

**National Oceanic and Atmospheric Association**  
**Final Programmatic Report – 9/28/2009**

**Accomplishments and Summary**

This section will detail our summarized accomplishments for the following three objectives:

1. Development of a Recreational Management Analysis for Maui's Marine Life Conservation Districts Molokini Shoal and Honolua-Mokuleia;
2. Facilitation of Conservation in Action workshops and support of Community Microgrants; and
3. Adaptation of CORAL Reef Leadership Network on Maui.

**Description of the approach/methods/activities conducted & Outcomes:**

*Purpose, and information on the workshops, the microgrants funded and how they supported Hawai'i's Local Action Strategies (LAS), The Reef Leaders, and the outcomes of the stakeholder forums.*

**Objective 1: Develop Recreational Management Analysis**

Summary of Action Items:

- Purpose: Work closely with the Hawai'i Division of Aquatic Resources and local Maui stakeholders to incorporate marine recreation stakeholder feedback, concerns, and realities into a recreational management analysis which can ensure transparency of process and inform future management plans for Honolua Bay and Molokini Shoal Marine Life Conservation Districts
- We recruited and contracted Jill Komoto, former Marine Managed Areas Specialist with Hawai'i Division of Aquatic Resources, to assist with the development of the recreational management analysis report.
- As previously noted, we changed the approach from having stakeholder forums so as not to conflict with another project supported by the State. Instead, information was gathered from a variety of sources, including previously-published materials, an online survey, and through small meetings, and consultations with individual stakeholders.
- Meetings included members of the Coral Reef Working Group, which oversees the activities of the State of Hawai'i's Local Action Strategies; we have been able to obtain information and suggestions for activities which directly support LAS implementation and NOAA's new site-based prioritization for Hawai'i.
- The *Maui Marine Protected Areas Recreational Management Analysis* report was completed, and is attached along with this Final Report. (See "Attachment 1"). Key findings include:
  - Continued monitoring of herbivorous fish population in Honolua to ensure that the invasive algae population is kept to a minimum. Particularly, due to the increased potential for poaching, (page 25).

- Dolphins, turtles, and other marine life, continue to be harassed, fed, and surrounded, so campaigns such as the “Take a Bite out of Fish Feeding” need to be continued, as well as education and enforcement of marine resting areas, (page 27).
- Administratively, different agencies, and organizations are responsible for various aspects of managing Honolua Bay, Molokini MLCD, and the islet, yet there is a lack of understanding from all partners about what each is responsible for. As such, it is recommended that all managing entities should coordinate, and share information, to ensure common vision, defined roles, and responsibilities for implementation of the management plan, (page 32).

## **Objective 2: Conduct Conservation in Action Trainings and Community-Based Conservation Microgrants**

### *CIA workshops*

- Conservation in Action workshops were held in December 2008 and January 2009, which introduced participants to CORAL’s microgranting program, and the new criteria that applied.
- In accordance with this project’s goals, the criteria for microgrant selection were revised, in order to include the linkage to, and support of, Maui Marine Managed Areas, and also factored in management support of the proposed project. A rubric was created to reflect these, and other criteria. (See “Attachment 2”).

### *Projects/their support of management objectives/LASes*

- **Eight microgrant projects were selected and funded.** Detailed information about these microgrants was reported in our July 30, 2009 “Progress Report.
- **The Maui Snorkel Trails Project**
  - Current State: Rick Long has had numerous meetings with resource managers, community members, and agency representatives. He has field-tested materials, and is still determining feasibility, appropriateness, and permitting process of installing anything in the benthic habitat. He has determined removable signage is probably the approach that will be most feasible. At the suggestion of the Division of Aquatic Resources (DAR), he is working on educational/interpretive pamphlets to accompany a snorkeling excursion. He is also consulting with schools, and County representatives about a “beach ambassador” program for local youth, which will help youth gain experience that could benefit future employment opportunities.
  - Project’s Benefit – provides outreach and interpretation, benefit sharing for local youth, mentorship opportunities for local marine recreation businesses, and has the potential to reduce usage at popular Marine Life Conservation District (MLCD) sites
- **Roi Round-Up**
  - Current State: The presence of Roi, an invasive fish species in Hawai‘i, has propelled the “Roi Round-Up,” a tournament where over 100 participants

compete to catch the most roi. A website was created for the event and housed on CORAL's site, as well as integrating education outreach displays into the event. T-shirts and educational materials were also disseminated.

