

COMPLETION REPORT

1. **Project Title:** Environmental Education: Saving Kahalu‘u Bay
2. **Organization:** The Kohala Center
P.O. Box 437462
Kamuela, HI 96743

Principal Investigator: Dr. Elizabeth Cole, Ed.D.
Deputy Director
Phone: 808 887-6411
Fax: 808 885-6707
Email: cole@kohalacenter.org

3. **Award Number:** NA06NMF4630106
4. **Project Term:** October 1, 2006 – September 30, 2007

5. **Project Summary:**

Kahalu‘u Bay County Park is a premier snorkeling site on the Island of Hawai‘i, receiving over 450,000 visitors each year. Its shallow, protected nature and high diversity of reef fish make it an ideal place to experience the vast diversity of life on a coral reef. Unfortunately, the corals growing in this protected area are among the least able to withstand and recover from contact damage caused by trampling or other anthropogenic impacts. This heavily-used site is an ideal location at which to focus a model educational effort that changes human behaviors to protect this reef and all other tropical reefs that the visitors may potentially experience.

The Kohala Center for Pacific Environments initiated the program *Environmental Education: Protecting Kahalu‘u Bay* with \$50,000 in funding support from NOAA’s General Coral Reef Conservation Grants Program in October 2006. Other major cash contributors to this project include Hawai‘i Tourism Authority (\$50,000); Keauhou Resort - Bishop Holdings (\$25,000); Hawai‘i County R&D (\$15,000); and numerous smaller and anonymous donors. The objective of this project is to protect the reef environment at Kahalu‘u Bay and throughout Hawai‘i by addressing NOAA Program Priority *f: Public Education and Outreach Activities*. The project addresses this objective by providing scheduled and publicized reef encounter education at Kahalu‘u Bay Beach Park, and other public outreach and actions targeting the reef community.

This collaborative public program informs Kahalu‘u Bay users on enjoying the bay without impacting the fragile coral reef environment. Key elements of the program included a multi-faceted advisory and volunteer board of stakeholders from public and private sectors, on-site educational programs with follow-up monitoring, signage and displays, a radio and print media campaign, K-12 in-school and after-school coral reef learning opportunities based on Kahalu‘u Bay, creation of handout flyers for the tourist industry to inform visitors about the reef education program at Kahalu‘u Bay, with advice on proper water sport techniques to avoid injury to the reef or individual.

7. Purpose

This program was designed to result in behavior change among the 400,000 Bay users, and engender an understanding of the importance of global coral reef ecosystems and marine conservation issues. Coupled with the on-site education program was an extensive public outreach program aimed at the tourism industry, full and part-time residents, and the public and private schools in the area. It was the purpose of this outreach segment to better inform the general public and reef users of Hawai‘i Island through the development and distribution of specific, place-based literature and public displays that highlighted the various threats to the hard corals in Kahalu‘u Bay and the entire Hawaiian marine ecosystem. Outcomes were: improved protection for the hard corals and associated environment at Kahalu‘u Bay and throughout Hawai‘i; more public knowledgeable in coral reef ecology; increased public support for coral reef and marine resource conservation efforts; and a model for public education, outreach, and preservation programs at heavily trafficked coral reef sites throughout the Pacific region.

8. Activities

Project activities included five distinct areas of activity. These were:

- Establishing a Kahalu‘u Bay Advisory Board;
- Establishing Onsite Education Programs at Kahalu‘u Bay;
- Installing permanent on-site displays and signage;
- Providing a full-time coordination for the effort; and
- Developing and implementing a public outreach effort.

Accomplishments are tied to these five activities.

9. Accomplishments

- **Establish a Kahalu‘u Bay Advisory Board** – The Kahalu‘u Bay Advisory Group is fully formed and meets regularly to review project initiatives and to plan for the future. This Advisory board provided the foundation and working group that led to the development of the fifteen-year plan for Kahalu‘u Beach Park at the request of a Hawai‘i County Council member in whose district the park lies. Current organizations actively taking part in this Advisory Group include: County of Hawaii Department of Parks and Recreation, Hawaii State Department of Aquatic Resources—Department of Land and Natural Resources, Hui Ho‘oniho, Keauhou Resort — Bishop Holdings/Kamehameha Investments, The Kohala Center, Kona-Kohala Chamber of Commerce, Malama Kai, National Oceanic and Atmospheric Administration, National Park Service Ala Kahakai National Historic Trail, Outrigger Keauhou Beach Resort, University of Hawai‘i Sea Grant College Program, and West Hawaii Girl Scouts.

