

NOAA's Teacher at Sea Program



2020 Year in Review





30 Years of NOAA's Teacher at Sea Program



In **1990**, NOAA Corps Officer
LT Ilene Byron, educational
coordinator at Monitor National
Marine Sanctuary, selected high
school teacher Debora Mosher
from Norfolk, Virginia, to sail on
a scallop survey aboard
NOAA Ship *Oregon II*.

TAS '90 Debora Mosher shows off scallops from her 1990 Teacher at Sea experience

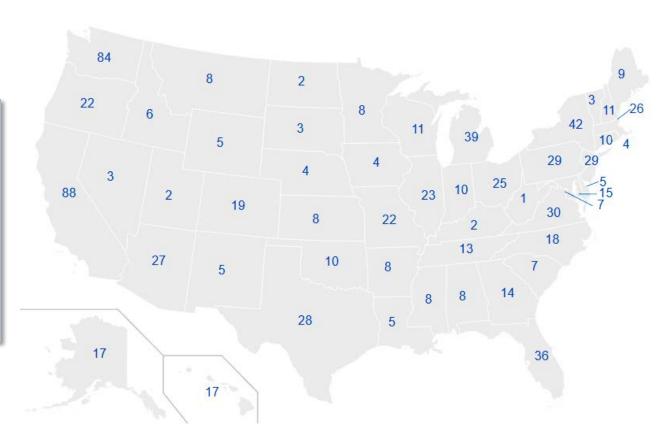




30 Years of NOAA's Teacher at Sea Program



Since then, more than 850 teachers have sailed on NOAA or NOAApartner vessels through the Teacher at Sea Program.

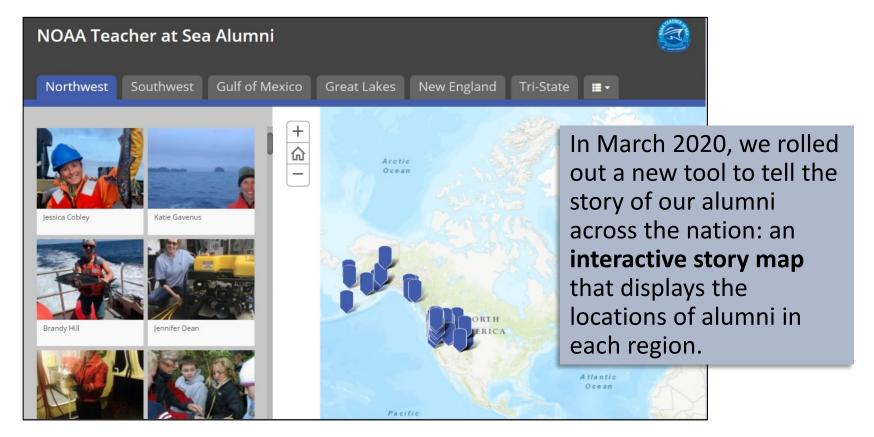


Number of known Teacher at Sea participants from each state, from 1990-2019. No teachers sailed in 2020.



30 Years of NOAA's Teacher at Sea Program





teacheratsea.noaa.gov/#/storymap/



Response to COVID-19



- 2020 Season
 - Selected and notified 20 teachers in January 2020
 - Postponed 2020 season and notified teachers on March 9, 2020
 - Keeping teachers in finalist status for the 2021 sailing season
- 30th Anniversary Symposium
 - Canceled the two-day celebration in Washington, DC
 - Published a virtual celebration with videos, web stories, & social media posts
 - Shipped 30th anniversary gear to alumni for distance celebration
- Teacher at Sea Alumni Association Partnership
 - Provided mini-grants for 60 teachers to receive school supplies to support virtual learning
 - Hosted an alumni webinar
 - Facilitated a virtual alumni workshop
 - Created a private alumni Facebook group to share best teaching practices and resources



Celebrating 30 Years from a Distance



- Alumni Videos
- Web features
- #ThrowbackThursday social media campaign
- Partnering with Alumni Association to provide supplies





30 Years of New Frontiers: Why Send Teachers to Sea?



Teacher at Sea 30th Anniversary video feature



Teachers at Sea have collectively supported more than **150,000 hours of NOAA** research at sea, working alongside scientists.
But they not only help to advance the science. They also communicate the value of NOAA's work to new audiences.



