

KA'ANAPALI MAKAI WATCH



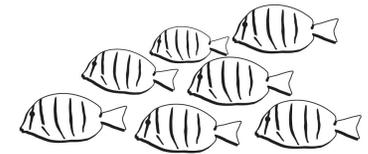
Kahehiki-Ka'anapali Makai Watch



Key Updates...

Education & Outreach:

- ✓ On-site events
- ✓ Volunteer engagement
- ✓ Adopt-a-Box Program
- ✓ KHFMA sign development
- ✓ Makai Watch standardization



**KA'ANAPALI
MAKAI WATCH**



Observation & Compliance:

- ✓ Creel survey outcomes/KHFMA rules community meeting
- ✓ online reporting form pilot results

Monitoring:

- ✓ Support of HEA surveys and web portal

Co-Coordination Team: Roles & Responsibilities

Luna Kekoa
**COMMUNITY
COORDINATION**



Makai Watch

- Hawaiian Names of
- Mo'olelo of the Area
- Traditional Fishing
- Mauka / Makai Relationships



Darla White
**RESEARCH &
CITIZEN SCIENCE**



The Status of Maui's Reefs

By Darla White
Presented at the Maui Reefs Citizen Science Meeting



Liz Foote
**EDUCATION &
OUTREACH**

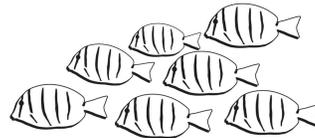


**Partners,
Supporters &
Collaborators:**

- DOCARE
- Other NGOs and agencies
- Researchers
- Ka'anapali region hotels & condos

Co-Coordination Team: Roles & Responsibilities

Darla White
**RESEARCH &
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**KA'ANAPALI
MAKAI WATCH**

Liz Foote
**EDUCATION &
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U.S. Coral Reef Task Force West Maui Priority Watershed Initiative

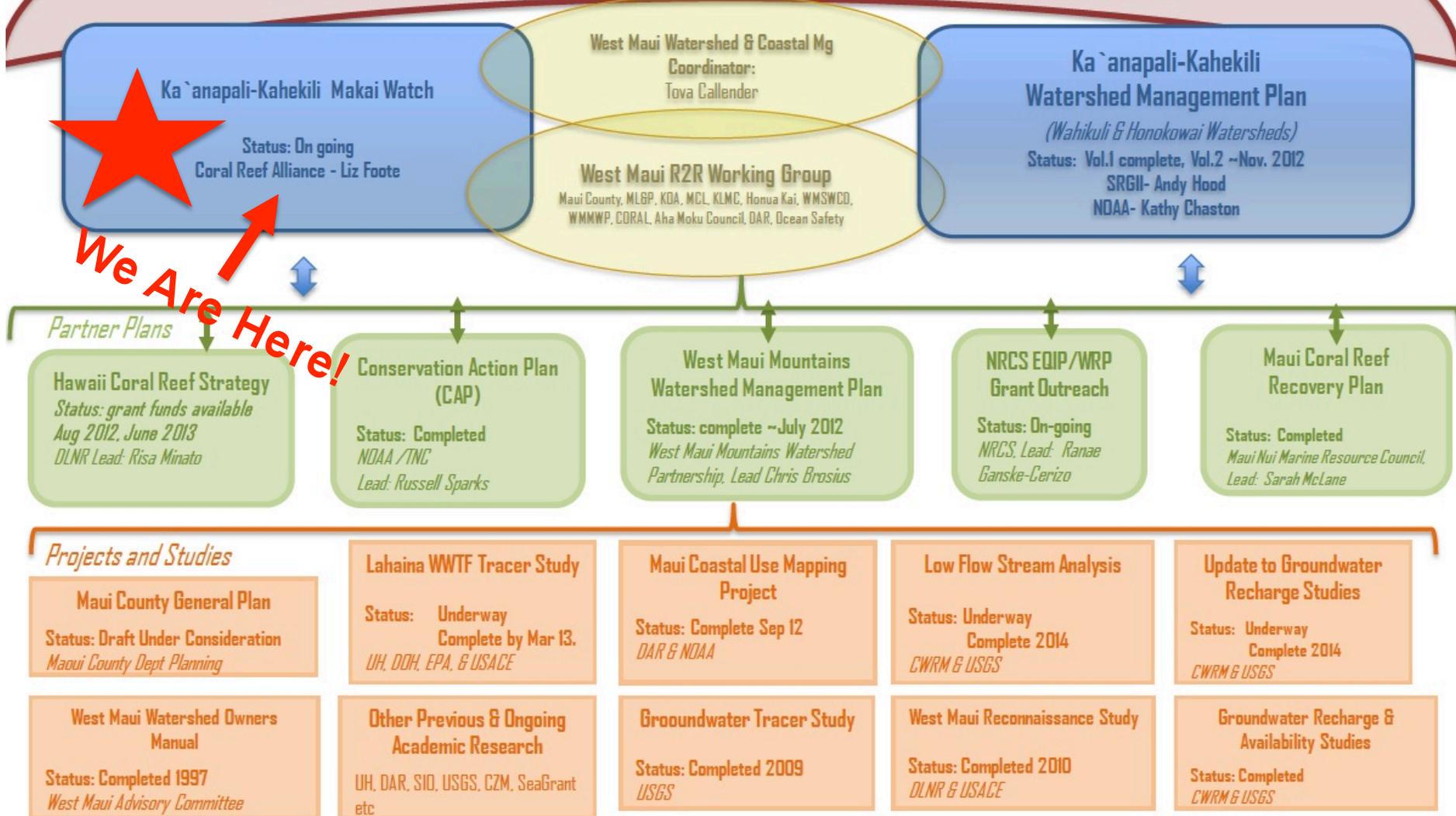
Overarching agency support and interest from partners: NOAA, DOI, USAID, USDA, DoD, US Coast Guard, DoJ, DOS, DOT, EPA, NASA, NSF, State of Hawaii etc.

