statewide coastal cleanup sponsored by CZM. Cleanups were held from September to mid-November and results are still flowing in. Here's the data compiled so far: 1,892 volunteers cleaned 85 locations, covered over 135 miles of coastline, and removed 11,675 pounds of trash. The final tally, which will continue to grow as the rest of the cleanups are tabulated, will be reported in the January CZ-Mail.

#### CZ-Tip: Turn Your Trash into Treasure

The [CZ-Tip - Repurposing with a Purpose](#) offers ideas for reusing items that would otherwise be thrown away or recycled. This repurposing approach not only helps address the solid waste issue, it keeps the coast cleaner by reducing items that can become litter and ultimately [marine debris](#). So, if you are looking for some indoor projects for the holidays, or just want some anytime inspiration for turning trash into treasure, gather your egg cartons, yogurt containers, tin cans, wine corks, plastic bags, cardboard boxes, etc... and get crafty!

#### Grants/Funding/Proposal Opportunities

**Offshore Wind Port and Infrastructure Assessment** - The Massachusetts Clean Energy Center is seeking proposals to prepare a Ports and Infrastructure Assessment to assess available, underdeveloped waterfront sites within Massachusetts that could support offshore wind activities. Up to \$250,000 is available for this assessment. For details, see the Request for Proposals. For questions, contact Christen Anton at [canton@MassCEC.com](mailto:canton@MassCEC.com). Proposals are due by December 23.

**Five Star Restoration Grants** - The Five Star Restoration Program is seeking applications for financial assistance to support community-based wetland, riparian, and coastal habitat restoration projects that integrate meaningful education and produce measurable results. Approximately \$2.5 million in total funding will be available. For details, see the [Five Star Restoration Program website](#). Applications are due by January 31, 2017.

**Reminders** - These opportunities, listed in the last CZ-Mail, are still available:

- Marine Debris Research Funding** - The National Oceanic and Atmospheric Administration's (NOAA) Marine Debris Program is seeking proposals to fund research directly related to marine debris through field, laboratory, and modeling experiments. Specifically, NOAA is looking to support research that explores the ecological risk associated with marine debris, determines debris exposure levels, and examines the fate and transport of marine debris in nearshore, coastal environments. For more information, see [Grants.gov](#). Applications are due by December 19.



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- **2016 Massachusetts Trails Grants** - The Massachusetts Department of Conservation and Recreation (DCR) is currently seeking applications for the [Recreational Trails Program](#), which provides grants from \$2,000 to \$50,000 for a variety of trail protection, construction, and stewardship projects throughout Massachusetts. DCR is also accepting applications for [Recreational Trails Program - Education Grants](#), which provide funding for statewide trail education initiatives. For more information on these grant programs, contact Amanda Lewis at [amanda.lewis@state.ma.us](mailto:amanda.lewis@state.ma.us). Applications are due by February 1, 2017.

## Products/Publications

**Coastal Adaptation Strategies Handbook** - The National Parks Service has released the [Coastal Adaptation Strategies Handbook](#), which highlights the processes, tools, and examples that parks have available for response and recovery from tropical storms and hurricanes and offers strategies to address rising sea levels. The handbook also includes a chapter on lessons learned from Hurricane Sandy.

**Role of Coastal Habitats in Managing Natural Hazards** - The Lloyd's Tercentenary Research Foundation has released [Coastal Wetlands and Flood Damage Reduction: Using Risk Industry-based Models to Assess Natural Defenses in the Northeastern USA](#), the first report from the two-year research project, *The Role of Coastal Habitats in Managing Natural Hazards and Risk Reduction*. The report quantifies the economic benefits of coastal wetlands in reducing property damage from storms and flooding in the northeastern United States. For more information on this project, see the [Lloyd's website](#).

**Nonpoint Source Highlights Report** - The U.S. Environmental Protection Agency (EPA) has released [National Nonpoint Source Program—A Catalyst for Water Quality Improvements](#), a report that provides details on EPA's work to reduce water pollution from nonpoint sources through the \$319 Nonpoint Source Pollution Management Program.

**Stormwater Planning Guide** - EPA has released [Community Solutions for Stormwater Management: A Guide for Voluntary Long-Term Planning](#), a draft guide, toolkit, and technical assistance effort to assist states and local governments in developing and implementing effective long-term stormwater plans.

**Federal Resilience Opportunities Report** - The White House Council on Climate Preparedness and Resilience has released [Opportunities to Enhance the Nation's Resilience to Climate Change](#), a report that outlines opportunities for federal agencies to guide resilience actions by supporting science and research on climate change impacts, ensuring federal operations and facilities are resilient to climate change, protecting critical infrastructure and other public goods, and facilitating community-based resilience efforts. For additional information, see the [Fact Sheet](#) on this effort.