- The Roi-Round-Up is supportive of the Aquatic Invasive Species Local Action Strategy, and a partnership between the Maui Division of Aquatic Resources, County of Maui, and University of Hawai'i to conduct roi eradication and ciguatera studies.
- **Porta-Potties**
  - Current State: porta-potties servicing was supported for first two months beginning April 2009; rest of first year funding provided by Save Honolulu Coalition; Maui Land & Pineapple Company currently seeking grants to continue to support their maintenance as interim measure for Honolulu Bay.
  - Community event held for Earth Day to launch the porta-potties and raise awareness of their existence, and their importance for sewage abatement in Marine Life Conservation Districts, as well as other conservation issues at Honolulu Bay.
- **Ho'i Loa Educational DVD**
  - Current State: to deepen the impact of outreach efforts, a crew filmed an outreach event that was held in conjunction with a community gathering; the DVD is still in production but we will seek distribution on Akaku community television and other outlets to promote continued education.
  - Addresses Aquatic Invasive Species LAS objectives...promoting growth and restoration of native limu (marine algae) species.
- **Kahea o ke Kai (Calling of the Ocean)**
  - Current State: student and youth center groups have gone on numerous snorkel charters with Trilogy Excursions to Molokini MLCD and shore-based snorkeling trips; experiential education has resulted in posters, murals, video PSAs that are being played on local community television. Exploring wider distribution of murals such as at a local airport.
- **Mauka to Makai Water Quality Monitoring**
  - Several community presentations and field training have been held across Maui, including Honolulu Bay. Efforts integrated with Ocean Awareness Training and existing community volunteer efforts.
  - This effort is allowing citizen scientists to gather valuable data that will be of use to the Department of Health and may help trigger ongoing assessment.
- **Hawai'i EcoTube**
  - The EcoTube website, YouTube channel, Facebook page and Twitter account have been launched and interlinked. Community presentations have been delivered to empower stakeholders to get involved. Discussions have arisen and action has been taken as a result of postings; for instance Kirin Chinese Restaurant in Hilton Waikoloa Village took shark fin soup off its menu as a result of Hawai'i Ecotube supporters writing to the restaurant, and its host hotel.
  - Flip video cameras have been made available to local stakeholders to document examples of both good and poor practices.

- **Maui Community-Based Coral Reef Monitoring Support**

- Hawai'i Division of Aquatic Resources has set up two cameras with underwater housings, which are being used for ongoing community-based reef monitoring efforts. Volunteers can borrow cameras to document sightings for DAR, and the Eyes of the Reef Monitoring Network, a project in support of the Aquatic Invasive Species Local Action Strategy.

**Objective 3: Launch CORAL Reef Leadership Network & Environmental Walk-Throughs (EWT)**

Due to the unanticipated outcomes with the voluntary standards on Maui, CORAL's approach with the Leadership Network needed to be adapted. During the project period, considerable time was spent exploring opportunities where the skills, expertise, and resources marshaled by this program would have the most significant impact. While assisting with microgrant project implementation was seen as a key role for Leaders, a more strategic set of objectives has emerged as a primary focus. This new strategy determined that securing commitments from businesses to perform Environmental Walk-Throughs (EWT) were not the best use of resources, considering the Maui Marine Tourism sector's disengagement from a multi-stakeholder voluntary standards process. CORAL decided to instead direct resources into CORAL reef leaders as driving the micro-grant implementation process. In discussions with Division of Aquatic Resources staff, it has become clear that the new Marine Managed Area (MMA), which went into effect July 25<sup>th</sup>, 2009, the Kahekili Herbivore Fisheries Management Area, (KHFMA), is a top priority for the State, and now the Federal objectives, as defined under the NOAA Coral Program. In order for this new MMA's effectiveness to be evaluated, its implementation must also be effective. With limited resources, and capacity for enforcement, the State is in need of active assistance. Both visitors, and residents, need to be made aware of this new area, and its rules. Recognizing the numerous hotels surrounding the KHFMA, our team has developed, in partnership with DAR, a presentation for hotel management, and staff. We are also exploring directed outreach to schools in the area, as local students, many of them spear-fishers, should be aware of the new fishing restrictions in the KHFMA.