Additionally, organizations and businesses currently supporting the project by offering discounts to ReefTeach volunteers, donating materials or selling needed items at greatly reduced cost to the project, as well as outright monetary donations include:

Ali‘i Massage Center
Anuenue Nursery
Big Island Jewelry
County of Hawaii Department of Parks and Recreation
Department of Aquatic Resources—DLNR

Dolphin Discoveries
Edward Jones Investments
Fairwinds
For the Sea Productions
Hawai‘i Forest and Trails
Hawai‘i County Council (funding)
Hawai‘i County Dept. of Research & Development (funding)
Hilo Hattie
Hui Ho‘oniho
Indich Collection
Island RV
Jacks Diving Locker
Keauhou Resort--Bishop Holdings (funding)
Kona Boys Inc.
Kona-Kohala Chamber of Commerce
National Oceanic and Atmospheric Administration (funding)
National Park Service Ala Kahakai National Historic Trail
Norwegian Cruise Lines
Outrigger Hotels & Resorts
Red Sail Hawai‘i
Sea Wife Charters
Sheraton Keauhou Bay Resort
The Club in Kona
University of Hawai‘i Sea Grant College Program
West Hawai‘i Explorations Academy
West Hawai‘i Girl Scouts.

- **Establish Onsite Education Programs at Kahalu‘u Bay** – The ReefTeach volunteer program trained volunteers of all ages (Elementary School through Seniors) to teach visitors to Kahalu‘u Beach Park about the cultural and ecological importance of coral reefs. The program encouraged positive interaction and instruction, rather than a negative oversight approach to visitors who may have never snorkeled or explored a coral reef in their lives. Ninety-seven ReefTeach volunteers were trained during the period of this grant. At the end of the project period, teaching on site was provided by volunteers during the peak hours of 10:00 a.m. to 1:00 p.m. at the beach park.

Once a week the volunteers collect data on the number of people in Kahalu‘u Bay Park at 10:30am, 12:00 noon and 1:00pm. At the same time, the number of Bay users participating in ReefTeach activities and that the volunteers have spoken with about reef etiquette, is recorded. Although it is sometimes difficult to get volunteers to record data on their activities, the tally sheets suggest that an average of 121.75 people are contacted during the 2.5 hour core period on any given day, averaging 44 individual contacts per volunteer.

Over 120 volunteers have participated in the ReefTeach or supporting programs, and 30 businesses and other organizations are supporting the program with services, in-kind

donations, or monetary support. Coral Reef Awareness Day took place at Kahalu‘u on April 21, 2007 in collaboration with the Kona Girl Scouts, and was attended by over 400 people.

Outreach into the public schools under this program included classes at Konawaena High School attended by 140 students, and classes at Innovation School attended by 120 students.

Public talks on marine topics and cultural events at Kahalu‘u Beach Park have continued during the reporting period as has the monthly La ‘Ike Kahakai O Kahalu‘u cultural programming under separate funding. These La ‘Ike events include ReefTeach sessions as well as experiential opportunities for visitors to learn arts and crafts associated with Native Hawaiian relationships to the ocean. ReefTalks have increased even through the summer (low visitor) season. ReefTalks at Kahalu‘u Beach Park have included: “*Recent Billfish Discoveries off the Kona Coast*” by Dr. Andrew West, “*Coastal Processes*” by Dolan Ebersole, “*Sea Level Rise*” by Zoe Norcross, “*Whales and Dolphins*” by Dr. Robert Baird, and “*Activities at Natural Energy Labs of Hawai‘i Authority*” by Jan War.

