

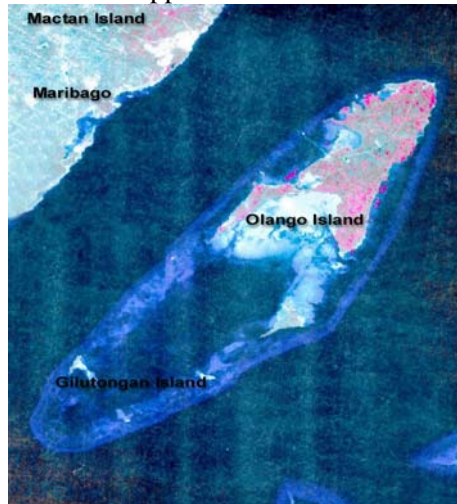
**Funding Proposal to ICRI Small-Scale Development Projects:  
 “Demonstrating Effective Monitoring and Management of  
 “Urban” Marine Protected Areas (MPAs) within Lapu Lapu City, (Cebu, Philippines)”**

**Project Proponent:** Coastal Dynamics Foundation in partnership with the City of Lapu Lapu, Reef Check and local project partners

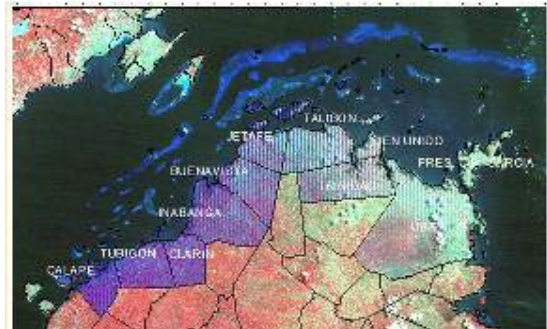
**Contact Information:** Michael & Nora Ross and Stuart Green Coastal Dynamics Foundation (CDF), Inc. Cebu, Philippines, Email: [mikeross@mozcom.com](mailto:mikeross@mozcom.com), website: [www.cebudive.com](http://www.cebudive.com)

**Grant Request:** US\$ 25,000. Estimated US\$ 50,000 counterpart funding to be provided through CDF and project partners.

**Project Summary:** The Philippine coral reefs are widely recognized as being among the most diverse as well as perhaps the most threatened reefs in the world. In a 2002 assessment report by the UNEP / WCMC, the coral reefs of the Philippines were ranked as the No. 1 global “hot spot” based on the degree of threat and risk of extinction. The project area of Lapu Lapu City



(Province of Cebu, Central Philippines) is included within the country’s second largest metropolitan area, with over 2 million residents. This area includes Mactan and Olango Islands, one of the country’s premier coastal tourism and diving destinations, which includes an estimated 500 hectares of prime reef habitat and estimated 55 km<sup>2</sup> of coastal waters and resources within its’ political jurisdiction, including a large portion of the unique “Danajon Double Barrier Reef”.



The project will serve to provide needed technical and financial support to reinforce commitments and counterpart resources of local community members, government units and organized dive operators / resorts to establish a sustainably funded management and monitoring system for marine protected areas (MPAs) within the City of Lapu Lapu. The project will target assistance on further defining and developing local management and monitoring capabilities for MPAs and related coastal resources within the City of Lapu Lapu. Building on experience gained to date and on-going CDF supported activities in the City, the project will serve to test and apply appropriate MPA management, monitoring and evaluation approaches developed and promoted by the:

- International Coral Reef Initiative (ICRI),
- Reef Check / Global Coral Reef Monitoring Network (GCRMN) programs,
- USAID-funded Coastal Resource Management Project (CRMP) / Philippines, and the
- Pews Fellows Program supported Marine Protected Area Project (Dr, Alan White)

The proposed ICRI-supported project will provide key funding support over a twelve (12) month project period to further expand and demonstrate the benefits of related on-going CDF initiatives, including:

**US National Fish and Wildlife Foundation (NFWF) / NOAA** - Support establishment of MPAs in Lapu Lapu City, improve MPA management and economic benefits (July 2002 – Dec. 2003).

