

# **HAWAI‘I OCEAN RESOURCES MANAGEMENT PLAN**

## **2008 Report to the Twenty-Fifth Legislature, Regular Session of 2009**

Submitted by the Hawai‘i Coastal Zone Management Program  
Office of Planning  
Department of Business, Economic Development and Tourism

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# **HAWAI‘I OCEAN RESOURCES MANAGEMENT PLAN**

## **2008 Final Report to the Twenty-Fifth Legislature,**

### **Regular Session of 2009**

Senate Concurrent Resolution No. 137, H.D. 1, Regular Session of 2005, designates Hawaii's Coastal Zone Management Program (CZM) and its lead agency, the State Office of Planning (OP) with responsibility for the overall implementation of the ocean resources management plan (ORMP). This is a status report detailing ORMP project-related activities in calendar year 2008.

#### **I. Introduction**

The Hawai‘i Ocean Resources Management Plan (ORMP) is a statewide plan mandated by Chapter 205A of the Hawai‘i Revised Statutes (HRS). The plan is an integrated, place-based approach to management of ocean resources in the islands. This approach builds upon recognition of the ecological connections between land and sea, of the links between human activities and environment, and of the need for improved collaboration and stewardship in natural resources governance. A new vision for Hawaii’s ocean resources has been framed by a set of concrete management goals and strategic actions to be addressed through a logical progression of five-year implementation phases that will guide State agency work over the next 30 years. In order to implement and further develop the ORMP, in the summer of 2007 the Office of Planning Coastal Zone Management (CZM) Program established a Policy Group and a Working Group made up of state and county agencies, our federal partners, academia, and community groups. This is a status report of the progress of the ORMP Policy and Working Groups in implementing and further developing the ORMP in calendar year 2008.

#### **II. Background**

The Hawai‘i Ocean Resources Management Plan (ORMP), published in 1991, was developed by a multi-agency, cabinet-level council that included private sector and non-governmental representatives. The ORMP set forth guiding principles and recommendations for the State of Hawai‘i to implement in order to achieve comprehensive and integrated ocean and coastal resources management. In addition to overall recommendations for a new governance structure and a comprehensive management system, the Plan included a series of specific policies and implementing actions for ten resource sectors. The Legislature adopted the ORMP in 1994 and enacted legislation in 1995 to incorporate the plan into the CZM Program. A review of the ORMP was conducted in 1998, revealing a need for a revised ORMP to address declining funds and personnel, changing priorities, and new concerns relating to ocean resources management. Section 205A-62, HRS, charges the Office of Planning (OP) with the review and periodic update of the ORMP as well as coordination of overall implementation of the plan. On December 28, 2006, an updated ORMP was submitted to the 24th Regular Session of the Hawai‘i State Legislature in fulfillment of Senate Concurrent Resolution No. 137, H.D. 1, Regular Session of 2005, and Section 205A-62, HRS.

#### **The Revised ORMP: A Three-Perspective Framework**

Updating the ORMP involved extensive outreach and input-gathering with participation of various stakeholder groups, government agencies, and the public over a period of eighteen

months. The culmination was the 2006 ORMP. The updated plan is an integrated, place-based approach to management of ocean resources, based on land and sea links, the role of human activities, and improved collaboration in governance. Each of the framing perspectives are accompanied by concrete management goals and strategic actions to address them in five-year implementation phases over the next 30 years.

### **Perspective 1: Connecting Land and Sea**

*Careful and appropriate use of the land is required to maintain the diverse array of ecological, social, cultural, and economic benefits we derive from the sea.*

Strategic actions recommended under Perspective 1 include reducing soil erosion and pollutant loads, developing beach management plans, and protecting priority coastal areas and communities from coastal hazards.

### **Perspective 2: Preserving Our Ocean Heritage**

*A vibrant and healthy ocean environment is the foundation for the quality of life valued in Hawai‘i and the well-being of its people, now and for generations to come.*

Management goals emphasize the improvement of coastal water quality, strengthening marine protected area management, enhancing community capacity to restore and operate Hawaiian fishponds, and promoting sustainable ocean-based tourism.

### **Perspective 3: Promoting Collaboration and Stewardship**

*Working together and sharing knowledge, experience, and resources will improve and sustain our efforts to care for the land and sea.*

This perspective highlights the need for community participation in cultural and natural resources management and the exploration of place-based approaches, including Native Hawaiian principles of land division such as ahupua‘a.

## **III. Implementation**

Charged with coordinating the implementation of the ORMP, the CZM Program established an ORMP Policy Group and an ORMP Working Group in the summer of 2007. The Policy Group consists of the directors of the affected state agencies and counties. The Working Group consists of managers and staff of the same groups. The University of Hawai‘i and the Marine and Coastal Zone Advocacy Council, OP’s citizens’ advisory group, are also represented in these groups.