West Maui Ridge to Reef Initiative

Five West Maui Watersheds from Wahikuli to Honolua

Status: Cost Share to be signed August 2012 Leads: USACE; Cindy Barger & DLNR; Risa Minato

Partners: DLNR DAR, DOFA, CWRM, Maui County, WMMWP, DOH, EPA, NOAA



DOCARE Needs Support!

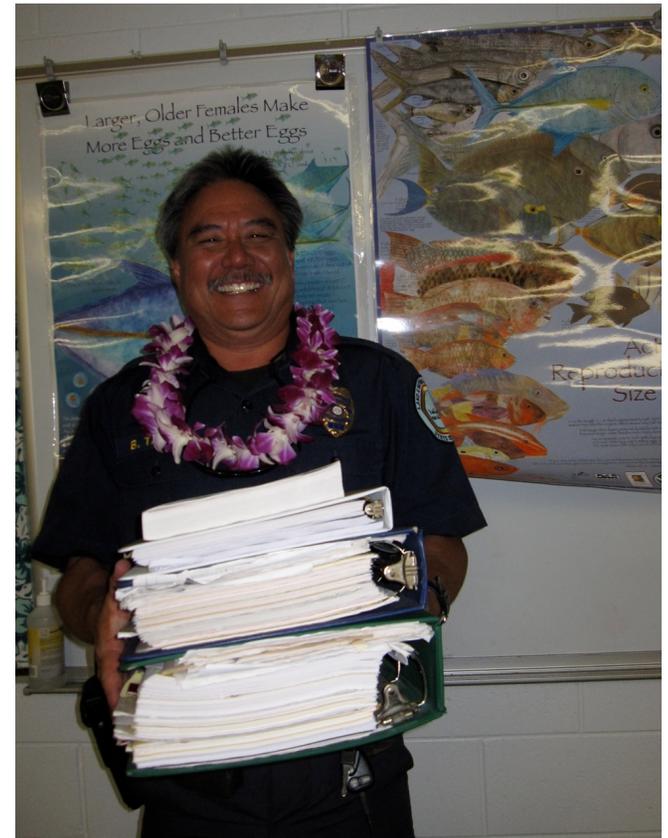
DOCARE Liaison Role

Activities:

- Assist with piloting of online reporting system
- Follow-up with reports and responses
- Document incidents – violations & non-violations
- Keep DOCARE apprised; follow up with community

Desired Outcomes:

- ✓ Demonstrate need for increasing DOCARE's capacity
- ✓ Community support for DOCARE





Factors that confer resilience:

Ecosystem Condition:

- Coral Health
- Coral Cover
- Water Quality
- Herbivore Abundance



NOAA Climate Change Workshop

STATE OF HAWAII
DLNR POLICE

STATE OF HAWAII
DLNR POLICE
DEPT. OF LAND & NATURAL RESOURCES

KAANAPALI
MAKAI WATCH
VOLUNTEER

CIVIC CE

CIVIC CENTER

Creel Fishing Effort Survey Outcomes

- ✓ When?
- ✓ Where?
- ✓ What?
- ✓ How much?





Makai Watch Observations and Community Incident Reporting Form Online Version

  www.123contactform.com/form-205427/Makai-Watch-Observations-And-Community-Incident-Reporting-Form

This form is for reporting observations concerning natural resources. PLEASE NOTE: This form is NOT intended to take the place of contacting the Division of Conservation and Resources Enforcement (DOCARE) directly in the event of a suspected resource violation, but rather it is intended to inform the coordinators of the Makai Watch program of activities in the area which the reporter chooses to share. FOR SUSPECTED, ONGOING RESOURCE VIOLATIONS REQUIRING AN IMMEDIATE RESPONSE, ALWAYS CONTACT MAUI DOCARE AT (808) 873-3990.

Please characterize the information you are providing via this form:

- I am providing general information/observations (enforcement action not necessary)
- I am providing information about a suspected violation (NOT occurring right now) and/or have a general observation or complaint which does not require an immediate DOCARE response
- I am reporting and documenting an ongoing violation which merits immediate DOCARE response (note: CALL DOCARE IMMEDIATELY AT (808) 873-3990 TO INITIATE A RESPONSE)

Observed By:

Date (of observed incident, if applicable):

/ / 
MM DD YYYY

Time (of observed incident, if applicable):

Location - KHfMA/Makai Watch sites (please select)

Location (please provide more details, GPS coordinates, etc.):

Quick Summary - Please check all that apply

- Fishing was observed (all fishing whether legal or suspected illegal)
- Illegal fishing for herbivores was observed/suspected
- Other fishing rule violations were observed/suspected
- Fish feeding was observed
- Other reef impacts were observed
- None of the above were observed/suspected

General Observations

General Makai Watch observations & comments

Suspect Descriptions: Provide suspect name(s) if known. Provide approx. description: age, height, weight, hair, type/color of clothing, identifying marks such as scars, tattoos, etc.

Suspect 1:

Suspect 2:

Suspect 3:**Vehicle/License Plate NO.:**

Provide description make/model/year/color; other characteristics) (Provide description make/model/color; other characteristics)

Vessel/HA NO.:

(Provide description make/model/color; other characteristics)

Observations

Suspect actions and description of equipment using, etc. Continue observations on additional pages as necessary

Digital Signature

write name/initials here

Email

Phone

- -
####

Attach file

Attach another file

Attach another file

Attach another file

Thank you for contributing this report - your participation as a community member is essential and valued!

