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International Coastal Resources Management Project

The University of Rhode Island

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Bureau of Science and Technology, U.S. Agency for International Development

The four major goals of the AID/URI Coastal Resources Management Project (CRMP) are: 1) to apply, as appropriate, existing experience in coastal resources management to developing countries; 2) to assist three developing nations in the design and implementation of integrated coastal resources management programs; 3) to advance the state-of-the-art of coastal resources management in developing countries; and 4) to build URI's capability to assist developing nations with coastal resources management.

The CRMP will work with the cooperating pilot countries to:

- develop procedures for the assessment of the impacts of coastal development proposals
- develop institutional and technical solutions for resource use conflicts
- support research to better understand the issues that affect the condition and use of coastal ecosystems
- improve the capabilities of in-country professional staff to plan for and manage coastal development

The countries selected for pilot projects are Ecuador, Sri Lanka and, tentatively, Thailand.

The AID/URI Coastal Resources Management Project is funded by the Office of Forestry, Environment and Natural Resources, Bureau of Science and Technology, U.S. Agency for International Development through a Cooperative Agreement with the International Center for Marine Resource Development, at The University of Rhode Island.

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URI/AID COASTAL RESOURCES MANAGEMENT PROJECT

SECOND ANNUAL WORK PLAN
FOR DOMESTIC ACTIVITIES, TRAINING AND OUTREACH

July 1, 1986 - June 30, 1987

SECOND ANNUAL WORK PLAN
DOMESTIC ACTIVITIES
July 1, 1986 - June 30, 1987

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COASTAL RESOURCES MANAGEMENT PROJECT
URI/AID COASTAL RESOURCES MANAGEMENT PROJECT

SECOND ANNUAL WORK PLAN

July 1, 1986 - June 30, 1987

1. INTRODUCTION

On May 16, 1985, the University of Rhode Island (URI) and the US Agency for International Development, Bureau of Science and Technology, Office of Forestry, Energy and Natural Resources (AID/S&T/FENR) signed a cooperative agreement to support a coastal resources management project (CRMP) that will launch pilot projects in integrated coastal resources management in three developing nations - Ecuador, Thailand, and Sri Lanka. The CRMP's objectives and accomplishments during its first year are summarized in the First Annual Report.

The CRMP is implemented through annual workplans. Annual workplans are prepared for each pilot country and for domestic activities. The status of existing workplans is as follows:

Domestic Work Plan: Program Year Two begins July 1, 1986

Ecuador: Year One Work Plan operational
Program Year Two will begin October 1, 1986

Sri Lanka: Year One Work Plan Operational
Program Year Two will begin January 1, 1987

Thailand:

Program Year One estimated to begin

November 1, 1986

This document is the second annual work plan for the domestic portion of the program.

2. OVERALL OBJECTIVES FOR DOMESTIC ACTIVITIES DURING YEAR TWO

- A. To implement and manage the AID/URI Coastal Resources Management Project
- B. To coordinate the CRMP's activities with AID Washington and the in-country AID missions.
- C. To launch a third pilot project in Thailand.
- D. To work with pilot country counterparts in Ecuador, Sri Lanka and Thailand to shape the pilot projects and work on substantive sub-projects as identified in pilot country annual work plans.
- E. To identify and work on selected issues and topics common to CRM in the three pilot countries.
- F. To network with individuals, organizations, and institutions with interest in and knowledge of CRM in both developed and developing countries.
- G. To network with related organizations and donor agencies with projects in the Pilot Countries.
- H. To further develop the outreach and training program for the CRMP.
- I. To continue to build URI's institutional capacity to provide assistance to LDCs on CRM issues.

3. ELEMENTS OF THE SECOND YEAR WORK PLAN

Domestic activities include support of core CRMP staff, substantive and administrative support of the pilot projects, and training and outreach programs. Support for these activities come both from AID/S&T/FENR and in-kind contributions from the University of Rhode Island.