Watch the video here:

https://go.usa.gov/xA626



30 Years of New Frontiers: Facing Your Fears



Teacher at Sea 30th Anniversary video feature



NOAA's Teacher at Sea
Program presents a new
frontier to educators.

It pushes them into
unfamiliar territory,
which can sometimes be
intimidating.



Watch the video here:

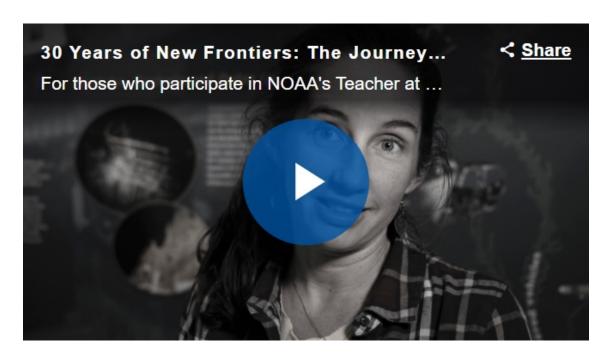
https://go.usa.gov/xA627



30 Years of New Frontiers: The Journey is Just the Beginning



Teacher at Sea 30th Anniversary video feature



More than **850**Teacher at Sea alumni
across the nation create
a collaborative network
of educators who share a
passion for bringing
ocean science to life for
their students.



Watch the video here:

https://go.usa.gov/xA62s



30 Years of New Frontiers:



Looking Back on 30 Years of Teachers at Sea

NOAA Fisheries web feature story

NEWS

Looking Back On 30 Years of Teachers at Sea

July 17, 2020

This week, we celebrate the 30th anniversary of NOAA's Teacher at Sea program. Join us as we look back at the history and accomplishments of this groundbreaking program.

Feature Story | National



For three decades, the Teacher at Sea program has helped teachers participate in annual NOAA research surveys conducted by our scientists. Teachers from around the country embark on a two to three week expedition at sea. They gain invaluable on-the-job experience and communicate their journey through a series of blogs and lesson plans.

https://www.fisheries.noaa.gov/feature-story/looking-back-30-years-teachers-sea



30 Years of New Frontiers:



Teachers at Sea Explore New Frontiers with Alumni Association

NOAA Fisheries web feature story

NEWS

Teachers at Sea Continue To Learn, Educate, and Explore New Frontiers with Alumni Association

July 17, 2020

The Teacher at Sea Alumni Association provides networking and funding opportunities for hundreds of teachers across the country.

Feature Story | National



The Teacher at Sea Alumni
Association formed in January
2011 to connect and support
teachers who participated in the
NOAA Teacher at Sea Program.
Across the country, there are
more than 300 active Teacher at
Sea alumni serving as NOAA
ambassadors.

https://www.fisheries.noaa.gov/feature -story/teachers-sea-continue-learneducate-and-explore-new-frontiersalumni-association





#ThrowbackThursday social media campaign

Campaign highlighted Teacher at Sea program history by featuring recently digitized archive material such as:

- Newspaper articles
- Scanned photos and logs
- Letters from scientists



Photo of NOAA Ship *Miller Freeman* by TAS '92 Ken Vandenheuvel

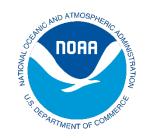




#ThrowbackThursday social media campaign



TAS '96 Kerry Johnson, and TAS '97 William Blanchard





#ThrowbackThursday social media campaign

Sample post:

"Gumby" suit comparison also selected as a winner of NOAA Education's internal photo contest and featured in their "Favorite Photos of 2020" story: https://www.noaa.gov/education/photos-from-2020

Scanned photo of TAS '93 Virginia Figura (left) in a survival suit aboard NOAA Ship *Miller Freeman*



#ThrowbackThursday Then & Now: Safety at Sea Teachers Virginia Figura and Callie Harris try on survival suits (or 'gumby' suits) - 26 years apart. Virginia sailed on NOAA Ship Miller Freeman in 1993, while Callie sailed on NOAA Ship Oscar Dyson in 2019.