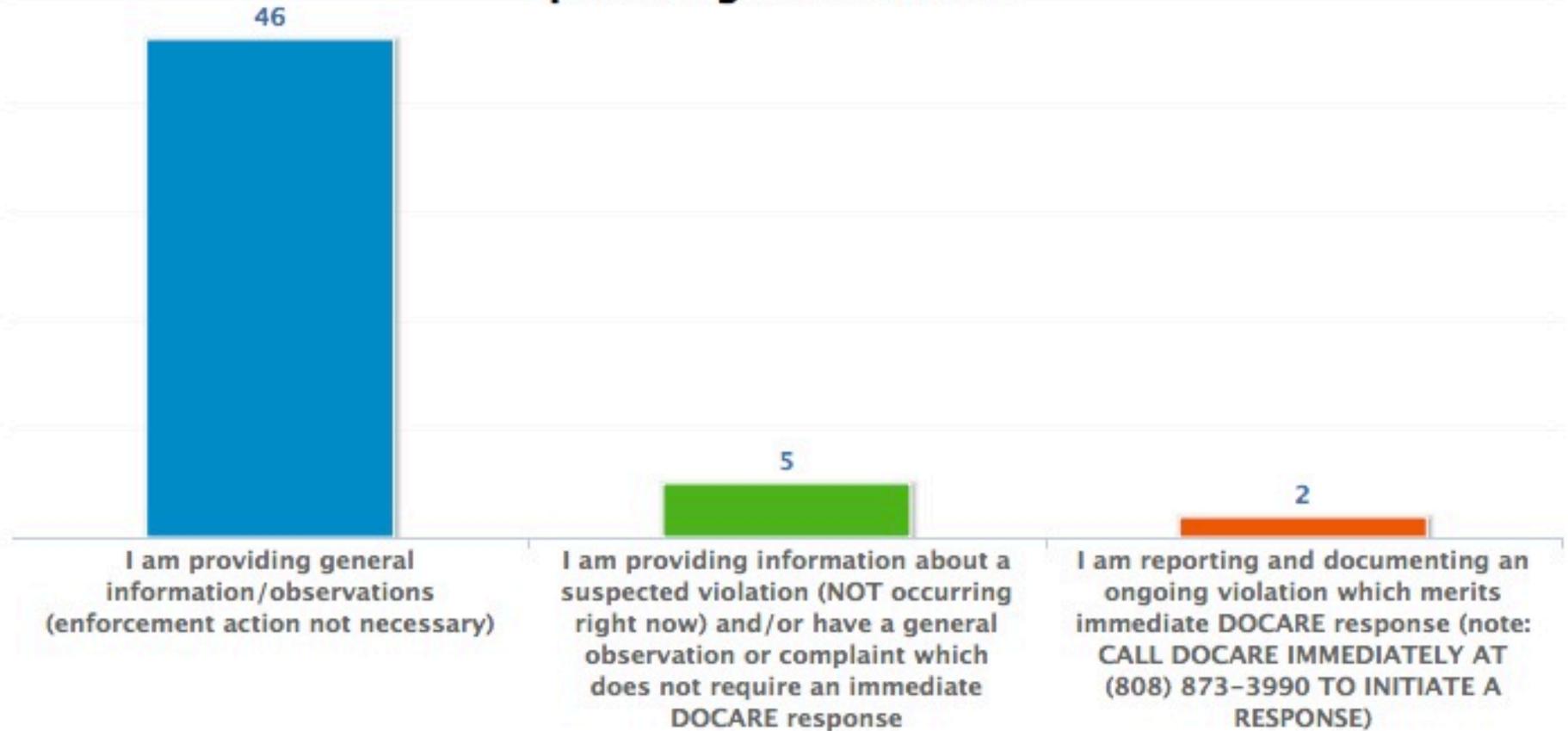
57 surveys

Location - KHFMA/Makai Watch sites



- Please select: (24)
- KHFMA general (4)
- KHFMA CREEL Zone 1 (south of Black Rock (Pu`u Keka`a) to Pier) (10)
- KHFMA CREEL Zone 2 (Pier to Kahekili Beach Park`s DLNR sign) (16)

Please characterize the information you are providing via this form:



Quick Summary - Please check all that apply



“2 tourists feeding the fish (looked like granola) in front of the first Westin building. I talked to them, explained about the management area and the reasons, and they were polite and seemed to understand.”

“1 fisherman/2 poles, local guy

He was aware of the KHFMA. Talked story quite awhile. He and some friends had fished all night in the area. He had caught a bonefish that he felt was too small to keep (although others would have!) & opili (?). He understood the importance of the management area. Felt like the real problem was night divers poaching protected fish....especially Uhu. Asked him if he was interested in volunteering...he said not formally but would tell other fisherman that it was a management area.

(Note: This is about the 4th time I have gotten that exact same response from local fisherman.) Thanked me for volunteering and being a conservationist!”

“A spearfisherman said he was fishing for parrotfish.”

“4 men with spearguns were getting in the water. I asked them what they were fishing for and they said, anything we can get. I told them about the management area and the protected species, and why.”

“Spearfisherman with a gun - he had a small (4) white fish on his stringer, and at least 2 reddish fish in one of his fins. I talked to him - he said he knew the rules.”



Training & Outreach





Adopt-a-Box Program



KAHEKILI HERBIVORE FISHERIES MANAGEMENT AREA



Permitted
To fish for, injure, kill, possess, or remove any finfish or macrobenthos, except prohibited species indicated below.
To use bait or other attractants while fishing for permitted marine life.

Prohibited
To injure, kill, possess, or remove any rudderfish (nemeu), parrotfish (uhu) or surgeonfish.
To injure, kill, possess, or remove any sea urchin.
To feed or deliberately introduce any attractant, directly to or in the vicinity of any marine life, except while fishing for permitted marine life.

To report violations call 643-DLNR HRS 100-60.7

WARNING



BEACH

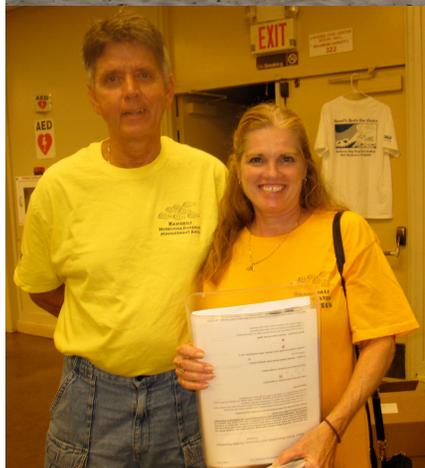
DO NOT SWIM TO SHORE IN CHANNEL MARKED BY ORANGE BUOYS, SWIM TO EITHER SIDE OF CHANNEL OVER REEF TO EXIT THE BAY