**Subdivision Design and Flood Hazard Areas Guide** - The American Planning Association has released [Subdivision Design and Flood Hazard Areas](#), a report that provides a guide to best floodplain planning practices for subdivision design. The report presents tools to end the build-damage-rebuild cycle, save lives, and protect property.

**NPDES Best Practices Guide** - EPA has released [Best Practices for NPDES Permit Writers and Pretreatment Coordinators to Address Toxic and Hazardous Chemical Discharges to POTWs](#), a guidance document that provides best practices for National Pollutant Discharge Elimination System (NPDES) permit writers, pretreatment coordinators, and industry professionals, with recommendations for how to better address toxic and hazardous chemical discharges from industry to publicly owned treatment works (POTWs).

**Natural Hazards Observer** - The October 2016 issue of the [Natural Hazards Observer](#), the bimonthly periodical of the Natural Hazards Center in Boulder, Colorado, includes articles on maritime security initiatives, resilient infrastructure, and other natural hazards news and information.

**Ebb & Flow** - The November 2016 issue of [Ebb & Flow](#), the Massachusetts Division of Ecological Restoration eNewsletter, features articles on streamflow and drought, a blue carbon calculator, and other updates, grant opportunities, events, and resource links.

**Marine Ecosystems and Management Information Service** - The November 2016 edition of [Marine Ecosystems and Management](#), the bimonthly information service on marine ecosystem-based management from the University of Washington School of Marine Affairs, includes articles better ocean management and profitability, promoting sustainable fisheries, and other notes and news.

**Beneath the Surface** - The November 2016 issue of [Beneath the Surface](#), a newsletter from the Woods Hole Oceanographic Institution (WHOI), features articles on whale safe fishing gear, climate change impacts on a key marine food source, and other news and updates from WHOI.

**Marine Protected Area Newsletter** - The November 2016 issue of [MPA News](#) features articles on the world's largest Marine Protected Area (MPA) in Antarctica, a network of MPAs in the Philippines, and other MPA news and notes.

## Web-Based and Mobile-User Resources

**Hazus 3.2** - The Federal Emergency Management Agency (FEMA) has released [Hazus 3.2](#), the latest update to Hazus, the nationally applicable, standardized methodology that contains models for estimating potential losses from earthquakes, floods, and hurricanes. The latest update includes better ArcGIS compatibility, updated earthquake functionality, improved reports, and more.

**Fisheries Bycatch Lesson Plan** - NOAA Fisheries has released a [Fisheries Bycatch Lesson Plan](#) for high school teachers. The lesson plan provides hands-on activities that allow students to examine the bycatch problem as it relates to the tuna fishery and includes data analysis, reflection, and other activities. For more NOAA Fisheries educational materials, see the [NOAA website](#).

## Public Comment

Please note: All official CZM requests for public comment are published in the Public Notices section of the [Environmental Monitor](#), the bi-weekly publication from the Massachusetts Environmental Policy Act (MEPA) office.

**South Boston Municipal Harbor Plan Renewal and Amendment** - CZM is seeking public comment on supplemental information for the City of Boston's South Boston Waterfront District Municipal Harbor Plan Renewal and Amendment. For more information, see the Public Notice published in the [November 23 issue](#) of the *Environmental Monitor*. Submit comments by December 9 to: Office of Coastal Zone Management, 251 Causeway Street, Suite 800, Boston, MA 02114, Attn: Lisa Berry Engler.

**Request for Clarification on the South Boston Municipal Harbor Plan** - CZM is seeking public comment on the City of Boston's request for clarification on the Water Dependent Use Zone substitution approved under the Secretary's [2009 Decision on the South Boston Waterfront Municipal Harbor Plan Amendment](#). For more information, see the Public Notice published in the [November 23 issue](#) of the *Environmental Monitor*. Submit comments by December 9 to: Office of Coastal Zone Management, 251 Causeway Street, Suite 800, Boston, MA 02114, Attn: Lisa Berry Engler.

**Request for Clarification on the Lynn Municipal Harbor Plan** - CZM is seeking public comment on the City of Lynn's request for clarification on the lot coverage and open space substitution approved under the Secretary's [2010 Decision on the Lynn Municipal Harbor Plan](#). For more information, see the Public Notice published in the [November 23 issue](#) of the *Environmental Monitor*. Submit comments by December 9 to: Office of Coastal Zone Management, 251 Causeway Street, Suite 800, Boston, MA 02114, Attn: Kathryn Glenn.