### ***ORMP Policy Group/Working Group Members***

With the addition of two more agencies in 2008, the full list of agencies and groups represented and participating on the ORMP Policy and Working Groups are:

- Board of Water Supply, City and County of Honolulu,
- County Planning Departments: Hawai‘i, Kauai & Maui,
- Department of Agriculture, Aquaculture Development Program,
- Department of Defense, State Civil Defense,

- Department of Health,
- Department of Land and Natural Resources,
- Department of Transportation, Harbors Division,
- Marine and Coastal Zone Advocacy Council,
- National Oceanic and Atmospheric Administration,
- Office of Hawaiian Affairs,
- Office of Planning, Coastal Zone Management Program,
- U.S. Coast Guard, and
- University of Hawai‘i, School of Ocean and Earth Science and Technology.

The Policy Group had previously tasked the Working Group with identifying implementation priorities, creating a work plan for implementation, and selecting results indicators for the identified priorities. During the past year, the Working Group has presented to the Policy Group the following:

- A. Implementation work plan through 2009, which includes results indicators,
- B. Implementation priorities,
- C. Two proposals that would enhance ORMP planning and implementation among agencies and address our future priorities.

***A. ORMP Implementation Work Plan (2007-2009)***

There are a total of 113 strategic actions in the ORMP, each of which recommends lead agencies for implementation. Since agencies could not be expected to implement all 113 actions all at once, Working Group members with responsibility to implement these actions went through the list and picked out which ones their respective agency was actively implementing or intending to implement between July 2007 to June 2009. Then each agency prepared a work plan on how they would be implementing these specific strategic actions, including results indicators, known budget information, and completion dates. Once final agency work plans had been received, they were consolidated into one large state work plan<sup>1</sup>. The final work plan indicates that 69 out of the 113 ORMP strategic actions, or 61%, are currently being implemented by agency Working Group members. Some preliminary analyses of the work plan are given below.

*State Projects*

According to the final work plan, there are there are a total of 137 projects that state and county agencies will be working on that will serve to implement ORMP strategic actions through June 2009. Of those 137 projects, 55 are not yet started, 58 are currently in progress, 11 have been completed, and 13 are ongoing programs and initiatives. For a summary list of projects in the work plan, please see Appendix A. To see the full work plan, download it at:

<http://www.state.hi.us/dbedt/czm/ormp/ormp.php>.

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<sup>1</sup> DLNR has organized internal teams to implement this ORMP management goal and strategic action by focusing on four stewardship management priority areas statewide (Kealakekua Bay, Kaena Point, Ahihi Kinau, and Haena) in order to better integrate common resource management functions of the different DLNR divisions. DLNR work plans for each stewardship management areas are currently being developed, and therefore are not included in the consolidated state work plan at this time. Opportunities for collaboration among other agencies and community groups will be identified at a later date.

### *Budgetary Information*

Budgetary information was not provided for the majority of projects in the work plan. Out of the 137 combined projects listed, the 34 projects that did provide specific budget numbers indicate the actual cost of implementation totals more than \$17,523,283. The agencies also expressed a need for an additional \$1,648,020+ in order to carry out and complete 18 of their projects. Several agencies noted that their projects required millions of dollars that they do not currently have.

### *Other Needs Identified*

Other needs besides actual dollar amounts indicated by the agencies included additional staff, staff training, accurate data, dialogue among agencies, federal approval of projects, GIS capability, Legal Council support, SMA Rule amendments, additional funding, and Legislative action.

### ***B. ORMP Implementation Priorities***

Out of the 69 strategic actions being addressed in the current Working Group work plan, the specific management goals in the ORMP with which the most strategic actions that were identified as top priorities<sup>2</sup> for implementation by Working Group members were the following:

#### **Perspective 1: Connecting Land and Sea**

Management Goal: Improve coastal water quality by reducing land-based sources of pollution and restoring natural habitats.

Management Goal: Protect beaches, wetlands, and coastal communities from shoreline erosion and other coastal hazards.

#### **Perspective 2: Preserving our Ocean Heritage**

Management Goal: Enhance public access and appropriate coastal dependent uses of the shoreline.

### ***C. Proposals for 2009***

Despite devoting substantial time and effort, the Working Group did not reach consensus on a legislative proposal to improve the ORMP and its implementation. The complexities of the interests and the contrasting perspectives at work require more deliberation. In addition, before progress on this topic can be made, the Working Group realized that the group needed clarification on the context, protocols, and expectations relating to their collective work (see operating protocols in Section VII. Working Group Next Steps).

Although no legislative proposals for the 2009 session were put forth, the Working Group did collectively submit two proposals to the Policy Group for endorsement. Both proposals require financial support, a difficult proposition during the current budget crisis. However, the Working Group believes these proposals are important due to their potential to improve ocean and coastal planning and management. Both proposals were presented to the Policy Group and unanimously

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<sup>2</sup> Top priorities were determined by the number of agencies (3+) actively implementing specific strategic actions. For a full list of strategic actions being implemented, see the full work plan and/or the work plan summary.

endorsed, with the condition that non-state funding will be sought. The two proposals presented were:

*Studying the Impacts of Global Climate Change in Hawaii*

The first proposal requests endorsement and support in seeking funds for a comprehensive study of the impacts of global climate change on Hawaii. The Working Group believes that such a study is an essential precursor to an effective and collaborative planning approach to address future impacts. Indeed, a proactive approach to developing adaptation strategies will reduce or minimize the anticipated economic, social, and environmental costs associated with the impacts.

