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EPA Climate Change and Water News is a bi-weekly newsletter from the U.S. Environmental Protection Agency (EPA) Office of Water that covers climate change and water-related news from EPA, other U.S. Federal agencies, and partners. To learn more about climate change impacts on water resources, visit our website at: <http://www2.epa.gov/climate-change-water-sector>.

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EPA News

Erie County Town Receives Funding to Improve Water Quality in Lake Erie

EPA awarded a \$172,125 Great Lakes Restoration Initiative grant to the town of Evans, New York to fund green infrastructure projects to improve water quality entering Lake Erie. The town will use these funds to install rain gardens and bioswales, which are tracts of land designed to manage drainage, in Evans Town Park to reduce bacteria at the beach, and prevent approximately 221,000 gallons of untreated stormwater from reaching Lake Erie.

[View the Press Release.](#)
[Learn More.](#)

Federal News

NOAA Releases Updated Climate Explorer Tool

NOAA, along with partners, recently released the updated Climate Explorer. The tool offers downloadable maps, graphs, and data tables of historical and projected climate variables, down to the county level.

[Check Out the Updated Tool.](#)

White House Promotes EPA Innovation Challenges to Reduce Nutrients in Waterways

Nutrients, particularly nitrogen and phosphorus, are essential for plant growth and for the production of food and livestock feed. Too much nitrogen and phosphorus in our waterways, however, can cause algal blooms, eutrophication, and hypoxia in lakes, estuaries, and oceans—damaging ecosystems and threatening human health far from the original site of application or deposition. Open innovation to reduce nutrients in waterways is one way the Administration has taken action in this area by calling for challenges and prizes that seek potentially transformative ideas to tackle intractable problems.

[Read the Blog Post.](#)

[Learn More.](#)

NOAA Releases Updated Digital Coast Website

The Digital Coast was developed by NOAA to meet the unique needs of the coastal management community. The recently updated website provides coastal tools, training, and information needed to best utilize the data.

[Check Out the Updated Website.](#)

Agriculture and Natural Resources Science for Climate Variability and Change Challenge Area

The National Institute of Food and Agriculture at USDA requests applications for the Agriculture and Food Research Initiative to support research to facilitate the adaptation of agroecosystems and natural resource systems to climate variability and the implementation of mitigation strategies.

[Learn More and Apply.](#)

Climate Change Impacts on Streamflows in the Pacific Northwest

Scientists at the U.S. Forest Service Pacific Northwest Research have created streamflow sensitivity maps that indicate how major watersheds are expected to respond to climate change. The research discusses several ways in which climate change can impact streamflow including flow volumes and the role precipitation plays in maintaining adequate water levels.

[Read the Full Report.](#)

Other News

\$10 Million Grants Program to Build Healthy, Resilient Coastal Communities

The Gulf Research Program of the National Academies of Sciences, Engineering, and Medicine and the Robert Wood Johnson Foundation are committing \$10 million to enhancing coastal community resilience. This funding opportunity is a broad call for scientifically-sound research and practice projects that will develop information, test strategies, and provide evidence that can be used by communities to enhance their resilience to the adverse impacts of climate change.

[Learn More.](#)

2016 Report Outlines U.S. Military on the Front Lines of Rising Seas

Many military bases are at risk of permanently losing land to the ocean in the decades ahead. The Union of Concerned Scientists has performed a new analysis of 18 military installations along the East and Gulf coasts. Results conclude that these sites are at risk for: more frequent and extensive tidal flooding; land

loss as some installation areas are permanently inundated and others flood with daily high tides; and deeper and more extensive flooding due to storm surge.

[Read the Full Report.](#)

New Jersey Climate Adaptation Alliance Releases Report on Climate Change

The two volume report provides an overview of climate change implications for water supply and summary of management responses to address challenges in New Jersey. Impacts include a variety of hydrologic changes that will modify water availability and quality, temperature change effects on water quality and landscapes, and aquatic ecosystem changes. Strategies outlined in the report include; planning and physical mitigation projects, with responsibilities residing among a mix of decision-makers.

[Read the Full Report.](#)

New Online Tool for Exploring Sea Level Rise and Flood Risks

Climate Central's Program on Sea Level Rise launched a newly redesigned public sea level rise and coastal flood risk tool for the U.S. The Surging Seas Risk Finder has several new features, including a streamlined user interface, downloadable figures, and a localized fact sheet.

[View the Online Tool.](#)

[Learn More.](#)

Long-Term Pacific Climate Cycle Linked to Expansion of Antarctic Sea Ice

The trend of increasing Antarctic sea ice can be mostly explained by a natural long- term climate fluctuation. The study published in *Nature GeoScience* sought to explain why Antarctic sea ice is expanding, despite climate-related global warming. Results show that current negative phase of the Interdecadal Pacific Oscillation has created favorable conditions for Antarctic sea ice growth.

[View the Press Release.](#)

[Read the Full Report.](#)

Upcoming Events

[See a calendar of climate change and water-related training, conferences, and webinars.](#)

This newsletter is produced by the U.S. Environmental Protection Agency, Office of Water (EPA). For questions related to the newsletter, or to submit an item, email the editor at water_climate_change@epa.gov.

For past issues of EPA Climate Change and Water News, as well as further information on climate change impacts on water resources, visit: <http://www2.epa.gov/climate-change-water-sector>