



BayEcotarium is a 501(c)(3) non-profit organization with a mission to enable climate resilience and ocean conservation globally, while inspiring actionable change locally. We work to protect and restore the San Francisco Bay and its ecosystems, from Sierra to the Sea™. educating visitors from the Bay Area and around the world about marine ecosystems and conservation solutions is at the core of our mission. We are driven to instill a strong sense of environmental stewardship in the communities we serve.

Our institution is the largest watershed conservation organization in northern California and focuses on enabling climate action.



Aquarium of the Bay



Bay Academy



Bay Model Alliance



Sea Lion Center



Studio Aqua



The Bay Institute

EXPLORE ENGAGE EXPERIENCE

April, 2021



We have designed the Ecotarium Expeditions As part of our global climate and ocean conservation outreach. The main focus is to provide a hands-on and immersive experience to initiatives around the world that are making a positive impact on climate resilience and ocean conservation. This has the power to change the perspectives of participants and evoke an appreciation for environmental stewardship.

Expeditions are led by BayEcotarium's Dr. Dayne Buddo, Marine Biologist and Director of the Bay Academy. He will be supported by local experts in Hawai'i who have many years of experience. This provides the opportunity to have subject matter experts with participants throughout the entire Expedition and be involved with authentic scientific research on coral restoration, shark conservation and marine protected areas. This involves training in all aspects as well as an outreach component, where climate action science interfaces with local communities. In addition, this provides a facilitated exposure to cultural, historical and other nature-based activities.





O'ahu's nickname is Gathering Place, which is perfect for an island like this. Visitors flock to this island to relax on the beach, do some surfing, snorkeling, or diving, or to experience its famous nightlife. However, it is also a place of historical significance, with the historic China Town in Honolulu, the Pearl Harbor Memorial, and of course, Pearl Harbor itself. For those who like hiking/ trekking, there are also all sorts of trails and guided tours of the island as well.

O'ahu is the most urban of the Hawaiian Islands, containing two of the most popular cities—Honolulu, the capital, and Waikiki, renowned for its beaches and nightlife. Home to roughly one million people, O'ahu makes up 1/3 of the state's population. The island is made up of two separate shield volcanoes, with a broad valley between them. Geographically, it is the third largest Hawaiian island, behind the Big Island of Hawai'i and Maui.



Hawai'i is also at the forefront of coral restoration efforts throughout the world. In 2019, Hawai'i suffered its third mass bleaching event in the past five years, which is far from normal.

At the Gates Coral Lab, they are currently studying assisted evolution, essentially seeing if they can create "super corals", corals that have been genetically adapted to make them resistant to warming ocean waters and other effects of climate change. They are also leading efforts in data analysis of the reefs—measuring abiotic factors like salinity, temperature, and seawater nutrient composition, as well as monitoring the health of the reef itself with photographs & tissue samples. At Pacific RISA's Coral Restoration Nursery, they are growing indigenous species of corals and out-planting them back onto the reef. In the wild, most of Hawai'i's species are slow growing, but the nursery has been able to skip ahead 20-25 years using a "Fast-Growth Protocol".

When diving, you will observe coral restoration initiatives, identify sharks, conduct coral reef assessments, swim through ancient lava formations, visit shallow wrecks, and see a wide variety of marine life including eagle rays, eels, white-tip reef sharks, vibrant reef fish, sea turtles and more.



## APRIL 2

### TIME

### ACTIVITY

2PM

Arrival, lei greeting, transfer to Waikiki hotel the Queen Kapiolani

3PM

Welcome Cocktail and overview of program with Dr. Dayne Buddo, and AltruVistas

5:30PM

Interactive, place-based & celestial orientation mapping experience with Ho Mai Ka Pono

7:30PM

Dinner and guest speaker from the PVS (the Polynesian Voyage Society)

## APRIL 4

### TIME

### ACTIVITY

8AM

Breakfast and depart hotel

9AM

Sailing experience with Holokino, Austin Kino (Hokule'a)

12:30PM

Lunch

2PM

Visit to Moku o Lo'e - Institute for Marine Biology. Visit the coral nursery in Kaneohe. Complete lab on Coral Restoration/Ocean Acidification