*Data Integration for the Purpose of Improved Ocean Resource Management in Hawai‘i*

The second proposal is a data integration project to be carried out within the Hawai‘i Ocean Observing System (HiOOS). The goal is more consistent planning and implementation among agencies, which will be accomplished through the development and use of a common database. The Working Group requested policy feedback on the potential for pooling the necessary fiscal resources to develop the system to integrate the existing data of the Working Group agencies. HiOOS will translate data sets, design and develop programs, and develop the necessary web services to integrate the data into a cohesive system.

To see the full proposals, please refer to the CZM website at:

<http://www.state.hi.us/dbedt/czm/ormp/ormp.php>.

#### **IV. CZM Funding Awards to Implement the ORMP**

A primary objective of the CZM Program is to coordinate the implementation of the ORMP by promoting collaborative governance and stewardship. To this end, the CZM Program received federal approval to use discretionary CZM funds for coordinated implementation activities to support the ORMP. The following ongoing or completed projects were supported using federal CZM grants:

*Hilo Bay Watershed Advisory Group Web Site Project*

This project involves the design, development, implementation, and administration of a professional-quality interactive website for use by the wider community to address the Hilo Bay Watershed Advisory Group mission, which is to “bring the community together to understand and protect the ecology of the Hilo Bay Watershed”.

*Hilo Bay Watershed Advisory Group Water Quality Monitoring Program*

This program identifies pollutants that may need application of Best Management Practices to bring suspect waters into compliance with current water quality standards.

*Tsunami Education, Preparation & Recovery Plan for Downtown Hilo*

This project addresses the risk that the Downtown Hilo business community faces from tsunami inundation, including storm surge and coastal flooding.

*Making a Difference: An Action Guide to Marine Conservation in Hawai‘i*

This project was designed as a community tool to promote marine stewardship. The Guide booklet provides key information, guidelines, and contact information for marine resource conservation and enforcement of rules and regulations.

*Prioritizing Beach and Shoreline Resource Conservation: Phases 1-4 of a 5 Phase Project*

Phases 1-4 of this project will include the preliminary development of coastal erosion and sea level rise data, and a Heritage Corridor Report to identify publicly valued coastal resources. The County of Maui will use the resulting data from phases 1-4 to carry out phase 5: development of a Shoreline Analysis of potential Natural hazards and Developmental Alternatives (SAND-Alternatives) model which will identify priority shoreline areas for conservation, permitting decisions, land use and future planning, as well as provide guidance to decision makers.

## **V. Further Development of the ORMP**

### ***Leadership in Innovative Approaches toward Resource Management***

The Community-Based Resource Management (CBRM) project is a major element of the Hawai‘i CZM Program’s efforts to implement Perspective #3 in the ORMP. As part of the project, CZM conducted an inventory of community stewardship groups and a survey of these groups on their challenges, needs, best practices, successful projects, and institutional resources. The inventory implemented a foundational ORMP strategic action. The information was used to develop five draft principles to guide the State toward place-, culture-, and community-based approaches to natural and cultural resource management. A workshop of about 50 representatives from participating community stewardship groups was held in January 2008, to build capacity and to develop implementation options associated with each principle. The resulting draft framework, consisting of the principles and accompanying implementation options, is included in a final report, *Toward the Development of an Integrated Planning Framework for Natural and Cultural Resources Management in Hawai‘i: Place-, Culture-, and Community-Based Approaches* (available on the CZM website).

This effort increased CZM’s awareness in the resource management community, *ahupua‘a*, watershed, and other community organizations of Hawai‘i learned about CZM’s efforts to implement and institutionalize place-based, integrated planning. Implementing this strategic action within the ORMP helped establish cooperative relationships as well as lay fundamental groundwork for future stages of project initiatives for the next several years. The survey results were also used to create a community stewardship directory which contains mission statements, contact information, areas of focus, projects, and more on the 59 groups included. The directory is also available on the CZM website.

In October 2008, CZM co-sponsored a three-day workshop with four other organizations: the Community Conservation Network, the Harold K. L. Foundation, the Hawai‘i Community Foundation, and the National Fish and Wildlife Foundation. Approximately 20 community-based leaders participated in the “Community Capacity-Building for Community-Based Resources Management” Workshop in Honolulu. The workshop provided tools for community-based resource management organizations and practitioners to develop the organizational capacity to manage projects and then raise funds to support those projects. The workshop also helped to foster the beginning of important partnerships with various non-governmental agencies and community-based organizations to work toward the goal of implementing the ORMP.