**Plan for Ocean Research in the Coming Decade** - The National Science Foundation's (NSF) Subcommittee on Ocean Science and Technology is seeking input on the overall framing and content of [A Plan for Ocean Research in the Coming Decade](#). This research plan will describe the most pressing research questions and most promising areas of opportunity within the ocean science and technology enterprise for the coming decade. It will set the stage for agency-specific and interagency coordinated actions across federal agencies and with non-federal sectors to address societal needs and issues of national importance. For details on providing input, see the [NSF website](#). Comments are due by January 1, 2017.

## Job Postings

**Buzzards Bay Coalition Development Assistant** - The Buzzards Bay Coalition is seeking candidates for [Development Assistant](#) to provide support with developing and maintaining positive relationships with individual, foundation, and corporate members and donors. The assistant also contributes to the success of multiple fundraising events. For more information, see the [Coalition's website](#).

**Marine Science Educators** - The Narragansett Bay National Estuarine Research Reserve is accepting applications for two seasonal positions as [Marine Science Educators](#) to work at the reserve on Prudence Island, Rhode Island for the spring/summer and summer/fall 2017. Applications are due by February 3, 2017.

## Calendar

**Saltmarsh Seminar** - On December 2, the Massachusetts Institute of Technology Sea Grant College Program will host [Characterizing the Spatial, Temporal, and Structural Dynamism of a New England Saltmarsh with Terrestrial and Airborne Lidar Program](#), a brown bag seminar by Crystal Schaaf and Ian Paynter from UMass Boston's School for the Environment. Schaaf and Paynter will discuss their research on the use of remote sensing technologies to study saltmarshes.

**Winter Ocean Bird Training** - On December 3, [Salem Sound Coastwatch](#) will hold a Winter Waterfowl Identification Workshop at Winter Island in Salem. Experienced birders will set up spotting scopes, help identify birds, and describe feeding practices, breeding, and habits. All are welcome and no birding experience is needed. Attendees should gather at the gazebo at the water's edge in the Winter Island parking lot. Participants should dress warmly and bring binoculars. To RSVP and get more information contact [info@salemsound.org](mailto:info@salemsound.org).

**2017 Annual Environmental Conference—Call for Presenters** - On March 8, 2017, the Massachusetts Environmental Education Society (MEES) will hold its 2017 [Annual Conference, Looking to the Past to Inform Our Future](#), in Worcester. The MEES Conference brings together environmental educators from all regions of Massachusetts and from a variety of industries including K-12 schools, nature centers, urban environmental programs, museums, and more. For proposal details, see the [Request for Proposals](#). Submit proposals by December 6 through the [proposal form](#). For questions, contact Carrie Hawthorne at [carrie.hawthorne@newbedford-ma.gov](mailto:carrie.hawthorne@newbedford-ma.gov).

**SMAST Seminar Series** - On December 7, the UMass Dartmouth School for Marine and Science & Technology (SMAST) will present the final sessions of the [SMAST Fall 2016 Seminar Series](#). Seminars are free and open to the public. The last session is *Understanding the Life History of Atlantic Bluefin Tuna in the Gulf of Maine* by Walt Golet from the University of Rhode Island.

**Northeast Climate Change Webinar** - On December 7, the Northeast Climate Science Center will present [The Times They Are a Changing: Shifting Phenology in Northeast Coastal Ecosystems](#) by Adrian Jordaan and Michelle Staudinger. This presentation will provide an overview of the current state of knowledge of climate-induced shifts in marine and coastal phenology, with a focus on U.S. Northeast Atlantic ecosystems.

**AWRA Spring Conference—Call for Abstracts** - From April 30-May 3, the American Water Resources Association (AWRA) will hold the 2017 [Spring Specialty Conference: Connecting the Dots: The Emerging Science of Aquatic System Connectivity](#) at Snowbird Resort in Utah. This conference will provide researchers, practitioners, and academicians a forum to discuss the latest refinements in connectivity concepts, gain familiarity with state-of-the-science connectivity research,

and obtain a broader understanding of the many ways in which connectivity contributes to landscape and aquatic system function. Oral and poster presentations are welcome on aquatic system connectivity that focus on the connections within, between, and among individual landscape and watershed components and aquatic system. Submissions are due by January 9, 2017.

**Coastal GeoTools 2017—Save the Date** - From February 6-9, 2017, [Coastal GeoTools 2017](#) will be held in North Charleston, South Carolina. This bi-annual conference focuses on the technical information needs of the nation's coastal programs.

