



STEMSEAS Update

Sharon K. Cooper, Lamont Doherty Earth Observatory,
Jon Lewis (IUP)

Jeremy Lewan, Honors College, Rutgers University



UNOLS Annual Meeting
November 15, 2022



2021/22 Updates

Successful transit on R/V Thompson in November 2021: focused solely on community colleges students in Seattle area

Fantastic experience for all!

Many thanks to UW for working with us on that!



2022 Schedule

4/9 – 4/17, Newport, Oregon to Seward –
Sikuliaq

4/30 – 5/8, Newport, Oregon to San Diego,
CA – **Langseth**

8/16 – 8/22, Seattle, WA to San Diego, CA –
Sally Ride

9/6 – 9/10, Woods Hole, MA to St. George's,
Bermuda – Atlantic Explorer (must have valid
passport)

October 15-22, Lewes, Delaware to Lewes,
Delaware – Hugh Sharp

~60 students between 2021-
2022, since pandemic pause



Looking forward!

Currently identifying potential transits for 2023 schedule

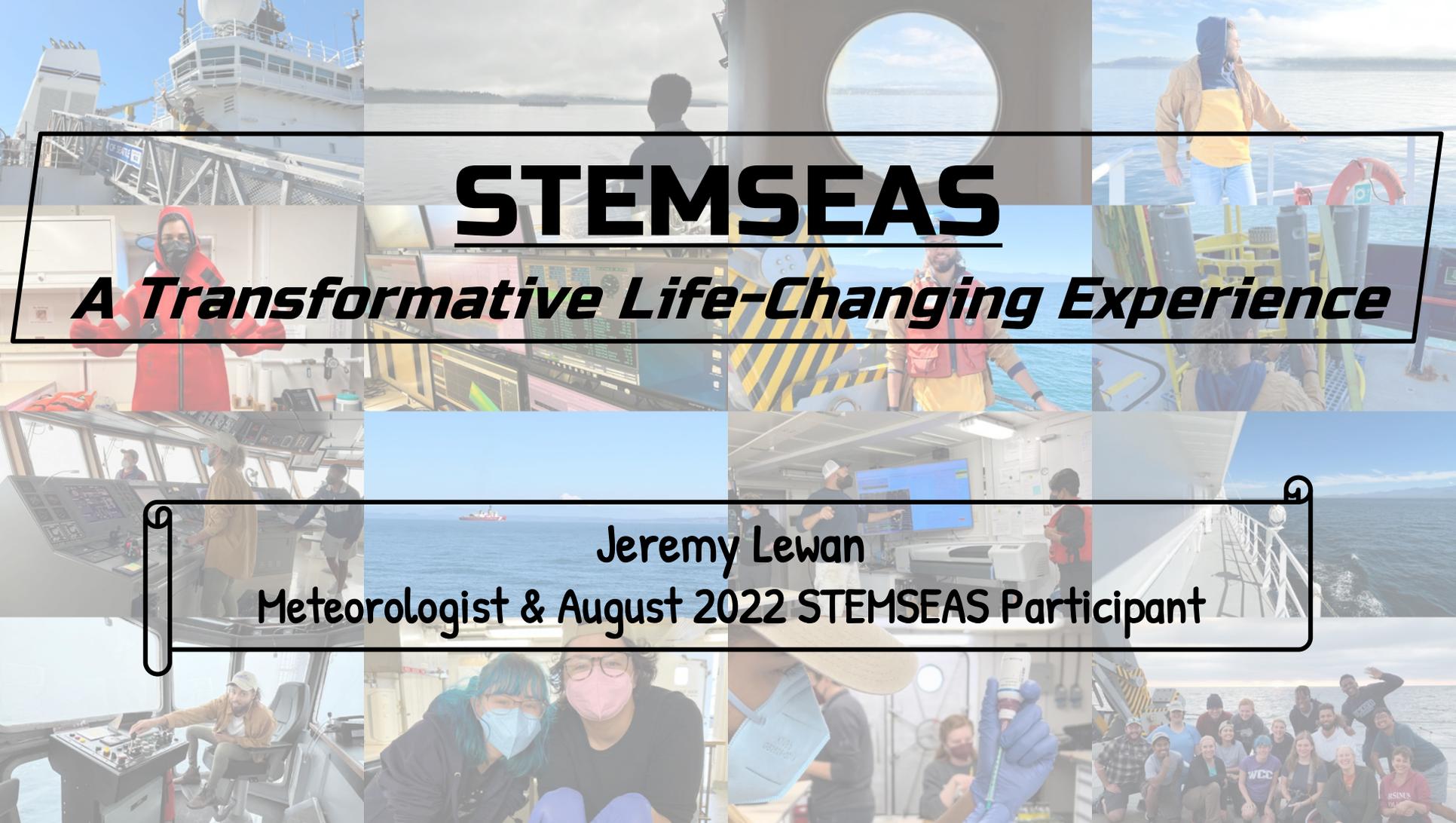
Writing new proposal for continuation of STEMSEAS for ~4 more years . New aspects:

