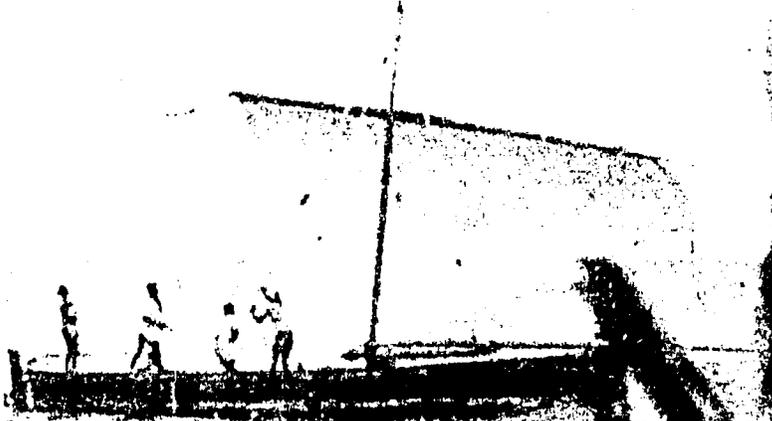


PD-AAV-229

ISN 49190

ANNUAL REPORT                      OCTOBER, 1985  
U.S. AID COOPERATIVE AGREEMENT DAN 4024 A-00-2072  
FISHERY DEVELOPMENT SUPPORT SERVICES  
Project Office    S&T/AGR/RNR  
PROJECT NO.:    936-4024  
July 1, 1984 to June 30, 1985



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**ICMRD**



**INTERNATIONAL CENTER FOR  
MARINE RESOURCE DEVELOPMENT**

126 WOODWARD HALL UNIVERSITY OF RHODE ISLAND  
KINGSTON, RI 02881 USA

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## EXECUTIVE SUMMARY

### Technical Assistance (14.50 total person months)

#### In-Country LDC's

8.50 person months were allocated to in-country TDY's and technical assistance support during Year Three of the Agreement. AID LDC countries utilizing the Agreement included Ecuador, Barbados, Philippines, Indonesia, Djibouti, and Sierra Leone. In addition to these countries, the Project Director met with AID Mission personnel in Costa Rica and Thailand.

#### Regional and Central Bureau

6.00 person months were provided to the African Regional Bureau and S&T/AGR to prepare project PID's and PP's and status reports for fishery development initiatives in West Africa. A list of completed reports is appended to this report, and copies are available upon request from the ICMRD Office.

### Training Programs and Information Services (60.75 person months)

60.75 person months were allocated to training and information services to support fishery development support services in:

- Socio-Cultural Factors
- Fisheries Management and Resource Utilization
- Use of Mariculture in Developing Countries
- Post-Harvest Fishery Losses

Forty-two USAID developing country students were enrolled in fisheries degree related programs. Fifty-four developing country visitors received services from the ICMRD training staff. Thirty-six trainees from nine different developing countries received training in duration from three months to one week.

Six working papers, three ICMRD newsletters and one new publications list were produced under the Cooperative Agreement for distribution. A total of 3,972 documents were distributed during the year.

### Administrative Support Services (29.5 person months)

29.5 additional person months were utilized for fiscal, clerical, word processing and administrative support for the Agreement.

#### Summary of Overall Expenditures and Time Allocation

\$293,621 of expenditures were utilized to implement Year Three of the Agreement. 104.75 person months were utilized to implement Year Three activities.

During January of 1985 Raymond Kitchell was engaged as a planning consultant to provide assistance for establishing project priorities and establishing work plans for future Agreement activities.

#### Year Four Activities

A planning and programming committee will continue to review activities of the four established working committees.

In October of 1985 a description of fisheries development problems publication was finalized. A publication, "Resumes of Working Groups," was also finalized in October of 1985. Three work plans were finalized during November, 1985, to cover activities projected for the period of July 1, 1985, through June 30, 1988.

#### TRAINING

A principal component of ICMRD's comprehensive approach to providing technical marine fisheries assistance to developing countries is through an active stateside and in-country training department. Over the course of Year Three, fifty-four visitors from twelve developing countries received services from ICMRD training staff.

Stateside training was conducted for 36 trainees from nine different developing countries and varied in duration from three months to one week. The groups ranged from a high of eight trainees to personalized training for a single individual. Training programs completed in Year Three were in Stock Assessment, Project Monitoring and Evaluation, Project Development and Management, Instrument Maintenance and Repair, and Microcomputers.

ICMRD has an ongoing relationship in the Philippines with the University of the Philippines and has been requested to submit a proposal for a three-year management plan for all non-degree and degree training to be conducted outside of the Philippines.