3.1 AID/S&T/FENR Inputs

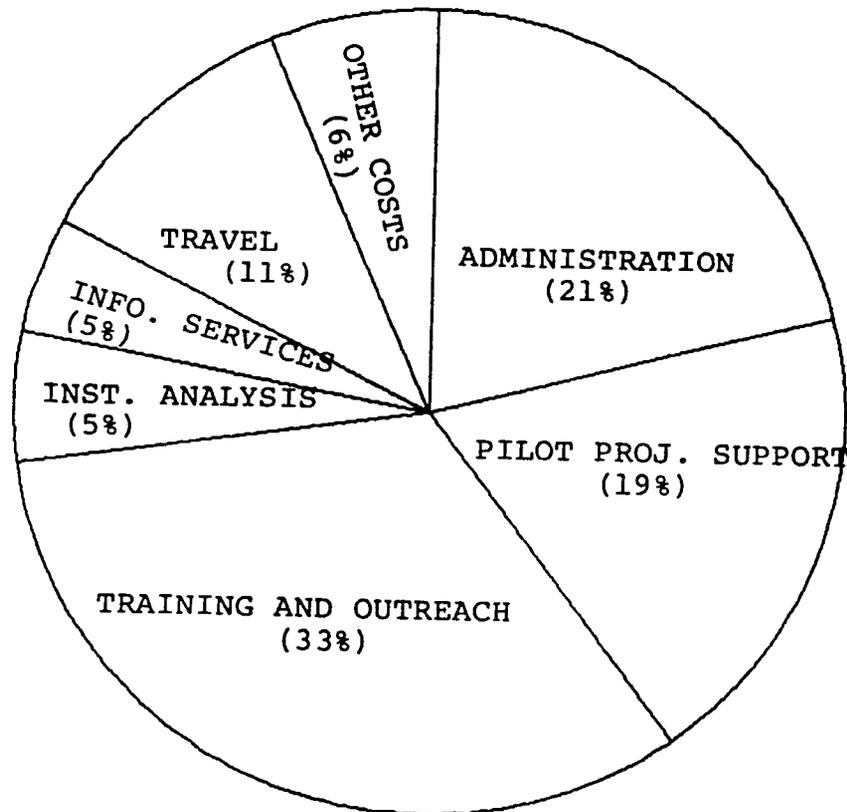
AID/S&T/FENR funds will be used for the following activities in Year Two:

- A. Supporting core CRMP staff at URI to develop and implement pilot programs, and administer the CRM Project.
- B. Supporting a training program for the CRMP.
- C. Supporting an outreach program for the CRMP.
- D. Buying necessary computer hardware and software for the CRMP.

Total AID/S&T/FENR support for domestic activities including training and outreach during Year Two will be \$516,600. The distribution of the budget by major project activity is illustrated in Figure 1.

Approximately 33 percent of the domestic budget will be used for training and outreach activities, 19 percent in direct support of substantive elements of the pilot projects, 21 percent for program administration, and the remaining 27 percent for a combination of other activities

FIGURE 1
DISTRIBUTION OF YEAR 2 DOMESTIC BUDGET



including continuation of the institutional analysis issue team's work, ICMRD Information services, and travel. An additional \$45,000 remaining from the year one budget will be carried over as a contingency fund.

3.2 URI Inputs

URI has agreed to support the CRMP through matching funds that will total \$55,000 in Year Two. Matching funds are in the form of state funded URI faculty and staff who are serving on the CRMP's Board of Directors or are working on various technical aspects of the CRMP. Table 1 lists the individuals from URI contributing matching time for the project.

4. PROJECT STAFFING AND ADMINISTRATION

4.1 Staffing

A. Background

The overall staffing of the CRMP was a matter of discussion with AID throughout the Project's first year. With the exception of the tropical coastal ecologist position, all CRMP core staff positions are filled.

It was agreed with AID/S&T/FLNR that prior to Year Two, the CRMP would review its requirements for support services and the most efficient means of obtaining those services. This review has been completed and

TABLE 1. URI Match Contributions to the AID/URI CRMP

<u>Name/Department</u>	<u>Contribution</u>	<u>Time</u>
A. <u>Salary</u>		
1. Dr. John Knauss Vice-President for Marine Affairs	Member of the CRMP Board of Directors	1 week
2. Dr. Gerald Donovan Director, ICMRD	Member of CRMP Board of Directors	2 weeks
3. Dr. Donald McCreight Assoc. Director, ICMRD	Administrative Support	4 weeks
4. Donald Robadue Asst. Director, CRC	Institutional Analysis Issue Team	11 weeks
5. Virginia Lee Marine Res. Specialist	Special Area Mgmt Planning in Sri Lanka	5 weeks
6. Anne West Admin. Asst. Int'l Student Affairs	Logistics for Trainees	6 weeks
7. Dr. Thomas Weaver Prof. Resource Economics	Resource Economics Issues	3 weeks
8. Dr. Jon Sutinen Assoc. Professor of Resource Economics	Shrimp Mariculture Issue Team	1 week
9. Dr. Niels West Assoc. Professor of Marine Affairs	Training, Remote Sensing and CRM Issues	3 weeks
10. Dr. Timothy Hennessey Prof. Political Science	Institutional Analysis Issue Team	3 weeks
11. J. McGrath Editor	Review of ICMRD Newsletter	2 weeks

modifications to this structure are required. These are shown in Figure 2 and described in 4.1 (B) below.

B. Staffing Plan

Core Technical Staff

Core technical staff for the CRMP includes the Project Director (PD), Assistant Project Director (APD), Tropical Coastal Ecologist (TCE), and Graduate Research Assistant (GRA). This group is responsible for implementing the CRMP. Allocation of core staff's time among project administration, other domestic and outreach activities, and the pilot projects is shown in Table 2.

TABLE 2. Allocation of Domestic Staff Time.