Other roles for the Leadership Network include assistance in developing tools to promote best practices, and conducting outreach targeted towards unguided visitors. The West Maui area surrounding the KHFMA has been scoped out as the main site in which to conduct strategic outreach, where materials that support more effective interpretation, and also delineate the rules, and boundaries of the KHFMA can be distributed. In addition, one of the assessment tools that was created for the West Hawai'i voluntary standards project, has been adapted for use with the Maui marine recreation community of residents and visitors, and has incorporated questions regarding the KHFMA. (See "Attachment 3"). This tool has been disseminated to community members, and new venues and contexts (including online surveys) are currently being explored. For instance, this tool may be provided to the concierge, and activity agencies' staff who routinely participate in ocean activities in order to evaluate the product they sell to visitors. We have begun by piloting it with limited distribution but hope to expand its scope in the near future. One of the key goals is to communicate best practices to visitors, and residents who may not

otherwise know what to look for, and to empower them to assist in promoting accountability within the commercial marine tourism sector on Maui.

**Additional Outcomes (short term and any potential long term):**

The *Maui Marine Protected Areas Recreational Management Analysis* report, completed as a result of this project, has succeeded in identifying numerous projects, approaches, and opportunities for collaboration that may be addressed on both a short- and long-term timeframe, such as long term in-situ turbidity monitoring to address land-based pollution (see page 23 of the report).

One often-encountered issue that emerged during this project concerns attendance at meetings, and workshops. Many people expressed much interest in the *Conservation in Action* micro-granting program, but were unable to attend any of the workshops. This initially required considerable one-on-one attention, but a response was then devised to address this constraint in an ongoing manner. A comprehensive guide to CORAL's micro-granting program was created (see "Attachment 4"), which included an overview of the program, criteria for projects, worksheets to facilitate project development, and suggested project ideas that were in part based on the stakeholder, and marine resource manager feedback that had been collected in the process of preparing the *Maui Marine Protected Areas Recreational Management Analysis* report.

During initial discussions with resource managers concerning this project, an idea emerged which was immediately determined to be of high priority, but beyond the scope of community-based implementation. The development of an online repository for citizen science data that supported managers' objectives was outlined, and funding was immediately sought from NOAA, and the Hawai'i Tourism Authority. However, with the knowledge that the resources were being obtained to develop this tool, we were able to strategically steer microgrant projects in a direction which would ultimately dovetail with and utilize this resource.

**Scope:** A web-based site for data entry is being established as a "one-stop shop" for volunteers to enter information that corresponds to various community-based protocols, and simple observations that can be made while out on the water. These protocols include data such as the herbivore grazing study, and other information deemed to be of monitoring, and management value, by the Hawai'i Division of Aquatic Resources. Links will be established to other protocols with online data entry (such as REEF and Reef Check) so as not to duplicate efforts; this will allow for all relevant resources to be compiled in one, easy to access location.

**LAS Impacts:** This project will result in a valuable tool benefiting all LAS programs.

**Project Overview:**

Volunteer surveys, and monitoring projects are becoming popular activities around the State of Hawai'i, and particularly around the Island of Maui. The Reef Environmental Education Foundation (REEF) has implemented a web based data entry program for their national volunteer program, and Reef Check has implemented a web-based platform, and phone hotline — the "Eyes of the Reef" program — for their volunteers to enter coral disease, and bleaching information. Other projects include the joint UH Botany, and DAR herbivorous fish grazing

volunteer surveys. Many volunteer surveyors are involved in numerous different projects, and they are currently required to visit different websites to enter their data for different survey projects. Other information of note is not currently being gathered by any online data entry system, but would be invaluable for monitoring, management, and “early detection” purposes. In addition, many commercial operators in the marine recreation community are oftentimes the first to notice ecosystem changes, and occurrences such as algae blooms or Crown of Thorns sea stars.

**Value to Management:**

Valuable data can be gathered from volunteers, but it is critical to make entering, and analyzing this data as simple, and as user-friendly as possible. In order to achieve this, a specific web site should be designed, maintained and updated in an effort to create a clearing house site for volunteer surveyors to link to other data entry websites (i.e. REEF, Reef Check), to enter basic observational information from their survey dives (i.e. coral disease info, presence of Crown of Thorns sea-stars, presence or absence of large grazing schools, presence or absence of large parrotfish, jacks, sharks, etc), and to help track volunteer time commitments for in-kind purposes.

