

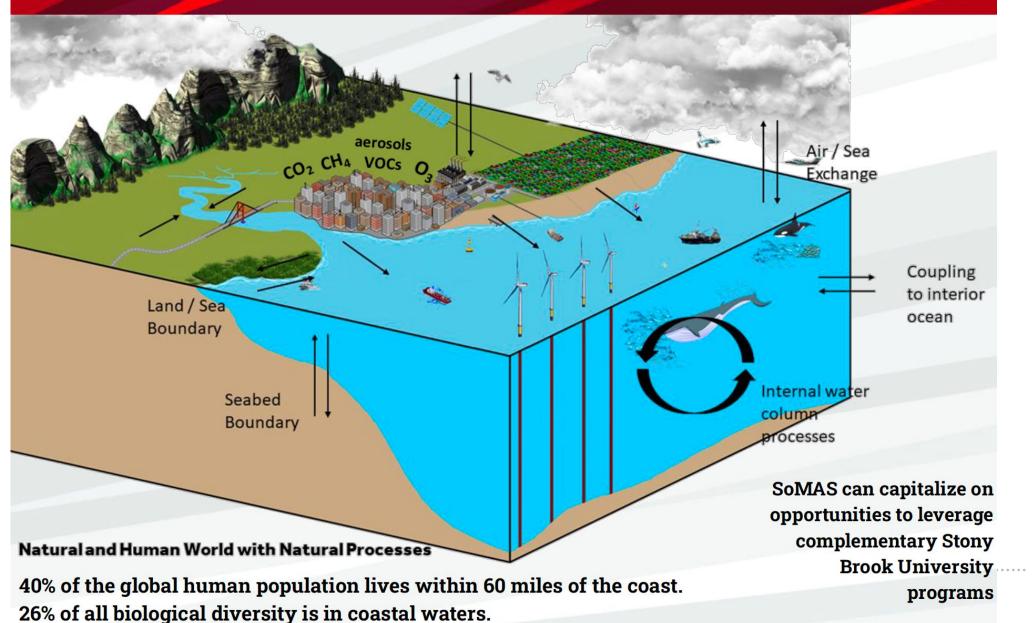


Vision

Be a world-class integrative program in marine, atmospheric and sustainability research and education, committed to a culture that promotes academic excellence, diversity, equity, and inclusion.



Global Leadership in the Study of Coastal Processes



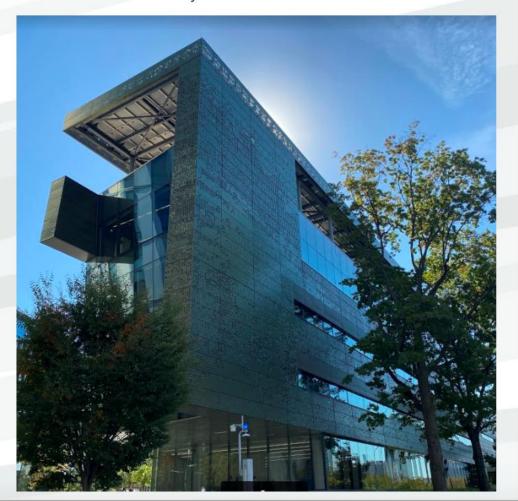
INFRASTRUCTURE: Develop a modern and inspiring home for SoMAS, and develop, maintain, and operate the facilities and vessels needed to enhance our leadership on coastal challenges.

The Need

The goal for the next five years is to make SoMAS a world leader in coastal ecosystems and associated processes in natural and built environments to tackle crucial problems, such as climate change and its impacts, and to develop and train the next generation of stewards in these areas. State-of-the-art facilities are an essential component of our resource needs to meet our goals. The conditions of our existing buildings hamper our abilities to capitalize on our strengths, to recruit and retain the best students, staff, and faculty, or to reach our full potential. Our strategic plan includes a roadmap for creation of a new building that will not only provide the facilities we need to meet our strategic goals, but will also support our leadership and vision, showcase sustainable design, and improve connectivity with the rest of campus. SoMAS' diffuse layout on south campus with restricted collaborative space limits interactions among SoMAS students, staff, and faculty, as well as with other SBU academic units. We herein present our for the integral connection between case state-of-the-art facilities and our aspirations for world renowned leadership status in marine, atmospheric, and sustainability sciences.

Our Vision

The new building will be a showcase for our values and commitment to sustainable and zero-carbon-emission building/energy management, and a dramatically reduced waste stream.