	Project Admin.	Other Domestic/ Outreach (%)	Ecuador (%)	Sri Lanka (%)	Thailand (%)
Project Director	20	30	20	15	15
Asst. Project Director	35	35	10	10	10
Tropical Ecologist	0	10	30	30	30
Graduate Assistant	0	50	0	25	25
ICMRD Info Services	0	25	25	25	25

FIGURE 2. ADMINISTRATIVE STRUCTURE OF THE CRMP

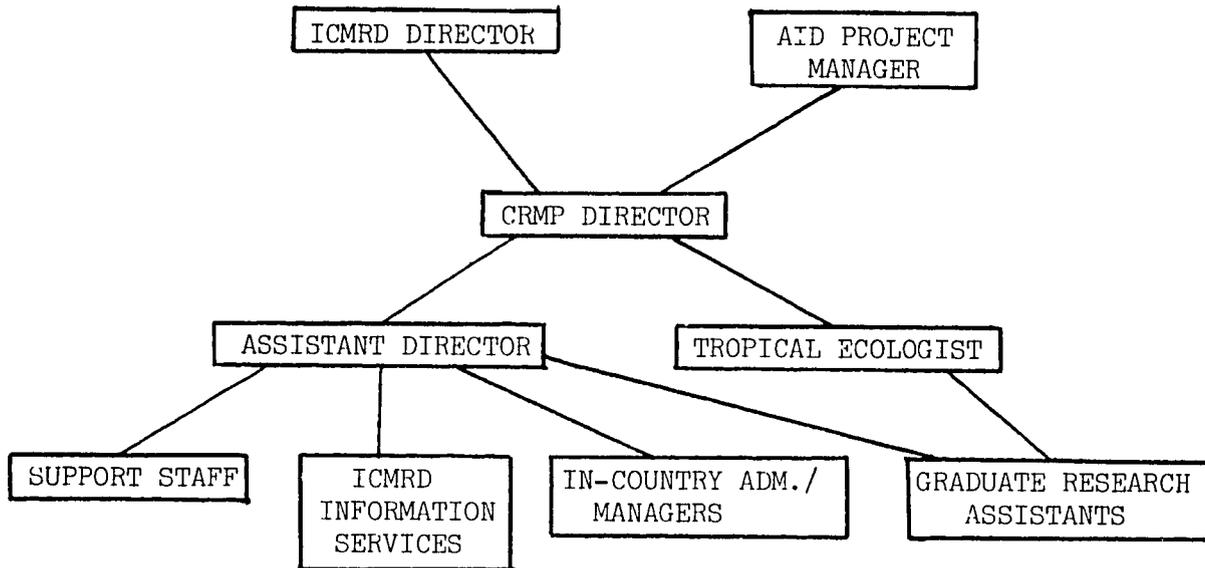


FIGURE 2. CRMP Organization and Staffing.

Staff activities in the pilot countries are detailed in Section 5; and core staff activities for training and outreach are found in Section 6. Administrative tasks projected for Year Two and the individual(s) responsible for them are listed below.

- i. Review and approve project expenditures; monitor expenditures and budgets (PD, APD)
- ii. Supervise staff (PD, APD)
- iii. Review and streamline administrative procedures to increase efficiency (PD, APD)
- iv. Recruit and hire the tropical coastal ecologist (PD, APD)
- v. Prepare project budgets and budget projections (APD)

Support Staff

As the CRMP has launched its pilot projects, both the clerical and fiscal workload has expanded. To meet this increased workload and keep the CRMP operating smoothly, we plan to consolidate secretarial and fiscal support services for the project at the Coastal Resources Center. Hence, Year 2 support staff will include a full time business manager at the Coastal Resources Center and two half-time secretaries. The transition from the support staff structure as set forth in the Year 1 Work Plan to the new structure is expected to take place during the first half of Year 2.

Support staff to be supported by the CRMP and a brief summary of their responsibilities are as follows:

Business Manager (full time). Interface between CRMP staff and the business and administrative offices of URI. Preparation of all personnel forms, logistics and paper work for travel, processing personal services contracts, assisting APD with budget preparation and projections, preparation of monthly fiscal reports.

Student Assistant (10-15 hrs/week). Assist Business Manager to maintain current status of accounts.

CRC Secretaries (2, half time). Provide secretarial services for CRMP Staff.

