

NOAA Science Update



**NOAA Science Advisory Board
April 23, 2019**

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Assistant Secretary of Commerce for Oceans and Atmosphere and
Deputy NOAA Administrator

NOAA Science Leadership: A Walter Munk Legacy

"Walter Munk's contributions to science and society were vast. Perhaps the greatest of these was the **inspiration** he provided to scientists, citizens, and leaders at every level in academia, the government, and the military. I first met Walter when I began my career in the U.S. Navy at Scripps three decades ago. The **role model** he was for me guided every action I took in pursuit of science and public service. Most prominently, it was Walter who **set the standard for scientific and personal integrity** that I followed in positions of national leadership..."



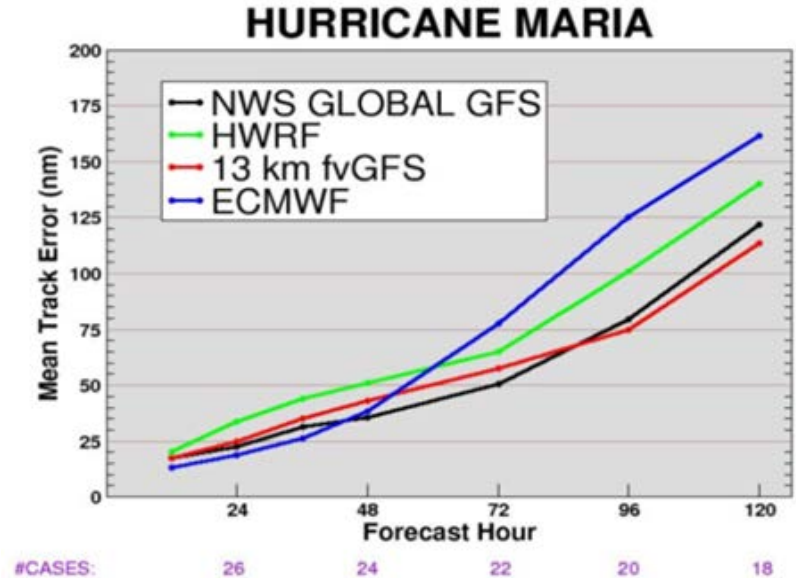
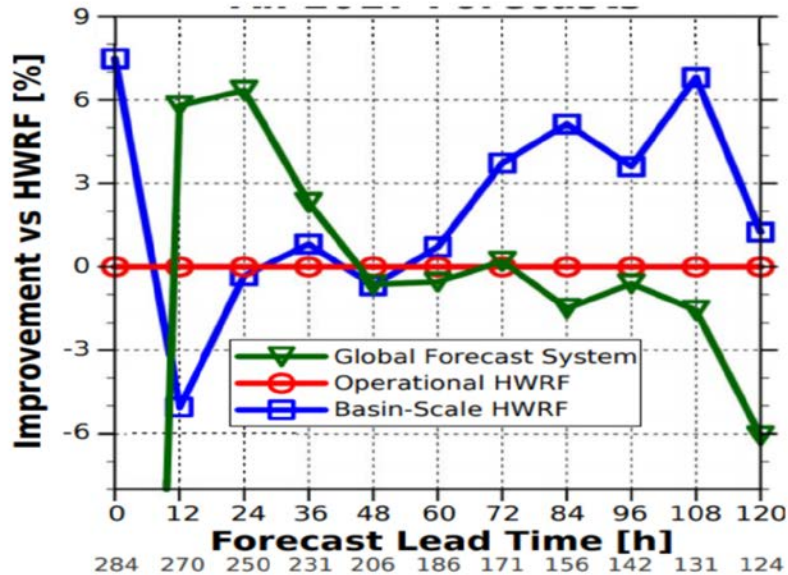
OSTP Leadership