**Smart Growth Conference** - From February 2-4, 2017, the 16<sup>th</sup> annual [New Partners for Smart Growth Conference, Practical Tools and Innovative Strategies for Creating Great Communities](#), will be held in St. Louis, Missouri. The three-day conference includes more than 75 breakouts, workshops, and trainings and will feature cutting-edge policies and programs, projects, and best practices, as well as strategies and implementation tools that address the challenges of implementing smart growth development principles.

**International LIDAR Mapping Forum** - From February 13-15, 2017, the 2017 [International LIDAR Mapping Forum](#) will be held in Denver, Colorado. This three-day technical conference will feature sessions on coastal zone mapping and lessons learned, modern hydrographic techniques, single photon LIDAR, and more.

**Erosion and Sediment Control Conference** - From February 21-24, 2017, the 2017 [Environmental Connection Conference](#) will be held in Atlanta, Georgia. Environmental Connection is the largest gathering of erosion and sediment control professionals from around the world. Over four days, Environmental Connection provides peer-reviewed education and products and technology that address four educational tracks: erosion and sediment control, stormwater management, surface water restoration, and MS4 management.

**Healthy Waters Conference—Save the Date** - On March 16, 2017, Watershed Action Alliance will hold a one-day conference, [Solutions for Healthy Waters](#), in Hanson. Conference sessions will include talks on invasive plants, effective science communication, and drought and flood resilience. Invited speaker, Dr. Pia Moisander of UMass Dartmouth, will talk about the challenge of cyanobacteria in local waterways and ways to prevent it from becoming a health and water quality issue.

**OneNOAA Science Seminars** - The [NOAA seminar series website](#) provides listings and details on NOAA science and climate seminars and webinars that are available across the nation.

**MACC Education** - MACC offers a variety of specialized education programs. Visit the MACC [workshops page](#) to see an overview of upcoming wetland delineation and soil science courses and shrub identification workshops, along with the soil erosion and sediment-control training program. The MACC online [education calendar](#) provides a schedule of programs.

**Cape Cod Bird Club Walks** - The [Cape Cod Bird Club](#) holds free bird watching walks throughout Cape Cod. The next scheduled walk will be held on December 8 at Wellfleet Town Pier.

**Birdwatching for Beginners** - The Cape Cod Museum of Natural History's [Birdwatching for Beginners](#) with Gretchen Moran Towers presents basic skills designed to enable bird identification through sight and sound. Each session is followed by an outdoor venture to view birds in their natural habitat. The next session is on December 8.

**Tuesday Tweets** - On several Tuesdays into December, the Cape Cod Museum of Natural History will hold [Tuesday Tweets](#), bird watching walks with Gretchen Moran Towers. Whether experienced or a beginner, bring binoculars, wear appropriate footwear, and come prepared to watch, study, and enjoy birds in their natural habitats. The next session is on December 13.

**Walks, Lectures, and Events on Cape Cod** - Mass Audubon's Wellfleet Bay Wildlife Sanctuary and Long Pasture Wildlife Sanctuary in Barnstable offer a variety of educational programs for children and adults. For more information, search the calendar of programs, classes, and activities for [Wellfleet Bay](#) and [Long Pasture](#).

**Ipswich River Wildlife Sanctuary Programs and Activities** - Mass Audubon's Ipswich River Wildlife Sanctuary provides numerous nature walks, talks, and adventures. See the [program catalog](#) for event and schedule information.

**Joppa Flats Wildlife Sanctuary Programs and Activities** - Mass Audubon's Joppa Flats Wildlife Sanctuary in Newburyport provides numerous birding walks, field trips, and adventures. See the [program catalog](#) for event and schedule information.

**Reminders** - The following calendar items posted previously in CZ-Mail are still to come:

- **Nonpoint Source Pollution Conference—Call for Abstracts** - From April 12-13, 2017, the New England Interstate Water Pollution Control Commission will hold the 28<sup>th</sup> annual [Nonpoint Source Pollution Conference, Lessons Learned: What Worked, and What Didn't?](#), in Northampton. This conference is the premier forum in the Northeast for sharing information and improving communication on nonpoint source pollution issues and projects. Abstracts are sought on stories of success, lessons learned, hurdles, and challenges. For details, see the [Call for Abstracts](#), which are due by December 2.
- **Cape Coastal Conference** - From December 6-7, the 4<sup>th</sup> annual [Cape Coastal Conference, Our Coastal Future: Taking Action for a Prosperous and Healthy Cape Cod](#), will be held at the Hyannis Resort and Conference Center. This two-day conference will feature plenary sessions and mini-workshops on a variety of coastal topics.