4.2. Computer Purchases

In Year One, two desk top computers with dot matrix printers were bought through the domestic budget. One computer is located at CRC, the other is on loan to AID/S&T/FENR in Washington. Compatible word processing software is installed in both computers. Complementing this network are two compatible computers in Ecuador and an ICMRD computer on which all fiscal records are kept. To increase productivity and the quality of products from the CRMP, the following additional hardware will be bought in Year Two.

i. Laser Jet Printer. The CRMP is now producing reports on a dot matrix printer. This printer does not produce products of sufficient quality for final publications. With a laser printer, the CRMP will be able to produce reports that are of similar quality to those produced by a typesetting machine. We will also be able to produce brochures, flyers, etc. This machine will complement the existing dot matrix printer which will still be used to produce draft materials.

ii. Lap Top Computer. A lap top computer will greatly facilitate the production of documents by core CRMP staff during TDYs to the pilot countries. A major purpose of most TDYs is to produce a work plan, report, or some other document. A portable computer, compatible with the computers at AID and URI will greatly facilitate production of such reports. When not being used overseas, the lap top computer will provide a second work station for CRMP staff at CRC.

iii. IBM-PC for ICMRD Information Services. Information Services is one key element of the CRMP. A cornerstone of the services they provide the CRMP is putting relevant project documents on a computerized database. The computer currently being used by Information Services (which is on loan to them) is not adequate for the growing database. An IBM-PC with a hard disk will be purchased for this group and be housed in the the ICMRD Information Services Office in the Library on URI's Main Campus.

4.3. Boards

During Year One the committee structure of the CRMP was revised from the original URI proposal. Board and Committee responsibilities are set forth in the Year One work plan.

Board of Directors. During Year One, there was one meeting of the Board of Directors. In addition, the PD frequently consulted with Board members individually on policy matters. In Year Two, the Board of Directors will meet twice-- at the beginning and mid point of the project year.

External Technical Resources Advisory Panel. Members of this panel have been individually consulted on relevant aspects of the CRM during Year One. This practice will continue in Year Two.

Issue Teams. During Year One, issue teams on institutional analysis and shrimp mariculture were formed. In Year Two an additional issue team on training will be formed.

5. PILOT PROJECT SUPPORT

A. Background

The primary objective of the AID/URI CRMP is to launch integrated coastal resources management programs in three pilot countries. Pilot project support is therefore a primary objective of most activities funded through the "domestic" budget. Both administrative and technical support is provided to the pilot projects through domestic activities.

During Year One, pilots were launched in Ecuador and Sri Lanka, and initial steps taken to launch the Thailand pilot. Overall pilot project objectives are set forth in the Project Agreements that govern each plot. Pilot project activities are determined annually through the development of work plans. The first year work plan for Ecuador runs through September 30, 1986; the first Sri Lanka work plan through December 31, 1986. Specific pilot project activities that will occur after these dates will be set forth in their respective second annual work plans. At the time of writing, the first annual work plan for Thailand is in preliminary draft form.

B. Objectives

- i. Provide technical guidance on substantive elements of pilot project activities as set forth in annual work plans.

ii. Work with host-country counterparts to prepare annual work plans.

iii. Provide administrative support to in-country managers and administrators.

5.1 Ecuador (see Ecuador First Annual Work Plan for complete task descriptions and budgets.)

i. Shrimp Mariculture Workshop. The PD will work with the shrimp project coordinator to oversee the preparation of the synthesis papers for the shrimp mariculture workshop. The PD will facilitate the workshop and help to edit the proceedings.

ii. Information Synthesis/Profiling Task. All core CRM staff are expected to have significant input into this task. Working sessions will be held with the Ecuadorian writers in Ecuador and drafts will be reviewed at CRC. The TCE is expected to play an important role in implementing this task. Details of CRMP core staff/Ecuadorian contractor relationship will be finalized upon selection of the Ecuadorian contractor.

iii. Institutional Analysis. The Institutional Analysis Team will work closely with the Ecuadorian contractor on this task. A July TDY to URI is scheduled to finalize the consultant's paper for the

mariculture workshop and review his approach to the rest of his institutional analysis task. A subsequent TDY to Ecuador by one or more of the institutional issue team members is planned for later in Year Two.

iv. Public Education. The APD will review the CRMP's public education strategy, supply the contractors with examples of materials used elsewhere that may be useful to the Ecuador Program, and review all materials prior to production and distribution.

v. Training. CRMP core staff will participate in training activities for the Ecuador CRMP Steering Committee. The PD will hold a one-day session with the group in late July. Subsequent sessions will be planned in the Year Two Ecuador Work Plan. In addition, Ecuador pilot personnel will be a primary recipient of products of the U.S. based training and outreach tasks described in Section 6.

vi. Technical Back-up. Core CRMP staff will continue to provide technical back-up to the In-Country Manager for requests he receives for information/technical assistance from Ecuadorian agencies and groups.

vii. Year Two Work Plan. The broad elements of the Year Two Work Plan will be reviewed with key Ecuadorian participants in-country by the PD, during a late July TDY. Drafts of the work plan will be

reviewed by the PD and APD during August and September. The content of the Year Two Work Plan will determine the substantive support activities of US CRMP staff during the October to June, 1987 period.

viii. Information Services. Material in support of the Ecuador pilot will continue to be collected and entered into the CRM database by ICMRD Information Services. During a July TDY to Ecuador cosponsored by the CRMP, ESPOL, and the URI/AID Fisheries Cooperative Agreement, the ICMRD Information Services Librarian will develop recommendations for linking the CRMP with libraries in Ecuador with coastal and marine materials.

