Coastal Resources Management Project ii - 2000 Results

Increasing Conservation and Sustainable Use of Coastal Resources

The Coastal Resources Management Project II is a partnership between the U.S. Agency for International Development and the University of Rhode Island Coastal Resources Center.
In addition to its field programs, the project’s bi-annual, month-long Summer Institute in Coastal Management has trained over 150 coastal managers from 45 countries.
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Coastal areas are the primary habitat for humanity. More than half the world’s people live in coastal areas on less than 10 percent of non-polar land. This land and water base supports a significant majority of human economic activity. It also provides the critical habitat for much of the world’s biodiversity. Environmentally healthy coastal lands, waters and resources contribute to poverty alleviation, food security, and the economic growth of developing nations.

USAID’s Coastal Resources Management (CRM) partnership with the University of Rhode Island’s Coastal Resources Center is the agency’s flagship program for addressing coastal issues. Responding to the growing demand from USAID missions and partners for continued assistance, the partnership was recently extended for an additional two years—through 2003.

Each year, as we review our actions and plan for the future, we ask ourselves the simple question, “What has changed because of our investment of time, ideas and money?” This year, as in years past, the answer is significant, as we have:

- Contributed to new coastal resources management policies in Lampung and North Sulawesi in Indonesia, in Tanzania, in Mexico, and in Central America
- Culminated four years of hard work with Mexico’s dedication of its first National Marine Park initiated by a community rather than the national government
- Completed the sixth biennial Summer Institute in Coastal Management, bringing its alumni corps to over 150 professionals from 45 countries
- Established and strengthened the 11-member Indonesian Coastal University Network (INCUNE)

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USAID is proud of the contributions and leadership that our partners and we have brought to the important arena of coastal management. We are also humbled by the challenges that lie ahead. As we enter the 21st century, there is no doubt that efforts to find solutions to increasingly urgent coastal issues must remain central to our development efforts.

Sincerely,

David Hales
Deputy Assistant Administrator
Center for Environment

In addition, the CRM partnership has remained an important voice in the global dialogue on critical coastal issues. The partnership supported USAID’s work with the U.S. Coral Reef Task Force and the International Coral Reef Initiative (ICRI), and made important contributions to the 9th International Coral Reef Symposium (ICRS).

The CRM partnership continues to contribute to the global search for good management practices (GMPs) and how to more effectively link science and management. GMPs are used to improve the effective and balanced use of coastal resources while reducing environmental impacts. During 2000, the partnership was actively involved in a range of GMP initiatives in areas ranging from aquaculture in Central America and Tanzania, to incorporating gender issues in ICM programs in Indonesia, to shorefront development in Mexico.
A new CRM II initiative in the Gulf of California resulted in 284,246 hectares in Bahía Santa María coming under improved coastal management.
How does one measure success in integrated coastal management (ICM)?

What are the objectives of an ICM initiative? How can you tell you have achieved those goals over the course of one year, five years or even after a decade?

These are the questions that CRM II staff grapple with every day. And they are hardly alone. Development agencies, funders, coastal management professionals, the media, residents of coastal communities, and government agencies and elected officials from the nation’s capital down to the village level all want to see how their involvement has a positive impact. Measuring progress, analyzing and learning from ICM work that has been done, and then widely sharing both the successes and failures—among the coastal management community is a CRM II priority.

CRM II uses both quantitative and qualitative measures, as numerical indicators only tell part of the story. Through qualitative self-assessment, CRM II attempts to document and understand why specific field project strategies were selected, how well they worked, and how and why they were incrementally revised over time. The goal of the CRM II monitoring program is to measure real impacts, to learn from experience and to improve the practice of ICM.

CRM II success is measured against its strategic objective: the increased conservation and sustainable use of coastal resources.

Two activity streams are used to achieve this objective:

Field assistance to key countries to improve:

- Strategies and policies for ICM
- Stakeholder understanding and participation in ICM
- Human and institutional capacity for ICM

Global technical leadership to:

- Develop, disseminate, and promote the broad adoption and use of effective coastal management concepts and tools
- Increase capacity of coastal management professionals

Mangrove planting programs can help build awareness and involvement in coastal management issues by local residents, who then benefit from the results.
The interplay between field projects and global initiatives is central to CRM II's overall design. Technical assistance and capacity building in the field result in real improvements in the coastal environment and the well-being of coastal communities. Field sites provide a "living laboratory" in which to develop, test and refine coastal management concepts and tools that in turn enrich CRM II's regional and global leadership initiatives.

The context of a place - its evolving social, political, economic and environmental conditions - is critical to designing and achieving ICM strategies and project outcomes. For that reason, a brief overview of the context in each area where CRM II works is included in each site-based chapter in this report.

**CRM II RESULTS FRAMEWORK**

- **Improved strategies and policies for ICM**
- **Improved stakeholder understanding of and participation in ICM**
- **Improved human and institutional capacity for ICM**
- **Increased Regional and Global Commitment to Coastal Management**
- **Dissemination of concepts and tools developed for ICM**
- **Increased capacity of ICM professionals**
- **Improved Integrated Coastal Management in Key Countries**
- **Improved conservation and sustainable use of coastal resources**
Defining Success

In CRM II’s results monitoring of on-the-ground progress, two categories of coastal management are used: “Improved” and “Effective.”

Improved is defined as “when an ICM program is in place and functioning,” because it enhances the management process, which can lay the groundwork for tangible improvements in coastal resources.

Improved management is indicated when at least one of the following activities have been completed and targets have been set for the remaining items:
- Assessment completed
- Legal framework established
- Planning completed
- Management actions implemented
- Capacity developed
- Monitoring action implemented

Effective is defined as “where environmental conditions are being monitored and resource degradation is documented as slowed, stopped or reversed.”

Generally, effective management sites are geographically smaller than those falling under the improved category, and will often be associated with a specific type of coastal environment or resource, such as coral reefs or mangroves. Two requirements must be met for management to be deemed effective:
- Environmental quality is maintained or improved, and/or the rate of degradation is reduced.
- Institutional ability to monitor and respond to threats is demonstrated.

Tangible Successes

CRM II uses the measures of areas where “Improved” and “Effective” management of coastal resources are occurring to define on-the-ground achievements. They are measured in hectares. Each hectare represents an area roughly the size of two football fields, approximately 50 meters by 200 meters.

The area reported is a cumulative total, representing the areas where significant progress has been made and/or sustained since the inception of the CRM projects in 1985. In FY 00, CRM II sustained improved governance in over 3.2 million hectares of coastal in 16 sites. This included an additional 284,346 hectares in Bahía Santa María, Sinaloa, in the Gulf of California, Mexico. There, in partnership with Conservation International, CRM II is assisting the multi-stakeholder Conservation and Development Commission to develop a participatory conservation and management plan for the bay.

CRM II sites that have achieved effective management remained at 163,391 hectares in FY 00. But as revealed in each country’s story, the scope and significance of impacts at each site continue to expand, providing benefits to coastal inhabitants and generating experience that can better inform national efforts and promote replication.

Policy Successes

Much of CRM II’s work is directed at creating and implementing ICM strategies and policies that are essential pre-conditions for improved coastal environments and improved quality of life for local residents. The work done in CRM II sites in FY 00 laid a solid foundation for future progress, as well as created products which can be replicated and serve as models worldwide.

Institutional ability to monitor and respond to threats is demonstrated.
The TCMP’s intersectoral Mariculture Working Group has developed science-based guidelines that will be implemented through sectoral agencies as they carry out their permitting process. This represents the first time that multiple agencies have agreed to utilize a coordinated, transparent suite of criteria to make development decisions.