Adopt-a-Box

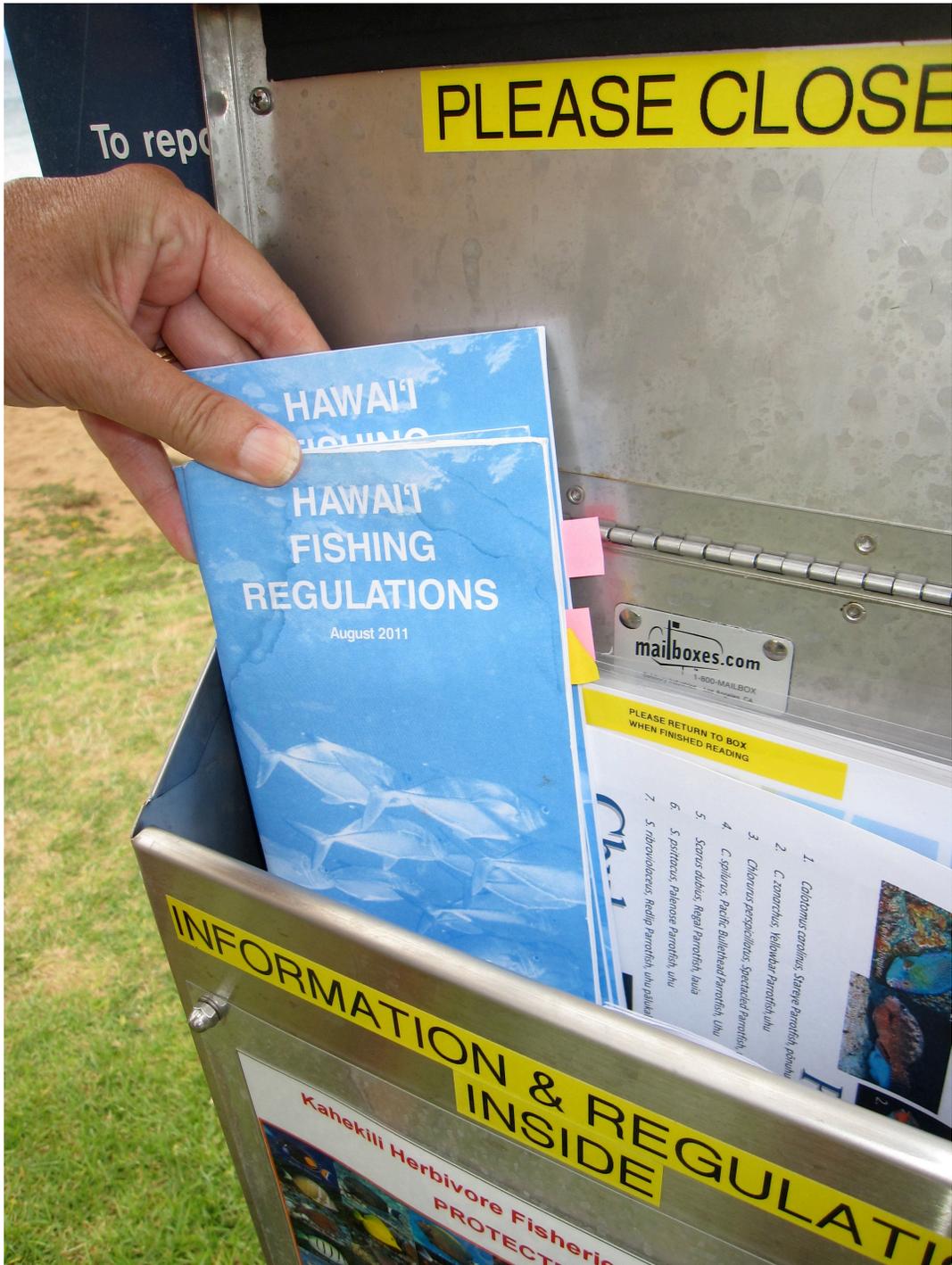
INFORMATION & REGULATIONS INSIDE

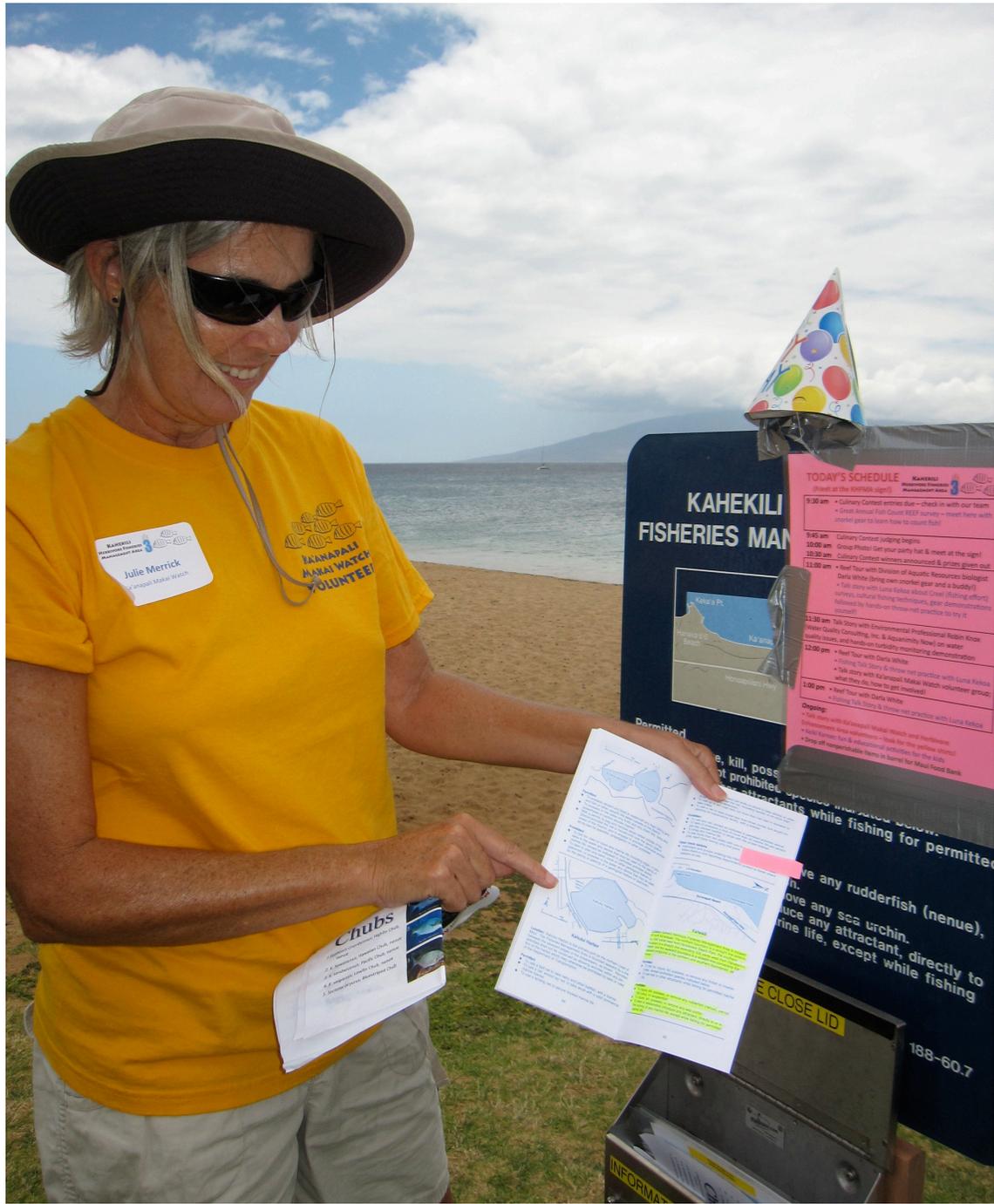
Do Not Take

Meet the Box-Parents









MAUI WATCH
Maui Watch
Julie Merrick
Maui Watch

MAUI WATCH
MAUI WATCH
VOLUNTEER

KAHEKILI FISHERIES MANAGEMENT



TODAY'S SCHEDULE

9:30 am • Culinary Contest entries due – check in with our team
• Great Annual Fish Count REEF survey – meet here with water gear to learn how to count fish!

9:45 am • Culinary Contest judging begins

10:00 am • Group Photos (for your party hat & meet at the sign)

10:30 am • Culinary Contest winners announced & prizes given out

11:00 am • Reef Tour with Division of Aquatic Resources Biologist
• Daria White (bring own snorkel gear and a buddy)
• Talk with Lura Weiss About Coral (Fishing effort)
• Survey, cultural fishing techniques, gear demonstrations
• Followed by hands-on throw-net practice to try it.

11:30 am • Talk Story with Environmental Professional Robin Knox
• Water Quality Consulting, Inc. & Acquinity: Need on water
• quality issues, and hands-on turbidity monitoring demonstration

12:00 pm • Reef Tour with Daria White
• Fishing Talk Story & throw net practice with Lura Weiss
• Talk story with Kai Inoué: Maui Watch volunteer group
• what they do, how to get involved!

1:00 pm • Reef Tour with Daria White
• Fishing Talk Story & throw net practice with Lura Weiss

Ongoing:
• Talk story with Kai Inoué: Maui Watch and Neighbors
• Environmental Awareness: Check for the yellow shirt!
• Talk: Kona Kai & recreational activities for the kids
• Keep all responsibilities items in barrel for Maui Inland Bank

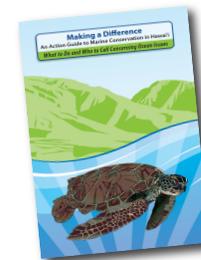
Chubs
1. ...
2. ...
3. ...
4. ...
5. ...

PLEASE CLOSE LID
188-60.7



Making a Difference Action Guide laminated and placed in box, with a sticker that says, “Please return to box when finished reading”

Action Guide hard copies available at DAR offices and elsewhere, and can be downloaded from:
http://coral.org/Hawaii_action_guide





[Home](#) [Reporting](#) [Images of Protected](#) [Get Involved](#) [Tips](#) [Contact](#) [Slideshow](#)

Thank you for Stopping by to get Additional Information