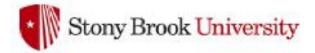
SCHOOL of MARINE and ATMOSPHERIC SCIENCES











Stony Brook University 2023 SoMAS Profile

44 tenured/tenure-track faculty including

3 endowed chairs; 1 endowed professor; 4 SUNY Distinguished Professors

11 research professors

16 adjunct faculty,

7 affiliated faculty

3 lecturers

~130 graduate students

~750 undergraduate students, 9 majors

Two campuses

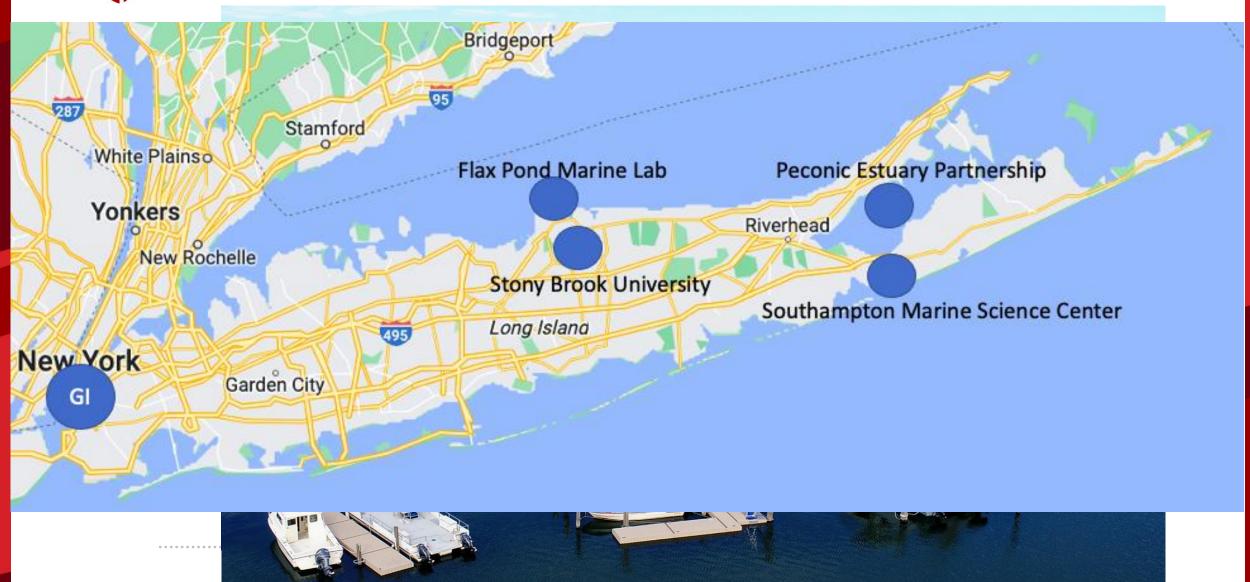
Seven research vessels

Two flowing seawater laboratories





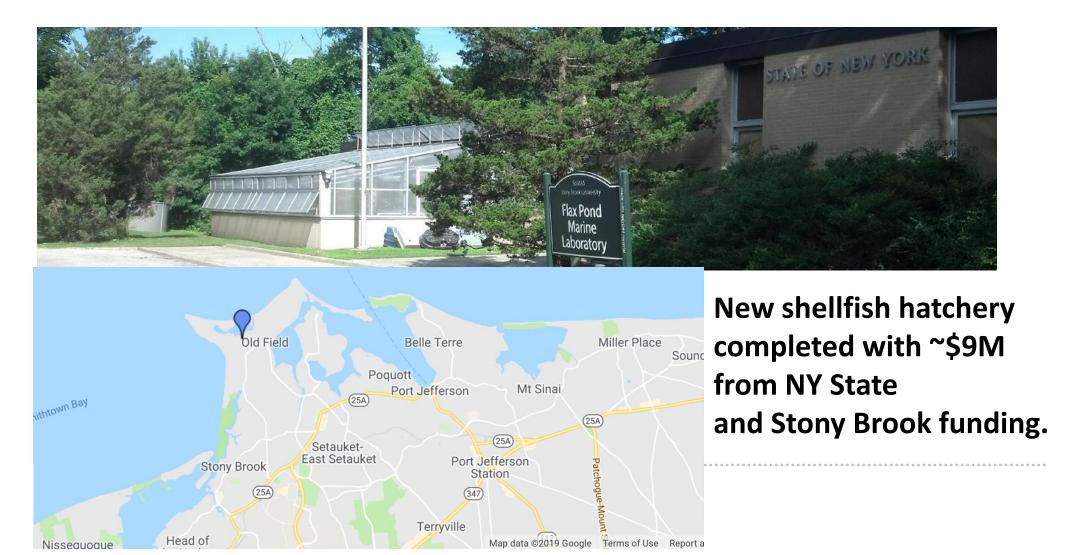
Facilities





Facilities

Flax Pond Marine Lab



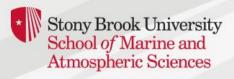


Flax Pond became a New York State Tidal Wetlands Sanctuary in 2023





Ships



RESEARCH VESSELS

R/V PRIVATEER

Oceanographic Sampling, Diving, Fisheries.



