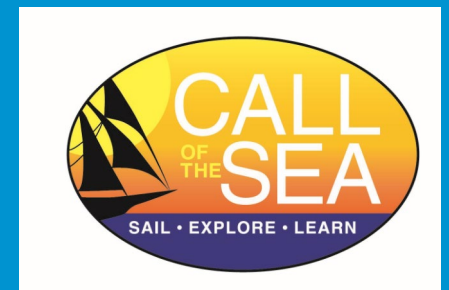
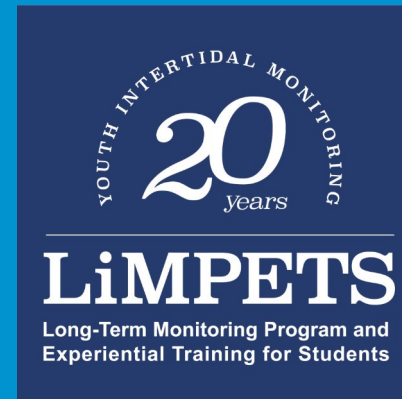




OCEAN EDUCATION IN THE REGION

Featuring resources from:



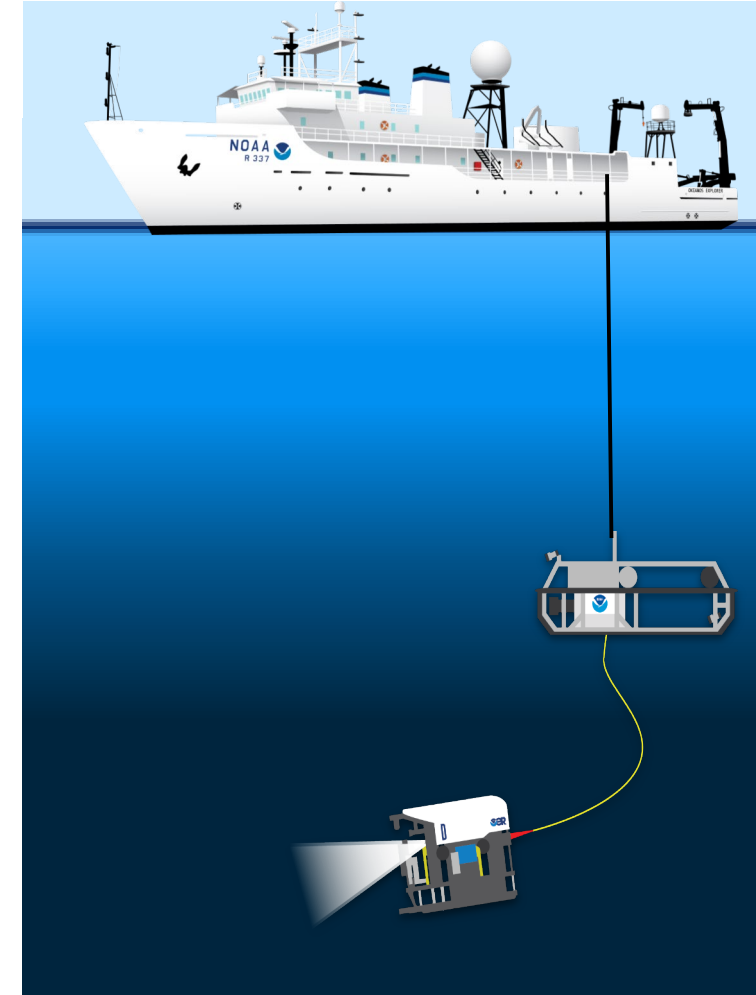
NOAA Ocean Exploration

Our Mission:

NOAA Ocean Exploration is dedicated to exploring the unknown ocean, unlocking its potential through scientific discovery, technological advancements, and data delivery.

Location:

- Headquartered in Silver Spring, MD
- Exploration operations organized in multi-year, regional campaigns. **Next location: Central Pacific.**
 - NOAA Ship *Okeanos Explorer* will be moving out to Hawaii and other central Pacific Islands beginning in April 2024 and will operate in the region for the next 3+ years!