In June 2000, Mexican President Ernesto Zedillo officially declared Xcalak’s Marine Park in Quintana Roo. This community-based marine protected area has provided the impetus for other local coastal management plans and strategies to be developed. It is also being used as a model elsewhere in the country and regionally in Central America. On the other side of the country, in the Gulf of California, the Declaration of Culiacan was signed in November 1999. This declaration is an agreement among a variety of governmental and non-governmental organizations to collaborate and share information to promote improved natural resources management in the Bahía Santa María region. This sets the stage for developing an ICM plan for the bay.
### PERFORMANCE RESULTS

**Improved Strategies and Policies for ICM**

<table>
<thead>
<tr>
<th>Country</th>
<th>Site</th>
<th>ICM Policy Initiative</th>
<th>Developed</th>
<th>Adopted</th>
<th>Implemented</th>
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<td>Tanzania</td>
<td>National</td>
<td>Coastal Management Strategy</td>
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*Note: Areas where impacts have been demonstrated and reported in previous years are not included on this list.*
CRM II plays a lead role in the global efforts to protect coral reefs, which is a true test of the world’s ability to effectively manage coastal resources.
The Global Context for ICM

Coastal ecosystems play a central role in the processes that sustain life on earth and in the prospects for human development. Coastal lands are less than one-fifth of the inhabited land space, yet they contain almost half of today’s five billion people. The proportion of the world’s people that will live along coastlines is expected to increase to three-quarters by mid-century. While there are some important exceptions, at the global scale, the trends in environmental qualities are all in the wrong direction. Critical coastal habitats such as wetlands and coral reefs are being destroyed, fish stocks are declining, pollutant inflows are increasing, fresh water is in shorter supply, and climate change is affecting long established patterns of rainfall, storms and sea level. From a global perspective, coastal peoples see a sharper divide between the haves and the have-nots, and there is increasing conflict over the allocation of ever more scarce natural resources and space. Governance institutions often do not have the power or abilities to address these forces.

Since the “Rio Summit” (the United Nations Conference on the Environment and Development) in 1992, the practice of ICM has expanded and evolved globally. ICM is increasingly recognized as a promising response to the accelerating deterioration of the environmental quality of the world’s coasts. International agreements – from those on climate change to biodiversity – identify ICM as a way to address critical issues. Coastal management issues and the ways to combat threats to the world’s coasts have been added to the agendas of international donors, national governments, non-governmental organizations (NGOs) and universities.

If ICM is to realize its hoped-for potential, there must be consensus on the work to be done. Basic elements critical to the success of ICM are:

- On the ground examples of ICM producing tangible governance, environmental and socioeconomic results in a wide range of contexts at different scales
- Research and learning that shares practical experience throughout the ICM community
- Capacity building on global, national and local scales
- The development of tools and techniques that help management efforts succeed
- Increased input by ICM professionals into national policy discussions on issues well beyond those of ICM
- Establishing more aggressive networking and communications to disseminate information widely through a variety of new technologies
Coastal Resources Center
University of Rhode Island

As interest and involvement in ICM have grown, so have CRM II’s contributions and influence. There is increasing acceptance of CRM II’s approach and emphasis on good governance as a necessary precondition for an improved coastal environment and human quality of life. There are a growing number of CRM II “living models” as yet at small scales, but in which good coastal governance has indeed led to improved environmental and human conditions.

CRM II’s challenge as it enters the new millennium is to discover, model and advocate approaches to ICM which sustain successes in improved coastal governance, and build on those successes to achieve the desired end outcomes of improved environmental quality and quality of life at significantly larger scales.

International Partnership for Coral Reef Conservation

Internationally, coral reef conservation is high on the ICM community’s agenda, and provides a range of challenges. The management and conservation of coral reefs is critical to biodiversity and food security. And the well-being of coral reefs is determined not only by local factors such as fishing and water quality, but also by global warming. The world’s ability to protect this “underwater rain forest” is perhaps the first and most urgent test of our ability to effectively manage our coastal resources. Reefs are a useful yardstick for measuring the success and impacts of coastal initiatives. Working with many partners, CRM II is actively engaged in the worldwide movement to protect these invaluable treasures.

In FY 00, CRM II continued to support USAID’s work with the U.S. Coral Reef Task Force and the International Coral Reef Initiative (ICRI). CRM II staff submitted detailed comments on the Task Force’s U.S. Coral Reef Action Plan, participated in the March 2000 Task Force meeting in Washington D.C., and implemented a number of the Task Force’s action items for reducing global threats to coral reefs. The family of CRM projects also continued to contribute to ICRI’s overall work on reef protection. By working hand-in-hand with these initiatives, CRM II plays an important role in turning international principles into tangible, on-the-ground action and ensuring that the global dialogue reflects and supports field experience.

The 9th International Coral Reef Symposium (ICRS) was held in Bali in October 2000. With over 1,500 delegates in attendance, this was perhaps the largest-ever gathering of individuals concerned about the conservation and sustainable use of coral reefs. CRM II, especially its Indonesian field program, Proyek Pesisir played an important role in organizing sessions and delivering papers on community-based coral reef management and conservation of coral reefs is critical to biodiversity and food security. And the well-being of coral reefs is determined not only by local factors such as fishing and water quality, but also by global warming. The world’s ability to protect this “underwater rain forest” is perhaps the first and most urgent test of our ability to effectively manage our coastal resources. Reefs are a useful yardstick for measuring the success and impacts of coastal initiatives. Working with many partners, CRM II is actively engaged in the worldwide movement to protect these invaluable treasures.

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Learning from CRM II Experience

CRM II continues to pioneer and apply approaches for the analysis and evaluation of coastal management, making a major contribution to learning across the ICM community. Using CRM II’s suite of tools and techniques for ICM planning and implementation, more and more ICM practitioners and funders, as well as governments and NGOs, can evaluate the progress of their work, and make changes to help ensure future success.

A three-day capacity-building workshop on evaluation methods was held at the University of Rhode Island for CRM II staff on how to conduct coastal management evaluations for the purpose of learning and discovering ways to further improve ICM strategies and actions. CRM II partnered with IUCN: The World Conservation Union, in a peer evaluation of the regionally recognized Tanga Coastal Zone Conservation and Development Program in Tanzania, and partnered with the Inter-American Development Bank in an assessment of the ongoing coastal management effort in Ecuador.

Learning reports were prepared as products of the assessments.

The Coastal Resources Management Project (CRM I and CRM II) is unique as one of the longest sustained international coastal management efforts. Groundwork is ongoing for a Harvest and Learning Agenda that will tell the CRM story with the goal of trying to achieve a much-needed impact — change in how coasts are managed. The agenda will both capture the past and build towards the future. One of the major products will be a book that traces the impacts of CRM projects, lessons that have emerged in terms of good project design and implementation, and recommendations to improve the impact of ICM in the future. In addition, CRM II has been actively engaged in the development of the United Nations

Assessing Progress in Ecuador

Because of the growing experience of CRC and CRM II in all aspects of ICM in the U.S. and worldwide, staff members are frequently asked to help evaluate other international donor projects.

In September 2000, the director of CRC completed an assessment of the ongoing coastal program in Ecuador for the Inter-American Development Bank (IDB). Ecuador’s Pioneering Initiative in Integrated Coastal Management was published as part of the CRM II Common Methodology for Learning series. The USAID/ CRC coastal program initiated Ecuador’s national ICM program in 1985. At the request of the Government of Ecuador, IDB provided its first-ever loan to a nation for coastal management in 1993. The report is a detailed evaluation of a country that has now completed a first generation of a coastal program, and provides a valuable learning model — including both successes and failures — for other countries worldwide.
What is a good management practice?