- **Install Permanent On-site Displays and Signage** – Permanent. Stand-alone signage has been created and installed at the park to educate visitors about marine life and about how to behave while swimming along the reef. The design process included extensive participation by Kahalu‘u stakeholders, and the two large signs were installed in July. The signs are resistant to both human impacts and the impacts of the ocean and near-shore environment, tropical sun, tropical storms and shifting sands. These educational and informational signs include specifics on reef life in the bay, safe ingress and egress points, proper reef viewing etiquette, requirements relating to the resident endangered green sea turtles, and information on the transient endangered Hawaiian Monk Seals. These signs are in addition to the extensive lobby Coral Reef Etiquette displays currently being designed under separate funding for the adjoining Outrigger - Keauhou Beach Resort owner by our collaborating organization – Kamehameha Investments.
- **Provide a full-time coordination for the effort** – Cindi Punihaole Kennedy, a kama‘aina of this specific ahupua‘a continues in the role of full-time project coordinator. Among other duties, she oversees the ReefTeach, La ‘Ike day and Outreach efforts, meets key stakeholders associated with Kahalu‘u Bay. She was joined by Steve Coffee, a marine scientist and educator, who works part-time and has assumed the duties of training ReefTeach volunteers and overseeing their outreach to the Bay users. Steve is employed on this project 25% FTE.
- **Develop and implementing a public outreach effort** – Educational materials developed for this program include a revised Kahalu‘u Bay information and Coral Reef Etiquette brochure, *Exploring and Protecting the Coral Reef at Kahalu‘u Bay*. A portable DVD player was obtained to provide Bay users with immediate access to the Reef Etiquette DVD produced by For the Sea Productions and other locally produced videos of interest. This 7-minute reef etiquette spot is now shown 8 times a day on Big Island Television (Channel 9) with funding provided to the project by Hawai‘i County. Print media ads are posted routinely to announce activities and schedules at Kahalu‘u Bay. Posters and handouts have been created for use by volunteer Kahalu‘u Bay ReefTeachers and posted both at the snorkel rental facility at Kahalu‘u Beach Park and on the buses that bring visitors from the cruise ship dock to the

Park. The Kahalu'u Bay Project Coordinator is working with cruise ship officials to provide brochures and the Coral Reef Etiquette DVD onboard prior to visiting the bay. An onsite library has been developed, consisting of fish, coral, reef inhabitants and seaweed identification books for use by volunteers and the general public.

10. Issues and Digressions – There are no new issues or digressions from the project plan of action to report.

Attached are copies of the signage and brochures described above.



© David Kearnes | diverdiave.smugmug.com

WELCOME TO YOUR NEW OFFICE.

We have openings for Reef Teachers at The Kohala Center. Your job is to educate visitors and snorkelers about the importance of healthy reefs and how to avoid damaging delicate corals.

We're recruiting volunteers now. And the best part, you make your own schedule.

For more information, contact Cindi Punihaole-Kennedy at 895-1010 or cpunihaole@kohalacenter.org.

KAHALU'U BAY PROJECT

A project managed by The Kohala Center, www.kohalacenter.com

SPONSORED BY

Hawai'i Tourism Authority • Keauhou Resort
National Oceanic and Atmospheric Administration
Outrigger Hotels & Resorts • West Hawai'i Girl Scouts
The University of Hawai'i Sea Grant College Program

Hanau ka 'Uku-ko'ako'a, hanau kana, he 'Ako'ako'a, puka

Born was the coral polyp,
born was the coral...



© David Kearnes

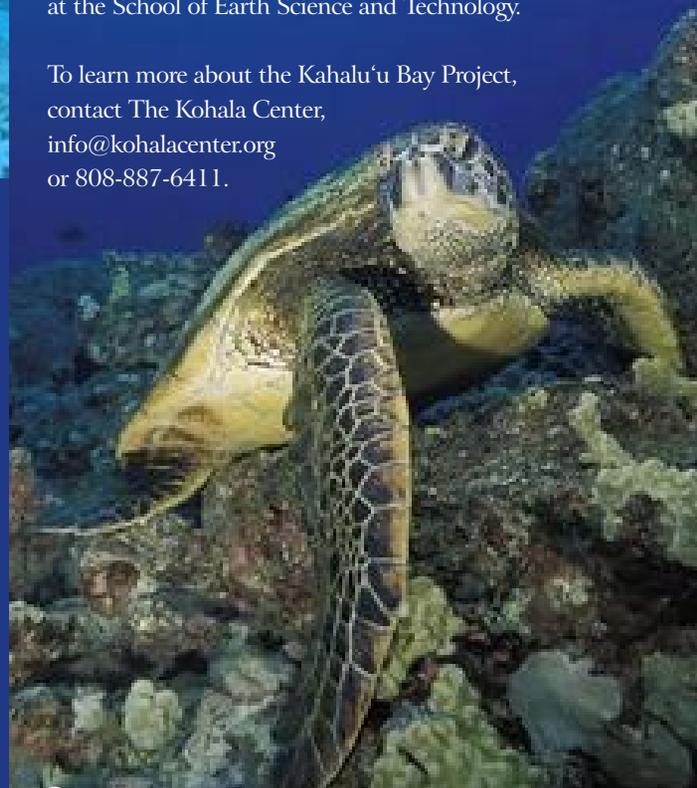
Coral reefs have been an important part of Hawaiian culture for many generations. As you take time to enjoy one of our most beautiful natural resources, keep in mind that the reefs are extremely fragile living organisms. With your help and care, we can continue to protect the reef for future generations to enjoy.