Alumni advisory council

HBCU partnerships and faculty training

Community college faculty training opportunities



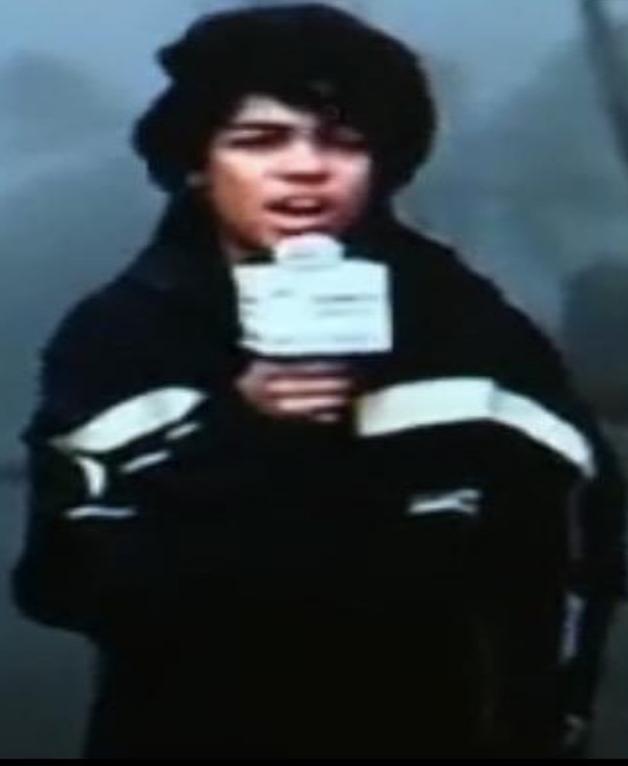


STEMSEAS

A Transformative Life-Changing Experience

Jeremy Lewan
Meteorologist & August 2022 STEMSEAS Participant

**I'VE ALWAYS WANTED TO BE
A METEOROLOGIST!**



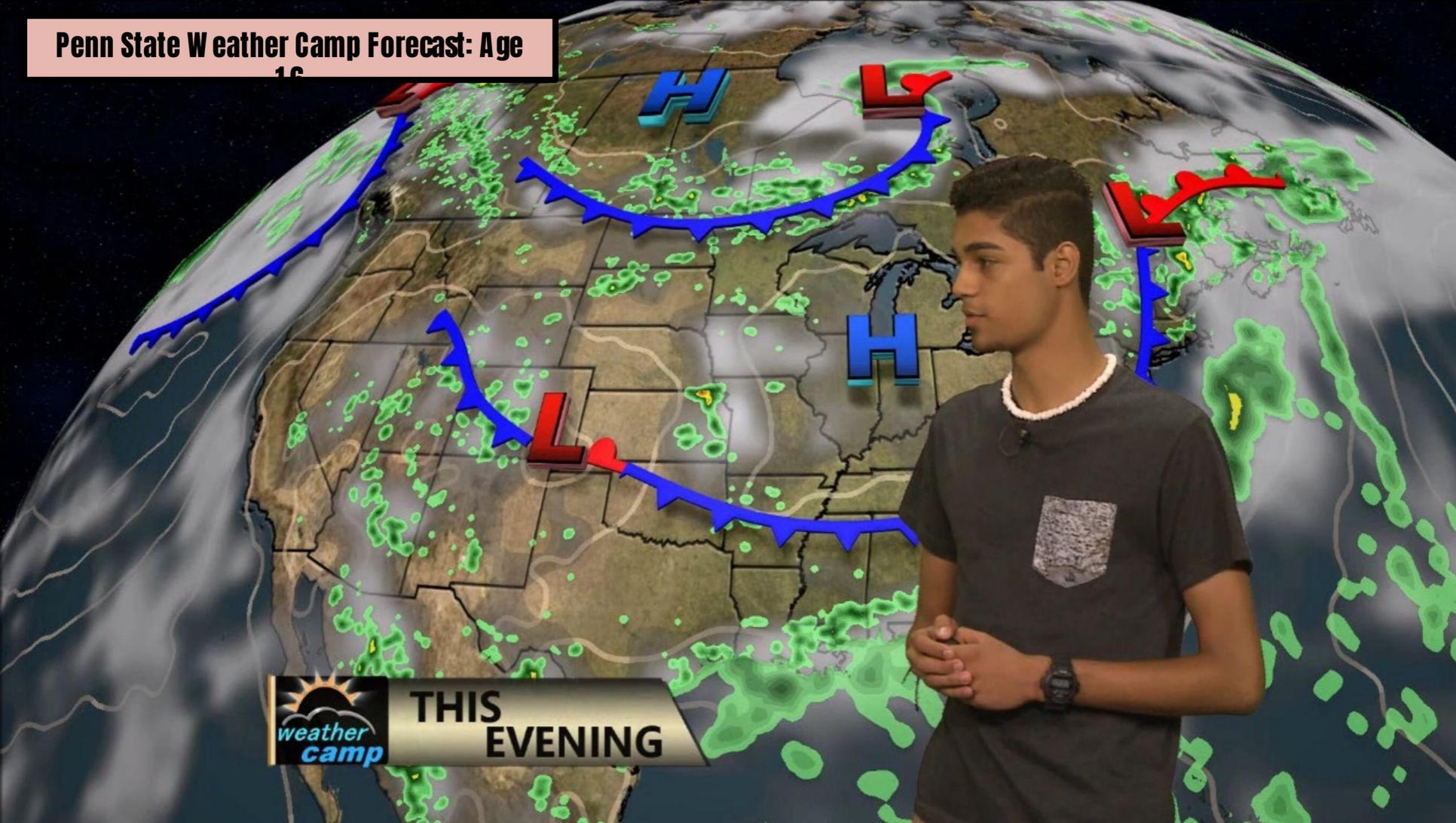
CBS2 Studio, New York City with Lonnie Quinn: Age