**US National Oceanic and Atmospheric Administration (NOAA)** – Support Reef Check and socio-economic assessment and monitoring (SocMon) surveys and trainings and integration of SocMon approaches into Reef Check methods (July 2002 – Dec. 2003).

**USAID-funded East Asia and Pacific Environmental Initiative (EAPEI) / Reef Check** - Establish and serve as regional Reef Check training program and center, involving annual S.E. Asia regional and Philippine national trainings and conducted surveys (Sept. 2002 – Nov. 2004).

**USAID-funded EAPEI / World Wildlife Fund (WWF), Indonesia** – Support Reef Check surveys in the Philippines, prepare and produce RC training and communication materials in local languages (Sept. 2002 – Nov. 2004).



With CDF support to date, the first two MPAs, involving nearly 100 ha of prime reef areas, have been legally established. Present City government and local community initiatives will lead to an increasing number of new MPAs being established in the next year. Four (4) additional MPAs are in advanced stages of being established through a community consultative process, assessment surveys and legal measures. Currently funded projects and local resources will not meet the need to move to the critical next steps – to institutionalize MPA management, monitoring and enforcement capabilities during the critical MPA start-up and expansion period.

**Project Objectives:** This “high impact” project will serve to assist concerned local communities, government units and private sector groups to define and establish a City-wide and financially sustainable MPA management, monitoring and enforcement organization, with an appropriate supporting framework and methodologies. The project will significantly help to conserve threatened coral reefs of recognized high biodiversity and productivity values located within the country’s second largest urban area, involving a highly visible, major diving / coastal tourism destination.

Building on recent and on-going related activities, the project will serve to further establish, demonstrate and disseminate a working model for effective and self-sustaining MPA management and evaluation approaches in more complex “urban” reef areas and coastal communities.

**Project Work Plan:** Based on the funding announcement, this proposed ICRI Small Grants supported project is assumed to start-up in/about April 2004 and would be completed within twelve (12) months. Our corresponding project work plan is summarized on the following page.

Recent and on-going project-related initiatives are currently expected to legally establish, through participatory processes, an estimated 4 – 6 new MPAs, which will probably average about 10 - 15 hectares each of high priority reef area within the MPAs’ “core areas”. A larger area of reef and related coastal resources are expected to benefit through improved management by being included in the MPA “buffer areas” or indirectly through increased community enforcement and compliance.

Since the first MPA in the City of Lapu Lapu was only recently established in late 2000 (through CDF supported initiatives), this rapid increase in the number of new MPAs will present significant management and administrative challenges as well as unique opportunities to reinforce the current drive towards improved CRM and reef conservation. To meet these challenges, and opportunities, the proposed ICRI Small Grants project will serve to support both community-based MPA planning and management, through broader, City-government level support agencies and organizations with which excellent working relationships and partnerships are in place, including the following key project partners:

- Department of Agriculture / City Agriculturalist Office, which is directly responsible for implementing coastal and fisheries management within the City’s waters;
- City Fisheries and Aquatic Resources Management Council (CFARMC), which is directly responsible for planning and policy aspects of coastal and fisheries management within the City’s waters;
- Barangay (“village”) councils of the respective communities where MPAs are proposed and/or established, which will generally be directly involved in day-to-day MPA management;

**Detailed Work Plan**  
**ICRI Small-Scale Development Project Grant:**  
**“Demonstrating Effective Monitoring and Management of “Urban” MPAs within Lapu Lapu City (Cebu, Philippines)**