Educational Resources

Explore Materials By Theme:

- Bioluminescence
- Cold Seeps
- Deep-Sea Corals
- Seafloor Mapping
- Seamounts
- Underwater Robots
- Vents and Volcanoes



Types of Resources:

- Lessons/Activities
- Print-friendly fact sheets
- Ocean Facts
- Video and Image Galleries

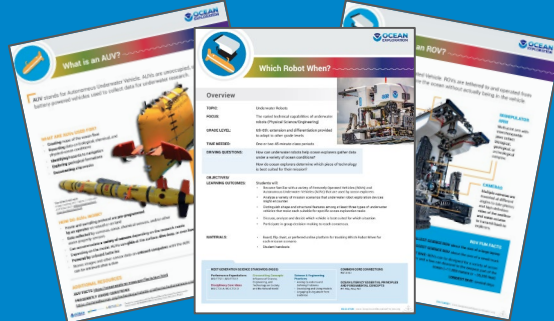


Featured Resources

Seafloor Mapping Fact Sheets



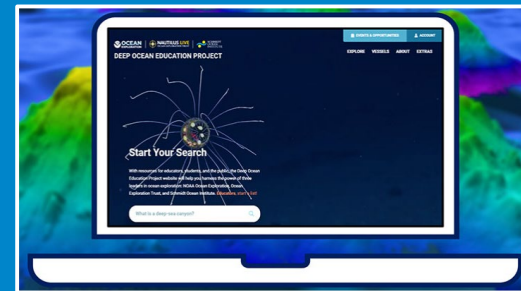
Underwater Robots Resources



Deep-Sea Dialogues Videos

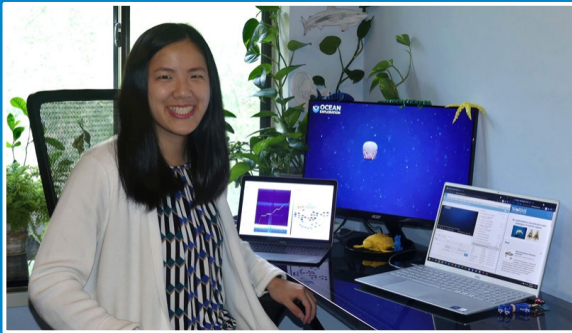


Deep Ocean Education Project



Opportunities to Explore With Us!

Follow Along in Real Time



Attend a Professional Development



Apply for an Internship or Fellowship



Explorer-in-Training
Applications are due
Jan 31, 2024



Local National Marine Sanctuaries

Our Mission: We protect treasured places in the ocean and Great Lakes.

Your ocean backyard is full of rich phenomena for student investigation.

Topics: *Biodiversity, ocean habitats, migration, carbon cycle, nature solutions/climate, cultural value, maritime history, animals, plants/algae, invertebrates, exploration, ocean features*



www.farallones.noaa.gov, www.cordellbank.noaa.gov

www.montereybay.noaa.gov



Sanctuary Visitor Center San Francisco

**Our Mission: Greater Farallones and
Cordell Bank National Marine Sanctuaries
Visitor Center features the ocean
ecosystem outside the Golden Gate.**

**Visitor Exhibits/School Field Trips/Special
Events Hours Wed-Sunday 10am-4pm**

Location: Crissy Field, San Francisco



<https://farallones.noaa.gov/>

At your School Programs

Our Mission: We bring ocean science to your classroom.

Crab Cab (K-3)

Seabird Shuttle (3-5)

Sharkmobile (4-6)

Otters and Ocean Germs (5th-7th)

Ocean Acidification: A Sea of Change (7th-12th)

Fisherman in the Classroom (7th-12th)

Deep Sea Corals (9th-12th)

Winged Ambassadors (8th-12th)

Contact Peter Winch

(pwinch@farallones.org) or 415 530 5352

Fees apply, Scholarships Available



Winged Ambassadors: Students analyze an albatross bolus



Fisherman in the classroom



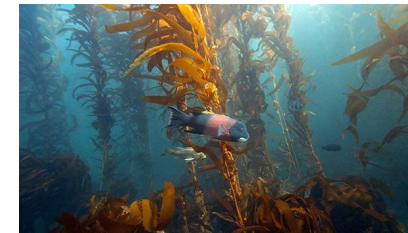
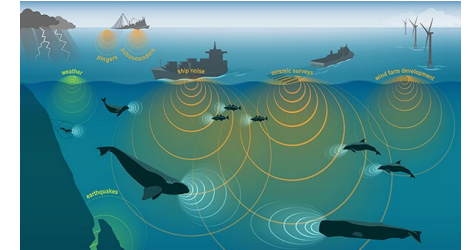
<https://farallones.noaa.gov/>

Sanctuary Education Resources

Sanctuary Resource Collections bring together NOAA videos, lesson plans, webinars, web stories, virtual reality and photos for educators.