Practical experience and scientific research provide a solid basis for the development of many GMPs. New and better methods will become available as knowledge and practice advance. As voluntary practices, they can be continually tested and modified by researchers and producers.

The level of specificity of GMPs will vary according to current practice and available technical knowledge. For example, in developing shrimp mariculture GMPs for Honduran shrimp farmers, the construction guidelines created were much more specific than those for feeding and fertilization for two reasons. First, pond construction is not new, and the practices are closer to optimization than practices related to providing good shrimp nutrition. Second, pond construction is also less likely than nutrition to be affected by complex environmental interactions.

The degree of specificity definable for each topic is also an indicator of which areas in the field require more testing and refinement, or which need more flexibility. Good management practices require a degree of flexibility and good judgement. It is the practitioners who must react to constantly changing environmental, economic and social conditions. The GMPs are intended to guide, not arbitrarily restrict, farm managers.

Adapted from Good Management Practices from Shrimp Aquaculture (In press, December 2000)

Promoting ICM Good Practices

Good management practices (GMPs) are those that can be used to enhance the use of coastal resources while reducing environmental impacts. The practices are called “good” management practices rather than “best” management practices, because the most successful ways of reducing environmental impacts are still evolving. During FY 00, CRM II was actively involved in a range of GMP initiatives in areas ranging from aquaculture to incorporating gender issues in ICM programs to shorefront development.

Preparation of the final report on sustainable shrimp mariculture good management practices developed for Honduras, in collaboration with industry, featuring technical and detailed field survey results, began in March 2000. It continues CRM II’s work to turn global codes of practice for shrimp mariculture into feasible actions that promote environmentally sound, economically equitable ways of farming shrimp. The Latin America aquaculture experience is...
helping to inform other countries to prevent past destructive approaches by the industry from recurring.

The Indonesia coastal program, Proyek-Pesisir, supported two key gender studies in Indonesia. The one undertaken as part of a global initiative by Stirling University (U.K.) will result in the development of a diagnostic tool for gender analysis in aquaculture programs. Both studies engaged local NGOs and will have an important impact on understanding the role of women in aquaculture.

The CRM II Mexico project’s Normas Prácticas, a manual of guidelines for low-impact tourism, was originally designed as a project-specific tool to help plan for and mitigate the intense tourism development pressures along the largely undeveloped southern stretch of the Costa Maya on the Yucatan Peninsula. But the effectiveness of Normas Prácticas led to the decision to translate it into English. The Normas help people recognize the long-term benefits of up-front thinking and planning to properly design tourism-related structures in an environmentally friendly manner. The guide is being used to inform tourism development planning in CRM II’s East Africa and Indonesia sites, and was used at CRM II’s Summer Institute in Coastal Management.

Creating a New Generation of Coastal Managers

CRM II recognizes that coastal managers must be educated for a profession, and has established a reputation as a leader in training ICM practitioners. The sixth Summer Institute in Coastal Management (SI 2000), the project’s flagship bi-annual ICM training program, is key to that reputation.

In addition to core topics such as the ICM policy cycle, public participation, coastal issues and practical management tools, the SI 2000 curriculum included greater emphasis on issues of growing interest to USAID and the coastal management.
Coastal Resources Center
University of Rhode Island

What is the Impact of Training?

Impact evaluations are being used to assess how well alumni are able to apply what they learned to their own work. Alumni of the 1994, 1996 and 1998 Summer Institutes have been surveyed. Key findings include:

- 85 percent of the respondents were able to put the training to use in their job within the first six months, and more than 50 percent were able to do so immediately. Applications included using the CRM II policy cycle as a tool for tracking progress of their coastal management project or program, using conflict resolution techniques to resolve user problems more equitably; integrating science and management into program design and decision making and applying techniques for more effective communication.
- 82 percent said they had influenced policy or other management decisions related to their coastal program as a direct result of the training.
- 78 percent used the course materials or learning to train others.

These findings will help shape the design of curriculum for future Summer Institutes and provide valuable insights into what is most useful for participants.

Professional development - for example, evaluation and accountability, issues of equity and justice, governance, globalization, and land/freshwater/coastal water interfaces. These issues were taken on from classrooms to public forums to hands-on field project visits and interviews.

SI 2000 also incorporated innovative techniques for learning. A distance learning component was piloted during the Tanzania module. A direct, two-way link was made to Dar es Salaam so that CRM II field staff and partners could directly interact with SI participants. Participants made a showcase presentation to key Rhode Island political and environmental decisionmakers on the future of the Narragansett Bay estuary at the Rhode Island State House. This provided living experience in delivering key ICM messages to politicians, the media and the public. All course material was compiled on CD-ROMs for in-country use and replication by participants.

Sharing the Lessons Worldwide

The dissemination of experience, lessons learned, and concepts and tools developed from both field and global activities is a vital part of CRM II’s ability to impact ICM planning and implementation across oceans. CRM II strategically distributes reports and information to targeted audiences of coastal management practitioners, government officials and agencies, the USAID and development community, donor organizations, media and the general public, in ways that provide for accessibility and understanding.

CRM II’s most recognizable global information source is the InterCoast Network newsletter. This year’s Winter issue focused.
on natural disasters with an emphasis on early planning to reduce the impacts of events over which man has no control. The Spring issue focused on land-based sources of pollution – looking at how upland/land-based activities influence river, estuarine and marine environments, which helped to better integrate CRM II and the emerging USAID Water Strategy. The Fall issue contained a reflective and retrospective look at past InterCoast reports and features over the last 15 years, which is linked to the emerging CRM II Learning and Harvest Agenda.

CRM II produced 57 significant publications ranging from informational materials and newsletters to high-end publications in FY 00. Publications’ distribution and impacts are increased by using CRM II’s Rhode Island office to disseminate field project documents to the global community worldwide, while using the field offices to get CRM II information into the hands of key professionals and decision-makers at the national, regional and local levels. In addition, all major CRM II documents are regularly posted on the CRC Web site (http://crc.uri.edu) with downloading and print-out capabilities for maximum outreach to the ICM audience.

Use of the Internet continues to offer new opportunities to deliver information. CRM II contributed to the development of USAID’s Intranet site, and has made it easy to connect from the Intranet site to CRC’s increasingly popular web site. The CRC-CRM II Web site expanded its links to CRM II partners and colleagues, as well as select ICM Web sites and universities that provide additional resources and information. CRM II has also started to use high-capacity CD-ROMs to capture and disseminate publications.

Finally, CRM II enjoyed very positive and high-visibility news coverage during FY 00 at both its field sites and in the U.S. Whether print, radio or TV, the mass media conduit to the public raises awareness about coastal issues and helps promote community and stakeholder involvement in project initiatives. Positive editorial response to CRM II initiatives in the press also indicated a growing mainstream understanding of CRM II progress and goals.
Lessons learned in Quintana Roo on Mexico’s East Coast have helped inform newly expanded efforts in Gulf of California sites.
The Project:
The Mexico project, “Conservation of Critical Coastal Ecosystems in Mexico,” is a five-year USAID/Mexico-supported initiative to build the capacity for coastal management to conserve Mexico’s critical coastal ecosystems. The project works in the State of Quintana Roo and the Gulf of California region.