5.2 Sri Lanka

i. October 1986 CZM Plan Preparation. The PD and APD will continue to review all draft sections of the October, 1986 CZM Plan being prepared by CCD. A September TDY to Sri Lanka is planned by the APD to work with CCD to finalize the draft plan.

ii. Year Two Work Plan. A late November TDY to Sri Lanka is planned by the PD to prepare the second annual work plan. Core CRMP staff activities during the January through June, 1987 period will be set forth in this work plan. The activities will follow the guidelines set forth in the MOU.

5.3 Thailand

i. Preparation of MOU and First AWP. Finalizing the Thailand MOU and AWP is the first priority for CRMP core staff. This will be facilitated by a July TDY to URI and Washington, DC by Kasem Srinian, a consultant to the USAID/Bangkok Mission and possibly, an early September TDY to Thailand by the APD. The substance and timing of core staff support activities for the Thailand pilot will be determined by the MOU and first annual work plan. The anticipated date of signing the MOU is October 1. A mid-October study tour to the U.S. by key Thai officials working with the CRMP is likely the first activity to be carried out under the MOU.

6. TRAINING AND OUTREACH

A. Background

While the original AID CRM Project Paper allocated about twelve percent of the projected \$4.9 million CRMP budget for training and outreach activities, the URI/AID Cooperative Agreement does not identify training and outreach as a discrete project element. After an April, 1986 discussion with the AID CRM Committee on the need for such a program element separate from the pilot country budgets, and setting the Thailand pilot budget at a level below what had been projected in the Cooperative Agreement for the third pilot, it was agreed to incorporate a training and outreach program in the Domestic Budget. Activities funded through

this element will directly answer pilot project needs as well as extending the benefits of the CRMP to other nations.

A basic premise of the AID/URI CRMP is that US CRM experience is applicable to the solution of problems in the coastal regions of LDCs. As argued in the first semi-annual report, this assumption appears to be valid if one remembers that there is no US formula for coastal management, rather there is a rich and varied set of experiences and examples--both good and bad--upon which the developing world can draw as they tackle the enormous challenge of managing their coastal resources. Currently, there is little consensus on either what examples from the US are most relevant and instructive to developing nations or on what the best vehicle is for transferring this experience.

In-country training is an essential element of all the pilot programs. There is an additional demand both by pilot country nationals and individuals from other LDCs interested in CRM, for degree and non-degree training in CRM in the US and study tours on CRM. CRMP core staff has already been approached by host-country counterparts for advice on placing people in US programs, for short courses, and study tours. To date responses to requests for study tours have been ad hoc. For more formal short course and academic training, staff has been unable to make recommendations as to existing programs or comfortably place people in existing URI programs.

CRM is a new discipline, especially in the developing world. It is therefore essential that the experience being gained worldwide be shared through a medium useful to practitioners. It is equally important that the relatively small but growing network of individuals concerned and knowledgeable about this field be nurtured and given opportunities for productive interaction and dialogue.

B. Objectives

- i. To support, expand and enhance the network of individuals concerned about CRM in developing countries through provision of information, training opportunities and dialogue.
- ii. To review CRM training needs for short courses and academic programs and devise a strategy for the CRMP to meet these needs.
- iii. To design courses and identify faculty for specialized CRM training sessions both in the U.S. and in-country.
- iv. To develop techniques for effectively transferring experiences in implementing CRM program development and implementation to LDC CRM practitioners.
- v. To disseminate information about the CRMP, its pilot projects, and lessons learned through implementation of the project.

6.1 Training Programs

A. Academic Programs, Short Courses and Study Tours

An issue team on training will be formed. The team will include URI faculty and consultants knowledgeable about the US and foreign CRM experiences, marine affairs and education, and the needs of LDC students and bureaucrats likely to be involved in coastal resources management in LDCs. This team will:

- i. Systematically review CRM training needs for short courses, academic programs and study tours and devise a strategy for the CRMP to meet these needs.
- ii. Identify existing and design new courses for specialized training sessions both in the U.S. and the pilot countries.
- iii. Identify examples from the U.S. and other nation CRM experiences that best illustrate various approaches/aspects of CRM.
- iv. Recommend priorities for the type, content, faculty, length, and timing of training programs the CRMP should sponsor for pilot countries and others.

Products: By October 30, 1987, the issue team will produce a report with findings and recommendations on CRMP training initiatives. This report will set the course for further action by the CRMP.

