

ENVIRONMENTAL INSIGHTS

NEWS FROM THE UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE

Maryland scores a passing grade in first-of-its-kind coastal adaptation report card

With more than 3,000 miles of shoreline and the majority of the state’s population living and working along the coast, Maryland’s coastal communities face particular risk to the impacts of a changing climate. The University of Maryland Center for Environmental Science (UMCES) released the first-of-its-kind Maryland Coastal Adaptation Report Card that gives a snapshot of the current adaptation status in Maryland’s coastal counties and establishes a framework for measuring future progress. [MORE](#)



Marine snow research unlocks mysteries of the deep ocean carbon cycle

Researchers at UMCES found that carbon is being delivered and stored in the deep ocean through marine snow, microscopic particles that form in the surface of the ocean and sink into the deep ocean. These sinking

particles help remove carbon dioxide, the greenhouse gas mainly responsible for climate change, from the atmosphere.

“We didn’t know why a lot of carbon makes it to the bottom of oxygen deficient zones, and this discovery allows us to understand this part of the carbon cycle,” said Jacob Cram. [MORE](#)



Next Generation: Ben Frey on using lasers to age fish



Graduate student Ben Frey has been developing a new way to determine the age of fish to aid fisheries managers in understanding the status of their fish stocks to ensure the effectiveness of sustainable fishing practices.

As a 2022 Knauss Fellow, he will be working at NOAA’s National Ocean Services’ Marine Debris Program on projects relating to the prevention, mitigation, and removal of derelict fishing gear from the marine environment. [MORE](#)



UMCES IN THE NEWS

Protecting the Coasts in Maryland (WMAR)

Florida Oyster Reef Study Gives Chesapeake Clues (Chesapeake Bay Magazine)

Maryland gets passing grade on coastal climate change preparedness with room for improvement (WTOP)

UMD studies microplastics in water (Fox5 DC)

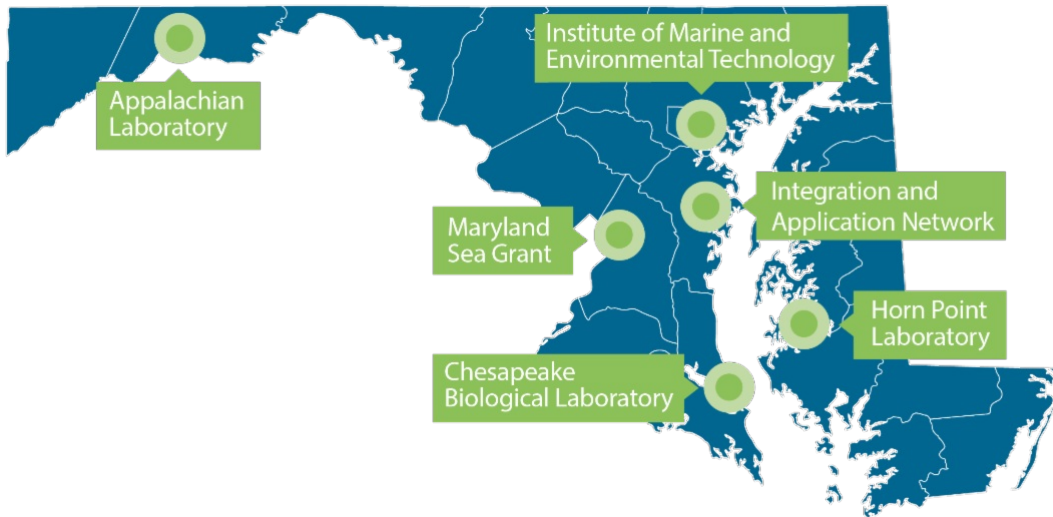
UMCES Bay plastic pollution study to use drones (Chesapeake Bay Magazine)

Research cruise gets rare chance to study Bering and Chukchi seas (Alaska Public Media)

Tagged young turtles could recover 'lost years' (Cayman News Service)

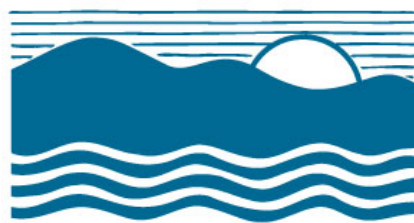
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