The Partners:
CRM II’s primary partners in Quintana Roo are the Amigos de Sian Ka’an A.C. (ASK), the Xcalak Community Committee and the University of Quintana Roo (UQROO). Conservation International/Mexico (CIMEX) is the primary partner in the Gulf of California.

The Financing:
FY 2000 financing was $350,000. Authorized funding through 2003 by USAID/Mexico is $3,050,000.

The Conservation of Critical Coastal Ecosystems in Mexico project expanded its work in FY 00 to include new projects in the Gulf of California to augment its ongoing work in the Costa Maya in the State of Quintana Roo, on Mexico’s Caribbean coast. CRM II also began bringing in new funding and partners, which will, over the next several years, help expand current on-the-ground initiatives.

ICM in the Costa Maya

Xcalak

The highlight of the Mexico CRM II project’s year was the declaration of Xcalak’s National Marine Park. In June 2000, President Ernesto Zedillo dedicated Xcalak’s park during World Environment

The Mexican Context

Mexico is undergoing a major political transformation. Decentralization and participatory planning are expected to rise in importance on the nation’s political agenda. At the same time, the major forces of economic development are expected to continue and increase, creating both opportunities and ever more pressure on Mexico’s critical ecosystems. On both coasts, tourism development continues, and within the Gulf of California, export-oriented mariculture can be expected to put ever-increasing pressure on wetland and estuarine systems.

Coastal management outside of Mexico’s system of protected areas is just beginning. And while there are emerging tools and interest in ICM, tangible expressions of what ICM will mean at a significant scale in the Mexican context still need to be developed.
Chetumal Bay

The Chetumal Bay region is a priority site for ICM within Mexico. CRM II is building capacity, raising awareness and increasing commitment, pre-conditions for developing mechanisms for the improved management of Chetumal Bay.

Increased outreach through UQROO is building university and community confidence and capacity to engage government and the private sector in bay planning. With the leadership of ASK and UQROO, the Belize-Mexico Alliance for Management of Coastal Resources has been established, providing the basic framework for collaboration in research, outreach and management of shared waters, including Chetumal Bay. A new collaboration that links USAID’s environmental and democracy-building programs was launched in Chetumal.

Day celebrations in Cozumel. It became one of the first National Marine Parks initiated by a community, rather than by the federal government. The decree culminated four years of hard work by the community of Xcalak, with support from CRM II. The national endorsement and implementation of a community’s own vision of its future represented a major step towards self-management and the promotion of low-impact tourism development along the Costa Maya (rather than the large-scale, mass-tourism development style of Cancun to the north).

In June 2000, Mexican President Ernesto Zedillo officially declared the Xcalak Marine Protected Area one of the first National Marine Parks in the country initiated by a community, rather than the federal government. In Quintana Roo, the draft land zoning ordinance for the Costa Maya incorporates over 25 practices verbatim from the low-impact tourism guidelines developed by CRM II in 1998.

Xcalak’s experience is a tangible success that others in the Meso-American Reef region, such as Belize, Honduras and Guatemala, can draw from.

Integrated management efforts in the Xcalak Peninsula have also been driven, in part, by the successful designation of the Marine Park. Community input on the land zoning ordinance has been accepted by the state to help ensure that the proposed Marine Park and land ordinance are compatible with the vision of low-impact tourism development.

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At the end of FY 00, UQROO’s Student Social Services in Coastal Management project received a national award for its work in Laguna Guerra and Raudales. The students provided extension to the communities in wastewater treatment, design and application, solar distiller demonstration and community workshops on recycling.

Water and estuary experts from the U.S. will work with Chetumal municipal officials on environmental protection.

ICM in the Gulf of California

Bahía Santa María

Since 1998, Conservation International/Mexico (CIMEX) has coordinated an inter-institutional effort to advance integrated management of Bahía Santa María. Since 1999, CRM II has supported this initiative and worked with CIMEX to establish Bahía Santa María as a tangible example of integrated resources management of a bay ecosystem. In addition, promising advances were made in creating the necessary enabling conditions within the State of Sinaloa to foster bay plan implementation, and to utilize the results of this first bay planning process in other locations along the Sinaloa coast.

Early in the year, public officials signed a declaration of support to the Bahía Santa María program, then formed a Conservation and Development Commission to oversee the preparation of a management plan. CRM II has given crucial support to plan development, providing technical assistance, helping establish a local office, and substantially enhancing both the technical and participatory processes for Bay plan preparation.

Despite making good progress in the protection and management of Chetumal Bay, water quality remains a key issue for local residents and bay users.
The State of Sinaloa is also moving ahead with preparation of an environmental master plan for the entire coast. Team members from Bahía Santa María are directly involved in the technical oversight of the project. Results from the estuary project will be incorporated into the master plan and additional site-specific projects will be carried out to implement the findings.

Critical to the sustainable management of Bahía Santa María will be the interaction of fishing, mariculture and tourism sectors in the bay. Using funds leveraged from The David and Lucile Packard Foundation, CRM II is initiating work with CIMEX and the Sinaloa shrimp farmers to prepare a “good practice” manual for the shrimp industry. The manual will directly build from the USAID/ Latin America and Caribbean-supported work on shrimp mariculture in Honduras.

Bahía Santa María Bay Plan Contents

A preliminary draft Bahía Santa María Management Program was completed in late September 2000, after six community meetings and team workshops were held in Sinaloa over the course of seven months. The Conservation and Development Commission and the project team prioritized the following five key management themes within the plan for Bahía Santa María:

- Hydrodynamics, sedimentation and fresh water input
- Pollution and water quality decline
- Mangrove areas, salt flats and upland forest
- Fisheries productivity and low-impact aquaculture
- Islands management

The draft program incorporates action items for management as well as further study. Recommendations are to be implemented at municipal, state, and national levels.
CRM II-Leveraged Support to Mexico

Given the ambitious goals of the Mexico program, CRM II has worked with USAID and other partners to identify additional support to reach program goals. Over the past year CRM II has leveraged over $385,000 in additional funds from USAID, The David and Lucile Packard Foundation and the Government of Japan, which will help support the implementation of FY 01 activities. CRM II’s Mexican partners also provide significant resources in terms of staff and project resources.

**Leveraged Funds for FY 01**

<table>
<thead>
<tr>
<th>Fund Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>USAID/ Mexico – Democracy/ Environment Linkages in Chetumal</td>
<td>$66,000</td>
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<tr>
<td>USAID/ Institutional Partnership in Higher Education – GIS Development in Quintana Roo</td>
<td>$100,000</td>
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<tr>
<td>Government of Japan – Mahahual Station</td>
<td>$85,000</td>
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<tr>
<td>USAID/ Mexico Mahahual Station Complementary Funding</td>
<td>$50,000</td>
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<tr>
<td>USAID/ South-South Cooperation – Belize-Mexico Alliance Workshop</td>
<td>$20,000</td>
</tr>
<tr>
<td>USAID/ South-South Cooperation – Community Guide Exchange in Belize</td>
<td>$8,000</td>
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<tr>
<td>The David &amp; Lucile Packard Foundation – Promote Good Shrimp Practices in Bahía Santa María</td>
<td>$34,000</td>
</tr>
<tr>
<td>USAID/ LAC – Extension of Good Shrimp Practices to Mexico</td>
<td>$22,000</td>
</tr>
<tr>
<td><strong>Total Leveraged Funds</strong></td>
<td><strong>$385,000</strong></td>
</tr>
</tbody>
</table>

Its great biodiversity makes the Gulf of California a prime choice for ICM efforts.
CRM II’s work on good management practices, including monitoring of shrimp size and feed, is assisting both the industry and communities in Latin America.
Shrimp mariculture has been a major coastal issue in Latin America and the Caribbean (LAC) for over two decades. The most important environmental concern of shrimp farming is the impact of pond siting on fragile ecosystems. Some aquaculturists in the shrimp industry have used environmentally damaging techniques such as the clear-cutting of mangroves to build ponds. Additional concerns include conflicts with other resource users, such as fishermen, and the environmental impacts of poor pond operation.