Themes:

Seabirds	Marine Debris
Coral Reef Ecosystems	Ocean Acidification
Climate Change	Ocean Sound and Impact of Noise
Dolphins, Whales	Sea Turtles, Sharks
Kelp Forests	Shipwrecks



<https://sanctuaries.noaa.gov/education/teachers/resource-collections.html>

NOAA Ocean Guardian Schools

What does it mean to be a NOAA Ocean Guardian School?

A NOAA Ocean Guardian School (OGS) makes a commitment to the protection and conservation of its local watersheds, the world's ocean, and special ocean areas, like national marine sanctuaries. The school makes this commitment by proposing and then implementing a school- or community-based conservation project.

Location: Nationwide! We currently have 72 schools across 14 states and 3 U.S. Territories participating in the NOAA Ocean Guardian School Program.

- Up to \$4,000 available to schools who propose & implement a conservation project (annually).
- Applications for 2024 - 2025 open April 1, 2024 on the NOAA Ocean Guardian School website. The deadline to apply is June 1, 2024.
 - Selected schools are notified by mid-Summer 2024.



sanctuaries.noaa.gov/education/ocean_guardian/



BWET

Our Mission: The CA B-WET Program provides competitive funding to support locally relevant, authentic experiential learning for K-12 audiences. Funded projects focus on “meaningful watershed educational experiences”.

Location: Counties of San Mateo, Santa Cruz, Santa Clara, Monterey, San Benito, and San Luis Obispo, Marin, San Francisco, Alameda, Contra Costa, Sonoma, Mendocino, Humboldt, Del Norte, Trinity, Napa and Santa Rosa, Santa Barbara and Ventura





Statewide Community Science Program that aims to inspire the next generation of ocean stewards by fostering a sense of belonging in coastal ecosystems and empowering them to be scientists.

LiMPETS

**Long-Term Monitoring Program and
Experiential Training for Students**



**GREATER
FARALLONES
ASSOCIATION**

PACIFIC GROVE
**MUSEUM
of NATURAL
HISTORY**

www.limpets.org



Programming = 90 min Virtual Protocol Training + 2.5 hour data collating field trip

