

ENVIRONMENTAL INSIGHTS

NEWS FROM THE UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE



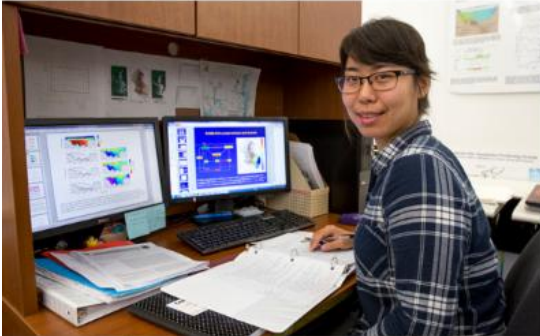
Warmer winters will likely lead to longer blue crab season in Chesapeake Bay

Scientists are predicting that warmer winters in the Chesapeake Bay will likely lead to longer and more productive seasons for Maryland's favorite summer crustacean, the blue crab. Researchers examined data on increasing temperatures in the Chesapeake Bay and predictions for continued warming. They found that winters will be up to 50% shorter by 2100, and overwinter survival of the blue crab will increase by at least 20% compared to current conditions.

"In 100 years, we would expect winter for crabs in Solomons to look more like winter currently looks in southern North Carolina," said study co-author Hillary

Glandon. "No winter for the crabs."

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Four UMCES graduate students named Knauss Fellows

Four University of Maryland Center for Environmental Science graduate students have been named finalists of the John A. Knauss Marine Policy Fellowship program sponsored by Sea Grant and NOAA. Katie Hornick, Amanda Lawrence, Wenfei Ni, and Caroline Wiernicki are among 69 national finalists for the 2020 fellowship class chosen to work in either the Executive or Legislative branches of government on coastal and marine science policy for one year.

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Newly identified toxic bacteria living in seaweed solves long standing mystery

In a study published in *Science*, a Princeton-led team including scientists from the University of Maryland Center for Environmental Science has discovered that that toxic chemicals used by sea slugs to defend themselves against predators originate from a newly identified species of bacteria living inside seaweed. The team found that the bacteria have become so dependent on their algal home that they cannot survive on their own.

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Science in Action: Research cruise to explore deep Atlantic

Four miles. That's how deep the Atlantic Ocean is an hour by sea off of Bermuda. Scientists will be sampling the water every 200 meters to help them understand the marine carbon cycle and how it helps manage the global climate. Follow along on this weeklong research cruise with a first-hand account of science at sea.

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Chesapeake Biological Laboratory Open House

September 7, 1-5 p.m.
Solomons Island, free

Discover the world of science at the Chesapeake Biological Laboratory's annual

Open House. This public event provides a "behind-the-scenes" view of exciting research and features demonstrations and exhibits for all ages. Exhibits and hands-on activities include an aquatic animal touch tank, liquid nitrogen chemistry demonstrations, dockside tours of the research vessel *Rachel Carson*, piloting an underwater robot, a scientist selfie station, and more!

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UMCES IN THE NEWS

These cities will be deserts by the end of the century (Yahoo Finance)

The mysterious love lives of oysters? (Soundings)

Experts warn of 'dead zone' in Chesapeake Bay (Voice of America)

Cracking down on plastic trash (Bay Weekly)

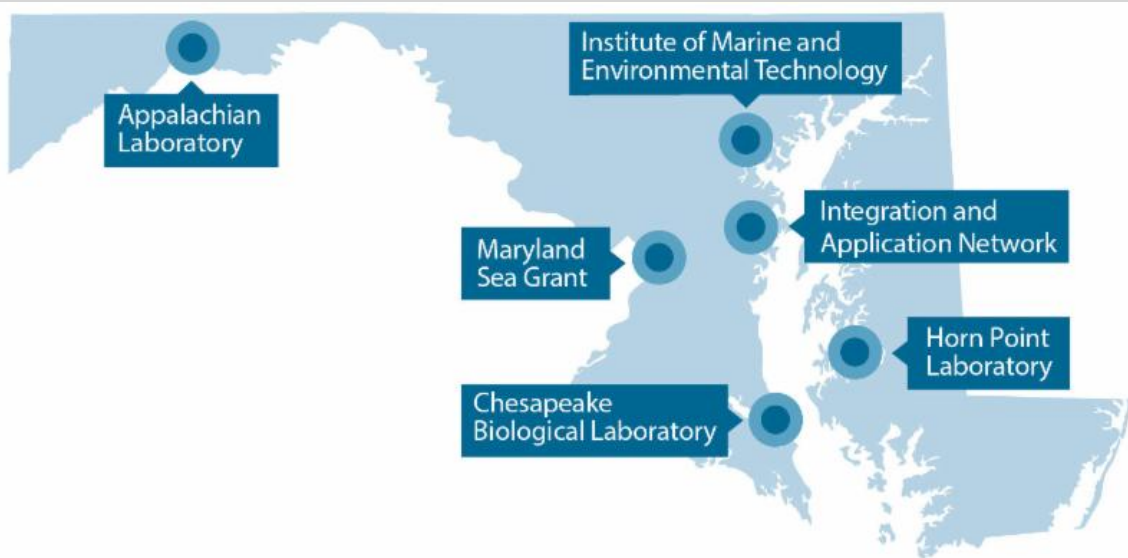
Maryland estimate for seawalls agains rising tides: \$27 billion (Baltimore Sun)

Thanks to a new species, these 'solar powered' sea slugs can steal toxins from algae (Forbes)

Oyster hatcheries struggling as lower Bay salinity hampers production (Bay Journal)

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