



STEMSEAS Update

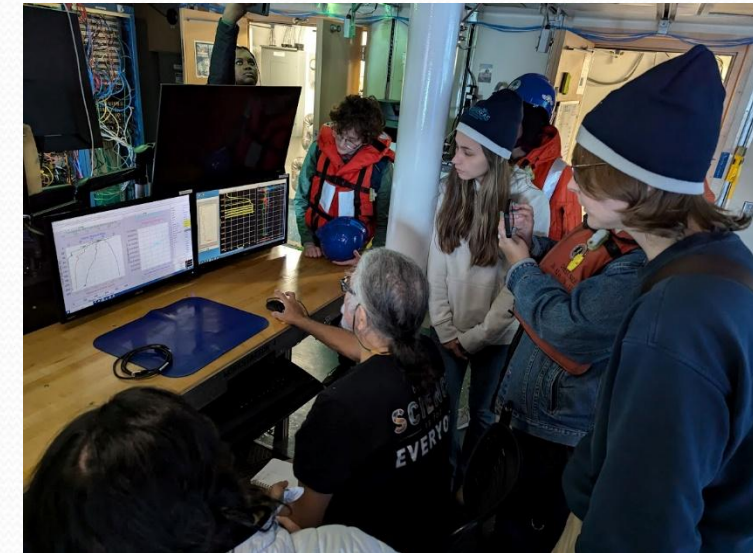
Sharon K. Cooper, Lamont Doherty Earth Observatory,
Rylin Lofton, Ohio State University

UNOLS Annual Meeting
November 20, 2024



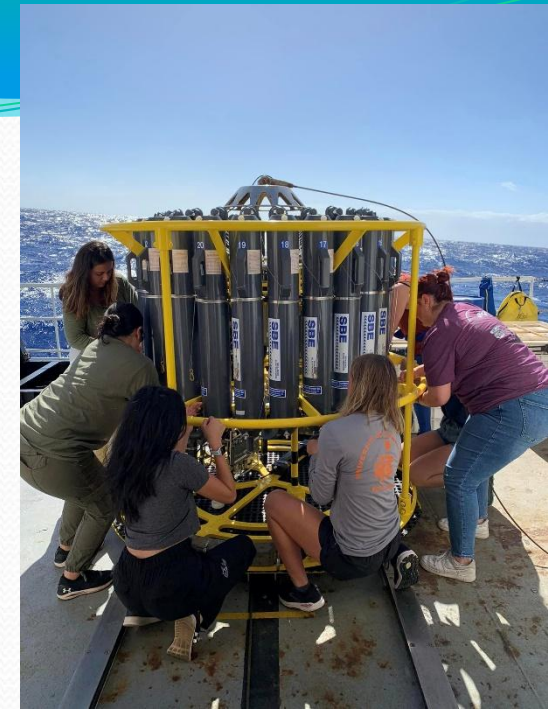
What is STEMSEAS?

- Since 2016: We have been working with UNOLS to bring students from diverse backgrounds out to sea to experience oceanographic science and careers
- Towards goals of:
 - Access and broadening participation
 - Resilience and retention
 - Career exposure
- Impacts: number of students ~240, we see significant changes in attitudes, knowledge - transformative learning



2024 Updates

- STEMSEAS 3.0 has been funded for 4 years!
- What's New?
 - Expanded PI team
 - Alumni Advisory Committee
 - Built-in Professional Development
 - Additional partnerships



2024 Snapshot

2024 Expeditions

June 30 – July 9, San Francisco to Honolulu, *R/V Kilo Moana*

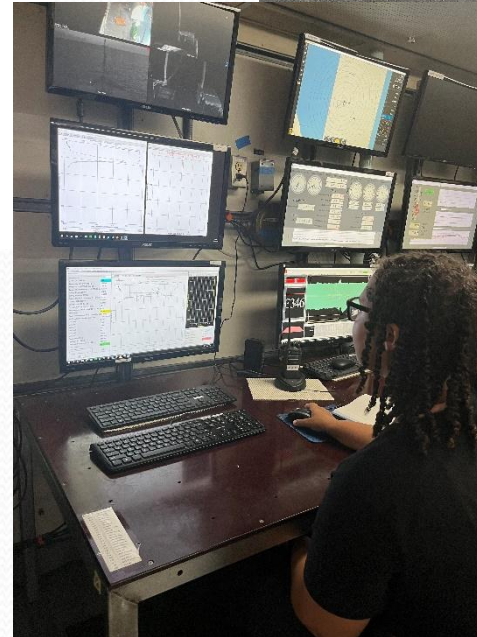
July 29 – August 3, Seward to Nome, *R/V Sikuliaq*

September 25 – 30, Newport OR to San Diego, CA, *R/V Sally Ride*

October 14-19, Lewes DE to Lewes DE (Chesapeake Bay), *R/V Hugh Sharp*

May 25 – June 4 Honolulu to Sydney, BC on E/V
Nautilus

Also 4 students sailed as a part of the ASTraL project in
the Indian Ocean



SACNAS conference 2024

Expanded PI Team

- LDEO: Sharon Cooper
- IUP: Jon Lewis
- Berkeley: Lisa White
- Morgan State University: Shondricka Burrell