NOAA Engagement with OSTP



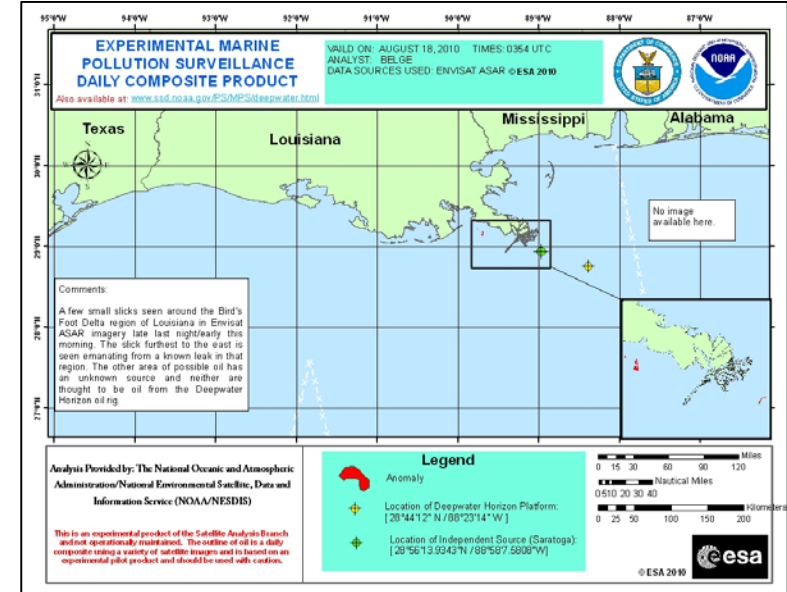
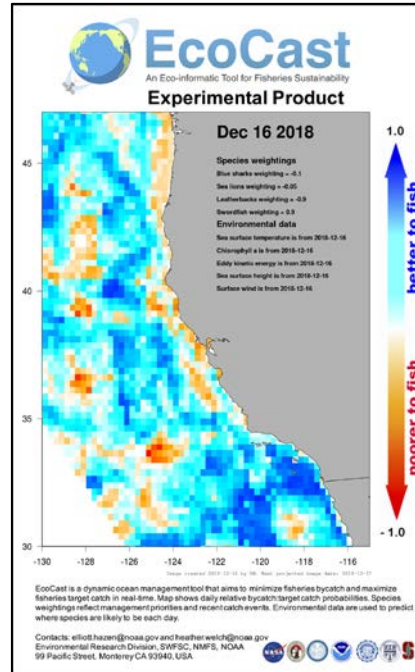
Chief Scientist Focus Area: Earth System Modeling



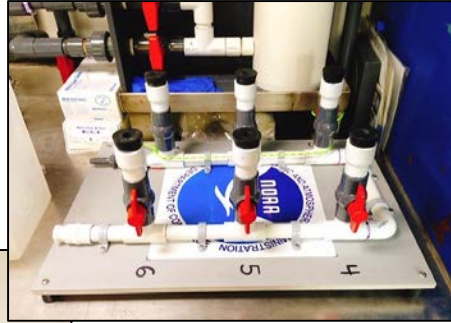
Chief Scientist Focus Area: Unmanned Systems



Chief Scientist Focus Area: Artificial Intelligence & Machine Learning



Chief Scientist Focus Area: 'Omics/eDNA



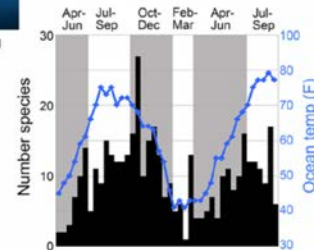
eDNA localization in time: seasonal differences



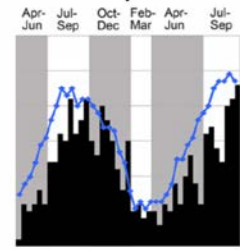
Barnegat Light, NJ

- 18-month time series
- 46 samples ocean, bay, ~q 1-2 w

Ocean

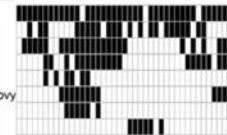


Bay

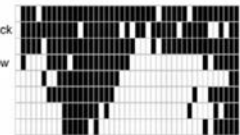


Selected species

Atlantic menhaden
Striped bass
Bluefish
Bay anchovy
Northern searobin
Broad-striped anchovy
Florida pompano
Winter flounder