R/V SEAWOLF

All Types of Oceanographic and Fisheries Work



R/V SHINNECOCK

Shallow Water Oceanographic & Fisheries Sampling



R/V PAUMANOK

Offshore Oceanographic sampling, Diving operations



R/V DONALD W. PRITCHARD

All Types of Oceanographic Work & Shallow Water Fisheries



R/V PARKER

Underway Sampling Fisheries work & Diving operations





Our fleet of research vessels are available for educational trips and charters. For more information, visit http://somas.stonybrook.edu/outreach



R/V PECONIC

Large Group Research cruises, Educational Trips



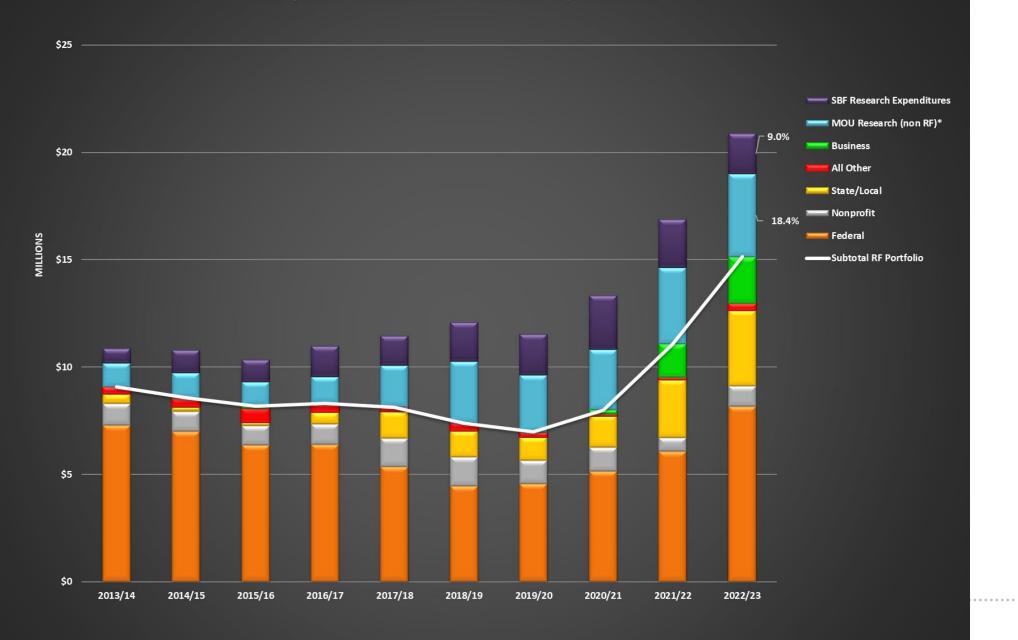
* Stony Brook University

The R/V Seawolf





10-year Trend SoMAS Research Expenditures





Undergraduate Programs

SoMAS offers the following undergraduate degree programs:

- B.S. Atmospheric and Oceanic Sciences
- B.S. Coastal Environmental Studies*
- B.S. Marine Sciences*
- B.S. Marine Vertebrate Biology
- B.A. Environmental Studies*
- B.A. Environmental Design, Policy, and Planning*
- B.A. in Sustainability Studies*

Minor in Geospatial Science

Minor in Climate Solutions (9 Departments)

* Minor also offered

As of spring 2023, there are 754 full-time and part-time undergraduates in SoMAS programs.