Responding to that situation, CRM II has been actively promoting good management practices (GMPs) for the shrimp mariculture industry in the LAC region. The development of sustainable shrimp mariculture GMPs for Honduras is in the final stages of development. Working closely with scientists, industry members, and environmental managers, the GMPs are based on both technical and detailed field survey results and are tailored specifically for shrimp mariculture in Honduras. Most, however, will be applicable throughout Latin America and of interest wherever mariculture is being practiced.

This work expands on the agenda-setting CRM II publication, *Maintaining A Balance: The Economic, Social and Environmental Impacts of Shrimp Mariculture in Latin America*, a comprehensive overview of the industry published in 1998. (Both reports are available in English and Spanish.) The Honduras GMPs demonstrate how to move from generic codes of practice prepared at the international level to detailed good management practices applicable to and accepted by specific regional industries. The Latin America aquaculture experience is also helping to inform similar efforts being carried out in Tanzania and Indonesia, exemplifying the value of CRM II cross-project information-sharing and learning.

The GMP work is being built upon through follow-on and additional activities in Central America and Mexico supported by the USAID/ LAC Bureau, the United States Department of Agriculture and The David and Lucile Packard Foundation.
Improved Management of Coastal Resources in Tanzania

The TCMP’s work in Tanzania has included national policy development, as well as bringing together local field projects such as in this area of the north coast in Tanga.
The Project:
The Tanzania Coastal Management Partnership (TCMP) was established in 1997 with support from USAID/Tanzania. It is designed as a five-year project, extending through 2001. The TCMP’s goal is to establish the foundation for effective coastal governance.

The Partners:
CRM II’s primary partner is the vice president’s office, through the National Environment Management Council (NEMC). Together, CRM II and NEMC established the TCMP and a small support unit to provide day-by-day facilitation and coordination. The TCMP support unit works closely with issue-based, multi-sectoral working groups, the network of existing ICM programs and projects, and the private sector.

The Financing:
FY 2000 financing was $1.2 million. Authorized funding through 2001 from USAID/Tanzania is $3.47 million.

The TCMP, working closely with the highest levels of government, continues to move the country closer to adopting a national coastal management policy, which will be one of the first to be adopted in East Africa. By the end of September 2000, the policy had been approved by the vice president’s office and moved on to await final approval from the Tanzania Cabinet. Steps towards formal adoption will begin in early 2001.

The TCMP’s main engine for developing the national policy and program documents is its multi-sectoral Core Working Group. This team produced the Green Paper that presented options for a national coastal management policy. The Green Paper was vetted at the high-level Third Director’s Meeting in November 1999.

The Tanzanian Context
Tanzania, though one of Africa’s poorest nations, is enjoying economic growth and political stability. However, people on the coast are not yet benefiting from the current economic expansion, and they are getting poorer. Dependence on resources is paramount to survival for coastal families, yet the condition of those resources is degrading.

The nation’s governance is changing. Decentralization and downsizing of government is proceeding. Within this context, ICM can play an important role – it can demonstrate how to successfully devolve decision making power from the center to the local level, and how to integrate across sectors.
In FY 00 the group completed a number of important reference publications for resource managers, marine scientists, politicians, university graduate students and anyone (local and international) concerned with marine sciences in Tanzania. These documents, now available in hard copy at key locations in the country, are the most complete and comprehensive collection on the subject of marine science available in Tanzania.

Connecting Science to Management

In July 1999, the TCMP established a Science and Technical Working Group (STWG). This group is the primary bridge between coastal managers and the science community studying coastal and marine issues at local and national levels. The STWG will provide advice and guidance to the National Coastal Programme on scientific questions, studies, data management, and monitoring necessary to improve the scientific foundation for coastal management.

A Foundation of Scientific Information

The TCMP’s Science and Technical Working Group compiled reference publications on marine science in Tanzania, including:

- A directory of marine scientists working in Tanzania
- A reference location guide for marine science literature on Tanzania
- An annotated bibliography of selected marine science literature
- Syntheses of the current state of scientific knowledge on key coastal issues
- Summaries of coastal ecosystems

Mariculture as an ICM Focus

Using the well-received Tanzania Mariculture Issue Profile as a stepping-off point, the intersectoral Mariculture
New permitting guidelines for mariculture development, a major economic opportunity for the coast, have been created by the TCMP’s Mariculture Working Group.

Working Group prepared mariculture guidelines for regulators and investors. These guidelines outline the first intersectoral review process for a major economic use of the coast in Tanzania. They are a tangible expression of the proposed national coastal policy, demonstrating the ability of multiple sectors to work together. They will provide an important model for other sectors.

The guidelines are divided into two major parts – steps in a streamlined permit process, and decision criteria for each sector involved in the permit process. The guidelines were presented and reviewed at a Directors Meeting in January 2000 which was attended by over 30 representatives from key agencies and organizations, including the private sector. The guidelines are now being adopted by each of the sectoral agencies involved in the mariculture permit process.

**Capacity Building Locally and Regionally**

The TCMP provides its partners ample opportunity for learning by doing, augmented, where appropriate, by short courses both inside and outside Tanzania. During FY 00, training was provided to over 77 participants from 11 different government institutions. Training introduced the candidates to a range of coastal management experience from around the world, broadening their view about how to address difficult intersectoral management issues.

TCMP staff worked with the Western Indian Ocean Marine Science Association’s (WIOMSA) regional capacity-building effort to assess human
capacity building needs in Tanzania. This information will inform WIOMSA’s planned region-wide training program. Tanzania’s experience will be a prominent feature in the training program.

National Leadership

The TCMP has formed a unique partnership among the other coastal management projects – funded by a range of different donors – working in Tanzania today. Through semi-annual retreats, regular communication vehicles and service-driven interaction, all of the coastal programs are learning from one another, and sharing expertise, information and ideas. In addition to program-to-program networking, they provide key inputs to the national policy, bringing on-the-ground results and experiences to the proposed implementation structures and systems.

The TCMP continues to help new ICM programs initiate their work. Support was provided to a new coastal management initiative in the district of Kunduchi, funded by the Swedish International Development Cooperation Agency, and a small project in Kilwa funded through a Pew Charitable Trust Fellowship.

Raising Public Awareness and Involvement

During FY 00, the TCMP’s outreach strategy focused on national agency directors and permanent secretaries whose support is necessary to gain approval for the new ICM national policy. CRM II’s work included one-on-one meetings with key directors, and the distribution of the video, Voices from the Coast.

Bringing Groups Together

Coastal programs in Tanzania are funded by multiple donors, including Irish Aid, Finnida, The Royal Netherlands, and the Swedish International Development Cooperation Agency, and backstopped by multiple NGOs including the World Wide Fund for Nature and IUCN: The World Conservation Union. Through the TCMP, Tanzania has avoided the usual trap of different programs working in isolation of, or competing with, each other.

The village communities are taking full responsibility for monitoring dynamite fishing. We have given them the power and they are making sure dynamite fishing does not re-surface again.