Malama Ke Kai

Take care of our ocean.

This brochure was produced by The Kohala Center with the generous support and assistance from For the Sea Productions, Hawai'i Tourism Authority, Keauhou Resort, National Oceanic and Atmospheric Administration, Outrigger Keauhou Beach Resort, West Hawai'i Girl Scouts, and University of Hawai'i Sea Grant College Program at the School of Earth Science and Technology.

To learn more about the Kahalu'u Bay Project, contact The Kohala Center, info@kohalacenter.org or 808-887-6411.



Logo Printed on 100% Recycled Paper.

© David Kearnes

Exploring and Protecting the Coral Reef at Kahalu'u Bay



© James Watts



What is coral?

© Ziggy Livnat

A coral is really a “city” of individual reef-building animals called polyps connected to each other by a thin layer of tissue. These soft-bodied animals, related to sea anemones and jellyfish, are just like any other marine animal—they eat, grow and reproduce.

Coral is alive and fragile.

As the coral polyps grow, they secrete a substance that hardens to form the rigid coral structure.



© David Kearnes

The large coral heads that you see around the reef are the result of hundreds of years of growth.

Coral is crucial.

Coral reefs are among the most diverse ecosystems in the world. Sometimes called the “rainforests of the sea,” they supply shelter and food to abundant species of marine life, protect



© David Kearnes

beaches from erosion, and even provide for important scientific discoveries in medicine and human health.



Protect our reefs.

© Ziggy Livnat

From the earliest of times, ancient Hawaiians have understood and honored the importance of living coral as the foundation for many other forms of sea life.

Coral is easily damaged.

Coral tissue is easily damaged when touched, scraped or stood upon. These coral reefs are extremely delicate and rare. Their very existence is threatened, not just at Kahalu‘u Bay, but the world over. Please continue our Hawaiian traditions by respecting the living corals.



© James Watt

© David Kearnes

© James Watt

© David Kearnes

© James Watt

© David Kearnes

The coral reefs of Hawai‘i are home to an estimated 5,000 animal species, with an estimated one-fourth of these species not found anywhere else in the world.

E malama I na ko‘a ke kai

Protect our coral reefs.

HERE ARE FIVE EASY WAYS YOU CAN HELP PROTECT THE LIVING REEF:

AVOID STANDING ON OR TOUCHING CORAL.



© Ziggy Livnat 07

Touching or standing on coral will damage or kill the coral polyps and the reef they construct. To adjust your mask during snorkeling, or to rest, please find sandy or rocky bottom on which to stand. Also, be aware of your fins so that you do not accidentally kick corals.

DO NOT FEED THE FISH.



© Ziggy Livnat 07

Fish play an important role in keeping the reef clean through what they eat. Feeding the fish disrupts their natural behavior. Some fish become aggressive, others get sick.

APPLY WATERPROOF SUNSCREEN 15 MINUTES PRIOR TO ENTERING THE WATER.



© Andrew Walsh

Give the sunscreen time to absorb before entering the water. This helps protect your skin as well as reef life from the oily residues sunscreen leaves in the water.

DO NOT DISTURB THE TURTLES.



© Ziggy Livnat 07

The green sea turtle feeding and resting at Kahalu‘u Bay is an endangered species, so please keep your distance. Make sure your actions don’t chase them away, so that others may have the opportunity to experience these animals too.

Note: Under both Federal and Hawai‘i State laws it is illegal to harass or harm sea turtles.

THROW AWAY YOUR TRASH.



© Wolcott Henry 2005

Trash left on the beach ends up in the ocean and harms sea life.

Guidelines for visiting Kahalu'u Bay

 When snorkelling or diving you should not touch, walk on, stand or break live corals. If you need to stand, stand on sand or rock and try not to touch anything.

 Try not to kick up sand or sediment: it blocks sunlight that is essential to the reef.



 Do not remove anything from the reef. Taking live coral or rock with attached marine life is illegal in Hawaii.