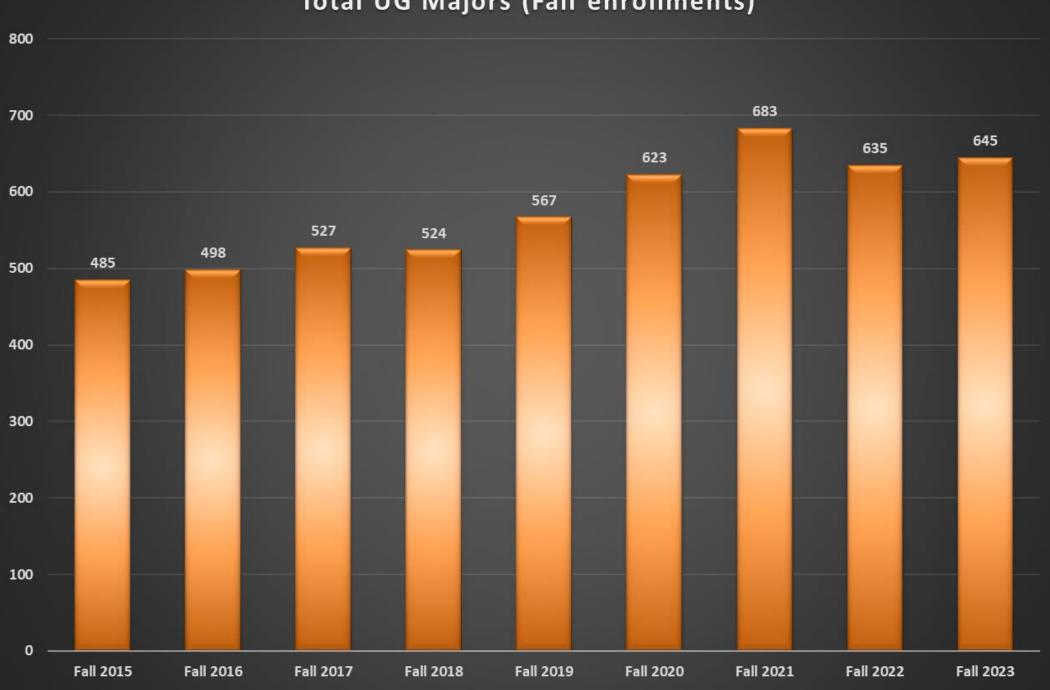


Semester by the Sea (SBTS) is a key "total immersion" experience For our students at at Southampton (SBS)











New Degree Programs in SoMAS

Climate Solutions Minor

Climate Solutions (CLI)

Climate Solutions Minor is intended to provide a coherent foundational knowledge about climate change and skills to work on mitigation and adaptation solutions. This new knowledge and these skills will deepen and strengthen students' major education by offering a transdisciplinary understanding of the forces that have created the climate crisis, possible solutions offered by various fields, and the socio-economic and political forces that have made the solutions to this crisis so difficult.

There is a
Natural Sciences Path
Engineering Path
Social Sciences and Humanities Path



New Degree Programs in SoMAS

B.S. in Climate Science

Program Description

The Climate Science program aims to prepare students to be climate professionals who can help develop and implement strategies for mitigation of, as well as adaptation to, adverse impacts of climate change. Students will learn basic scientific information on processes in the atmosphere and the ocean that drive climate change and are informed about current and anticipated climate impacts and possible mitigation and adaptation strategies. Students learn about threats to coastal environments, economic and social impacts of climate and how the various aspects of climate have evolved over the history of the Earth.

New Degree Programs in SoMAS

We are working on a 3+2 BS/MPH in

Climate Change and Human Health BS/Masters in Public Health

A collaboration between SoMAS and PPH.

We propose to create a combined 3+2 BS/MS program in "Climate Change and Public Health" to train the next generation of students prepared to meet the public health needs related to climate change. This program will be:

- 1. Cross-cutting and multidisciplinary, in that the students will become experts in a range of interconnected fundamentals, from the physical basis of climate change, to the impacts of a range of environmental risk factors related to global health in infectious diseases and cardiopulmonary diseases that are exacerbated by climate change.
- 2.Innovative and unique, building on existing SBU strengths that when combined respond to the new range of public health risks.
- 3. Fantastic preparation for students to enter a growing job market in a range of public health fields impacted by climate change.
- 4. Easy to implement since it connects and builds on existing programs, courses and faculty members from the SoMAS, RSOM, College of Arts and Sciences (e.g. Political Science, Ecology and Evolution), Program in Public Health, and the School of Social Welfare.

The Overarching Learning Outcomes for the Proposed Degree Program:

- Develop a breadth of knowledge, understanding and future development in global health issues and climate change.
- Interpret and draw conclusions from data analysis techniques, statistical methods and GIS approaches used for studying and solving public health challenges due to climate change.
- Refine the necessary scientific writing and communications skills needed for the health-care related workforce.