B Preparation of Training Materials

i. Written Case Studies. Rigorous case studies have proven to be effective training tools in a large number of fields. Their main value lies in their diversity of content and uniformity of presentation. This makes the student learn problem solving techniques rather than only facts. Existing "case studies" in CRM lack uniformity are often lengthy, and sometimes are unfocused. During Year Two, a case study format will be developed and four case studies prepared. These case studies will have two primary purposes. First, they will be useful training materials for both US and the pilot country training programs. Secondly, and more importantly, they will provide a vehicle for capturing experience being gained in many locations on the management of coastal resources. Once example case studies are available, it will be relatively simple to solicit material for additional case studies. If the case study approach proves useful, a major effort will be made in Year Three to build a comprehensive collection of such studies for publication.

ii. Video Materials. Written case studies, while of potentially great usefulness, would be greatly enhanced by companion audio

visual presentations. Video case studies would provide a powerful technique for rapid communication and education. A unique opportunity exists which will allow the URI/AID CRMP to inexpensively produce one or two video case studies on coastal resources management to test this technique. AID has available excellent footage on coastal problems in Sri Lanka, which focus on sand and coral mining. Combining this footage with film provided by the Sri Lanka Coast Conservation Department, slides from the other pilot countries and footage shot in the U.S., a 20 to 30 minute video tape on Integrated Coastal Resources Management will be prepared. It will be directed at the following two topics:

- a. The problems that Integrated Coastal Resources Management is directed at solving and how does one begin the process of designing such a program.
- b. Case studies in CRM from Sri Lanka (erosion control) and Ecuador (shrimp mariculture) emphasizing how the issues were identified and defined within an integrated CRM context, what knowledge was brought to bear on the issues (existing and new research), and what management initiatives were undertaken and how they fared.

Products: Four written case studies and one video will be prepared during Year Two.

6.2 Outreach

A. Newsletters, Bulletins and Project Publications

During Year One, the CRMP's major vehicle for outreach was the ICMRD Newsletter. The major purpose of this newsletter is to give readers an overview of all URI international programs. While it is important to continue to contribute material to this newsletter, this by itself is not a sufficient outreach effort. Through the NPS Expanded Information Base Project, a data base of about 500 individuals interested in and/or practicing coastal area management in LDCs plus 300 individuals from developed countries also interested in CRM in developing nations (CRM practitioners and experts, donor agencies, government officials, NGOs, ect) has been collected and organized. This data base is useful both as a mailing list and as a source of experts and contacts. Termed the CAMP network, this list is the only one available of LDC CRM practitioners and other individuals interested in CRM in developing nations. Maintenance, growth and input to the network is one essential element of the CRMP's outreach efforts.

- i. Maintain and Expand the CAMP Network Mailing List. The CAMP network database is expanded through submission of names and selected information on individuals' interests and skills to a central clearing house. Currently this data base is maintained by the Island Resources Foundation (IRF) in Washington, D.C. The IRF no longer has funds to continue this service. Maintenance of this

network which is still in an embryonic stage, is essential. The CRMP will cooperate with the National Park Service and the Griffis Foundation to continue to build, support, and provide information to the CAMP network. The CRMP will fund the building and maintenance of the CAMP database during this next year. During this period, the database will be transferred from IRF to URI, where it will continue to be maintained. The NPS will continue to have access to the database for mailings and will be responsible for servicing requests from members, providing editorial input and preparation of mailings to the network. The CRMP will also contribute to each CAMP mailing. The Griffis Foundation will pay for duplicating and mailings to the network. During this next year, the CRMP will seek private funding for a publication directed at the practitioners of CRM in developing countries. Whether or not this funding is obtained and a bulletin produced, the CRMP will continue to use the network for its outreach efforts.

ii. ICMRD Newsletter. The CRMP will continue to include articles on the CRMP in the ICMRD quarterly newsletter. In addition, a special issue of the newsletter will be devoted solely to the CRMP.

iii. Publications. The CRMP will publish and distribute two series of documents as follows:

Project Documents to include Pilot Project MOU's, activity and progress reports and selected trip reports. Limited copies will be made and distributed on request.

Technical Reports will include substantive documents produced by the CRMP through both domestic and pilot country programs. Availability of these documents will be publicized through the ICMRD Newsletter and CAMP network. Publication distribution will be handled through the URI Division of Marine Resources Publications Office.

iv. Seminars. The CRMP will continue to sponsor seminars at URI on CRM issues and programs in LDCs.

6.3 Meetings and Conferences

To keep core CRMP staff in touch with progress in the field and provide information about the CRMP to interested groups, it is essential that core staff attend and present papers at meetings and conferences. The staff plans to attend the following meetings:

1. Coastal Zone '87

- CRMP staff is organizing two sessions, presenting papers on aspects of the CRMP, and working with the NPS to organize informal sessions for LDC participants (May 1987).