Currently volunteers may observe simple things that are of critical management importance but are not part of their projects’ specific methods. They would therefore, have no way to record, and enter this information. State resource managers need to find ways to better gauge the effectiveness of their management efforts, and simple observational information regarding coral, and fish diseases, and fundamental changes in the presence and/or absence of critical grazing fish can be of critical importance.

In addition, many non-profits, and government agencies depend on grants to support their monitoring efforts. The time that volunteers put into these projects can be used as matching in-kind funds, and therefore greatly expand the amount of resources available to work with volunteers, while gathering critical resource management information.

**Lessons Learned, Next Steps, and Management Recommendations:**

CORAL intends to continue monitoring, and assisting in the facilitation, and completion of the micro-grant projects. Many of the projects have spurred “offshoot” ideas, and it has also become apparent that they will overlap in objectives with each other as well as the online monitoring web portal, and other new objectives CORAL has identified in conjunction with the development of the *Maui Marine Protected Areas Recreational Management Analysis* report.

CORAL Reef Leadership Network – An exciting development that emerged towards the end of the project period will provide a more long-term opportunity for the Leadership Network, as CORAL entered into a partnership with the County of Maui along with the Hawaiian Islands Humpback Whale National Marine Sanctuary, and DLNR to help design, and conduct a new training for commercial ocean recreation permit holders. Elements of CORAL’s Sustainable Marine Recreation (SMR) training are being integrated into this new program, which will be required of all permit holders by 2010.

With the completion of the online web portal, and volunteer community-monitoring teams in

place, we can begin to more actively weave these projects together. For instance, a water quality monitoring team may utilize the cameras, and equipment from a number of microgrant-supported projects – such as DAR’s community-based monitoring, Water-Quality equipment housed by the Digital Bus and Aquanimity Now, or Hawai‘i EcoTube’s video cameras – and after receiving training in a visual assessment protocol, they may upload their data to the online web portal, and also post photos to the Hawai‘i EcoTube website in order to educate the general public, and help with ongoing training. It is clear that more hands-on in-situ training opportunities are needed to facilitate these efforts, and CORAL will continue to work with community partners, schools, and DAR to explore methods of reaching and training the most volunteers.

It is also clear that methods of obtaining more sustainable financing for conservation are needed in order to address the outreach necessary for the many hotels in the immediate Lahaina/Kaanapali area. Volunteers’ capacity is limited, and the Leadership Network is seen as a consistent means of conducting the extensive outreach necessary for effective implementation of the KHFMA.

As a result of this project, other programmatic ideas have emerged, and are actively being pursued at this time. Integrating some components from, and building upon the Maui Snorkel Trails program, CORAL plans to work with local partners to develop a Youth Institute for Marine Resource Sustainability to give local youth an opportunity to gain knowledge about marine science, resource management, NGO operations, and tourism, and to develop specific experience, and skills which will prove useful in career development, and local job seeking. This program will also address CORAL’s Community Benefit Sharing objective from our CRSD model.

Another key project we would like to develop on Maui is the establishment of Roving Reef Rangers, focused on Marine Managed Areas. Through shore-based, and vessel support, and in partnership with DAR, and the Hawaiian Islands Humpback Whale National Marine Sanctuary (HIHWNMS), we will fill a much-needed gap in education, and enforcement, and will work closely with the local DAR, DOCARE- Division of Conservation and Resource Enforcement- and HIHWNMS offices in order to create a program that supports management, and resource needs. The latter two programs will dovetail in providing additional training, and outreach venues for local youth and community volunteers, and will support existing MMAs on Maui, particularly the KHFMA. An increased presence in these areas will serve as a deterrent to violations, and will also provide an opportunity for on-site education, and the assessment of commercial operations’ best practices. This will promote accountability for these practices, and provide a means by which needs can be addressed through a collaborative team of volunteers assisted by CORAL’s Leadership Network.

*For your reference, we have included notes that were submitted in our previous report*

**Objective: Develop Recreational Management Analysis**

**Action Item: Recruit and hire MPA consultant**

**Status: Completed**

Recruited and hired Jill Komoto, former Marine Managed Areas Specialist with Hawai'i Division of Aquatic Resources, to assist with the development of the recreational management analysis report.