Mummichog
Forsythia stickleback
Striped killifish
Sheepshead minnow
Naked goby
Northern pipefish
Silver perch
White mullet



NOAA Business Brief



[NOAA Business Brief Story Map](#)

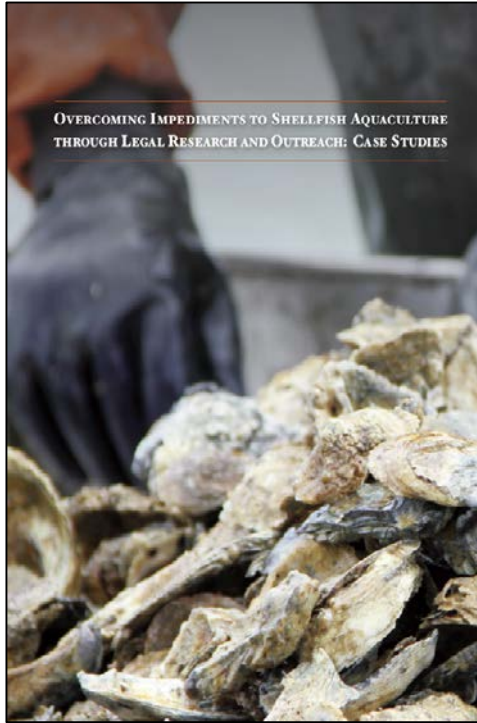
Blue Economy Update: Marine Transportation



Blue Economy Update: Tourism and Recreation



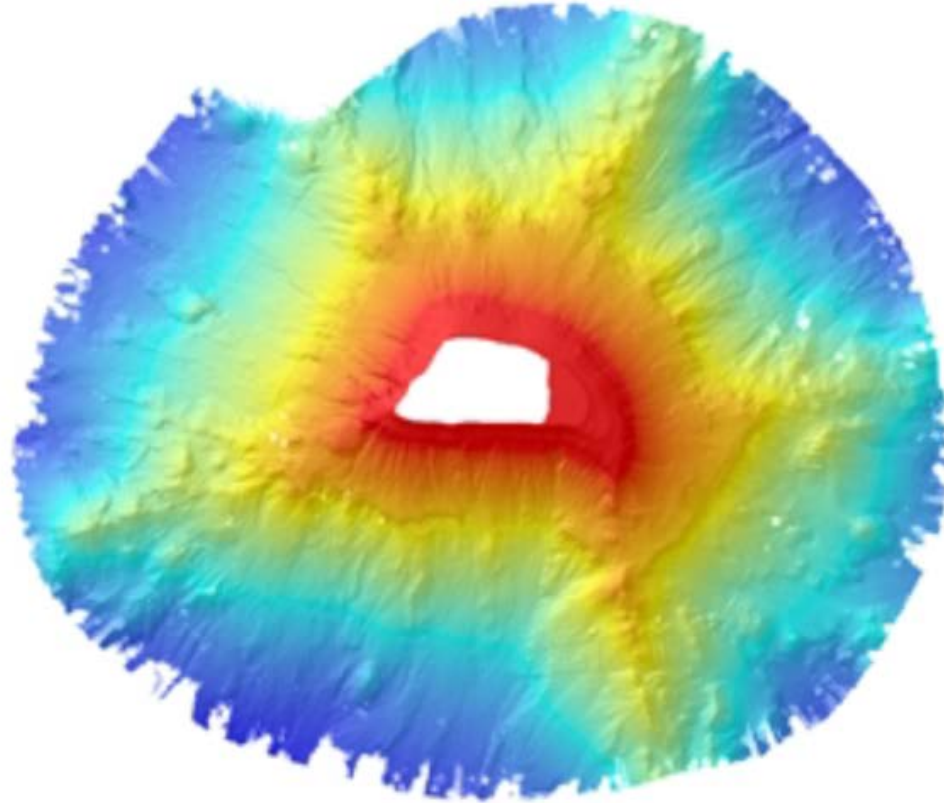
Blue Economy Update: Seafood



Blue Economy Update: Ocean Exploration



The Way Ahead



Thank You!