Overall, the following management goals and strategic actions in the ORMP were addressed:

- *Apply integrated and place-based approaches to the management of natural and cultural resources.*
- *Develop integrated natural and cultural resources planning processes and standardized tools.*
- *Build capacity for community participation in natural and cultural resources management*

### ***Looking Toward Future ORMP Priorities: Planning for Climate Change and Alternative Energy in Hawai‘i***

Thinking ahead about sustainable living in our islands, the Working Group has identified ocean energy and climate change adaptation as priorities for the future. Since it is critical for Hawai‘i to identify alternative energy sources, the Working Group plans to include ocean energy initiatives in subsequent work plans for ORMP implementation. The Working Group is also actively seeking out information on how Hawai‘i will be affected by climate change, and ways we can start planning for adaptation to those impacts. Dr. Charles Fletcher of the UH School of Ocean and Earth Science & Technology gave a presentation to the ORMP Policy and Working Groups on global climate change, and how sea level rise will affect Hawai‘i. Some suggestions for planning and mitigating impacts were presented, such as: planning for a one-meter sea level rise; planning for impacts on a place by place basis, as different parts of the islands will have different impacts; and retreating from the coast. Dr. Fletcher’s presentation encouraged the proposal set forth to the Policy Group on a research study on what the specific impacts of climate change will be in Hawai‘i (see proposals in Section III. Implementation).

### ***Updating the ORMP***

A number of issues have been raised regarding the content of the ORMP. The Working Group was reminded that the ORMP is a living document, and changes are inevitable. The Working Group may make recommendations to the Policy Group on the changes needed to render the ORMP more practical and reasonable. For the time being, the CZM Program is keeping track of all modifications, updates and deletions noted by Working Group members. These changes will be considered when the plan is being updated, which is scheduled for every five years (next update to be completed in 2011). This process allows for flexibility and adaptation to new efforts and priorities.

## **VI. Working Group Challenges**

Implementing the ORMP has not been easy. Some of the common challenges that Working Group members have identified are described below.

### ***Insufficient Human Resources***

Insufficient human resources are a challenge for the members because participating on the Working Group requires a considerable amount of time and effort. Working Group members are expected to work within their respective agencies as well as with each other to implement the ORMP. Most members are working on ORMP implementation in addition to their regular job tasks.



### ***Lack of Dedicated Funding and Political Will***

Lack of dedicated funding and the fact that the ORMP is not legally binding are challenges. A comprehensive perspective in ocean management described in the ORMP is a new concept for many state entities. The ORMP illustrates what we need to do collectively in the State. The Working Group will collaborate on an integrated proposal to urge the administration and the Legislature to budget state funds for implementation of the ORMP. The group will continue to examine the possibility of amending legislation to enhance implementation.

### ***Balancing Policy and Place-based Management***

As the Working Group moves toward the long-term goal of place-based resource management, it will be a challenge to incorporate such concepts into state policy, which currently functions within a more sector-based framework.

### ***Missing Key Players***

The Working Group stressed the need for participation by all agencies listed in the ORMP. The participation of the City and County of Honolulu, Department of Planning and Permitting is particularly critical, as the implications of their absence are broad. This situation may create vulnerability later when matters are taken to the community for feedback or community involvement.

## **VII. Working Group Next Steps**

The Working Group continues to meet on a regular basis and is working on several ongoing activities in order to ensure implementation and further development of the ORMP. They are described below.

### ***Operating Protocols for Inter-agency Collaboration***

Several Working Group members requested discussion on how inter-agency dialogue should be fostered and supported. Since all the work cannot occur at the monthly meetings, some members felt a process was needed. The Policy Group also encouraged and directed the Working Group to explore collaborative governance models. The Working Group addressed this matter by establishing and agreeing to be accountable to a set of ORMP Operating Protocols. The Operating Protocols include a set of working principles for the following:

- Working Group boundaries;
- Working Group priorities;
- Member roles, responsibilities, and expectations;
- Working Group composition;
- Relationship with Policy Group;
- Steps to move an OP-rejected item up to the Policy Group;
- Agendas, products and transmittals; and
- Logistics.

### ***Gaps Analysis***

Streamlining ORMP implementation and identifying gaps is viewed as an important next step. The Working Group would like to map out our current efforts versus our needs in order to increase efficiency and reduce duplication of efforts. It is expected that this will also reveal that

many agencies are already implementing much of the ORMP. The group sees this as a way to recognize our inter-relations and similarities.

### ***Public Outreach Strategy***

Work on ORMP outreach has been minimal since the plan was updated in 2006. The Working Group has identified their priorities for ORMP implementation and would now like to develop an ORMP public outreach strategy to ensure buy-in across sectors. Going through the process of prioritizing ORMP strategic actions has helped Working Group members realize the benefits of such a holistic plan and they believe it is crucial to share the plan with as many community groups and citizens as possible. MACZAC members support the ORMP and are eager to participate in ORMP outreach in their local communities to promote and incorporate ORMP principles into local community stewardship efforts. They want to help convey the CZM Program's efforts to move toward a place-, cultural-, community-based approach to resource management. An outline of such an outreach strategy is in place, and will be further developed as a next step.