 Fish feeding upsets the natural ecosystem balance and can be harmful to fish. It is also illegal.

 Use environmentally friendly sunscreen and put it on at least 15 minutes before you enter the water.

 Dispose of your trash properly! Plastics in the water can damage and kill marine life.

 Observe sea turtles on the shore from a distance of at least 20 feet.

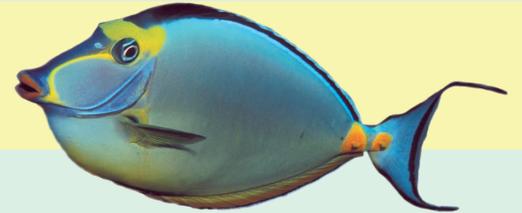
 Do not disturb resting turtles on the ocean floor, under ledges or on rocks.

 Give swimming turtles space and do not touch them.

 Report any turtle mistreatment to DOCARE 974-6208. If you see a sick, injured or dead sea turtle stranded on land, call 881-4200 or 327-4961.

 Smoking is not allowed on this beach.

What you can do!



 Become a ReefTeacher.

 Support conservation organizations and programs. If you would like to donate to the ReefTeach project contact Cindi Punihaole at 808-895-1010 or cpunihaole@kohalacenter.org

 Support reef-friendly businesses and encourage businesses to support reef management and education activities.

 Learn more about our reefs so you can help others understand the value of reefs in Hawaii. Spread the word!

 Report dumping, poaching or other illegal activities.

 Never anchor directly onto reefs; anchor in sand or tie up to a mooring.

 Take steps to decrease overfishing- support sustainable fishing practices.

 Support legislation to protect Hawaii's reefs and inform yourself about existing laws.



 Get involved in monitoring and preventing marine water pollution- minimize your own sewage and runoff to start with.

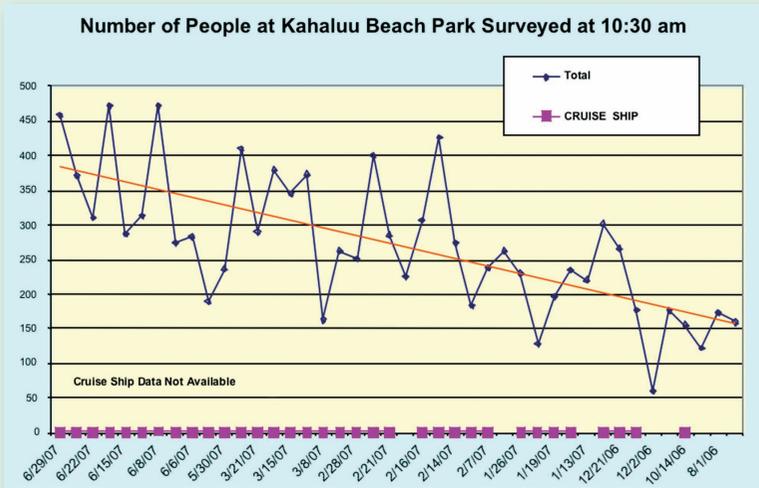
 Support the creation and maintenance of marine parks and reserves.

 Promote responsible development- coastal overdevelopment is one of the reef's largest threats.



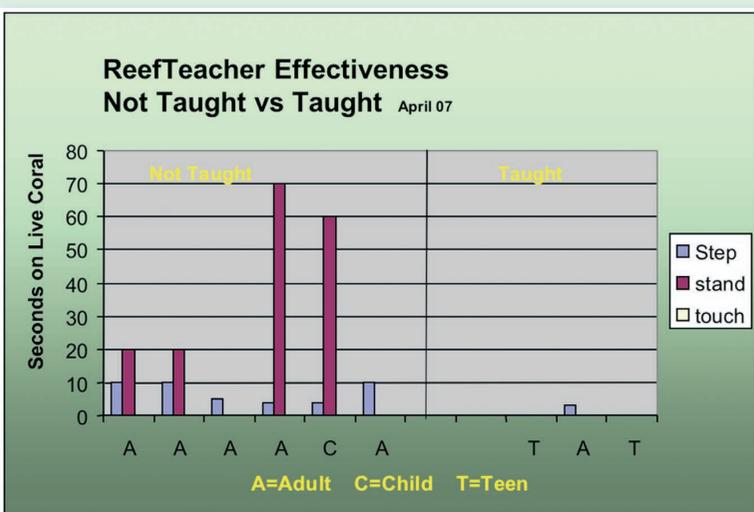
There has been a huge increase in visitors to Kahalu'u Bay over the past years.