This website is to serve as one-stop-shop compilation of key information about the Kahekili Herbivore Fisheries Management Area (KHFMA), a new type of Marine Protected Area. The KHFMA is unique in that it is the first time that fisheries management has been used in an effort to save a reef in decline, by protecting only the fish that eat algae (herbivores) and sea urchins to increase reef resilience. Fish feeding is also prohibited.

In the Hawaiian language, the word Makai means "toward the ocean" or "toward the sea". The Ka'anapali Makai Watch Program is raising awareness of the ocean and specifically the Kahekili Herbivore Fisheries Management Area (KHFMA). Our Program consists of three components: education and outreach, monitoring, and observation/voluntary compliance.

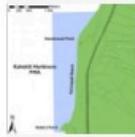
Just visiting this website already makes you a part of the solution! By respecting our reefs and KHFMA rules you are a part of helping to restore Kahekili back to its thriving state.

Please visit the links below to learn more

Information about KHFMA and West Maui Priority Site

Information on KHFMA Boundaries, Rules and Regulations:

Kahekili Herbivore Fisheries Management Area is located off north Ka'anapali. The northern boundary is a straight line extending 1292 yards west from Honokowai Beach Park, the southern boundary is a straight line extending 335 yards west from Hanaka'o'o Beach, and the seaward boundary is a straight line connecting the seaward endpoints of the northern and southern boundaries, as shown. . .



Hawaii Coral Strategy West Maui Priority Site: The Hawaii Coral Reef Strategy identified the coral reef ecosystem along the West Maui region as a priority management area. The US Coral Reef Task Force designated the West Maui Watershed Plan as the priority partnership in the Pacific in 2011. . .



Other



Making a Difference in Hawaii:

"This action guide has been designed as a community tool to provide key information, guidelines, and contact information for marine resource conservation. The goal is to empower Hawaii's ocean users to take an active stewardship role in the preservation and protection of the marine environment. . ."