Peace Corps training activities have been extended for an additional three years. ICMRD will train all Peace Corps marine fisheries volunteers at the University of Puerto Rico. In FY 1985, seven volunteers destined for developing countries were trained by ICMRD.

#### In-Country Training

ICMRD firmly believes that training conducted in the U.S. to be comprehensive should include an in-country component. The follow-up to the initial training is conducted by the original trainer after a lag period, thus allowing the trainees to process their new skills. The trainer is able to gauge the effectiveness of the training and complete a thorough evaluation. Follow-up, in-country training has proven to be a highly effective method of reinforcing skills learned during the original training period.

Dr. Richard Pollnac completed a two-week, in-country training component that served as a follow-up and as a refresher course on the basic skills learned during a URI stateside training of fisheries officials from the Philippines.

A Memorandum of Understanding is to be worked out with ESPOL in Ecuador which will eventually lead to technical exchanges and in-country training in small-scale technical fisheries.

ICMRD has submitted a budget to train six Omani Fisheries officials at the University of Puerto Rico and URI facilities. The training will last three months and will be continued for an additional six months at The University of Rhode Island.

FORMAL DEGREE AND NON-DEGREE TRAINING  
IN FISHERIES RELATED PROGRAMS

TRAINING PROGRAM

Degree \_\_\_\_\_ year(s) Date(s) 11/15/84-2/15/85

Short-term \_\_\_\_\_ month(s) \_\_\_\_\_ week(s)

Long-term X \_\_\_\_\_ year(s) 4 month(s)

Study tour \_\_\_\_\_ week(s)

Subject: Stock Assessment, Project Monitoring and Evaluation,  
and Project Development and Management

Number of Trainees 8

Country of Origin

Joe Ganino E. Dinsay  
Reuben A. Ganaden  
Filomena G. Gante  
Namnama Prado  
Myrna Capati  
Avelina Santos  
Felisa Luciano  
Leopoldo Palacio

Philippines  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Training

Training in the use of microcomputers in the fields of  
Stock Assessment, Project Monitoring and Evaluation, and  
Project Development and Management.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Materials Purchased

2 IBM PC/XT's  
2 IBM Graphic Printers  
1 HP 7470A Graphic Plotter  
2 Step-down transformers  
Textbooks  
Assorted computer software  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TRAINING PROGRAM

Degree \_\_\_ year(s) Date(s) 10/22/84-10/26/84

Short-term \_\_\_ month(s) \_\_\_ week(s)

Long-term \_\_\_ year(s) \_\_\_ month(s)

Study tour X 1 week(s)

Subject: Overview of fisheries programs at URI  
\_\_\_\_\_  
\_\_\_\_\_

Number of Trainees 6

Country of Origin

Y. B. Edward Jeli Blayong  
William Tany Tieng Kee  
Song Swen Guan  
Tieu Sung Seng  
Peter Chin  
Boklen Bin Nor

East Malaysia (Sarawak)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Training

Seminar on fisheries work being done by URI in LDC's.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Materials Purchased

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TRAINING PROGRAM

Degree \_\_\_\_\_ year(s) Date(s) 2/7/85-2/15/85

Short-term \_\_\_\_\_ month(s) \_\_\_\_\_ week(s)

Long-term \_\_\_\_\_ year(s) \_\_\_\_\_ month(s)

Study tour X 1 week(s)

Subject: Overview of Fisheries Technology at URI  
\_\_\_\_\_  
\_\_\_\_\_

Number of Trainees 6

Country of Origin

Joaquim Madeira  
Ibraimo Assonane  
Jorge Vitorino  
Carlos Julai  
Randolf Sanhueza Ward  
Luis Esparaza

Mozambique  
Matola, Fisheries Training  
Center  
Portugal (FAO)

Description of Training

Exploration of the different fishery technology methods  
utilized at URI.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Materials Purchased

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TRAINING PROGRAM

Degree \_\_\_\_\_ year(s) Date(s) 7/23/84-9/17/84

Short-term \_\_\_\_\_ month(s) \_\_\_\_\_ week(s)

Long-term X \_\_\_\_\_ year(s) 3 month(s)

Study tour \_\_\_\_\_ week(s)

Subject: Peace Corps training in small-scale marine community fisheries

Number of Trainees 7

Country of Origin

(Names not available)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Training

Technical training in marine fisheries (knots, net, small engine repair, boatbuilding, small-scale fishing techniques, sailmaking, navigation and boat handling). Volunteers were destined for Sierra Leone, Eastern Caribbean, and Dominican Republic.

Materials Purchased

Nets, tools, books, fishing gear, boat-building materials

TRAINING PROGRAM

Degree \_\_\_\_\_ year(s) Date(s) 6/3/85-6/22/85

Short-term X \_\_\_\_\_ month(s) 3 week(s)

Long-term \_\_\_\_\_ year(s) \_\_\_\_\_ month(s)

Study tour \_\_\_\_\_ week(s)

Subject: Follow-up on training programs conducted by ICMRD, URI, in 1982, 1983, and 1984-1985, concerning regional fishermen's training centers.

