

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

**STONY BROOK
UNIVERSITY** urges
Congress to provide at
least \$556 M for NOAA in
FY20.

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 \$93.5 million for FY20

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.

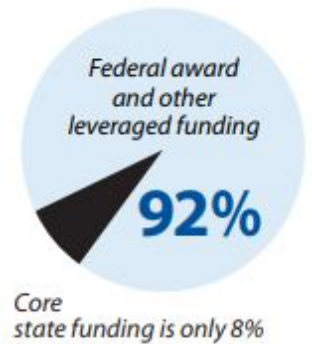


One of **33** university-based programs.

Research and Outreach with Impact

NYSG uses input from stakeholders and the research community to advance state-of-the-art research and coastal management for the benefit of New York's varied coastal environments and communities.

Since 1971 NYSG received **\$142.5M** for research and outreach
2018-2019 budget approx. \$5M



More than **85%** of NY's **20M** people live near its **3,400** miles of coastline

Funding & Partnerships

NYSG is a federal/state matching funds program

Currently funding **45** innovative projects



NYSG partners with

- Northeast
- Great Lakes
- Mid-Atlantic



National Oceanic and Atmospheric Administration




State University of New York



Cornell University

Supporting **700** Graduate students for their advanced degrees since 1971



Sea Grant programs on cutting edge topics:

- Aquatic invasive species
- Ocean acidification
- Climate change



Stony Brook University