12



Penn State Weather Camp Forecast: Age

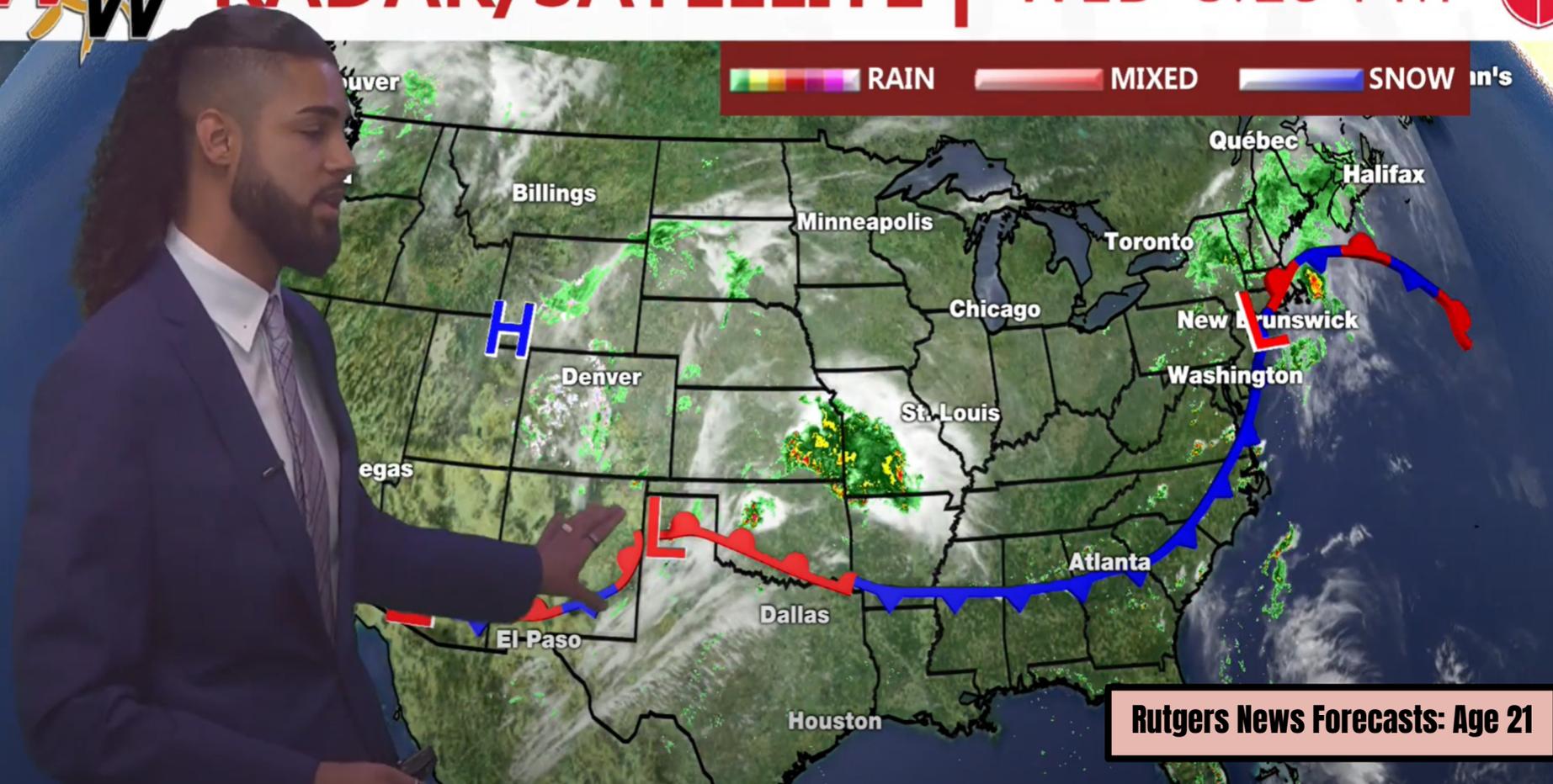
16



THIS EVENING



RADAR/SATELLITE | WED 3:15 PM



Rutgers News Forecasts: Age 21

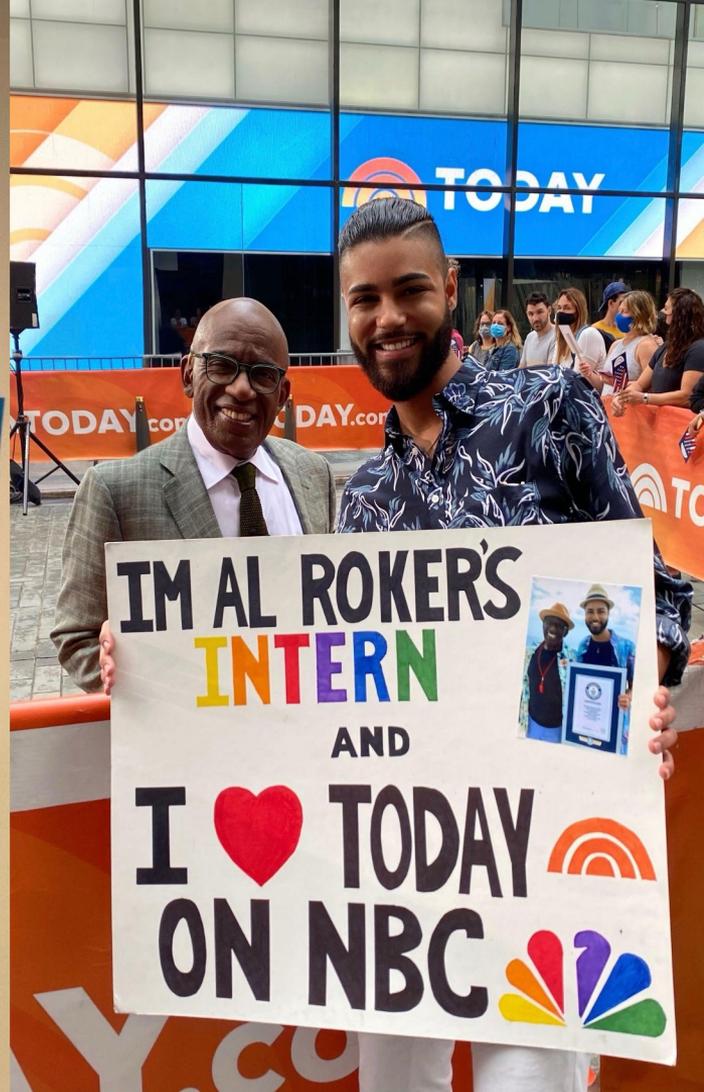
NBC News Internship: Age 21



NBC News Internship: Age 21



 **NBC NEWS**
WEATHER



IM AL ROKER'S
INTERN
AND
I ♥️ TODAY
ON NBC

STEMSEAS Program: Age 22



HE DID WHAT?!?!