Number of Trainees 13

Country of Origin

BFAR employees from the Central and Regional Bureau offices

Philippines

Description of Training

Pre-training baseline information was collected from all 3 fishery sectors and analyzed by regional fishermen's training centers in order to make recommendations concerning training program needs. Intense instruction in the use of IBM-XT PC was given and applied to project monitoring and evaluation.

Materials Purchased

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TRAINING PROGRAM

Degree \_\_\_ year(s) Date(s) 10/4/84-10/5/84

Short-term \_\_\_ month(s) \_\_\_ week(s)

Long-term \_\_\_ year(s) \_\_\_ month(s)

Study tour X 1 week(s)

Subject: Overview of fisheries programs at URI  
\_\_\_\_\_  
\_\_\_\_\_

Number of Trainees 3

Country of Origin

Mr. Hasyin. Ardidja  
Mr. Slamet Prayitho  
Dr. Ray Agen  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Indonesia  
U.S.A.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Training

Seminar on fisheries programs and research offered at URI.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

;; Materials Purchased

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TRAINING PROGRAM

Degree \_\_\_\_\_ year(s) Date(s) 5/12/85-5/19/85

Short-term \_\_\_\_\_ month(s) \_\_\_\_\_ week(s)

Long-term \_\_\_\_\_ year(s) \_\_\_\_\_ month(s)

Study tour X 1 week(s)

Subject: Overview of Fisheries Technology Research at URI  
\_\_\_\_\_  
\_\_\_\_\_

Number of Trainees 6

Country of Origin

Professor Qing-Wen Meng  
Lecturer Bao-Yuan He  
Lecturer Yuan-Shan Li  
Lecturer Jian Cheng  
Engineer Yi-Fan Pan  
Lecturer Ying-Qi Zhou

China (Shanghai Fisheries  
College)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Description of Training

Exploration of different fisheries technology methods utilized  
by URI.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Materials Purchased

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## INTERNATIONAL STUDENTS

In the departments of Geography and Marine Affairs; Aquaculture and Fishery Technology; Natural Resources; Fisheries, Aquaculture, and Pathology; Oceanography; Geographic Oceanography; Economics and Marine Resources; Resource Economics; Food Science and Nutrition; and Food and Resource Chemistry, URI serves as host to eighty-four foreign students of whom forty-two are from countries receiving AID support.

ICMRD provides support services individually and as a group (through the International Fisheries Association) to developing country students in fisheries related degree programs. The following list of international students includes the eighty-four students mentioned above.

INTERNATIONAL STUDENTS

<u>Geography and Marine Affairs</u>	<u>Country</u>	<u>Level</u>
Havan Drumieh, Marina	Iran	B.S.*
<u>Aquaculture and Fishery Technology</u>		
Kacal, Anne-Marie	Trinidad/Tobago	B.S.*
Sulayman, Tjandra	Indonesia	B.S.*
<u>Natural Resources</u>		
Graeve, Svenja	West Germany	B.S.
<u>Marine Affairs</u>		
Aquarone, Marie	Australia	M.M.A.
Bourgeois, Raymond	Canada	M.M.A.
Chaupibul, Pannarai	Thailand	M.M.A.*
Dougba, Victor	Liberia	M.S.*
Federizon, Ricardo	The Philippines	M.M.A.*
Kohara, Motofumi	Japan	M.S.
Marajh, Patty	Trinidad	M.S.*
Mydin, Abdul-Jamal	Malaysia	M.M.A.*
Ozyildiz, Muzaffer	Turkey	M.M.A.*
Wei, Bi Chou	Taiwan	M.S.
<u>Fisheries, Aquaculture, and Pathology</u>		
Acosta, Alejandro	Venezuela	M.S.
Johanning, Karla	Costa Rica	M.S.*
Lanzuela, Jesus	The Philippines	M.S.*
Maharaj, Vishwanie	Trinidad	M.S.*
Turingan, Ralph	The Philippines	M.S.*
Uktolseja, Jacobus	Indonesia	M.S.*
Xu, Liuxiong	People's Republic of China	M.S.
<u>Oceanography</u>		
Banzon, Patria Viva	The Philippines	M.S.*
Bharadwaj, Anant	India	M.S.*
Button, Clarence	Canada	M.S.
Castro, M. Margarida	Portugal	M.S.*
Chen, Chong	People's Republic of China	M.S.
Chen, Xiu	People's Republic of China	M.S.
Erzini, Karim	Morocco	M.S.*
Hjorleifsson, Einar	Iceland	M.S.
Maranda, Lucie	Canada	M.S.
McManus, Liana	The Philippines	Ph.D.*
Ong, Tun Liang	Malaysia	M.S.*
Thompson, Ann	Uruguay	M.S.