– Mtwara District Commissioner Fatuma Mikidadi, Voices from the Coast
The TCMP cooperated with USAID's environmental education project, GreenCOM, to organize its second annual local Coastal Environmental Awards Scheme (CEAS). The CEAS is used to help local programs raise awareness and promote environmentally sound activities. Committees were formed in the coastal districts of Tanga, Pangani, Muheza, Mtwarra, Lindi and Mafia, and thousands of civic organizations, government agencies, schools and individuals took part. During the awards ceremony in July 2000, the contest reached over 21,000 people. Ceremonies were officiated by district and regional political leaders, and generated substantial news coverage throughout the country. Funding for the prizes—bicycles, watering cans and rubber boots—was secured by TCMP and GreenCOM from a number of local organizations.

Distribution of the TCMP newsletter, Pwani Yetu (Our Coast), printed in both Kiswahili and English, also helped raise awareness about the national ICM policy and the issues it seeks to address. Finally, an E-mail list serve, E-Pwani, continued to be an effective information exchange in the region and for CRM II headquarters in the U.S.

Local children perform at the Coastal Environmental Awards Scheme celebration. Schools, civic groups, municipalities, and individuals provided the 21,000-plus participants in a successful awareness raising program in six coastal districts.

Winning CEAS Activities from Schools, Groups, Individuals, Institutions

- Tree planting/ tree nursery establishment
- Environmental/ surroundings cleaning
- Soil conservation
- Promotion of good agricultural practices – use of organic fertilizers/ animal husbandry
- Vegetable growing
- Solar use
- Marine resource conservation – mangrove planting
- Seaweed farming
- Raising of public awareness through various activities – songs, plays, public talks, etc.
- Flower gardening/ landscaping
- Seed preparation/ seedling distribution
- Agro-forestry
- Fish culture
- Handicrafts
- Beekeeping
Improved Management of Coastal Resources in Kenya

CRM II is building a network among existing ICM site projects, including Malindi.
The team reviewed the current context for ICM in Kenya and assessed the strengths and weaknesses of USAID-supported coastal management activities since 1994. From this review, a two-point strategy has emerged:

**Expand and sustain community impacts of ongoing work by completing improvements to Jomo Kenyatta Beach within the Nyali-Bamburi-Shanzu site.**

The Jomo Kenyatta Beach area is the sole place along Mombasa’s North Beach area where local residents and artisanal fishermen can have free access to the beach. An early CRM II action in governance secured the land for the public and improved the site itself. Freshwater is now available, as well as a modest banda for fishermen to land and clean their fish, and tour boat operators to store their gear. Plans are underway to pave the parking area, install a water-catchment system and create a tourist market place. CRM II also worked with the CDA to complete an annual progress report that captures the lessons of the pilot site.

The Kenyan Context

Political structures in Kenya are under considerable pressure. The regulatory structure for the coast and its resources is complex. Competition, rather than cooperation, characterizes many interactions among government, private volunteer organizations and NGOs about intervention and financial resources for coastal activities.

There is nonetheless cause for optimism. The Kenya press is noticeably freer than in the recent past. Popular demand for improved natural resources management and better governance is growing. At local levels, interest is increasing in participating in and benefiting from the wise use of resources.

Build a foundation for a national ICM Program

CRM II is beginning to move from site planning to a national coastal initiative by building a network among existing site projects and generating key information. With the help of the Ministry of Environment and Natural Resources, activities are beginning to raise awareness of key decisionmakers about the importance of the coast. A coastal management newsletter and an E-mail discussion group, E-Kenya Coast, were established to increase exchanges among coastal activities.
CRM II is reaching out to countries such as Mozambique to help build in-country capacity to effectively deal with increasing pressures on the coastline.
The Project:
The goal of the CRM II capacity-building program is to increase the numbers of trained and experienced coastal practitioners in the Western Indian Ocean region and strengthen the Western Indian Ocean Marine Science Association’s (WIOMSA) ability to deliver high-quality capacity-building programs.

The Partners:
Western Indian Ocean Marine Science Association

The Financing:
FY 00 financing was approximately $225,000 of $450,000 authorized through FY 01. Funding is provided by USAID/Regional Economic Development Services Office-East and South Africa (REDSO-ESA).

Recognizing the need for indigenous ICM capacity building in the region to advance coastal management, CRM II joined with WIOMSA to create a new and innovative approach to region-wide capacity building.

The first step in this process was an assessment of ICM capacity-building needs to identify ongoing coastal management capacity-building activities, gaps in skills, knowledge and attitudes of ICM practitioners, and potential partner institutions for WIOMSA. The skills of “an ideal coastal manager” were postulated based on CRM II experience and a review of the current literature. Four broad areas were identified: technical skills, ICM practice knowledge, professional skills and project/program management skills.

An assessment tool was developed to determine areas of strengths and weaknesses for ICM practitioners across the region. Four countries (Kenya, Tanzania, Mozambique and Madagascar) were visited. Information about practitioners in other WIO countries was obtained from surveys, literature and personal communication. Members of the donor community, USAID missions, the United Nations Development Program and its Environmental Programme, and the Danish, Swedish and Finnish development agencies were also interviewed. Mini-workshops were held in Kenya, Mozambique and Tanzania for practicing coastal managers to assess their training needs and to provide a brief introduction to CRM II’s approach to coastal management.

Responses were consistent: short-term technical training is helpful and necessary; additional capacity needs to be built in areas related to project management and professional skills; and, there is an opportunity and need to learn from the WIO’s emerging ICM repertoire. Early next year WIOMSA and CRM II will launch a year-long program – “Learning and Performing: Developing Skills for Coastal Management Practitioners” to respond to these needs.

Assistance from CRM II is also helping WIOMSA emerge as a major indigenous group actively working to support a new generation of coastal managers. With funding from REDSO-ESA, CRM II helped WIOMSA restructure the organization, creating a capacity-building unit. CRM II also facilitated USAID support for strategic planning assistance and institutional strengthening in the area of information technology.

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Recognizing the need for indigenous ICM capacity building in the region to advance coastal management, CRM II joined with WIOMSA to create a new and innovative approach to region-wide capacity building.

The first step in this process was an assessment of ICM capacity-building needs to identify ongoing coastal management capacity-building activities, gaps in skills, knowledge and attitudes of ICM practitioners, and potential partner institutions for WIOMSA. The skills of “an ideal coastal manager” were postulated based on CRM II experience and a review of the current literature. Four broad areas were identified: technical skills, ICM practice knowledge, professional skills and project/program management skills.

An assessment tool was developed to determine areas of strengths and weaknesses for ICM practitioners across the region. Four countries (Kenya, Tanzania, Mozambique and Madagascar) were visited. Information about practitioners in other WIO countries was obtained from surveys, literature and personal communication. Members of the donor community, USAID missions, the United Nations Development Program and its Environmental Programme, and the Danish, Swedish and Finnish development agencies were also interviewed. Mini-workshops were held in Kenya, Mozambique and Tanzania for practicing coastal managers to assess their training needs and to provide a brief introduction to CRM II’s approach to coastal management.

Responses were consistent: short-term technical training is helpful and necessary; additional capacity needs to be built in areas related to project management and professional skills; and, there is an opportunity and need to learn from the WIO’s emerging ICM repertoire. Early next year WIOMSA and CRM II will launch a year-long program – “Learning and Performing: Developing Skills for Coastal Management Practitioners” to respond to these needs.