**Action Item: Compile existing MLCB regulations and management plan and conduct stakeholder interviews**

**Status: Completed**

Liz Foote, CORAL's Hawai'i Field Manager, has gathered information to include in the report through meetings and discussions with stakeholders; she also coordinated the development of an online survey instrument to gather input and feedback for the report. Her outreach initiatives included:

- Discussions with Division of Aquatic Resources staff
- Feedback and suggestions for projects from community members and marine recreation providers participating in the Ocean Awareness Training program on Maui
- Ongoing discussions with Honolua community groups' representatives

**Action Item: Conduct public forums**

**Status: Cancelled**

CORAL has moved away from the stakeholder forum format in order to coordinate (and avoid duplicating efforts) with another project being supported by the state, The Molokini Shoal Local Action Strategy project, which seeks to 'identify desired objectives and conditions for the site,' and 'identify and prioritize social, facility, and resource indicators that will be measured and monitored to ensure that visitor experiences, operator capacity, amenity values, and natural resources do not deteriorate.' Outcomes should assist in further informing our project, in terms of identifying issues and opportunities.

**Action Item: Pre- and post-forum stakeholder surveys**

**Status: Cancelled**

Due to the aforementioned scenario and consequent change in format, CORAL did not conduct pre- and post-forum surveys.

**Action Item: Recreational management analysis compiled and MPA consultant report completed**

**Status: Analysis Completed and Report In Progress**

Jill Komoto is still working on the report itself, but, as an interim deliverable, has analyzed and compiled information from various reports and resources (including Marine Managed Areas Focus groups outcomes; Honolua Bay Review: A review and analysis of available marine, terrestrial and land-use information in the Honolua Ahupua'a Maui 1970-2007; Recreational Carrying Capacity Evaluation of Honolua Bay; and others), in order to present a list of community-driven projects that would address threats, fill gaps, and assist management. This list is a compilation of recommendations and management analysis that will provide the base for the final report.

**Completed**



Jill Komoto has completed the final report, which will be attached in its entirety with the final report for this project. Its table of contents is presented below:

Section 1. INTRODUCTION

- A. Overview of the Planning Process
- B. Management Goal & Objectives

Section 2. BACKGROUND INFORMATION

- A. Description of Honolua-Mokulē'ia Marine Life Conservation District
  - 1. Size and location
  - 2. Marine benthic habitat
  - 3. Coral reef resources
  - 4. Wildlife resources
  - 5. Cultural Resources
  
- B. Description of Molokini Shoal Marine Life Conservation District
  - 1. Size and location
  - 2. Marine benthic habitat
  - 3. Coral reef resources
  - 4. Wildlife resources
  - 5. Cultural Resources
  
- C. Maui MLCD Recreation use
  - 1. Recreational tourism in Hawai'i
  - 2. Historical and Cultural Recreational Use
  - 3. Current Recreational Use
  - 4. Formation of the MLCD
  - 5. From Stewardship to Management
  - 6. Benchmarks to Guide Future Management

Section 3. RECREATION MANAGEMENT

- A. Recreational Use Issues & Actions
  - 1. Public Access
  - 2. Social/Ecological Carrying Capacity
  - 3. Aquatic Invasive Species
  - 4. Coral Reef Impacts
  - 5. Cultural/historical resource impacts
  - 6. Aquatic invasive species impacts
  - 7. Aesthetic impacts
  - 8. Marine mammals, turtles and fish impacts
  - 9. Human Waste impacts
  
- B. Management Programs
  - 1. Facility improvements
  - 2. Visitor Education
  - 3. Mooring Buoys

4. Environmental & Social Monitoring
5. Partnerships and collaboration

Section 4. OTHER CONCERNS

A. Administrative Issues

1. Roles of the Managing Partners
2. Enforcement
3. Land ownership
4. Sustainable funding

B. External Influences

1. Lack of awareness
2. Land based pollution
3. Promotion of the Resource and Boating
4. Promotion of tourism

Section 5. Conclusion and Major Recommendations

**References**

Appendix A. Potential community projects

Appendix B. Summary of Coral Reef Alliance Workshops: Threat assessment and Potential Solutions

Appendix C. List of reports, books, studies related to Honolulu-Mokulē'ia Marine Life Conservation District

Appendix D. List of reports, books, studies related to Molokini Shoal Marine Life Conservation District

**Objective: Conduct *Conservation in Action* Trainings and Community-Based Conservation Microgrants**

**Action Item: Recruit participants and conduct *Conservation in Action* trainings**

**Status: Completed**

CORAL conducted a *Conservation in Action* workshop on Maui on December 18, 2008. At this workshop, CORAL staff shared a suggested project list compiled from Jill's document and facilitated a discussion of other project ideas that had emerged in stakeholder interviews and the online survey.