### ***Conflict Resolution***

The Working Group would like to have a way to resolve conflicts and to balance uses. For example, what happens if management goals are at odds with one another (e.g., commercial activities)? The group would like to explore options for conflict resolution as a next step in ORMP implementation.

### ***Reassessment of Resources after Legislative Session***

After the 2009 legislative session, the Working Group will be assessing any changes in financial and human resources. Any changes in legislation or new legislation will also be assessed to see how it relates to ORMP implementation.

### ***Preparation of Proposals for Next Legislative Session***

Based on the reassessment of the 2009 legislative session, ORMP work plans, and directives from the Policy Group, the Working Group agrees it is important to identify budget requirements and develop legislative proposals for the next legislative session (2010) in order to enhance and further support ORMP implementation efforts.

### ***ORMP Working Group Caucuses***

In order to address the numerous tasks of the Working Group, members decided that they could make wise use of time in small break-out groups, or caucuses, divided by subject matter. Members reviewed the ORMP Work Plan and based upon their own projects or interests, they formed the following caucuses with which each Working Group meeting will devote a portion of considerable time to:

- Community Outreach Strategy
- Climate Change/Coastal Hazards
- Watersheds
- Policy/Legislation

Although the caucuses are fairly new, each group will be presenting their objectives, priority activities, and timelines for projects, such as developing a community outreach strategy, or developing the scope of work for the climate change research proposal. The hope of the group is that breaking into smaller groups will increase efficiency.

### **VIII. Closing**

While the work plans may not yet reflect collaborative governance, the proposed work tasks support ORMP implementation to the extent allowed by available human and fiscal resources, and the public and private approval processes to do so. With the encouraging growth of the Working Group, we anticipate more extensive collaboration and hope to show more results on multi-functional, multi-agency tasks after the work plans are implemented and cross sectional tasks are pursued.

Fiscal support for the ORMP implementation remains a challenge. The Working Group is concerned that expectations without reasonable resources is not a fair proposition. Until the support is provided, only limited implementation actions can be expected, and progress on the important cross-sectional challenges, such as in planning and managing priority watersheds, will be slow or nonexistent.

With the Policy Group's approval of the implementation work plan and endorsement of the two proposals, the Working Group has been collaborating in pursuit of the broader ORMP goals, and community-based approaches to natural and cultural resource management are being pursued. This concludes the status report detailing the CZM Program's ORMP project-related activities in calendar year 2008.



## Appendix A: Summary List of ORMP Work Plan Activities: July 2007 – June 2009

	Agency	Project	Status	Budget		Other needs
				Actual	Needed	
1	Hawai'i Co	Hilo Bay Watershed Advisory Group; water quality monitoring	In Progress	11647	5020	
2	Hawai'i Co	Kona CDP Policy ENV 1.3; Kona Mauka Watershed Mgmt Plan	Not Started			
3	Hawai'i Co	Kona CDP Policy ENV 1.4; Kona Mauka Watershed Mgmt Plan	Not Started			
4	SOEST	Ridge to Reef; based on Molokai watershed	In Progress	50000		
5	Hawai'i Co	Hilo Bay Watershed Advisory Group; website to facilitate communities	In Progress	10000	5000	
6	Hawai'i Co	Kona CDP Policy ENV 1.2; Kona Mauka Watershed Mgmt Plan	Not Started			
7	DOH	Development of TMDLs	In Progress			state funds for match
8	DOH	Watershed plans for priority watersheds	In Progress	150000		
9	Hawai'i Co	West Hawai'i Water Quality Monitoring Conference	In Progress	10000		
10	Hawai'i Co	Puna CDP Objective 3.1.3 (I); study on impacts of subdivision build-out	Not Started			
11	Hawai'i Co	Kona CDP Policy ENV 1.1; environmental resources map	Not Started			
12	Hawai'i Co	Kona CDP Policy ENV 1.13; comprehensive water quality monitoring program	Not Started			
13	SOEST	Hawai'i Integrated Ocean Observing System	In Progress	100000		
14	SOEST	Field Evaluation of Hydrodynamic Separators for Treating Storm Water (K-bay)	In Progress	100000		
15	SOEST	Impact of coastal zone productivity driven by land derived inputs on CO2 exchange	In Progress	75000		
16	SOEST	Benthic Boundary Layer Geochemistry & Physics at Kilo Nalu Observatory	In Progress	2.2 M		
17	DOH	Implement watershed plans addressing land-based pollution	In Progress			contractor
18	Kauai Co	Update Comprehensive Zoning Ordinance	In Progress			
19	Hawai'i Co	Puna CDP Objective 3.2.3 (P); encouraging organic farming and gardening	Not Started	10000		
20	DOH	Water quality monitoring in conjunction with BEACH Act bacteria monitoring	In Progress			
21	OP, DOH	Establishment of an Interagency Watershed Coordinating Committee	In Progress	30000		
22	OP	SMA Gap Survey Project	Completed			
23	Mauai Co	Implement results of SMA Gap Survey project	Not Started			
24	Kauai Co	Practice and implementation of the Shoreline Setback bill	In Progress			
25	Kauai Co	Subdivision Ordinance revision, according to Coastal Mitigation Guidebook standards	Not Started			
26	Hawai'i Co	Tsunami Education, Preparation and Recovery Plan for Downtown Hilo	In Progress	24700		
27	SOEST	Coastal modeling project: nearshore currents, waves & tides	Not Started	6M		