Assistance from CRM II is also helping WIOMSA emerge as a major indigenous group actively working to support a new generation of coastal managers. With funding from REDSO-ESA, CRM II helped WIOMSA restructure the organization, creating a capacity-building unit. CRM II also facilitated USAID support for strategic planning assistance and institutional strengthening in the area of information technology.
Improved Management of Coastal Resources in Indonesia

The community-based Blongko Marine Park on the Sulawesi Sea (in background) has become a regional and national model for marine protected areas, and is now seeing a tangible increase in local fisheries production.
The Project:
Proyek Pesisir (Indonesian Coastal Resources Management Project) is part of the USAID/Indonesia Natural Resources Management Program. Its objective is to decentralize and strengthen coastal resources planning and management.

The Partners:
The Directorate-General for Coastal, Beaches and Small Island Affairs in the Ministry of Marine Affairs and Fisheries (M/MAF) and the National Development Planning Board (BAPPENAS) are the principal executing agencies for Proyek Pesisir. The project works with numerous government and non-government partners at field sites. Day-to-day coordination of the national program is integrated with M/MAF; the Centre for Coastal and Marine Resources Studies (CCMRS) at the Bogor Agricultural Institute (IPB), the Indonesian Coral Reef Foundation (Yayasan Terangi) and the USAID Natural Resources Management (NRM) program secretariat.

The Financing:
USAID funding for FY 2000 activities totaled approximately $1.8 million. Proyek Pesisir was able to leverage additional outside resources from counterparts and foundations that increased the program’s resources by approximately 25 percent. Authorized USAID life-of-project funding through 2003 is $14.2 million.

The Indonesian Context
Indonesia is struggling to emerge from an economic depression as well as social and political turmoil that has marked the transition from the New Order Government to the “reformasi” era. It has recognized that development of a civil society, as well as broader economic recovery in Indonesia, requires the development of more equitable, transparent and sustainable approaches to the utilization of natural resources.

In October 1999, when then newly elected President Abdurrahman Wahid announced his new Cabinet, one of his most radical innovations was to establish the Ministry of Marine Affairs and Fisheries. This is a watershed in the history of this archipelagic nation, and symbolizes a markedly increased level of recognition of the social, economic and ecological significance of Indonesia’s marine and coastal resources. At the same time, Indonesia’s Congress passed Law 22/1999 that devolved authority for management of nearshore waters to the provinces out to 12 miles.
Building Capacity for Learning

Following some two and a half years of mentoring support from CRM II staff and consultants, the five-person Centre for Coastal and Marine Research Studies of Bogor Agriculture Institute’s Learning Team is increasingly engaged in documenting and analyzing Indonesia’s coastal management experience. The team conducted the second national coastal learning workshop in March 2000, has started work with new partners to develop a cross-portfolio learning approach and is beginning to assist in development of the national coastal policy initiative.

In East Kalimantan, development of a profile for Balikpapan Bay (and watershed) is now well advanced. A full draft plan will be released next year.

Field-based Research and Learning

In the North Sulawesi and Lampung field programs, formal recognition was given by authorities to management plans that have been under development for some two years. In North Sulawesi, the Minahasa Regency formally approved three village-based management and development plans prepared by project partners with the support of village extension officers. They are widely recognized as models of good village governance.

In Lampung Province, the widely acclaimed Lampung Coastal Atlas process led into the development of a provincial coastal strategic plan. The planning process involved over 990 key stakeholders. The 80 meetings held to gain stakeholder input, reaction and support attracted extraordinary media coverage. Two feature documentaries on coastal resources management were produced on the national television station, TVRI, and the Lampung Post presented bi-weekly reports of key issues and progress. Most importantly, as a result of the work of the steering committee for the plan, provincial agencies in Lampung are “buying in” to plan implementation—nearly $200,000 has been allocated from the provincial budget for the first year of activities, an unprecedented commitment to ICM by an Indonesian provincial authority.

In recognition of the new opportunities for coastal management governance reform and in view of the unique position of Proyek Reisir, a revised and extended project strategy was developed in consultation with USAID and key partners. Over the next three years, emphasis will be to institutionalize and extend ICM good practices at the local level, and considerably strengthen the program’s national track.

In East Kalimantan, development of a profile for Balikpapan Bay (and watershed) is now well advanced. A full draft plan will be released next year.
The National Coastal Policy Initiative

With the establishment of the Ministry of Marine Affairs and Fisheries, Proyek Pesisir has seized an unprecedented opportunity to contribute to development of a national coastal policy and program. From the early days of establishment of the ministry, Proyek Pesisir staff have been actively supporting Minister Sarwono Kusumaatmadja and his senior staff in the following ways:

- Identified key staff to be recruited and developed ministry position statements and initial organizational structures.
- Developed monthly briefing notes on key issues and developments in fields related to coastal and marine resources management to be considered in formulation of ministry policies and programs.
- Established forums where the minister and his senior staff can learn about local concerns and program support needs.
- Convened working groups and national committees to support the implementation of marine and coastal aspects of Law 22/1999 on Regional Autonomy, particularly in relation to determining the boundaries of national, provincial and local jurisdictions.
- Supported the development of a national marine research agenda through representation on the National Research Council.
- Facilitated field-based dialogues between Proyek Pesisir’s local partners and key ministers so that they can be better informed about the significance of coastal resources and the needs of coastal communities. For example, in a two-week period in July, the Lampung field program hosted visits by the minister and the vice-president and then a further visit by the minister accompanying the president.
- Conducted a study tour to the U.S. for the minister, four senior national officials and three senior provincial officials. The tour involved meetings with key U.S. agencies and experts in Washington D.C., Florida, Rhode Island and Washington State, and resulted in two Memoranda of Understanding and a Letter of Intent to support cooperation with U.S. agencies. During the tour to the nation’s capital, the minister met with the head of the National Oceanographic and Atmospheric Administration, among other top government officials, and presented a public lecture on Capitol Hill.

Institutional Strengthening

With support from The David and Lucile Packard Foundation, a strategy for the Indonesian Coastal University Network (INCUNE) was completed. Developed by representatives from the 11 network universities, the strategy outlines how INCUNE members will work together to build experience and capacity, including links with the activities of the IPB-based learning team. A network prospectus has...
as the North Sulawesi Village Plans, the Lampung Atlas and Coastal Strategic Plan. More than 11,000 copies of project publications were distributed to project partners in Indonesia and globally. Since it is Proyek Pesisir’s policy to emphasize production of publications in Bahasa Indonesian, relatively few publications are available in English.

Proyek Pesisir also leverages CRM II impact through interaction with other important coastal programs both in Indonesia and the region. Project staff continue to be invited to share their experience at key forums and in high level briefings. For example, Proyek Pesisir staff were invited to brief the president at the launch of the National Save Our Coral Reefs Now program; UNESCO is attempting to follow Proyek Pesisir methodology in the design of their Jakarta Bay program; the Asia Development Bank is actively seeking Proyek Pesisir guidance in the design of its major Indonesia marine and coastal management project; and the Japanese International Science and Technology Federation chose to partner with Proyek Pesisir’s field program in Lampung for a series of ocean fertilization experiments.

Improved Policy and Enabling Conditions

Proyek Pesisir’s policy activities are now focused at the national level and USAID/Indonesia has provided additional dedicated support for that purpose. As a consequence of the rapid decentralization schedule, provincial, district and local partners of Proyek Pesisir are also seeking increased policy assistance. The Proyek Pesisir policy team is working with field program staff and partners to support these needs, however the needs are greater than current capacity. Proyek Pesisir is thus coordinating activities closely with other USAID programs (notably Democracy and Local Government, and the US-Asia Environmental Partnership) to support coordinated capacity building of local parliaments and governments.