Thirteen people attended the workshop, but CORAL received significantly more interest via email and phone calls from those who would like to develop projects but were not able to attend the training. The volume of interest from those unable to attend prompted the development of a comprehensive resource guide that outlines the content of the workshop, the instructions on

preparing a proposal, and the list of suggested project ideas. This resource guide was disseminated via email to additional stakeholders who could not attend the December workshop.

**Conservation in Action Workshop Attendees**

Name		Affiliation
Ellen	Federoff	Digital Bus
Napua	Barrows	Waihee Limu Restoration Project and Waihee School
Jill	Quaintance	Trilogy Excursions & Ambassadors of the Environment
Fred	Litt	retired
Gordon	Clay	DIRE
Helen A	Schonwalter	Waihee Limu Restoration Project
Peter	Rosen	VARIOUS Media
Don	Brown	retired
Rick	Long	community volunteer
Stephanie	Kowalski	Maui Invasive Species Committee
John	Voxland	Island Unique
John	Mitchell	DAR
MiQe	Klemme	Maui Thrills Eco Nature Tours & CORAL Leader

**Action Item: Select projects and award microgrants**

**Status: In progress**

CORAL has received two proposals for community microgrant projects, and is actively working with stakeholders to assist with the development of additional proposals. We are currently evaluating the proposals that have been received, and ongoing workshops and “working meetings” have been scheduled in order to facilitate the development and implementation of projects that are chosen. The Leadership Network representatives will assist with project implementation and support, and will recruit other members to the volunteer teams.

**Completed:**

In total, CORAL awarded over \$26,000.00 in microgrants to support eight community-based projects. These include:

- 1.) Maui Snorkel Trails (Maui Ocean Stewards): Support to identify alternate snorkel sites on Maui’s South and West beaches, establish marked snorkel trails to guide novice swimmers and snorkelers and alter reef damaging behavior by snorkelers, develop public awareness of human impacts on coral reefs, and create employment opportunities for local youth as underwater naturalists (snorkel guides) to assist and educate novice snorkelers.
- 2.) Roi Round-Up (Maui County and Tri-Isle RC&D): Support for education and outreach, and t-shirt production for the invasive species spearfishing tournament series held on Maui.
- 3.) Porta-Potties and Community Stewardship for Honolua Bay (Save Honolua Coalition): Support for maintenance of porta-potties and collaborative launch event at Honolua Bay.
- 4.) *Ho’i Loa* Educational DVD (Waihe’e Limu Restoration Foundation): Support of the production of an educational resource focusing on the importance of limu (seaweed) on the reef, and outlining best practices for restoring native limu and eliminating invasive species within a cultural context.

- 5.) *Kahea o ke Kai* (“The Calling of the Ocean”) Experiential Education and Outreach materials development (Alaka‘ina Foundation): support for students’ students to visit Maui Marine Managed Areas (Molokini, Kahekili and/or Honolua Bay) to gain a first-hand experience of the coral reef environment. document their experience, and create public service announcements and murals to disseminate throughout the community to raise awareness about protecting reefs.
- 6.) Mauka to Makai Water Quality Monitoring (Aquanimity Now and Maui Digital Bus): Support for equipment and supplies to assist with development and expansion of community-based water quality monitoring efforts, particularly at Honolua Bay.
- 7.) Hawai‘i EcoTube (John Mitchell, CORAL Leadership Network and Maui Digital Bus): Support for camera equipment used in association with a community-based online resource. The purpose of which is to accumulate photographic and video documentation of short- and long-term instances of natural resources impacts, with the intention of to raising awareness through objective documentation of these impacts and occurrences, initiating an honest dialog, and providing a forum for progressive improvements as well as to showcase current and ongoing sustainable practices.
- 8.) Maui Community-Based Coral Reef Monitoring support (Hawai‘i Division of Aquatic Resources): Support for camera equipment for reef monitoring efforts.