Sandy Beach Monitoring

Grades 6th - College

**Focus: Sand Crab Populations,
Environmental Observations**



Rocky Intertidal Monitoring

Grades 9th - College

**Focus: Biodiversity, Sea Stars,
Anemones, Zonation**

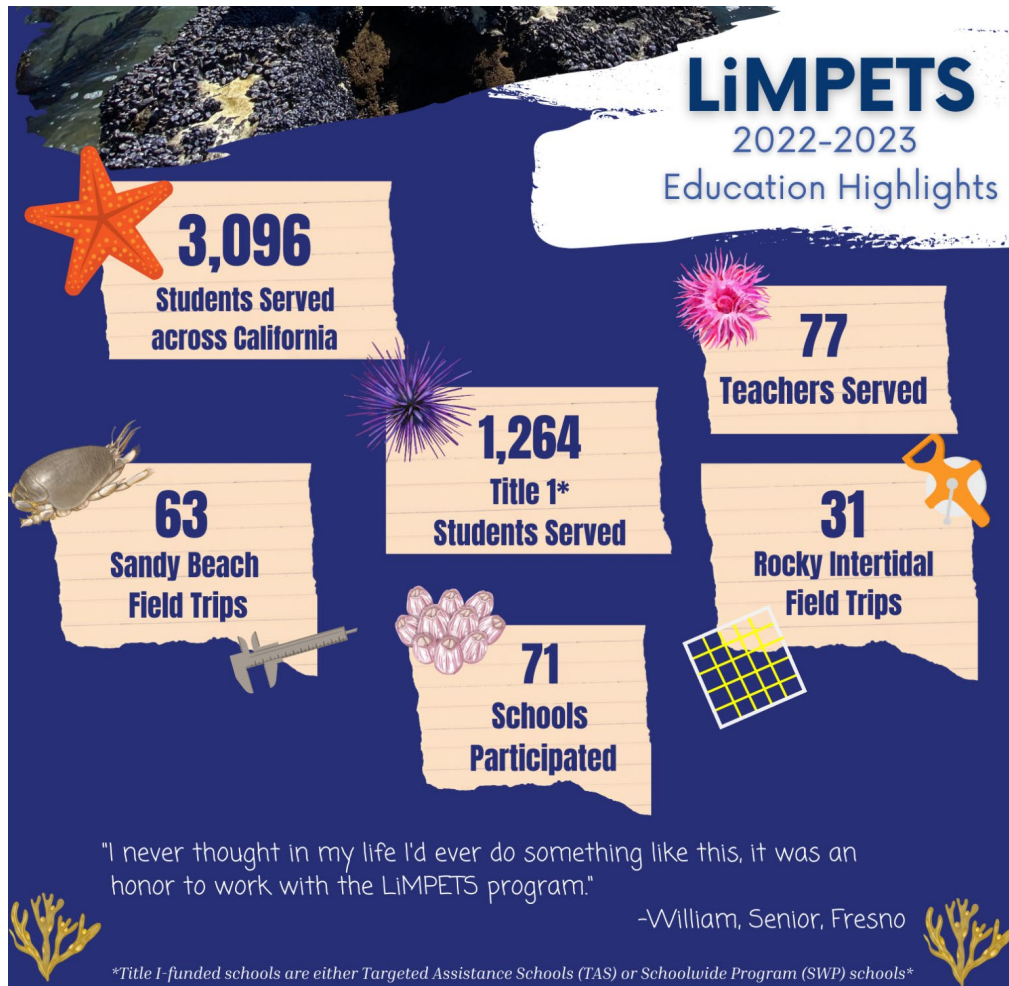


**GREATER
FARALLONES
ASSOCIATION**

**PACIFIC GROVE
MUSEUM
of NATURAL
HISTORY**

LiMPETS

Long-term Monitoring Program and
Experiential Training for Students



Teacher Requirements & Resources

- Attend 1 Training Workshop (every 3 years)
 - Sandy Beach, annually Fall
 - Rocky Intertidal, annually Winter
- [LiMPETS.org](https://limpets.org)
- Curriculum meets NGSS
- Teacher Portal
 - Lessons
 - Worksheets & Activities
 - *Soon to be added *Bilingual Materials (Spanish)*



GREATER
FARALLONES
ASSOCIATION

PACIFIC GROVE
MUSEUM
of NATURAL
HISTORY



www.LIMPETS.org

 [@limpetsnews](https://www.instagram.com/limpetsnews)

Northern Region

San Francisco Bay Area
Sites: Half Moon Bay -
Sonoma Coast

Jaclyn Schneider
limpets@farallones.org

Central Region

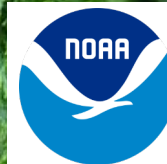
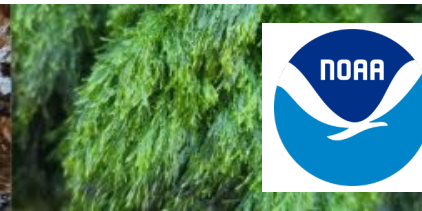
Monterey Bay Area
Sites: Big Sur to Santa
Cruz

Hannah Sarver
sarver@pgmuseum

Southern Region

Channel Islands
Sites: Ventura to Santa
Barbara

Keighley Lane
keighley.lane@noaa.gov



GREATER
FARALLONES
ASSOCIATION

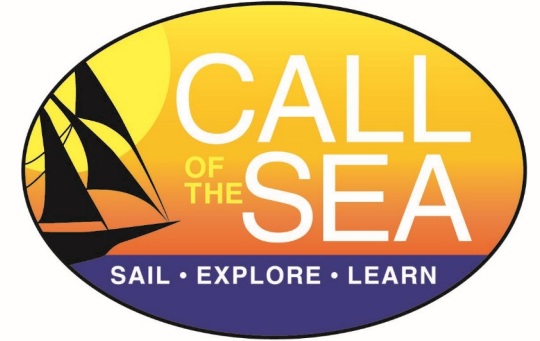
PACIFIC GROVE
MUSEUM
of NATURAL
HISTORY

CALL OF THE SEA

Our Mission:

Our mission is to provide inclusive and equitable access to on the water science- based educational programs that foster the connection to watersheds, ocean environments & nautical heritage.

Location: Bay Model Visitor Center, Sausalito, CA



www.Callofthesea.org

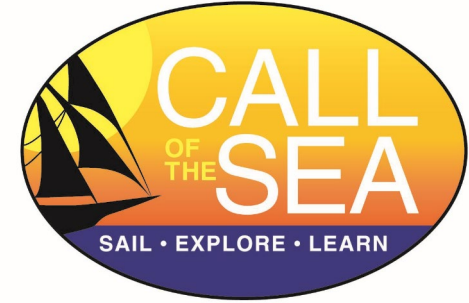
CALL OF THE SEA

Our Programs:

- 3 hour Bay Exploration on-the-water Field trips
- 4 hour team building seamanship programs
- Full day Farallones Sails
- Week long youth summer camps
- Weekend Community Sails

