

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

**STONY BROOK
UNIVERSITY** urges
Congress to provide at
least \$592 M for NOAA
in FY21.

In the decades and century to come, we will experience extraordinary changes on our planet, with consequences that may dramatically change the way we live our lives. Reducing uncertainty, through the prediction of weather, climate and ecosystem change, requires NOAA funded scientific research to continuously improve our understanding of the Earth as an interdependent system of ocean, air, land and living world.

From droughts and floods to tornadoes and hurricanes, NOAA's science and services are used by communities from coast to coast to prepare for, and recover from, extreme events. In order to build a Weather-Ready Nation, where communities and our economy become ready, responsive, and resilient to the increasing vulnerability to extreme weather, water, and climate events, over the next several years, the NOAA's National Weather Service must evolve its operations to be more agile, efficient, and effective for the 21st Century. A key component to the success of this crucial mission is federally funded research.

Highlights from SBU'S NOAA Funded Research:

- Developing new products to improve the accuracy of weather forecasting 3-4 weeks ahead of storms, which will benefit stakeholders such as utility companies and emergency management
- Determining the factors promoting harmful algal blooms in bodies of water—depending on their type, these blooms can be harmful to humans, small animals, and the fish we consume
- Developing advanced metrics and tools for forecasters to better predict accurate weather conditions including precipitation, high winds and storm surge at lead times from 0 to 10 days

America's national security depends on the ability of NOAA to track and prepare for major hurricanes and recover in the aftermath.

National Sea Grant College Program

SBU recommends \$82.9 million for FY21

A federal-state partnership program, Sea Grant's mission is to enhance the practical use and conservation of coastal, marine and Great Lakes resources in order to create a sustainable economy and environment. Through this program, Stony Brook's research is helping to develop sound, scientifically-based information about sustainable use of coastal resources and putting this information in the hands of coastal residents, officials, communities and businesses to inform their decision about coastal resources.

34

University-based programs

207,773

Acres of habitat restored or protected

270,369

Volunteer hours

1,043

Training events provided to communities

897,872

K-12 students reached

1,663
businesses created or sustained



7,621
jobs created or sustained

In 2018, a federal investment in Sea Grant of \$76.5 million resulted in

\$624M
ECONOMIC
BENEFIT

Research
Extension
Education

nearly

600

SEA GRANT EXTENSION AGENTS



are stationed in communities across the country to advance understanding of coastal and fisheries science for communities and economies that are more resilient.



Stony Brook
University