Learn more about Coral:

"Welcome to the Coral Reef Alliance (CORAL), the only international organization working exclusively to save coral reefs. CORAL provides education, tools, and inspiration to help local communities. . ."



Maui Ocean Bloggers:

"Thank you for visiting our collaborative community blog! This site was created to provide a platform for education and outreach an

Kahekili Beach Park (Airport Beach)

Kai Ala Drive
Lahaina, HI 96761

Join our email list to find out about events and opportunities

* Email
First Name
Last Name
* = Required Field

Email Marketing by iContact

Makai Watch

Find us on Facebook



Kaanapali Makai Watch



Facebook social plugin

KHFMA

Find us on Facebook

KHFMA 3rd Annual Birthday Bash





Culinary Contest!



KHFMA 3rd Birthday Bash – Culinary Contest VOTING ALBUM

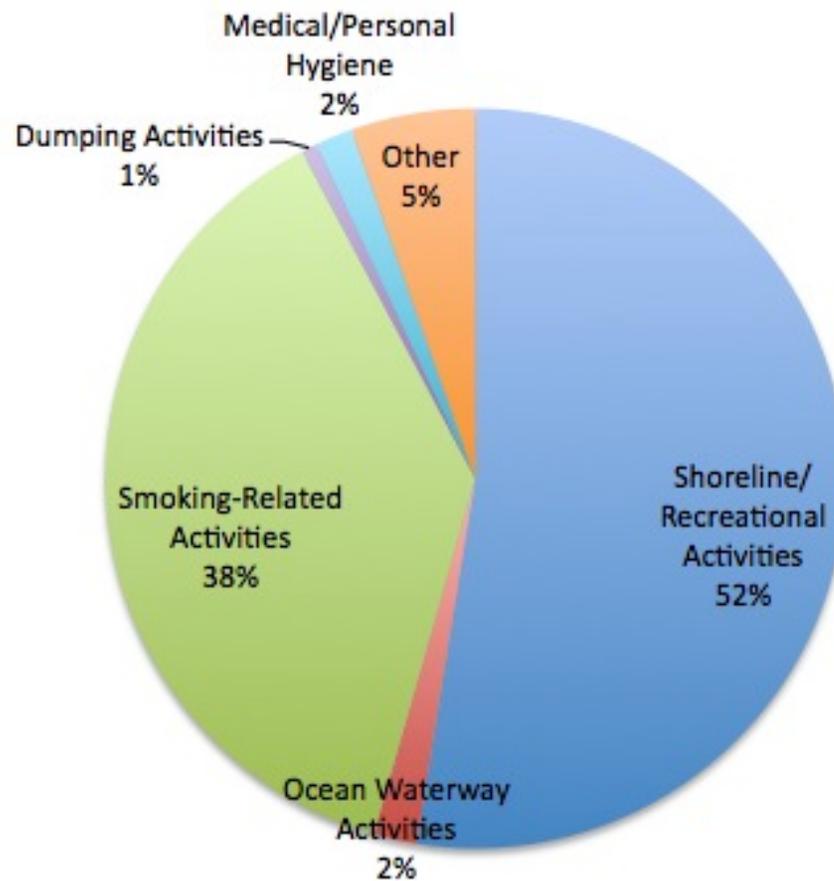
By Liz Foote (Albums) · Yesterday · 🌐 · Taken at Kahekili Beach Park · 🛠️ Edit Album



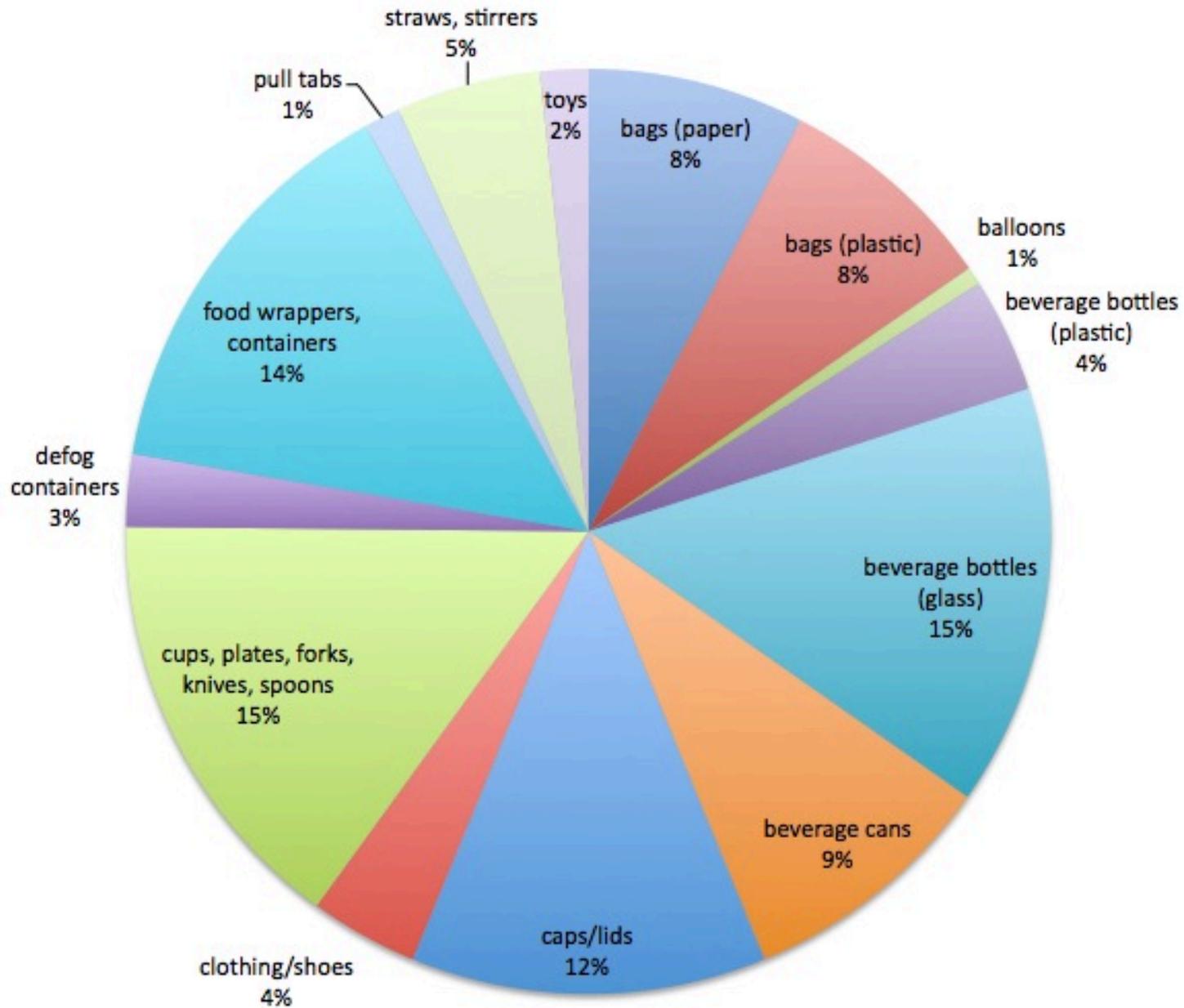
International Coastal Cleanup Day September 15, 2012