6PM

Dinner at restaurant

## APRIL 6

### TIME

### ACTIVITY

7AM

Breakfast and depart hotel

8AM-12PM

Coral Restoration (2 dives)

1PM

Lunch

2PM

Dive de-briefing and data review

6PM

Dinner

## APRIL 3

### TIME

### ACTIVITY

8AM

Breakfast and depart hotel

9:30AM

Guest speaker - UH Manoa, School for Hawaiian Studies

11AM

Tour of UH Manoa, School for Hawaiian Studies garden

12PM

Lunch

1:30PM

Tour of Arboretum

3:30PM

Discussion with City of Honolulu representative to discuss climate change, sea level rise and conservation

5:30PM

Dinner with special guest

## APRIL 5

### TIME

### ACTIVITY

7AM

Breakfast and depart hotel

8AM-12PM

Underwater Reef Surveys 2 dives

1PM

Lunch

2PM

Dive de-briefing and data review

6PM

Dinner

## APRIL 7

### TIME

### ACTIVITY

7AM

Breakfast and depart hotel

8AM-12PM

Snorkeling with sharks

1PM

Lunch

2PM

Snorkeling with sharks

6PM

Dinner

# ITINERARY

April, 2021



## APRIL 8

### TIME

### ACTIVITY

7AM

Breakfast and departure

8AM-12PM

Underwater Reef Surveys  
2 dives

1PM

Lunch

2PM

Dive de-briefing and  
data review

6PM

Dinner

## APRIL 10

### TIME

### ACTIVITY

8AM

Breakfast, check out and  
Airport transfers

Cost: \$7,000 USD

Includes:

- All confirmed activities in the program
- Lodging as per the program
- On-ground transportation by air-conditioned motor coach
- Domestic flight
- Airport transfers or pick up and drop off on arrival and departure days only (folks that arrive early will take a taxi). One group transfer only.
- One full-time in-country leader in Hawaii
- Expedition Lead Scientist (from BayEcoarium) and local scientific experts working with the group for the program
- Preparatory reading and orientation materials
- Admission to all programmed activities
- Funds for group donations and honoraria to NGOs, projects and speakers
- Accommodation and meals for guide and driver in the provinces
- Tips for group meals
- All meals as per the itinerary
- Luggage transfer (at owner's risk throughout). Baggage allowance depends on the airline.

## APRIL 9

### TIME

### ACTIVITY

8AM

Breakfast and departure

9AM

Observations of Lo'i kalo -  
ancient agriculture systems

12:30PM

Lunch

2PM

Hike to Ka'ena Point  
Field assignments  
(Albatross banding and nest  
checking)

5:30PM

Arrival at hotel

7:30PM

Wrap-up and  
Farewell Dinner

DOES NOT INCLUDE (Each participant is responsible for these charges):

- Roundtrip airfare to Hawaii (HNL) and departure taxes
- Scuba gear rental
- Expenses of a purely personal nature.
- Passport or visa fees
- Room service charges.
- Gratuities to hotel staff, and to your guide and driver
- Travel Insurance (We advise that each participant arrange for their own travel insurance especially for CFAR - Cancel for Any Reason).
- Extra beverages or snacks, and extra meals not on the itinerary
- Single rooms will be available and there will be a supplemental fee for the 9 nights or \$500.



## PARTICIPANT REQUIREMENTS

### Scuba Diving

1. Participants should have at least PADI Advanced Open Water Diver certification (or equivalent) with at least 20 logged dives; last dive should be within the previous 3 months prior to the Expedition.
2. Additional Training and dive experience can be provided by Bay Academy at an additional cost, if required

### Health and Medical Insurance

1. Have insurance to cover diving emergencies, such as Divers Alert Network (DAN) Insurance, or similar
2. Complete a Diving Medical to confirm Fitness to Dive

TAKE THE NEXT STEP AND MAKE A HANDS-ON DIFFERENCE IN MARINE SCIENCE & OCEAN CONSERVATION!

Email [sales@bay.org](mailto:sales@bay.org) to register today or for more information