	Description of Key Activity	2004									2005		
		April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
1	Present / Validate Approved Project Work Plan with Partners	X											
2	Confirm / Implement TA & Project Partner Support Activities	X	X	X	X	X	X	X	X	X	X	X	X
3	Develop / Implement Needed TA for MPA Management	X	X	X	X	X	X	X	X	X	X	X	X
4	Develop / Implement IEC Program to Support MPA Program	X	X	X	X	X	X	X	X	X	X	X	X
5	Establish MPA / CRM Database / Mapping System for City		X	X	X	X	X	X					
6	Conduct Bi-Annual MPA & Reef Check Trainings & Surveys		X	X					X	X			
7	Integrate Results to Date for 10 <sup>th</sup> ICRS Presentations		X	X	X								
8	Support Key Partners Presentations / Participation at 10 <sup>th</sup> ICRS			X	X								
9	Organize / Conduct Post-ICRS MPA Tour & Workshop to Cebu				X	X							
10	Feedback 10 <sup>th</sup> ICRS Results to Local Partners				X	X							
11	1 <sup>st</sup> MPA / Reef Expedition by Durham University with Partners				X	X							
12	Document / Feedback Results of Durham / Partner Expedition					X	X						
13	Support Annual City Budget Planning for MPAs / CRM					X	X	X					
14	Develop / Implement Promotional Program for City's MPAs						X	X	X	X	X	X	X
15	2 <sup>nd</sup> MPA / Reef Expedition by Durham University with Partners							X	X				
16	Document / Feedback Results of Durham / Partner Expedition								X	X			
17	Support Extension of Project Results to Interested Communities									X	X	X	X
18	Assist Partners to Develop Follow-on TA and Funding Proposals										X	X	X
19	Document & Feedback ICRI Project Results / Recommendations											X	X

- Ocean Care Advocates, Inc., an organization of concerned local resorts and dive operators which was established in 2002 with CDF assistance to help mobilize key private sector support, and
- Expanding local network of trained Reef Check and SocMon volunteers, community members, local university and international interns (Durham University, U.K.; others).

**Specific Work Plan Activities, Deliverables and Linkages to ICRI Framework for Action:** The proposed project is directly linked to the ICRI Framework for Action, including key support to improve management, capacity building, research and monitoring, and review in a highly visible and valuable reef area as follows:

**Management:** The proposed project will assist key partners to:

- Establish the management framework, physical boundaries, user fees and prohibitions for MPAs in this unique and highly valuable area of “urban” reef resources.
- Establish a multilingual information, education and promotional program on the objectives, management measures and results of the City of Lapu Lapu’s adopted MPA / CRM program.
- Document improvements in the bio-physical quality of the established MPAs, as measured by increases in live coral cover, abundance and size of target species and overall biodiversity values. .
- Generate direct revenue from introduced user fees and related measures that can serve to sustain MPA operations, expand enforcement / CRM activities and provide significant local economic benefits.
- Establish and demonstrate a “do-able” urban MPA process and model for replication within the City and similar coastal communities / reef areas with high levels of use, including diving tourism.

**Capacity Building:** The proposed project will assist key partners to:

- Mobilize and organize broad community, local government and private sector support for reef conservation through the participatory process of establishing, managing and evaluating MPAs.
- Provide needed assistance and support to on-going local efforts and commitments.
- Strengthen their current capabilities through direct involvement in MPA planning, operation, management and monitoring.
- Share experiences, demonstrate and extend results, including during annual Reef Check regional S.E Asia and national trainers’ trainings to be conducted in the project area.

**Research and Monitoring:** The proposed project will assist key partners to:

- Apply and institutionalize on-going Reef Check and SocMon training and survey programs.
- Further expand these participatory monitoring methods to local communities and interested members where MPAs are planned or established.
- Demonstrate their results and experiences gained during annual Reef Check national and regional SE Asia trainer’s training programs, related publications and reports, particularly from visiting tourist divers, researchers and interns (Durham University, U.K., etc).
- Establish an integrated, annual monitoring program, which can linked to the Natural Resource Database ([www.rldb.co.uk](http://www.rldb.co.uk)) which has been established for the adjacent waters and coastal resources of the Province of Bohol through the support of the Volunteers Service Overseas (VSO).

**Review:** The proposed project will assist key partners to:

- Provide further inputs and demonstrated applications of the Reef Check, SocMon and other MPA planning and management methods applied.
- Document and feedback results with key stakeholders, publish and present these results, including at the 10<sup>th</sup> International Coral Reef Symposium to be held in Okinawa, Japan in July 2004.