#30YearsofNewFrontiers



10:07 AM · Nov 12, 2020 · Twitter Web App





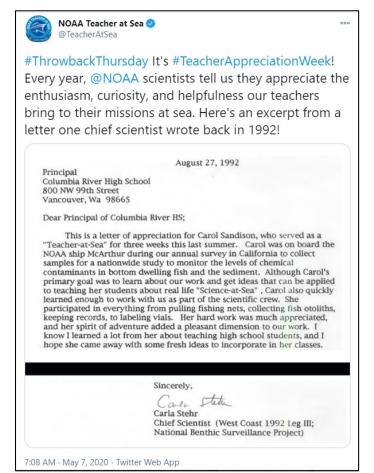
#ThrowbackThursday social media campaign

Sample post:

May 4-8, 2020: Teacher Appreciation Week

Excerpt from letter from Chief Scientist Carla Stehr about TAS '92 Carol Sandison:

"Her hard work was much appreciated, and her spirit of adventure added a pleasant dimension to our work."







- Created a private TAS Alumni Association Facebook group
- Hosted webinars and networking opportunities
- Supported funding for remote teaching supplies

Need Supplies for Your Remote Classroom?

This form is for you to request supplies you need to help you through the end of the 2020 school year and to support you and your students as you adapt to your institution's response to COVID-19. Approved supplies will be purchased by TASAA directly and mailed to you. Email Britta Culbertson at britta@marinesanctuary.org with any questions.









"NOAA Teacher at Sea is one of the few organizations that provides a collegial network and continues supporting alumni in a variety of ways after the sea-based portion of the program. It is an honor and pleasure being part of the TASA family!"

- TAS '13 Beverly Owens





"TASAA took a huge weight off of my shoulders by providing these materials! Now, I have the material lab I need for chromatography, evaporites, borax crystals, bouncy balls, paper circuits, oxidation, and pH testing. As well as a tablet that I can use to make illustrated study guides for students and use in remote learning videos."





"Thank you so much for the headset, webcam, green screen and writing tablet. I appreciate your support in helping me make engaging online lessons for my students at the School of Innovation in Springfield, Ohio." – TAS '18 Lee Teevan







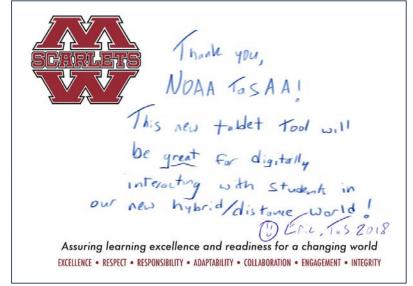


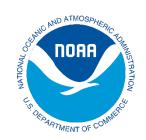




"A big thanks to the TAS Alumni team for new tools!! This pen-tablet will be great for interacting with students working on physics problems in hybrid and distance learning!"

— TAS '18 Eric Koser





TAS Alumni Webinar & Citizen Science Project



May 13, 2020



Join us on May 13th at 2 PM PT/5 PM ET for A Sense of Place: Using Citizen Science to Promote Student Wellness and Literacy a webinar with TASA Trevor Hance

As we celebrate 30 years of Teacher at Sea, we've been using the tagline "30 Years of New Frontiers". The changes brought by COVID-19 have presented all of us with a new frontier in almost every aspect of our daily lives. Like you, the Teacher at Sea program has been discovering how to chart a path through these unfamiliar waters, too.

As alumni have requested support via webinars, we decided to begin by reaching out to our own community of experts--you, the alumni--to get started. With your help, we are going to host our FIRST webinar, Wednesday, May 13th at 2 PM PT/5 PM ET!