We are enthusiastically contributing to the proposed new Climate Communication track in the Science Communication M.S. in the School of Communication and Journalism

New York Climate Exchange

On April 24, 2023, the Governors Island Trust and Mayor Eric Adams announced that SBU will serve as the Anchor Institution for the climate solutions center on Governors Island, the New York Climate Exchange (NYCE)



What is the NYCE?

The New York Climate Exchange will be a first-of-its-kind international center for developing and deploying dynamic solutions to our global climate crisis, while also acting as a hub for New Yorkers to benefit from the new green economy.

It is an independent 501(c)(3) non-profit organization with an Exchange Board

Stony Brook University

Maurie McInnis, President

Justin Fincher, Vice President for Advancement

Judith Greiman, Chief Deputy to President and SVP of Government and Community Relations

Jed Shivers, SVP for Finance, Administration and IT

Errol Cockfield, Partner at Brunswick Group

Boston Consulting Group (BCG)

Giovanni Fassio, Principal

Current staff:

CEO: Stephen Hammer

Kevin Reed - Interim Director of Academic, Research, and Commercialization Programs

Core Board Members:

Andrew Winters – Director of Planning and Development

Georgia Tech

Dr. Chaouki Abdallah, Executive Vice President for Research

GOLES (Good Old Lower East Side)

Damaris Reyes, Executive Director

IBM

Justina Nixon, Vice President and Chief Impact Officer at IBM

Pace University

Marvin Krislov, President

Pratt University

Frances Bronet, President

Simons Foundation

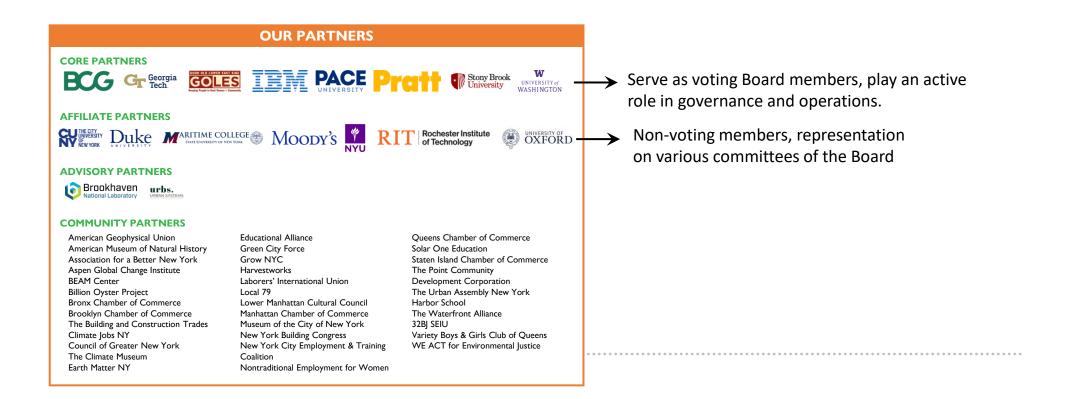
Euan Robertson, Chief Operating Officer

University of Washington

Maya Tolstoy, Maggie Walker Dean of the UW College of the Environment

The Exchange: A Globally-Facing Climate Pioneer

Mission: To confront urgent climate impacts and issues of environmental injustice, breaking down silos through an innovative, scalable, and sustainable model that will rapidly develop new urban climate solutions.



Program Priorities and Updated Workstream Structure Rollout

The current Program Steering Committee will advise Exchange Leadership on programming priorities and provide feedback to all Exchange Program Teams as they work toward their defined goals over the next 6 months.



WE'RE HIRING!

You must be able to work in the United States as The Exchange does not yet have visa-sponsoring capabilities.

The Exchange is currently hiring for the following positions:

Director of Community Initiatives

Please click below for more information.

Click here

Director of Programming Innovation and Acceleration

Please click below for more information.

Click here

Director of Climate Finance Initiatives

Please click below for more information.

Click here

Research Associate

Please click below for more information.

Click here

Chief Advancement Officer

Please click below for more information.

Click here



Summary

- SoMAS is in a substantial growth period, in part due to enthusiastic efforts, in part due to local and national scale opportunities related to climate change, renewable energy, and challenges in coastal environments, and our geography.
- We have tremendous opportunities to help lead SBU in realizing its potential as SUNY's "Flagship Campus"
- While engaging our students in problem solving in the field, we prepare them to lead the world in meeting the challenges of the 21st century.
- Our strengths, and focus on climate change and coastal environments will enable us to help SBU lead in the pursuit of the goals of the New York Climate Exchange