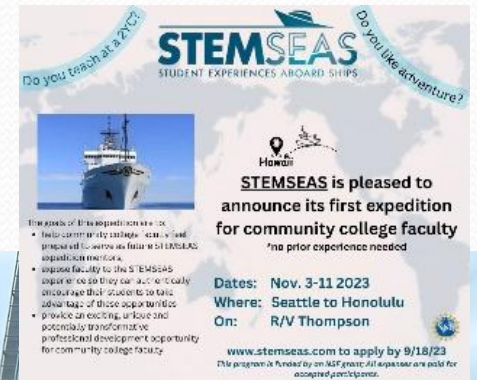


Integrated Professional Development

Faculty expeditions for HBCU and Community College Faculty in alternating years

- November 2024 2YC faculty expedition led to jump in 2yc student applications from 10% to 38%
- In 2024, we sailed 19 2YC students, nearly 40% of total students. Previous 6 years was ~28%
- Two of our 2yc cohort sailed as mentors in 2024

In 2025, we will do our next HBCU faculty expedition





The Benefits of Empowering Community College Geoscience Faculty

Creating spaces and partnerships tailored to 2-year-college faculty can improve perceptions of how they fit into the geoscience community and boost diversity in the discipline more broadly.

By Tess Weathers, Sheldon Turner, and Kusali Gamage 6 August 2024



Sign up for the
AGU Advances
Digest,
featuring
commentaries
and editor

2024 Alumni Advisory Committee



Alondra (2016)



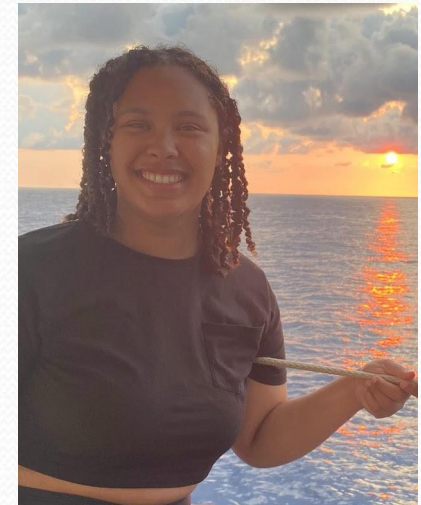
Brancen (2023)



Jeremy (2022)



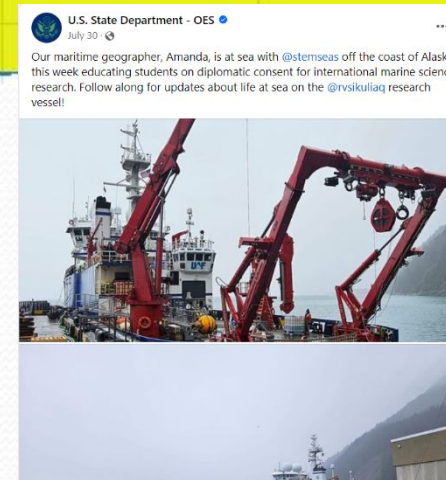
Melanie (2022)



Rylin (2023)

How 2025 is shaping up

February 3-6	Sikuliaq	Honolulu	Honolulu	Marine Tech expedition
March 17-23	Armstrong	Port Everglades	Woods Hole	For HBCU Faculty
April 10-20	Sikuliaq	Honolulu	Seward	cyber transit collaboration with CI Compass, Trusted CI and Sikuliaq
June 1-11	Atlantis	San Diego	Dutch Harbor	Collaborations in motion
August 6-10	Sally Ride	San Diego	Newport	
early September	Hugh Sharp	Lewes	Lewes	



Have you ever wondered what a career as a marine technician might look like?

STEMSEAS special opportunity!
For undergraduate or recent post-bac students interested in the marine tech field
No prior experience needed

Dates: February 1-9, 2025
Where: Honolulu, Hawaii
On: R/V Sikuliaq

www.stemseas.com to apply by 11/20/24
This program is funded by an NSF grant. All travel expenses are paid for accepted participants.

During this 1-week experience, you will:

- live and work aboard the R/V Sikuliaq
- be exposed to a wide range of marine technologies, equipment and marine tech professionals
- learn a little bit about how to operate and maintain a variety of scientific equipment in support of shipboard scientific research
- explore marine facilities in/around Honolulu
- join a group of like-minded students
- go on a geology field trip
- have fun!

Partnerships

- ONR
- State Department
- USGS
- Ocean Exploration Trust
- OSU Marine Sediment Sampling group (MARSSAM)
- FieldSafe
- Individual PI projects
- Other ideas? We want to partner with you!

Look for:

- New website, new manuals, expanded social media
- Monthly newsletter
- Webinar series

Finding my way to earth science