According to County Lifeguard and UH Sea Grant Program counts in past years, the Bay experiences over 400,000 users a year!



ReefTeaching works!

Those people taught by ReefTeachers are much less likely to damage corals in the Bay.



EXPLORE KAHALU'U BAY CORAL REEF



BRAIN CORAL
Porolithothamnion
01/14/14/14/14



LEMON CORAL
Porolithothamnion
01/14/14/14



BLACK NODULE WRASSE
Thalassoma daniellii



YELLOWTAIL SNAPPER
Lutjanus fulvus



RED PENCIL URCHIN
Diadema setaceum



CAULIFLOWER CORAL
Porolithothamnion
01/14



ORANGE SPINE UNICORNFISH
Stegostromus xanthurus



LINED BUTTERFLYFISH
Chaetodon lineolatus



REEF TRIGGERFISH
Micropodus lineatus



BLACK TRIGGERFISH
Micropodus nigricans



BICOLOR BUTTERFLYFISH
Chaetodon bicolor



HAWAIIAN CLEANER WRASSE
Labroides dimidiatus



HUDSONIAN URCHIN
Diadema hudsonianum



MULLETHEAD PARROT FISH
Scorpaenopsis diabolus



JAWFISH
Paralichthys oblongus



STRIPED PUFFER
Physalium physalis



YELLOW TANG
Acanthurus nigricauda



LEMON TRIGGERFISH
Micropodus lineatus



BLACK LONG-SPINED URCHIN
Diadema setaceum



CONVICT TANG
Acanthurus nigricauda

Hanau ka 'Uku-ko'ako'a, hanau kana, he 'Ako'ako'a, puka
Born was the coral polyp, born was the coral

From the earliest of times, ancient Hawaiians understood and honored the importance of living coral as the foundation for many other forms of sea life.

The coral reefs of Hawai'i are home to an estimated 5,000 animal species, with an estimated one-fourth of these species not found anywhere else in the world.

What is coral?

A coral is really a "city" of individual reef-building animals called polyps connected to each other by a thin layer of tissue. These soft-bodied animals, related to sea anemones and jellyfish, are just like any other marine animal—they eat, grow and reproduce.



Coral is alive and fragile.

As the coral polyps grow, they secrete a substance that hardens to form the rigid coral structure. The large coral heads that you see around the reef are the result of hundreds of years of growth.

PROTECT KAHALU'U BAY



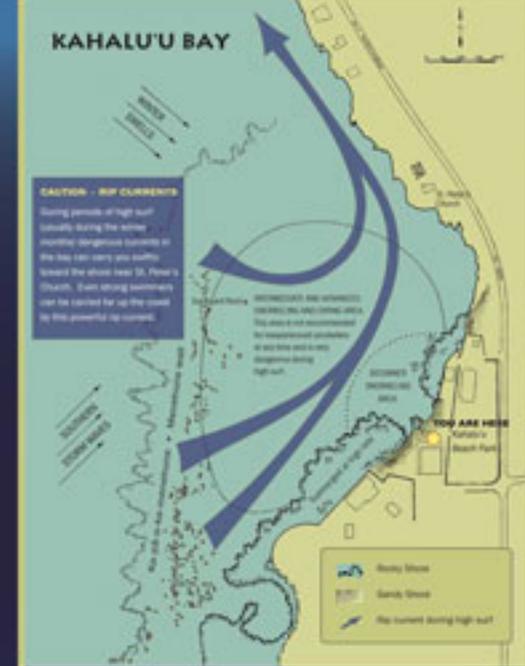
Coral is crucial.

Coral reefs are among the most diverse ecosystems in the world. Sometimes called the "rainforests of the sea," they supply shelter and food to abundant species of marine life, protect beaches from erosion, and even provide for important scientific discoveries in medicine and human health.



Coral is easily damaged.

Coral tissue is easily damaged when touched, scraped or stood upon. These coral reefs are extremely delicate and rare. Their very existence is threatened, not just at Kahalu'u Bay, but the world over.



OCEAN SAFETY TIPS:

- If in doubt, don't go out.
- Do NOT touch any marine life.
- Respect others.
- Swim only in designated lifeguard areas.
- Read all posted signs before entering the water.
- Never leave children unattended.