2. Coastal Society Meeting (New Orleans)

- CRMP staff will attend (October, 1986)

3. Other meetings as identified during the year.

6.4 CRMP Round Table

Key participants from all the pilot projects will be coming to the U.S. for the Coastal Zone '87 Conference at the end of May, 1987. To maximize the usefulness of this gathering, a separate round table will be held prior to the Conference. The purpose of this round table will be to exchange information among pilot project personnel, learn from each other, and bring in key experts to work with pilot project participants on the common problems of program implementation and enforcement. An agenda and format for this round table will be solidified by January of 1987 and incorporated into pilot project work plans. Round table proceedings will be produced as a CRMP Technical Report. We anticipate holding such round tables annually to explore in depth critical aspects of CRM in developing nations.

6.5 Priorities and Budget

The training and outreach component is a major new initiative for the CRMP. The Year Two Program will proceed incrementally. This will allow the project to benefit from knowledge gained as it proceeds and to incrementally commit its financial resources.

The priorities for budget allocations are as follows:

		<u>Date for Commitment</u>
i. Training Issue Team	\$14,000	July 1
ii. Writer (2 months)/Video Tech	8,000	September 1
iii. CAMP Network Support	4,000	September 1
iv. Issue Team Follow-up	10,000	November 1
v. Writer (7 months)	17,500	December 1
- Case Studies		
- Newsletter Contributions		
vi. Round Table	<u>20,000</u>	December 1
TOTAL	\$74,100	

In addition to this amount, core staff support of this element will total over \$80,000 through contributed time of the PD, APD, TCE, and graduate research assistant.

7. ICMRD INFORMATION SERVICES

A. Background

The ICMRD Information Service (IS) provides information support to the CRMP. A decade old, the IS has a collection of over 14,000 items that concentrate on marine information relevant to developing countries. Approximately 1500 new items are added yearly. During year one of the CRMP, IS collected, catalogued, and put on a microcomputer data base

approximately 580 documents for the CRMP. Of this total, 400 were collected on coastal resources and issues in Ecuador, 100 on Sri Lanka, and 50 on general CRM topics in other developing countries.

Staffed by professional librarians since its inception, the CRM-collection reflects IS's concentration on materials of direct benefits to the pilot countries. Emphasis is placed upon 'grey' literature not available through traditional book services and intensive in-country searches by CRMP personnel and contractors. Through arrangement with the University of Rhode Island Libraries, online computer searching facilities, interlibrary loan, and extended marine research facilities are made available to the CRMP.

To increase the usefulness of the rich resources contained in the ICMRD library, cataloguing is done using a microcomputer. Printouts and/or searchable disks on coastal resources and issues have been given to pilot country project personnel and are in use in-country in Ecuador and Sri Lanka. Items in the collection are loaned or photocopied as appropriate in response to requests from pilot countries.

B. Objectives

1. To continue collecting, cataloguing, and adding to the CRM data base materials on CRM resources, and issues in the pilot countries, and as relevant, CRM efforts in other LDCs.

2. To facilitate the transfer of information between URI and the pilot countries.
3. To provide training to pilot country counterparts on coastal information systems.

C. Work Tasks

IS will continue to gather and catalogue relevant CRM information. Included in this task is identifying relevant materials, updating the CRM data base, and working with CRMP staff and contractors on their collections. In addition to custom searches, IS will produce semi-annual listings of their data base for dissemination as a CRM Project Paper. A guide to the use of the CRM data base will be prepared by February of 1987 and be made widely available.

IS will provide training to CRM (including pilot project) personnel users of the data base, and, as set forth in pilot project work plans, provide in-depth training in information services to appropriate pilot project counterparts.

D. Contractors and Budget

The CRMP will continue to support one quarter time of the ICMRD IS Librarian, and half time of the assistant librarian. Total personnel costs for this segment are \$13,500 (through an arrangement with the

URI/AID fisheries Cooperative Agreement, the cost to the project for the Assistant Librarian has been reduced by \$2,800). In addition, \$3,000 has been allocated for acquiring books and journals for the CRMP.

B.0 COORDINATION WITH AID

As a Cooperative Agreement, the project includes substantial AID involvement. Involvement occurs through three major mechanisms: consultation with the AID CRM Advisory Committee, through the approval process and through frequent reports. The details of these coordination processes are set out in the first year work plan, and will be continued during Year Two.

SCHEDULE OF YEAR TWO ACTIVITIES

Domestic

- Administration
 - Hire Tropical Ecologist
 - Reorganize Support Staff
 - Computer Purchases
 - Board of Directors Meetings
- Training and Outreach
 - Issue Team
 - Training Materials
 - Cafe Studies (written)
 - Cafe Studies (video)
- Outreach
 - KCMRD Newsletter
 - CAMP Network Maintenance
 - CRM Round Table
 - Meetings/Conferences
- KCMRD Information Services
 - Users Guide to Coastal Information
- Coordination with AID
 - Pilot Project Support
 - International Staff Travel
 - Institutional Analysis Guide