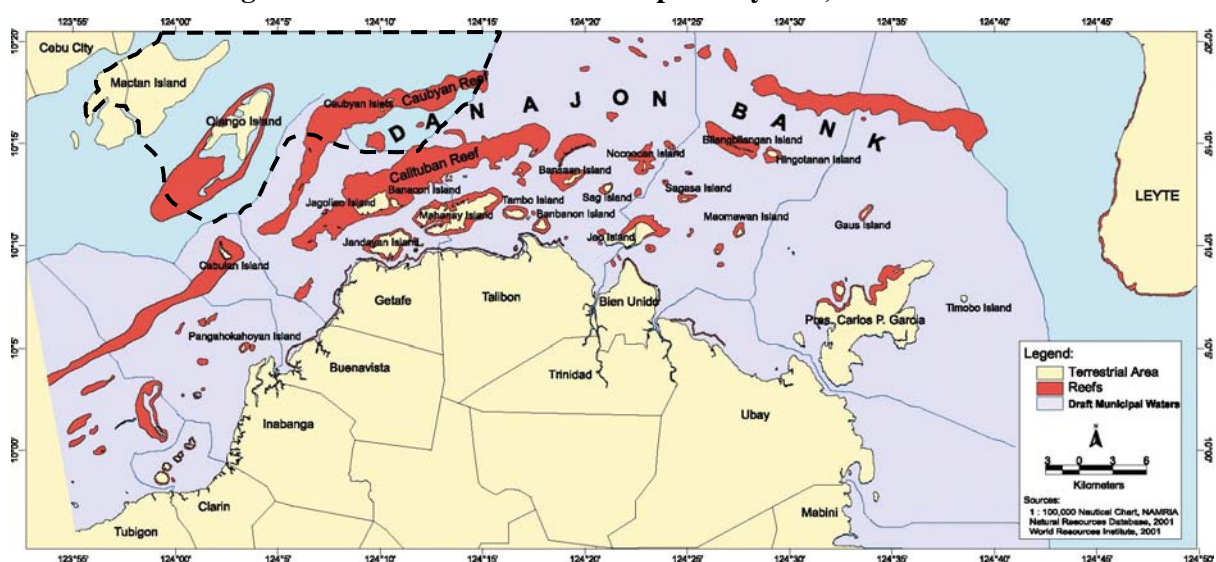
**Other Sources of Funding Involved:** The proposed project will involve a collaborative effort, with counterpart funding and/or in-kind support from key project partners and stakeholders. This approach is designed and recognized to strengthen local project “ownership” and involvement, while maximizing the leveraged benefits of available external funding. In addition to the City of Lapu Lapu (which has included about US\$50,000 for MPA establishment in their 2004 budget – the first year in the City’s history to include such a budget lineitem!), counterpart funding and/or in-kind support are expected to include:

- Related CDF grant funded projects, including USAID / EAPEI-funded Reef Check trainings and surveys, and NOAA-funded SocMon trainings and surveys.
- Counterpart support provided by Ocean Care Advocates group of local resorts and dive operators.
- Counterpart support provided by local communities where MPAs are located.
- Counterpart support and contributions provided by visiting divers, researchers and interns, including current plans for two (2) related educational / research expeditions in 2004.

**Distinguishing Deliverables Funded by ICRI Grant:** Similar to current CDF grant funded projects, all expenditures will be carefully accounted for to distinguish and record specific deliverables and results relating to each grant. As reflected in the attached Detailed Budget, specific deliverables for which the ICRI Small Grants support will be most distinguished are expected to include:

- Establishment of Multi-Lingual IEC Program and Display / MPA Promotion Centers
- Introduction of Needed Assistance in Planning and Managing a Network of “Urban” MPAs, including User Fee / Revenue Sharing Approaches for Managed Diving Tourism
- Key Partner Participation and Presentations at the 10<sup>th</sup> International Coral Reef Symposium, followed by Supported Project Site Visits / Consultations by Selected ICRS Participants
- Sponsorship of Selected Local Partners to Participate in Planned MPA / Reef Expeditions to be Conducted by Durham University (U.K.; see separately attached preliminary expedition details)
- Establishment of a Coastal Resource / MPA Database and Mapping System to Support Integrated Planning and Information Management Linked to Existing Systems Established for the Adjacent Waters and Reefs of the Province of Bohol (sample mapping info for reef areas illustrated below)

**General Project Location Map (area enclosed by “dashed line”)  
on Existing Natural Resource Database Map and System, Province of Bohol**



**Map of Danajaon Double Barrier Reef,  
showing outer barrier (Caubyan) and Inner Barrier (Calluban)**