YOU CAN HELP PROTECT THE LIVING REEF!

DO NOT STAND ON OR TOUCH THE CORAL.

Touching or standing on coral damages and kills coral polyps. Stand only on sandy or rocky bottom if you must. Be careful not to accidentally kick corals with swimming fins.

DO NOT FEED THE FISH.

Fish play an important role in keeping the reef clean through what they eat. Feeding the fish disrupts their natural behavior, causing some fish to become aggressive and others to get sick.

DO NOT DISTURB THE TURTLES.

The green sea turtles that feed and rest at Kahalu'u Bay are endangered species. Do not approach them. Under both Federal and Hawai'i State laws it is illegal to harass or harm sea turtles.

APPLY WATERPROOF SUNSCREEN 15 MINUTES BEFORE SWIMMING.

Give the sunscreen time to absorb before entering the water. This helps protect your skin as well as reef life from the oily residues sunscreen leaves in the water.

THROW AWAY YOUR TRASH.

Trash left on the beach ends up in the ocean and harms sea life.



E MALAMA I NA KO'A KE KAI.

PROTECT OUR REEFS.

HAWAII TO:
The Kahalu'u Bay
Kona Beaches (The Club)
Hawai'i Tourism Authority
Kauai/Island Recreation Corporation
Orange Beaches Beach Board
National Oceanic and Atmospheric Administration
University of Hawai'i Sea Grant College Program
County of Hawai'i Department of Research and Development

PHOTO CREDITS:
Suzanne Birch, Ryan Brown, David B. Schuckler, Doug Hill, James D. West, David B. Schuckler, Doug Hill, James D. West, Andrea Walsh

DESIGN: Richard Duggan - Reef Design

ReefTeach

by ReefWatchers, community volunteers, and UH Sea Grant

YOU CAN HELP SAVE
KAHALU'U BAY CORALS

CORALS

BY



HELP SAVE
KAHALU'U
CORALS
BAY

ReefTeach
at Kahalu'u Bay

Jack's Diving Lockes

ReefTeach
at Kahalu'u Bay

Jim
UH Sea Grant Reef Teacher

WHAT DO GREEN
SEA
TURTLES
LOOK
LIKE?

WHERE DO GREEN SEA TURTLES LIVE?

GREEN SEA TURTLES ROAM
THE ATLANTIC, PACIFIC, AND
INDIAN OCEANS.
THE POPULATION IN HAWAII
DEMANDS IN THE HAWAIIAN
ISLANDS ALL THEIR LIVES.

RECENT NOAA TURTLE
RELEASE & TRACKING

TOP SPEED: 35 MPH

TURTLES
NATURAL
PREDATORS

HAZARDS

Yum!
Algae!

Lifeless Coral Reefs

These algae (the colorful green, yellow, and brown) grow on the sides and tops of coral. They block a lot of light from the coral.

Algae can also block a lot of light from the coral. This can cause the coral to die. The coral can also be eaten by sea urchins. During the day, the urchins use their long spines to dig into the coral and eat it. At night, they pull their spines back into their bodies to protect themselves.

Algae can also block a lot of light from the coral. This can cause the coral to die. The coral can also be eaten by sea urchins. During the day, the urchins use their long spines to dig into the coral and eat it. At night, they pull their spines back into their bodies to protect themselves.



KHALU'U BAY!

Coral is crucial.

Coral reefs are among the most diverse ecosystems in the world. Sometimes called the "rainforests of the sea," they supply shelter and food to thousands of marine life, protect beaches from erosion, and even provide for important scientific discoveries in medicine and human health.



Coral is easily damaged.

Coral is easily damaged when trampled, stepped on, or pulled. These reefs are extremely delicate and rare. Their very existence is threatened, not just in Kahu'u Bay, but the world over.



OCEAN SAFETY TIPS:

- If in doubt, don't go out.
- Do NOT touch any marine life.
- Respect others.
- Swim only in designated lifeguard areas.
- Read all posted signs before entering the water.
- Never leave children unattended.

PLEASE HELP PROTECT THE LIVING REEF:

DO NOT STAND ON OR TOUCH THE CORAL.

Scrubbing or standing on coral damages and kills coral polyps. Stand only on towels or mats. Never sit on the coral. Be careful not to accidentally kick corals with swimming fins.

DO NOT FEED THE FISH.