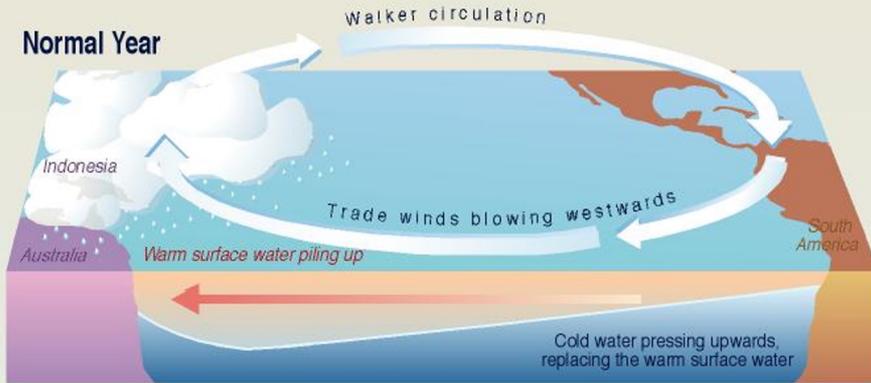


Interdisciplinary Honors Seminar - Tracing the Raritan River: Age 19

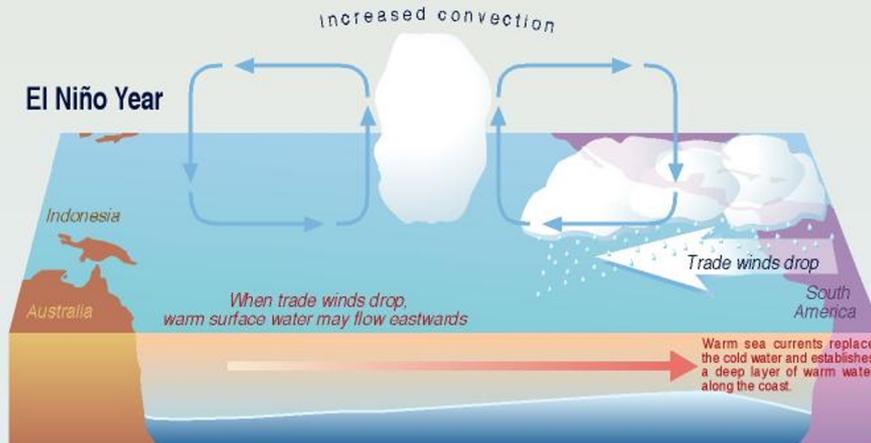


El Niño Phenomenon (ENSO)