	Agency	Project	Status	Budget		Other needs
				Actual	Needed	
28	SOEST	Creation of a Sea Grant Center for Excellence in Community Resiliency	Not Started			
29	SOEST	Coastal erosion database for Maui, City and County of Honolulu, and Kauai Counties	In Progress	500000		
30	Maui Co	Proposal to relocate Baldwin Beach Park public facilities inland	In Progress		500000	FEMA approval
31	Maui Co	Shoreline Rule and SMA Boundary Rules Amendments	Not Started			staff time, DLNR-OCCL support
32	Maui Co	Workshops to develop a working relationship with DLNR Land Enforcement Agents re: shoreline violations	Completed			
33	Maui Co	Develop a framework to resolve disputes with DLNR re: recommended resolutions of shoreline violations	In Progress			Legal Council support
34	Maui Co	Develop a framework for expediting and streamlining permits	Not Started			Joint DLNR-MC meetings with Legal Council
35	Maui Co	Integration of enforcement efforts between State and County	Not Started			Workshops with Legal Council
36	Maui Co	Hire/train 6 new enforcement officers	Not Started		240000	
37	OP	Recommendations to Land Use Commission re: coastal hazard mitigation	Ongoing			
38	OP	Integration of planning and CZM hazard mitigation work into 2007 Update of State Hazard Mitigation Plan	Completed			
39	OP	Integration of planning and CZM hazard mitigation work into 2007 Update of the Kauai County Hazard Mitigation Plan	In Progress			
40	OP	Integration of planning and CZM hazard mitigation work into 2007 Update of the City and County of Honolulu Hazard Mitigation Plan	Not Started			
41	OP	Amendment of County contracts re: ORMP, SMA admin, & performance measures	Completed			
42	Kauai Co	Coastal Erosion Study for entire island	In Progress			
43	Hawai'i Co	County of Hawai'i Multi-hazard Mitigation Plan Objective 2.1; review GP hazard policies	In Progress			
44	Kauai Co	Conduct CZM training program for Planning Commission re: SMA	Completed			
45	Kauai Co	Infuse public outreach into each planning division re: shoreline management	In Progress			
46	Kauai Co	Implement outreach program through new Sea Grant position	In Progress	75000		
47	Maui Co	Workshops to develop a working relationship with insurance industry re: developments in coastal hazard areas	Not Started			contracts in the insurance industry
48	Maui Co	Incorporation of PRIMO study into Island-wide and Community Plan updates	Not Started			
49	Maui Co	SAND-Alternatives study, phases 1-4	In Progress	87500		
50	Maui Co	SAND-Alternatives study, phase 5	Not Started	60000	60000	
51	Hawai'i Co	Co. of Hawai'i Multi-hazard Mitigation Plan Objective 1.3: evaluate warning siren coverage	In Progress			