Overall Type and Relative Amount of Debris, Kahekili Beach Park and Shoreline



Shoreline/Recreational Activities: Type & Relative Amount of Debris



MAUI OCEAN BLOGGERS

For the community...by the community

MONDAY, SEPTEMBER 17, 2012

International Coastal Cleanup at Kahekili!

On Saturday, September 15th, coastal cleanups were held all over the world. Maui was no exception! Many thanks to all the volunteers island-wide who donned the gloves and took part in one place or another.

Of course, as an effort coordinated by Ka'anapali Makai Watch and CORAL, we targeted Kahekili Beach Park and the surrounding area. We also put together an event, the Hawaii Hotel Coastal Cleanup Challenge, encouraging hotels statewide to get involved. (Stay tuned for another post once the final tally of hotels' participation and data is in!)

For our cleanup at Kahekili, we were joined by an amazing team of community members, Ka'anapali Makai Watch volunteers, students from four different schools (Maui Waena Intermediate, Lahaina Intermediate, Lahainaluna High, and Maui Preparatory Academy), and teams from the Westin Ka'anapali Ocean Resort Villas. A team from the Honua Kai Resort & Spa was hard at work cleaning up along a two-mile stretch of highway in the region, while volunteers at the beach split up into smaller teams and covered about 2 miles of shoreline as well.



ABOUT THIS BLOG

Welcome to our collaborative community blog! If you're interested in contributing, email us at mauiocceanbloggers@gmail.com

For more, see our [Welcome/About message](#) and our [Guidelines & Disclaimer](#)

BLOG ARCHIVE

- ▼ 2012 (11)
 - October (1)
 - ▼ September (1)
 - International Coastal Cleanup at Kahekili!
 - August (2)
 - July (3)
 - June (2)
 - May (2)
- 2011 (33)

KEY RESOURCES

[Coral Reef Monitoring Data Portal](#)
[Ocean Awareness Training](#)
[Making a Difference Action Guide](#)
[DLNR Fishing Regulations](#)

PARTNERS & FRIENDS LINKS

[Hawaiian Islands Humpback Whale National Marine Sanctuary](#)
[Maui Digital Bus](#)
[Hawaii Division of Aquatic Resources](#)
[Coral Reef Alliance](#)
[Hawaii EcoTube](#)
[Kaanapali Makai Watch Facebook](#)

CONTRIBUTORS

- [Bo](#)
- [Big Island Ocean Bloggers Team](#)
- [Levi Lewis](#)
- [The Makalii Group](#)
- [Maui Ocean Blogger Team](#)
- [megan ross](#)

MAUI OCEAN BLOGGERS

For the community...by the community

MONDAY, JULY 30, 2012

KHFMA's 3rd Birthday Bash!

The Kahekili Herbivore Fisheries Management Area's third annual Birthday Bash celebration was held the last weekend of July at Kahekili Beach Park. Why not throw a birthday party for a Marine Managed Area?! Thanks to everyone who was part of our event, and thanks for wearing the birthday hats – it's a tradition – even the KHFMA sign wears one.



The past two years we have held a pollack and conducted several educational and citizen science activities during the day, and this year decided we'd try to top last year's festivities. Of course a main objective of the Birthday Bash was to raise awareness about the [KHFMA](#) and [why it exists](#), so we wanted to make sure its themes of marine conservation and community involvement were well represented throughout all the festivities.



Through outreach stations and partygoing volunteers, beachgoers and participants had the opportunity to learn about the efforts of the [Ka'anapali Makai Watch program](#), jointly coordinated by Division of Aquatic Resources (DAR), the Coral Reef Alliance, and Project S.E.A.-Link. The Hawaiian Islands Humpback Whale National Marine Sanctuary outreach team was also on hand with an education station to talk to visitors and community members about their efforts.



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 - October (1)
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 - August (2)
 - ▼ July (3)
 - [Environmental Scientist Robin Knox Explains How a... KHFMA's 3rd Birthday Bash! Scientists Respond to NYT Op-Ed: A World without C...](#)
 - June (2)
 - May (2)
- 2011 (33)