Fish play an important role in the reef's health. Feeding them causes them to become dependent on humans and can cause some fish to die.

DO NOT...

The green X designates lifeguard areas. Do not swim in the green X.

APPLY SUNSCREEN BEFORE SWIMMING.

Use reef-safe sunscreen. Avoid sunburn. Sunburn can cause skin cancer.

PLEASE RECYCLE.

Recycle your trash. Do not litter. Litter can harm marine life.

PLEASE HELP PROTECT THE LIVING REEF.

For more information, visit www.kahu'u.org.

© 2014 Kahu'u Bay Association

PHOTO: KAHU'U BAY ASSOCIATION

MAP: KAHU'U BAY ASSOCIATION

DESIGN: KAHU'U BAY ASSOCIATION

PRINTED ON RECYCLED PAPER

MADE IN HAWAII

100% COTTON

100% POLYESTER

100% RECYCLED PAPER

100% SOFT TOUCH

100% BLENDED

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE

100% COMFORTABLE

100% AFFORDABLE

100% EASY CARE

100% SWEAT WICKING

100% UV PROTECTION

100% WATER RESISTANT

100% STAIN RESISTANT

100% TEAR RESISTANT

100% PULL RESISTANT

100% STRETCHABLE

100% BREATHABLE

100% DURABLE



© N. Moore

E Komo Mai!

LA 'IKE KAHAKAI O KAHALU'U
(To know the shores of Kahalu'u)

PLACE: Kahalu'u Beach Park Main Pavillion
DATE: Saturday, July 28, 2007
TIME: 10am to 2pm

National Park Service Ranger Natasha Moore invites you to enjoy a day of traditional Hawaiian games, like Kōnane, Hū, Hei and Pala'ie. Discover the important role they played in Hawaiian culture and why we still enjoy them today.

In addition, there's plenty of ono food and entertainment, including a brand new delicious treat made of Taro and organic ingredients, the slack-key music of Kauwila, fresh lei making with Kupuna Lei Belanio and 'Ohana, and the Reef Teach team to share the importance of coral reefs to our Island way of life.

For more information, please contact
Cindi Punihaole-Kennedy at 895-1010 or
cpunihaole@kohalacenter.org.

KAHALU'U BAY PROJECT

A project managed by The Kohala Center, www.kohalacenter.org

SPONSORED BY

Hawai'i Tourism Authority • Keauhou Resort
Outrigger Keauhou Beach Hotel
National Oceanic and Atmospheric Administration
The University of Hawai'i Sea Grant College Program



PUANA KA 'IKE LECTURE SERIES

Imparting Knowledge

LISTEN TO THE VOICES OF WISDOM.

Through collaborative sponsorship, Puana Ka 'Ike lecture series features the next trio of speakers sharing their wisdom, from personal to historical, on topics that provide an illuminating view into what it means to be Hawaiian.

For more information, contact Joy Cunefare in Honolulu at (808) 521-1408.

FREE LECTURES

NEIL HANNAHS

Honoring Traditional Values and Becoming People of Place,
Caring for Place

KONA

Outrigger Keauhou Beach Hotel, Kahalu'u Ballroom
Friday, November 16, 2007 • 5:00 - 6:30 p.m.

ULALIA WOODSIDE

Legacy of Bernice Pauahi Bishop

HILO

UH Hilo, UC Bldg #127

Monday, November 19, 2007 • 12:00 - 1:30 p.m.

PATIENCE NAMAKA BACON

The Concept of Hanai: Through Namaka's Eyes -
The Life of Patience Bacon

KONA

Outrigger Keauhou Beach Hotel, Kahalu'u Ballroom
Friday, November 30, 2007 • 5:00 - 6:30 p.m.

HILO

UH Hilo, UC Bldg #127

Monday, December 3, 2007 • 12:00 - 1:30 p.m.

SPONSORED BY:

Bishop Holdings Corporation/Kamehameha Investment Corporation
The Kohala Center • Outrigger Keauhou Beach Resort
Hawai'i Tourism Authority
University of Hawai'i at Hilo Kīpuka Hawaiian Student Center
National Oceanic and Atmospheric Administration
The University of Hawai'i Sea Grant College Program



JOB NUMBER: KC208-82
CLIENT: Kohala Center
PUB: Big Island Weekly

SIZE: 9.653" x 6"
COLOR: BW
RUN DATES:

BLEED?: NO
MATERIALS: PDF