Dissemination of Lessons Learned

Proyek Pesisir continues to be a major source of new information for Indonesians on coastal resources and management, producing 137 publications in FY 00, to run the project’s overall total to 425. Most notable amongst these have been the special publications such as the North Sulawesi Village Plans, the Lampung Atlas and Coastal Strategic Plan. More than 11,000 copies of project publications were distributed to project partners in Indonesia and globally. Since it is Proyek Pesisir’s policy to emphasize production of publications in Bahasa Indonesian, relatively few publications are available in English.

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Increased Capacity Through Education and Training

Proyek Pesisir’s extensive training programs continued in FY 00 with an additional 10,010 persons (2,511 female) trained, bringing to 19,627 (5,402 female) the total number of persons trained since the project began.

The first national Training of Trainers course conducted by CCMRS/IPB in Bogor for NGO and university partners in March 2000 emphasized development of standardized and complete training reference materials, and a more selective approach to participant selection and engagement. A new partnership was also initiated with the newly established Indonesian Coral Reef Foundation. Staff from all sections of the foundation, including administration and finance staff, are working alongside Proyek Pesisir and CCMRS/IPB counterparts to “learn by doing.”
The National Coastal Conference and Awards

The second national coastal conference, Konas II, was held in Makassar, South Sulawesi in May 2000. Some 650 delegates registered for the event, including more than 60 foreign delegates. The organizing committee was chaired by representatives of Hasanuddin University and supported by provincial and national agencies and NGOs. The conference allowed for unprecedented discussions among the many coastal stakeholders in Indonesia.

A high point of the conference was the presentation of the first-ever National Coastal Awards by the Minister for Marine Affairs and Fisheries and CRC’s Associate Director. These awards were sponsored by the University of Rhode Island.

**National Excellence Award (Individual):** Haji Mohammad Thayeb for his long-term commitment to restoring the health of the coastal areas of Tongke Tongke village in South Sulawesi by rehabilitating and expanding its mangrove forests.

**National Coastal Merit Awards (Individual):** William Moka, a lecturer at Hasanuddin University, an expert in coral reef ecology; and Rili Djohani, a coastal and marine advocate who has worked for major environmental organizations on grouper aquaculture programs, ecotourism development, and to combat destructive fishing practices.

**National Excellence Awards (Institution):** PT Bali Cruises Nusantara for incorporating coastal and marine conservation education and community action into its many tourist services.

**National Coastal Merit Awards (Institution):** Lampung Provincial Government for dramatic strides in “bottom-up” participatory planning; Blongko Marine Sanctuary Management Group for creating the first community-run marine sanctuary in Indonesia; and Kurma Asih Protection Group for establishing a successful turtle hatching and release program.
Monitoring and evaluating the impacts of coral bleaching, and other threats to coral reefs and the coastal residents whose lives depend on them, has been a focus of CRM II’s work in Asia.
USAID’s pioneering assistance to coastal management initiatives in Asia began in the mid-1980s and continues today. The significance of coastal resources to the well-being of Asia’s people, as well as the region’s enormous importance for biodiversity, is becoming more widely recognized by other donors and the nations themselves. Although programs are rapidly multiplying, USAID remains the donor with a “cutting edge” portfolio. This allows CRM II to influence the much larger development bank-financed projects as well as the increasing investments of U.S. private foundations.

Coral Bleaching Impacts

In 1998, there was a major coral bleaching event throughout the Pacific and Indian Oceans. While substantial attention was directed at documenting the bleaching event and its biological impacts, little was being done to ask the next question: If the coral is bleached and dies, what happens to the fish and fishermen who depend on reef fisheries? And what will be the impacts on dive tourism? Will tourists still go to resorts where coral is bleached?

With funds from the East Asia and Pacific Environmental Initiative, CRM II supported a meeting of experts to address these and other questions and make recommendations to the Conference of the Parties of the Convention on Biodiversity. A small number of studies were also commissioned, such as documenting ecological and socioeconomic impacts of the 1998 mass coral bleaching event at two locations in the Philippines – Palawan, an important dive tourism center; and Bolinao, a reef-dependent fishing community. Also, a CRM II partner, Reef Check, was able to quickly assess the ecological impact of a coral bleaching episode in Fiji that occurred earlier in 2000.

Success Factors for Sustainability of Community-based Marine Protected Areas

Important lessons are emerging from CRM II’s extensive research in the Philippines. Methods include focus group meetings on community-based coastal resources management and collection of data at 45 community-based marine protected areas there. Communities more likely to successfully establish and sustain community-based marine protected areas are:

- Communities with smaller population sizes
- Communities where there is a perceived crises in fisheries resource abundance prior to the start of the project

The marine sanctuary is more likely to be successful if:

- Successful alternative income generation projects are part of the planning process
- Community participation in decisionmaking is high
- Ongoing and continuing advice is provided to the community
- Inputs are made by local government

Marine Protected Areas

The creation of small-scale, locally managed coral reef protected areas (areas where no fishing is allowed) is an important tool for reef-dependent villages throughout Asia. The Philippines has the most experience in using this tool. While on-site success (such as more fish, better coral cover) has been documented in multiple locations, their successful, wide-scale replication has often proved elusive. With supplementary funding from The David and Lucile Packard Foundation, CRM II has been using quantitative and qualitative research to better understand what factors are most critical for success.
Selected Publications

Global


Newsletters/ Global


Mexico


Newsletters/ Mexico

Manjo Integrado de Recursos Costeros (MIRC). Year One: Numbers 1 and 2. Quintana Roo, Mexico.

Indonesia - Proyek Pesisir


Newsletters/ Global


Michigan


Newsletters/ Global


Mexico


Newsletters/ Mexico

Manjo Integrado de Recursos Costeros (MIRC). Year One: Numbers 1 and 2. Quintana Roo, Mexico.

Indonesia - Proyek Pesisir


Newsletters/ Global


Mexico


Newsletters/ Mexico

Manjo Integrado de Recursos Costeros (MIRC). Year One: Numbers 1 and 2. Quintana Roo, Mexico.

Indonesia - Proyek Pesisir


Newsletters/ Global


Mexico


Newsletters/ Mexico

Manjo Integrado de Recursos Costeros (MIRC). Year One: Numbers 1 and 2. Quintana Roo, Mexico.

Indonesia - Proyek Pesisir


Asia


Tanzania – Tanzania Coastal Management Partnership


Newsletters/Tanzania

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Financial Overview
Total FY 00 Funding: $5,221,110

By Geographic Area

- Indonesia: 36%
- East Asia/Pacific: 3%
- Global: 14%
- Latin America: 7%
- Tanzania: 31%

USAID’s country and regional missions provide the majority of CRM II’s funding. This funding is used to increase conservation and sustainable use of coastal resources in key countries for the benefit of each nation’s citizens.

CRM II’s global leadership initiatives are supported with funds from the USAID Center for Environment of the Global Bureau. This core support also provides crucial value added support to the country programs and the USAID missions that support them.

By Result Area

- Coastal Governance in Key Countries: 89%
- Global Commitment to ICM: 9%
- Management and Coordination: 2%
Coastal Resources Center

The Coastal Resources Center at the University of Rhode Island is dedicated to advancing coastal management worldwide. In addition to assisting in the development and implementation of coastal management programs in Rhode Island and the United States, the Center is active in countries throughout the world in promoting the sustainable use of coastal resources for the benefit of all. Implementing coastal management projects in the field, building capacity through education and training, and sharing lessons learned and information throughout the coastal community are the foundation of the Coastal Resources Center’s work.

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