KEY RESOURCES

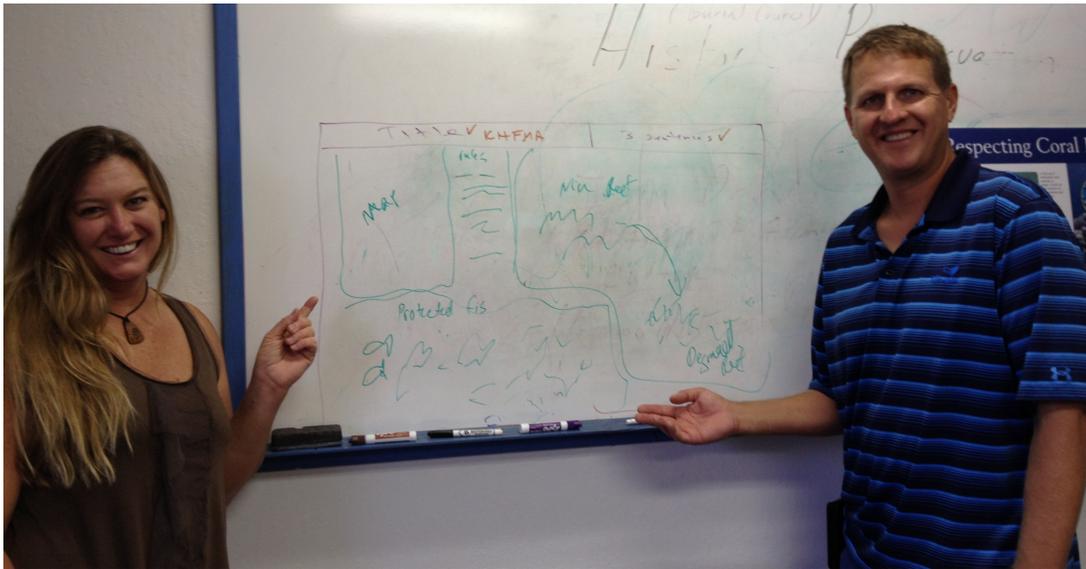
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- [Emily Keily](#)
- [Don McLeish](#)
- [footesea](#)
- [Donna](#)
- [fishonareef](#)
- [Ecen Zang](#)
- [EcoTube Team](#)



KHFMA Sign (Poster) Development

- ✓ Map
- ✓ User-friendly rules
- ✓ Species “fun facts” and ID photos
- ✓ Characteristics of “healthy” vs. “stressed” vs. “degraded” reef condition
- ✓ “Why” messaging

A. Kahekili Herbivore Fisheries Management Area

C-1: MAP

B. Smaller “help” text

C-2. Text – Overview, Rules, Why

C-4 – fish feeding

Fish Don't Need Feeding

Also Prohibited: To feed or deliberately introduce any attractant, directly to or in the vicinity of any marine life, except while fishing for permitted marine life.

C-3: Identification of prohibited species

Silhouette overview:

Family “fun facts”

Examples of actual species:

D. Degraded vs. stressed vs. healthy reef with pullouts

Add one section in middle for a stressed reef

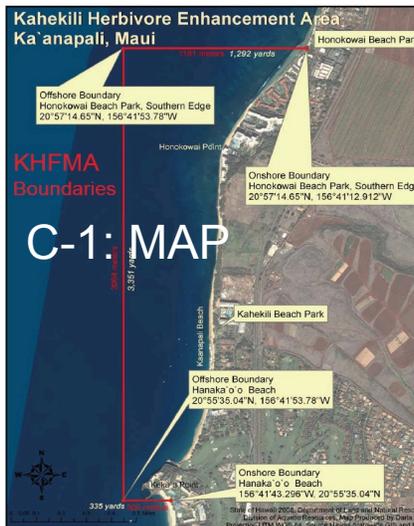
E. Take home message/Why

Placeholder for sponsorship box?

E. Logos/Acknowledgements

A. Kahekili Herbivore Fisheries Management Area

B. Smaller "help" text



C-2. Text – Overview, Rules, Why



C-4 – fish feeding



Surgeonfishes are important grazers on the reef.

Fish Don't Need Feeding

Fish feeding has been shown to alter the natural community structure of the reef, and promote aggressive behavior in fishes. Please allow the fishes to eat their natural

Feeding can rub the reef.

Also Prohibited: To feed or deliberately introduce any attractant, directly to or in the vicinity of any marine life, except while fishing for permitted marine life.



D. Degraded vs. stressed vs. healthy reef with pullouts



Add one section in middle for a stressed reef

C-3: Identification of prohibited species

Silhouette overview:

Surgeonfishes

Parrotfishes *uhu*

Urchins *wana*

Rudderfishes or Chubs *nenue*

Family "fun facts"

Examples of actual species:

Placeholder for sponsorship box?

E. Take home message/Why

E. Logos/
Acknowledgements

Coming Soon...West Maui water quality monitoring with HIHWNMS



Coral Reef Monitoring Data Portal

home about the project other data sites resources

Special Announcements

Check out our News and Announcements section to find out what's going on, and how you can get involved!

[Read more »](#)

[View](#) [Edit](#)

Citizen Scientists Are Providing Valuable Data

Welcome to the Coral Reef Data Monitoring Portal! This site was created as a community resource tool, with the goal of supporting ongoing volunteer community-based monitoring efforts in order to provide valuable data for resource management purposes.

Get Started

- [Find out about opportunities in your community »](#)
- [Enter your data online »](#)
- [View data collected by volunteers »](#)
- [Be a fan on Facebook! »](#)

Overview of the Project

The key components of this site include: 1) online forms to enter and submit data; 2) resources for volunteers; and 3) links to other sites currently hosting online reporting systems.

This site is being developed and launched in Hawaii, but we hope to expand it to more of CORAL's project sites in the future.

[Learn more about the project »](#)

The Coral Reef Alliance

This site is managed by the [Coral Reef Alliance \(CORAL\)](#). Funding for the site's development has been provided by the Hawaii Tourism Authority (HTA) and the National Oceanic and Atmospheric Administration (NOAA). This site was created in support of community-based coral reef and water quality monitoring programs in CORAL's project sites.

You can contact us at:
monitoring@coral.org

Volunteers learning water quality monitoring techniques during Ocean Awareness Training on Maui.

Next Steps...



Education & Outreach:

- ✓ Continue work with hotels on sustainability initiatives; water reuse project (CORAL)
- ✓ Volunteer coordination: ongoing support of outreach station
- ✓ Standardization/alignment with statewide program

Monitoring:

- ✓ Ongoing development and implementation of Coral Reef Monitoring Data Portal
- ✓ Continued support of HEA, other protocols

Observation & Compliance:

- continue to work with DOCARE – community workshops
- ongoing piloting of online reporting system



Questions?



Liz Foote • CORAL Hawai'i Field Manager • Lfoote@coral.org