- **StormCon 2017—Call for Papers** - From August 27-31, 2017, [StormCon 2017](#), the North American Surface Water Quality Conference and Exposition, will be held in Bellevue, Washington. Conference organizers are seeking presentations in six program tracks: best management practice case studies, green infrastructure, stormwater program management, water-quality monitoring, and industrial stormwater management. See the [Call for Papers](#), which are due by December 7.
- **Youth Conservation Summit** - On December 10, the 2016 [Youth Conservation Summit](#) will be held at the Mote Marine Laboratory in Sarasota, Florida. This event will provide youth participants of all ages (upper elementary-college) the opportunity to learn from marine scientists and conservationists about the current threats facing marine ecosystems, both locally and globally.
- **Coastal Society Meeting and Coastal and Estuarine Restoration Summit** - From December 10-15, the 25<sup>th</sup> Biennial Meeting for the Coastal Society and the eighth National Summit on Coastal and Estuarine Restoration, *Our Coasts, Our Future, Our Choice*, will be held in New Orleans, Louisiana. The [2016 Summit](#) will bring together the coastal restoration and management communities for an integrated discussion that will explore issues, solutions, and lessons learned.
- **Rising Seas Summit** - From December 13-15, the 2016 [Rising Seas Summit](#) will be held in New Orleans, Louisiana. This fourth annual summit will bring professionals together to highlight the interrelationships between sea level rise, climate change, and extreme events. The 2016 summit will feature plenary sessions, breakout panel discussions, off-site tours, and more.
- **International Conference on Aquatic Invasive Species—Call for Abstracts** - From October 22-26, 2017, the 20<sup>th</sup> [International Conference on Aquatic Invasive Species](#) will be held in Fort Lauderdale, Florida. This comprehensive international forum will address new and emerging issues related to aquatic invasive species. Organizers are seeking abstracts for presentations and posters that address the broad range of aquatic invasive species issues affecting freshwater and marine environments. See the [Call for Abstracts](#), which are due by December 15.

### Other Items of Interest

**Dr. Nancy Foster Scholarship Program** - NOAA is seeking applications for the [Dr. Nancy Foster Scholarship Program](#), which recognizes outstanding scholarship and encourages independent graduate level research—particularly by female and minority students—in oceanography, marine biology, and maritime archaeology. Scholarship selections are based on academic excellence, letters of recommendations, research and career goals, as well as financial need. Up to \$42,000 per student is available per year for graduate students. Depending on funding, approximately three to four scholarships are awarded each year. Applications are due by December 9.

**2017 National Wetlands Awards** - The Environmental Law Institute is seeking nominations for the 28<sup>th</sup> annual [National Wetlands Awards](#), which honors individuals that have made considerable contributions to wetlands protection, restoration and education. Honors will be given in six categories: conservation and restoration; education and outreach; landowner stewardship; science research; state, tribal and local program development; and wetland community leader. Nominations are due by December 21.

**Switzer Fellowship Program** - The [Switzer Fellowship Program](#) offers one-year fellowships to highly talented graduate students in New England and California whose studies and career goals are directed toward environmental improvement and who clearly demonstrate leadership in their field. The Fellowship provides a \$15,000 cash award for academic study, leadership training, and opportunities for professional development. Applications are due by January 9.

**Coastal Studies for Girls** - [Coastal Studies for Girls](#) is accepting applications for the spring 2017 semester. Coastal Studies for Girls is a science and leadership semester school for 10th grade girls located in Freeport, Maine. Students are immersed in experiential courses that draw inspiration from the beauty and intrigue of the Maine coast and explore the natural world, conduct marine science research, and expand their leadership potential. Students earn a full semester of academic credit and financial aid is available for families that qualify. Applications will be reviewed on a rolling basis.

**AmeriCorps Cape Cod Individual Placements** - The Barnstable County AmeriCorps Cape Cod is seeking proposals for individual placements for projects from October 2017-July 2018. An individual placement is an opportunity for non-profit, school, or governmental organizations within Barnstable County to host an AmeriCorps Cape Cod member one or two days a week. Projects should encompass at least one of the focus areas: natural resource management (land and water), disaster preparedness and response, or environmental education. Volunteer engagement is also encouraged as a component of all projects. On January 31 and February 2, 2017, meetings will be held in Barnstable for interested organizations. For more information, contact Amy Henderson at [ahenderson@barnstablecounty.org](mailto:ahenderson@barnstablecounty.org).

Did you find the information you were looking for on this page? \*

- Yes  
 No