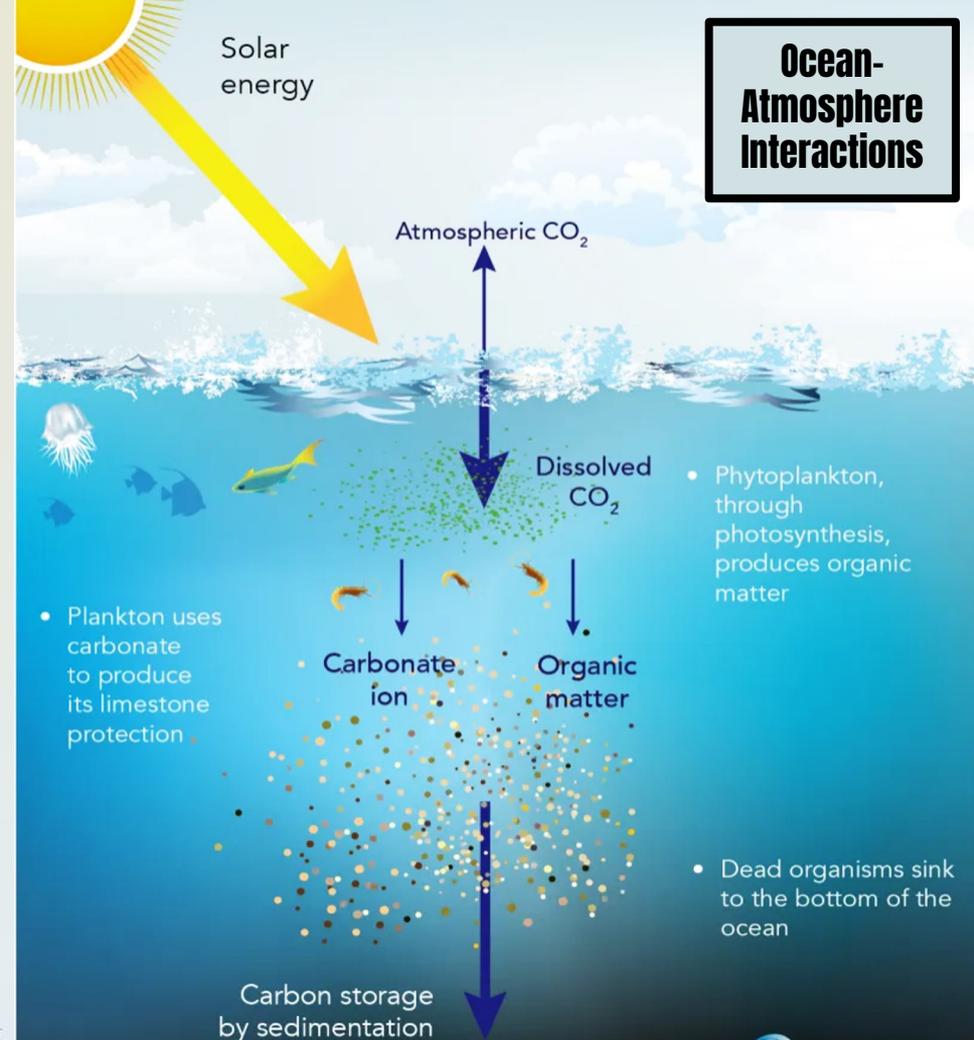
Normal Year



El Niño Year



Ocean-Atmosphere Interactions



Ready for a STEMSEAS Adventure at sea?



STEMSEAS

STUDENT EXPERIENCES ABOARD SHIPS

**Encourage your undergraduate students
to apply for the STEMSEAS project!**

Visit us at www.stemseas.com

Providing transformative experiences at sea to expand the