	Agency	Project	Status	Budget		Other needs
				Actual	Needed	
52	Hawai'i Co	Co. of Hawai'i Multi-hazard Mitigation Plan Objective 1.5: evaluate warning siren coverage	In Progress			
53	Maui Co	Implementation of erosion-based setbacks for the construction of new buildings	Ongoing			
54	Maui Co	Revise erosion maps for Maui's sandy shores	In Progress	50000	50000	
55	Maui Co	Improve commuting capacity for conducting shoreline setback determinations using GIS	Not Started		4000	
56	Hawai'i Co	North Kohala CDP, Strategy 2-3 Land Acquisition; preservation of open space & cultural resources	Not Started			
57	Maui Co	Provide public discussion of alternative financing mechanisms for purchase of beach front properties (Paluea Beach)	In Progress			
58	Maui Co	Ordinance for beach mitigation bank establishment	In Progress		50000	staff time
59	Kauai Co	Amend and implement new legislation after Coastal Erosion Study	In Progress			
60	Kauai Co	Practice of requiring erosion studies at Commission and Subdivision level	Not Started			
61	Hawai'i Co	Puna CDP Objective 2.1.3 (B); initiate Special Designs District designations	Not Started			
62	OP	Request of all Petitioners to identify measures to mitigate coastal hazards, protect coastal resources, and ensure public access	Ongoing			
63	Maui Co	SMA Major Permit approval process- requires applicants to address public access, coastal hazard mitigation, and protected sensitive cultural sites	Ongoing			SMA Rule amendments
64	Hawai'i Co	Puna CDP Objective 2.1.3 (D); Amend county grading ordinance to require consultation with Historic Preservation Division and County Historic Preservation Commission	Not Started			
65	Hawai'i Co	Kona CDP Policy ENV 1.9; Kona Urban Stormwater Management Guidelines	Not Started			
66	Hawai'i Co	Kona CDP Policy ENV 1.11 and 1.12; Inventory and management plan for anchialine ponds	Not Started			
67	Hawai'i Co	Organization of a task force re: flood hazards in Hawai'i County	Not Started			
68	Hawai'i Co	Co. of Hawai'i Multi-hazard Mitigation Plan Objective 1.2; study feasibility of participating in Community Rating System	In Progress			
69	Hawai'i Co	Co. of Hawai'i Multi-hazard Mitigation Plan Objective 1.2: rainfall and streamflow gauging system	In Progress			
70	Hawai'i Co	Co. of Hawai'i Multi-hazard Mitigation Plan Objective 1.4: coastal hazard loss estimation study	In Progress			
71	Kauai Co	Inventory deficient wastewater stations	Completed			
72	Kauai Co	Upgrade wastewater systems: Wailua Wastewater plant	In Progress	1M		
73	Kauai Co	Require wastewater conditions as part of large scale developments	Ongoing			
74	Kauai Co	Functioning new wastewater plants based upon inventory and upgrades	Not Started		millions	
75	Hawai'i Co	Puna CDP Objective 2.3.3 (A); encourage legislation to prohibit use of cesspools	Not Started			
76	Hawai'i Co	Puna CDP Objective 2.3.3 (B); seek State DOH acceptance of: 1.) small-footprint septic wastewater treatment designs; and 2.) clustered septic systems for small villages/town centers	Not Started			

	Agency	Project	Status	Budget		Other needs
				Actual	Needed	
77	Maui Co	Fund a community-based project on Molokai to use treated wastewater for restoration of wetland habitat for endangered birdlife	Not Started		200000	
78	DOH	TMK parcel maps indicating method of wastewater treatment/disposal	In Progress			comprehensive & accurate wastewater information at TMK parcel scale; staff resources
79	DOH	Develop onsite wastewater disposal risk-based approach for Oahu, including inspection protocols	Not Started	75000		
80	DOA	Control invasive species by inspecting/monitoring facilities at airports and ocean cargo	Ongoing			Dialogue with DLNR
81	USCG	Monitor and control marine alien and invasive species for all foreign vessel boardings	Ongoing			
82	USCG	Mandatory facility and shipping inspections to enforce fed and state regulations on wastewater-discharge in restricted zones and in archipelagic waters	Ongoing			
83	DOT	Provide pump-out facilities to existing adequate municipal systems for all commercial harbors	Not Started	250000		
84	USCG	Mandatory inspections of marine sanitation devices for commercial and recreational vessels	Ongoing			
85	DOT	Tariff study to review existing harbor fee structure	In Progress	200000		
86	DOT	Master planning and implementation of new projects to provide for current & future needs of commercial harbor system	Ongoing			
87	DOA	Hatchery to allow for continuous production of finfish	Ongoing			Dialogue with DLNR
88	DOA	Permitting process re: private sector restoration and operation of ancient Hawaiian fishponds	Ongoing			
89	Hawai'i Co	Kona CDP Policy ENV 1.14; educational tools for visitors	Not Started			
90	Hawai'i Co	Kona CDP Policy ENV 1.15; community-based volunteer enforcement program	Not Started			
91	Hawai'i Co	Puna CDP Objective 2.2.2 (B); modification and enforcement of Chapter 10 to prevent storm water diversion to other properties	Not Started			
92	Kauai Co	Purchase property to increase public access and restore priority beaches and scenic vistas	In Progress	millions		
93	Kauai Co	Bike path from Nawiliwili to Anahola	In Progress	millions		
94	Hawai'i Co	Hilo Bayfront Trails project	In Progress			
95	Hawai'i Co	Update Shoreline Public Access Geodatabase	Completed			
96	Hawai'i Co	Puna CDP Objective 3.5.3 (B); improve and expand coastal activity areas	Not Started			
97	Maui Co	Completion of Beach Management Plan update & enact policy as an ordinance	In Progress			
98	Maui Co	Revise Beach Access guide, digitizing and georeferencing all access points	Not Started		40000	
99	Maui Co	Interactive, picture-based report on priority scenic vistas to be protected	In Progress		4000	GIS capability
100	Maui Co	Evaluation methodology for reducing visual impacts from development along shoreline	In Progress			