Our Curriculum:

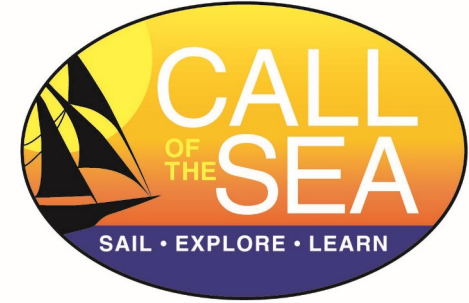
- Marine Biology and Ecology
- Nautical Science
- Marine Engineering
- Maritime History
- Sustainability



CALL OF THE SEA

Our Ships:

- Schooner Seaward accommodates up to 34 students + 6 chaperones
- Brigantine Matthew Turner accommodates up to 55 students + 10 chaperones



How to schedule a field trip for your students:

- Call us at 415-331-3214
- Email info@callofthesea.org
- Check us out online at www.callofthesea.org
- Join us on an educator's sail, free to teachers and educators
- Learn about pricing and Call of the Sea's scholarship program



www.Callofthesea.org

Sailing Science Center

Our Mission: To inspire a passion for sailing and science through discovery and play

Location: *We come to you* via our custom, 16-foot trailer.



<https://www.sailingscience.org/>

Sailing Science Center

Our Programs: The Sailing Science Center provides hands-on, interactive STEAM learning (and play!) experiences through the lens of sailing. Our programs come to you on a scheduled basis for groups up to 105 students (35 students in three sessions).



Sailing Science Center

Contact Us:

info@sailingscience.org

(510) 390-5727



<https://www.sailingscience.org/>



The Marine Mammal Center®

The Marine Mammal Center

advances global ocean conservation through marine mammal rescue, rehabilitation, scientific research, and education.

<https://www.marinemammalcenter.org/>

The Marine Mammal Center

Visit Us in Sausalito!

- Open Friday-Monday 10am-4pm
- Free to visit
- Guided tours available



Visit Us at Pier 39!

- Connect with our conservation experts at K-Dock
- The Sea Lion Spot opening summer 2024

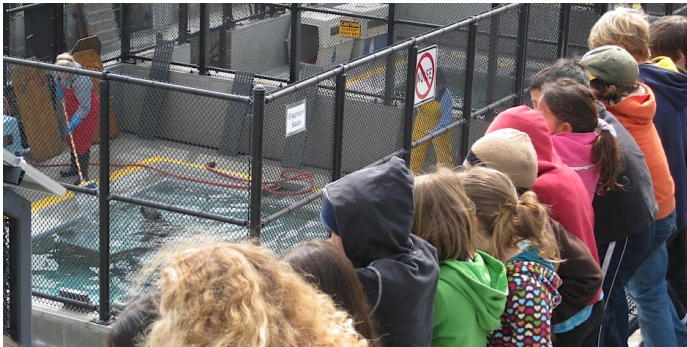


The Marine Mammal Center

School Program Offerings:

- **School Tours**

- 4th - 12th grade
- February - June



- **Online Resources/Curriculum**



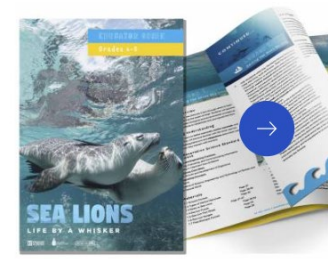
Growing Up on Ice Education Guide:
Grades 6-8



Marine Mammal Monday: Marine Mammal
Goop



Hawai'i Virtual Tour 'Ohana Challenge



Life By a Whisker Education Guide:
Grades 6-8



The Marine Mammal Center

Middle School Programs

- [Ocean Ambassadors](#) is an award-winning marine science program that provides Bay Area middle school teachers access to Next Generation Science Standard-connected curriculum, resources and professional development throughout the academic year.



- [Nā Kōkua o ke Kai](#) is a Hawai'i-focused marine science program that provides middle schools access to curriculum that is connected to Next Generation Science Standards, Nā Hopena A'o (HĀ) Framework, Ocean Literacy Principles, and 'Ōlelo No'eau (Hawaiian proverbs and poetical sayings).

The Marine Mammal Center

High School Programs:

- **Youth Crew**

- Ages 15-18
- 8 months: animal husbandry and public engagement



- **Stewardship Saturday**

- Free events
- Last Saturday of every month
- Themes: community awareness, restoration and protection, stewardship science

Questions?

NOAA Ocean Exploration: Liz Hoadley (liz.hoadley@noaa.gov)