number and diversity of students in geoscience, and to promote geoscience literacy

Participants will:

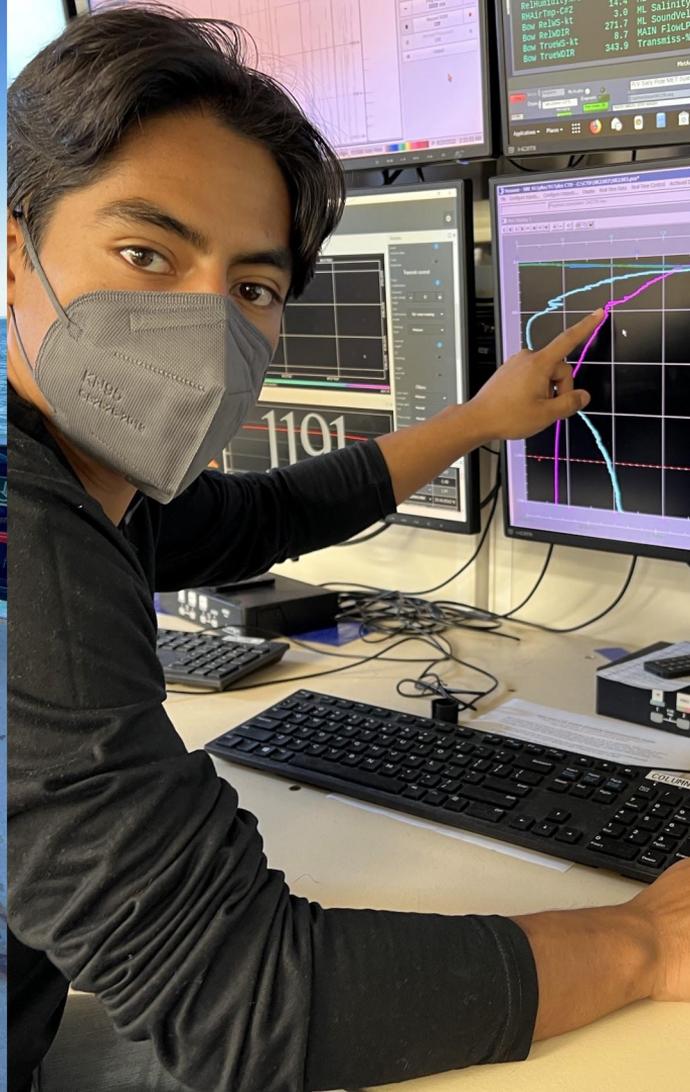
- sail aboard a state-of-the-art research ship during a 5- to 10-day transit
- experience high-tech ship operations
- learn about STEM careers
- learn technical methods used by geoscientists at sea
- have fun!