Thailand

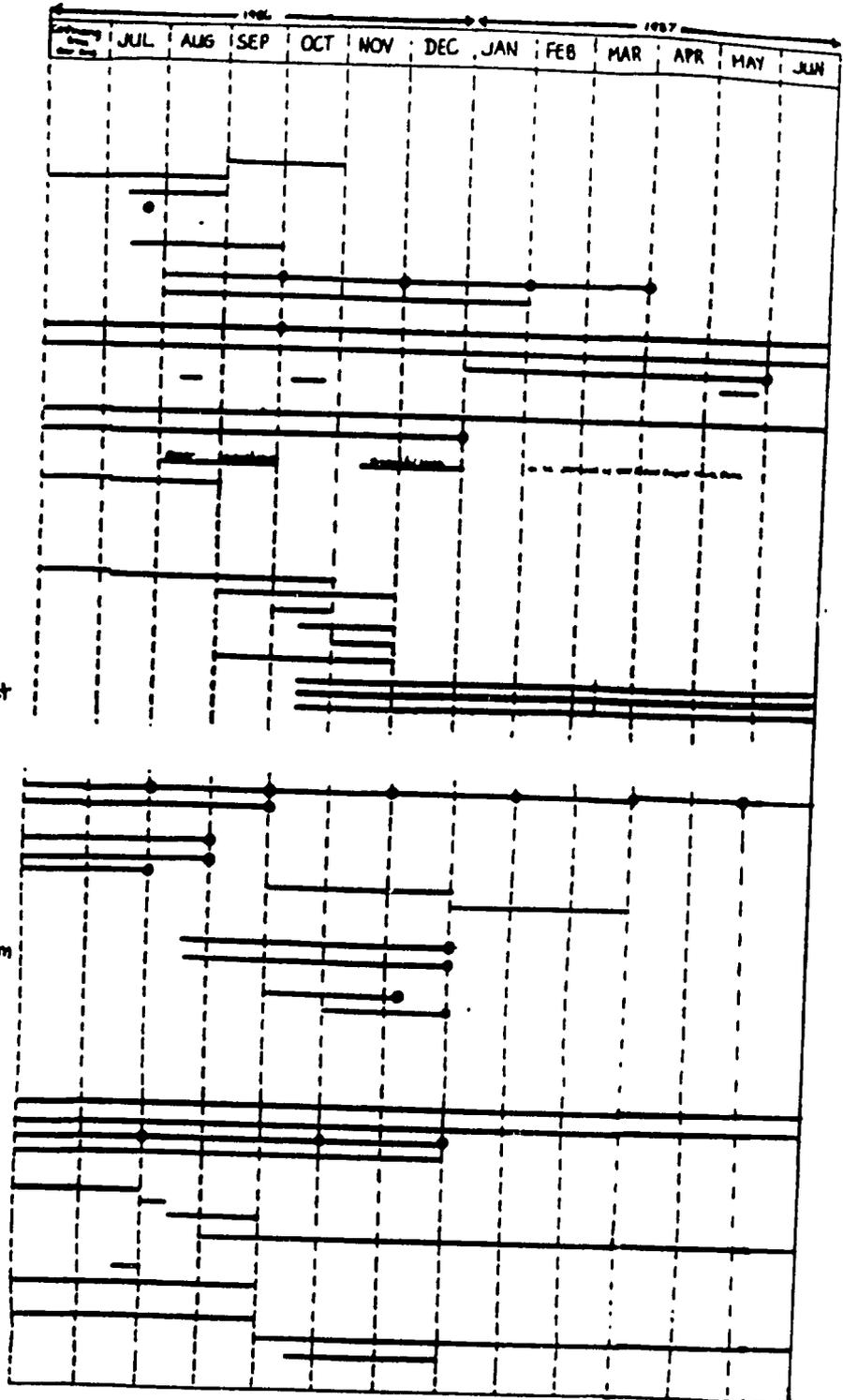
- Project Start Up
 - MOU
 - Hire Project Coordinators
 - ROL Study Tour to US
 - Establish National Task Force
 - Pre-Project Workshop
 - Key Goals Identification
- Year 1 Work Plan
 - National CRM Component
 - Local CRM Implementation Project

Sri Lanka

- In-Country Administration
 - October 1986 Plan Preparation
 - Coastal Habitats
 - Workshop Proceedings
 - Information Summary
 - Mapping Project
- CZMP Review
 - CZMP Production
- Training
 - Curriculum Assessment
 - Local Administrator Training Program
- Outreach Activities
 - Public Education Pamphlet
 - Year 2 Annual Work Plan

Ecuador

- Policy Board and Steering Committee
 - Policy Board
 - Steering Committee
- Legal and Institutional Analysis
 - Provincial CRM Profiles
- Shrimp Harvesting
 - Background Report
 - Workshop
 - Workshop Proceedings
 - Follow-up Activities
- Training
 - Policy and Technical Committee
 - Training Program Strategy
- Public Education Program
 - Design
 - Implementation
 - Year 2 Annual Work Plan



O - project