101	Kauai Co	Institute stop gap measures and limit development in problematic erosion areas	In Progress			
				Budget		
	<b>Agency</b>	<b>Project</b>	<b>Status</b>	<b>Actual</b>	<b>Needed</b>	<b>Other needs</b>
102	Kauai Co	Establish funding sources for beach restoration projects	Not Started			
103	Hawai'i Co	Kona CDP Policy ENV 3.2; establish a finance strategy for Public Facilities Financing Plan	In Progress			
104	Hawai'i Co	Kona CDP Policy ENV 3.3; establish Kona Treasures Fund- a public-private stewardship partnership to implement environmental policies	Not Started			
105	Maui Co	Revise penalties and fees for shoreline violations to be directed towards a revolving beach nourishment program	In Progress			
106	Maui Co	Fund publicly beneficial beach and dune restoration projects conducted by NGOs and communities	In Progress	50000		
107	Maui Co	Develop annual funding allocation and grant opportunities to support NGO & community beach and dune restoration programs	In Progress		60000	
108	Hawai'i Co	Inventory of shoreline public access and installation of specific hazard signs throughout County of Hawaii	In Progress	30000		
109	Maui Co	Amend Molokai SMA & Shoreline Rules to protect Papohaku Dune	In Progress		40000	expand boundary study
110	Hawai'i Co	Kona CDP Policy ENV 1.10; Enhanced Shoreline Setback	Not Started			
111	Hawai'i Co	Kona CDP Policy ENV 3.1; Identification of high priority areas in Kona for public acquisition	Not Started			
112	Kauai Co	Inventory of beaches, shorelines, & scenic vistas as part of the updating of development plans	In Progress	105000	millions	
113	Hawai'i Co	Kona CDP Policy ENV 2.1-2.3; Open Space Network Plan	Not Started			
114	Hawai'i Co	Puna CDP Objective 3.1.3 (A); Adopt enabling legislation for a transfer of development rights program	Not Started			
115	Hawai'i Co	North Kohala CDP Strategy 2-4; protection of State-owned parcels against future development makai of Akoni Pule Highway	Not Started			
116	Maui Co	Develop Mitigation Banking ordinance from endangered species, wetland, & land conservation	In Progress			
117	Kauai Co	Large rezoning project to establish criteria for identifying priority coastal areas for land acquisition and appropriate coastal dependent uses	Not Started		300000	millions for acquisition
118	Maui Co	Ukemahame linear coastal park; open space for public access	In Progress			
119	OP	Baseline study on ocean recreation & tourism, focusing on user conflicts statewide	Completed	50000		
120	Kauai Co	Empower local citizens to manage & run coastal areas, while preserving stewardship & tradition	Not Started			
121	DOA	Permitting process re: coastal and ocean aquaculture	Ongoing			
122	DOA	GIS system for locating aquaculture projects	In Progress		40000	staff training
123	DOA	Pursuing legislation for financial incentives re: commercial aquaculture development	In Progress			Dialogue, Legislative action
124	DOA	Obtain space at State commercial harbors for ocean aquaculture companies	In Progress			Dialogue, Legislative action
125	SOEST	Hawai'i Ocean Atlas; global ocean model which feeds scientific products to enhance community resiliency	In Progress	6M		

	Agency	Project	Status	Budget		Other needs
				Actual	Needed	
126	OP	ORMP demonstration project for integrated natural & cultural resource management based upon moku/ahupua'a concept	In Progress	50000		
127	Hawai'i Co	Puna CDP Objective 2.2.2 (A); Enact a Biosphere Reserve Buffer Zone Design District	Not Started			
128	OP	Moku (or place-based) support network to increase community dialogue (online directory) (part of the Place-, Culture-, and Community-Based Framework & Principles project)	Completed	104311		
129	OP	Workshop(s) for broader community input into the Place-, Culture-, and Community-Based Framework & Principles project	Completed	49000		additional money for workshops
130	Maui Co	Recommendation for Molokai as test site for ORMP demo project in coordination with the Molokai Community Plan update	In Progress			
131	OP	Survey existing laws & ordinances to identify changes to incorporate place, cultural, & community-based framework & principles	In Progress		50000	
132	Hawai'i Co	Puna CDP Objective 2.2.2 (B); Amend ordinance and/or zoning code in Puna subdivisions to provide standards for the preservation of native vegetation, review & public notice procedures for grading permits, and penalties for violations.	Not Started			
133	Hawai'i Co	Puna CDP Objective 2.2.3 (D); Increase County role in helping to support native vegetation preservation	Not Started			
134	OP	Establishment of multisectoral ORMP implementation and monitoring group (ORMP Policy & Working Groups)	Completed	13125		funding for continued facilitation services
135	Kauai Co	Establish regular process of reporting and coordination of ORMP implementation	Not Started			
136	OP	Establish public advisory group to help assess & monitor ahupua'a/moku issues & maintain a dialogue at the community level	Completed	3000		
137	OP	Keep track of suggested changes/updates to ORMP, adjust strategic actions as needed	In Progress			
				\$17,523,283+	\$1,648,020+	