**Action Item: Collect summative project reports**

**Status: Not Started**

Once the projects are fully implemented, the CORAL Leadership Network will assist in monitoring and facilitating both their impact and evaluation.

**In Progress**

Summative project reports are in the process of being collected and compiled. All projects have begun, with several having been completed entirely, while others have completed components or phases of their work.

In order to evaluate the projects, we are conducting meetings and interviews, as well as reviewing photos and reports from the groups and individuals coordinating the projects.

**Objective: Launch CORAL Reef Leadership Network & EWT**

**Action Item: Select six participants for leadership academy**

**Status: Completed**

<b>Name</b>	<b>Affiliation</b>
Donna Brown	Maui Community College Marine Option Program
John Mitchell	Hawai‘i Division of Aquatic Resources
Linda Castro	Jean-Michel Cousteau’s Ambassadors of the Environment Program at the Ritz-Carlton Kapalua
Stephanie Kowalski	Maui Invasive Species Committee
Emily Carlson	Hawaiian Islands Humpback Whale National Marine Sanctuary
MiQe Klemme	Maui Thrills Eco-Nature Tours

**Action Item: Schedule, secure venue for, and conduct Reef Leaders Academy**

**Status: Completed**

The Reef Leaders Academy was conducted in August of 2008 at the education center of the Hawaiian Islands Humpback Whale National Marine Sanctuary.

**Action Item: CORAL Field Manager to conduct follow-up to test for understanding**

**Status: In Progress**

Hawai'i Field Manager Liz Foote currently working with the Reef Leaders to perform assessment and prepare for deployment. Based on stakeholder feedback, Leadership Network is now exploring outreach strategies which focus on the "unguided visitor" and education for hotel staff and in particular the hotels' associated water sports businesses. They are also exploring the concierge and activity agencies, which promote gear rental and unguided snorkeling.

**Completed:**

The Maui Reef Leaders' roles have been structured so that they can assist with ongoing projects, particularly microgrant implementation, and provide assistance in supporting local marine managed areas' effectiveness. An adapted module of the CORAL Sustainable Marine Recreation training has been created in association with the Hawai'i Division of Aquatic Resources in direct support of the new Kahekili Herbivore Fisheries Management Area; this module is targeted towards the staff of hotels and their associated businesses, in order to provide ongoing training in sustainable practices and new rules and regulations for this area. Leaders are being enlisted to provide the training on an ongoing basis.

In order to evaluate the participants' understanding, interviews will be conducted and an evaluation tool in the form of a likert-scale will be developed and implemented before and after training sessions.

**Standards and EWT Update**

Because the multi-stakeholder voluntary process was derailed by a splinter group of marine recreation providers, who ultimately decided against a consensus driven process, CORAL has reconfigured some of the details surrounding our Environmental Walk-Through evaluation program. As the EWT depends upon the standards, we have modified a three-part Environmental Practices Evaluation (EPE) from our Mesoamerican Reef program and we will implement this tool in Kona. This EPE will involve 1) self-monitoring; 2) peer-to-peer review; and 3) a secret shopper component. CORAL will complete the following action items:

1. Secure MOU's with operators
2. Implement an evaluation schedule
3. Deliver custom performance assessments to operators
4. Conduct follow up assessments

**In Progress:**

In association with standards-development efforts in West Hawai'i, the evaluation approach was modified appropriately. Assessment materials have been developed, and are being implemented by the West-Hawai'i-based Field Coordinator, and Leadership Network team. A checklist was created based on the standards' outcomes, for SCUBA Diving, Snorkeling, Snuba, Wildlife Interactions, General Boating (including surfing and kayaking), and shoreline activities. This

checklist is being used in self-evaluations, and peer-to-peer assessments, with operators who have reviewed and accepted an MOU developed by CORAL. In addition, a partnership was formed with a local activity agency which is handling the booking of anonymous secret shopper assessments aboard West Hawai'i marine tour operations. Finally, the standards development taskforce developed a passenger exit survey as part of the standards. Outcomes from these evaluations will serve as performance assessments and will be made available to the businesses. These findings will inform training opportunities, and the Leadership Network will assist in follow-up assessments on an ongoing basis.

These materials may be shared with Maui-based marine tourism businesses and resource management agencies upon request.