National
Marine Sanctuary
Foundation

Inaugural TAS Alumni Webinar:

In May, TAS '15 Trevor Hance gave a webinar to other TAS alumni on using citizen science apps such as iNaturalist to engage students in science and encourage them to get out in nature.

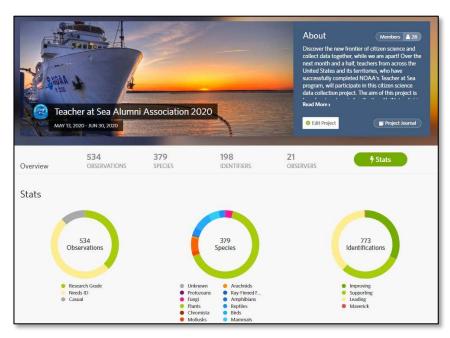




TAS Alumni Webinar & Citizen Science Project



May-August 2020



The webinar kicked off a **TAS Alumni iNaturalist campaign** ("project.") Through the project, 21 TAS alumni recorded 534 observations of 379 different species.







Great Lakes / Great Plains Teacher at Sea Alumni Meeting



October 31, 2020

- Attendees: 15 TAS alumni from 8 Great Lakes states plus South Dakota (Great Plains!)
- Agenda: Introductions, small group discussions, virtual science museum scavenger hunt

Since it was Halloween, participants were sorted into small groups by marine-theme hats





 Next step: 2021 Book Club discussion of The Death and Life of the Great Lakes by Dan Egan

DAN FGAN

DEATH AND

THE GREAT

LAKES



Alumni Perspectives #30YearsofNewFrontiers





"It was one of the most rewarding experiences I've had as a teacher, because I took a chance on myself... and it was completely different than the narrative I had in my head."

- TAS '17 Sian Proctor

Quote from TAS video <u>"30 Years of New Frontiers: Facing Your Fears"</u>



Alumni Perspectives #30YearsofNewFrontiers



"This is an opportunity to test yourself an to show yourself what you can do. You will come back feeling invigorated, with a head full of ideas, and with a new empathy for your students for being thrust into new situations and asked to make sense of them. Teacher at Sea is a safe and very worthwhile opportunity to challenge yourself to growth."

- TAS '06/'16 Barney Peterson



Quote from TAS Video <u>"30 Years of New Frontiers: Facing Your Fears"</u>



Alumni Perspectives #30YearsofNewFrontiers





"It's amazing how much everyone has done with either data that they collected or personal connections with scientists that they made while they were on board their ships. Talking with them and finding ways to then bring it all together and mesh it into new lessons is amazing."

- TAS '08 Tiffany Risch

Quote from TAS Video <u>"30 Years of New Frontiers: The Journey is Just the Beginning"</u>



Scientist Perspectives



"[Hosting a Teacher at Sea] is another way to see what you do through someone else's eyes and remind yourself how lucky we are sometimes to do the work we do." - Fisheries Biologist Kristin Hannan



Biologist Kristin Hannan examines a crab with TAS '14/'16 Spencer Cody and his students during their field trip to NOAA's Pascagoula Laboratory in 2019.

Quote from TAS Video <u>"30 Years of New Frontiers: Why Send Teachers to Sea?"</u>



Scientist Perspectives





Biologist Lisa Jones demonstrates a shark dissection for TAS '06/'16 Barney Peterson's class in Everett, WA.

"Having the Teacher at Sea participants come out with us, and spending this kind of intense time with them, has helped me hone my skills at outreach. I get to talk to real teachers that spend most of their time in the classroom. They've really helped us tighten up our outreach efforts."

- Fisheries Biologist Lisa Jones

Quote from TAS Video <u>"30 Years of New Frontiers: Why Send Teachers to Sea?"</u>



Looking Forward to the Future



- Hosting a virtual Mid-Atlantic
 Alumni Meeting in February 2021
- Supporting Alumni Association projects
- Monitoring COVID-19 shipboard safety protocols
- Analyzing TAS operations and logistics to sail teachers in 2022