Wildlife



Marine Chemistry



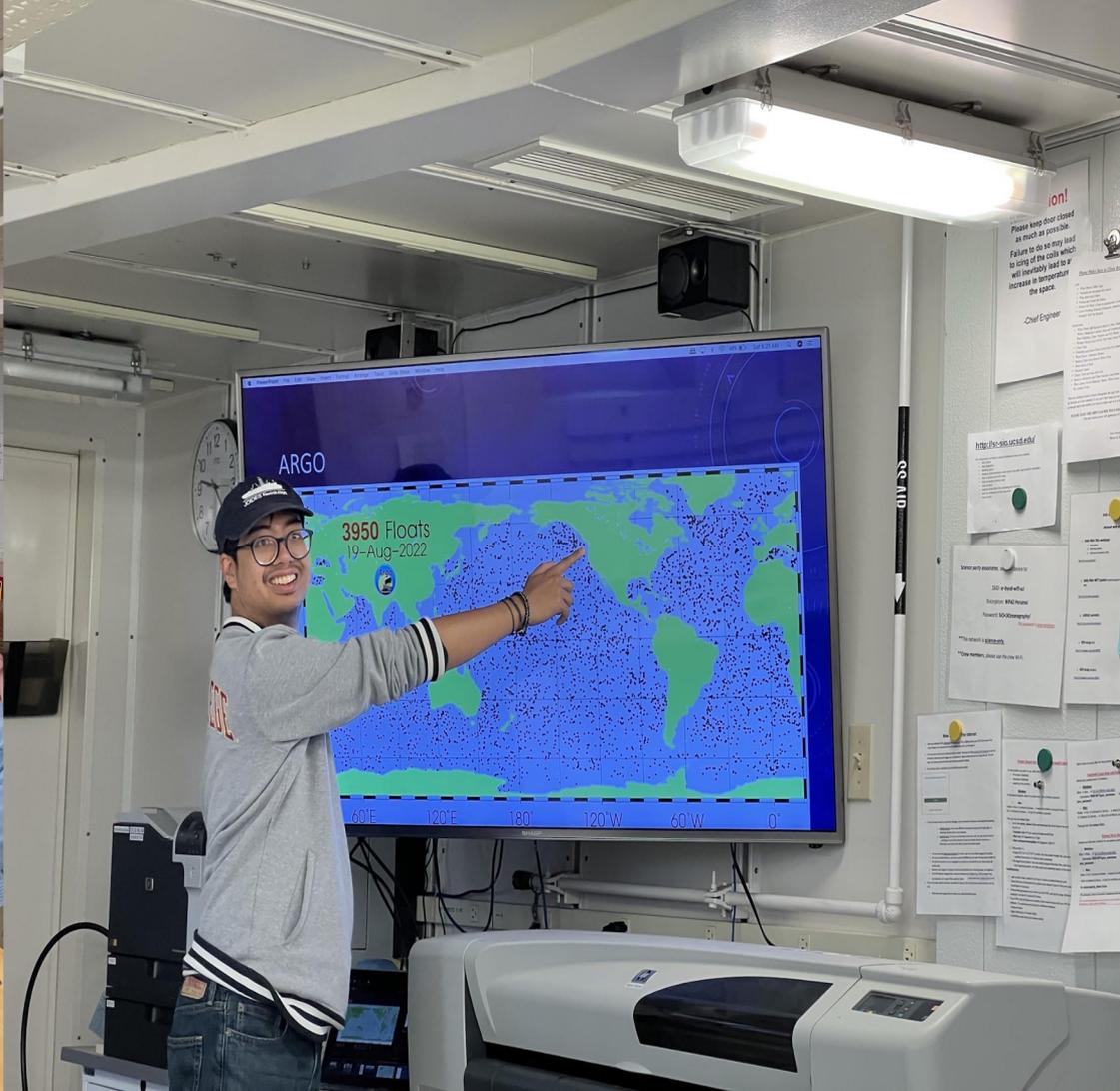
Marine Biology



Nautical Knowledge



Science Communication



Friendships & Diversity



Beyond the Ship