Geographic Oceanography

Coulot, Marie-Celine	France	M.S.
Doh, Seong-Jae	South Korea	M.S.
Richardson, Mark	United Kingdom	M.S.
Santos, Jose	Ecuador	M.S.*
Sichel, Susanne	Brazil	M.S.*
Wei, Kuo-Yen	Taiwan	M.S.

Economics and Marine Resources Option

Brainerd, Theophilus	Sierra Leone	Ph.D.*
Diaby, Souleymane	Ivory Coast	Ph.D.*
Kusakabe, Yuko	Japan	Ph.D.
Okere, Vivian	Nigeria	Ph.D.*
Perrot-Maitre, Daniele	France	Ph.D.
Ty, Nida	The Philippines	Ph.D.*
Wey, Kwo Dong	Taiwan	Ph.D.

Resource Economics

Deme, Moustapha	Senegal	M.S.*
Mulok, Dullah	Malaysia	M.S.*
Tomobe, Hideki	Japan	M.S.

Food Science and Nutrition

Chang, Hsin-Yi	Taiwan	B.S.
Macklai, Nejma	Pakistan	B.S.*
Wang, Juei	Taiwan	B.S.

Food and Resource Chemistry

Akengo, Paul	Kenya	M.S.*
Al-Abdulaly, Abdulaly	Saudi Arabia	M.S.
Al-Awfy, Hamad	Saudi Arabia	M.S.
Al-Hazmi, Mohammed	Saudi Arabia	Ph.D.
Al-Jassir, Mohammed	Saudi Arabia	M.S.
Al-Khalifah, Abdulrahman	Saudi Arabia	M.S.
Al-Rawithi, Sameer	Saudi Arabia	M.S.
Alagialis, Athanassios	Greece	M.S.
Bonilla, Ana Ruth	Costa Rica	Ph.D.*
Chen, Jon-Shang	Taiwan	M.S.
Chung, Kang-Hyun	South Korea	M.S.
Elizondo, Luis	Costa Rica	M.S.*
Herrera, Carlos	Costa Rica	M.S.*
Huang, Li-Kuang	Taiwan	M.S.
Jayarajah, Charles	Sri Lanka	M.S.*
Judokusumo, Kusumestuti	Indonesia	M.S.*
Jun, Hyeyoung	Korea	M.S.
Kamata, Tadashi	Japan	M.S.
Kim, Chin-Hong	Korea	M.S.
Kim, Jin	South Korea	M.S.
Labbauf, Media	Iran	M.S.*

Food and Resource Chemistry (cont.)

Lin, Yi-Hua	People's Republic of China	M.S.
Liou, Shuh-Rehn	Taiwan	M.S.
Monckeberg, Andrea	Chile	M.S.*
Requintina, Pura	The Philippines	M.S.*
Ryder, John	Great Britain	M.S.
Santawanpas, Smartachai	Thailand	M.S.*
Tabatabaie, Maryam	Iran	M.S.*
Takajod, Ahmed	Iran	M.S.*
Talebi, Farindokht	Iran	M.S.*
Tsai, Cheng-Jen	Taiwan	M.S.
Yoon, Ki Sun	South Korea	M.S.

\*AID Developing Countries

## INFORMATION SERVICES

The ICMRD Information Services provides direct support to both the Fisheries Cooperative Agreement and the Coastal Resources Management Cooperative Agreement. Support services include the distribution of working papers, acquisition of new materials, responding to requests for information from around the world, and the cataloging of the existing materials in the collection. The Information Services additionally provides assistance to URI students as well as to professors and the surrounding community involved in fisheries and international development. Foreign visitors to the University find the Information Services to be a valuable resource; this year visitors from Ecuador's Escuela Superior Politecnica del Litoral and the Shanghai Fisheries College of the People's Republic of China spent considerable time touring the facility.

Recently the Information Services has undergone a shift in its management structure. The ICMRD Information Services Steering Committee now recommends policy for the Information Services, and the Dean of URI libraries, Arthur Young, provides supervision for directing the librarian in her daily activities.

Production of ICMRD publications remains strong; six new working papers, three newsletters, and one new publication list were received for distribution this year. ICMRD publications distributed this year totaled 3,992, exceeding the annual goal of 800 required under the Cooperative Agreement by 500 percent. In addition, there were 6,654 pages photocopied to answer outside requests. Added to the collection were 3,678 pages of photocopied documents, bringing the total number of documents in the collection to 14,000. By comparison, in 1975, there were 2,200 documents in the collection and only 900 distributed during the year. Under the Coastal Resources Management Cooperative Agreement, not only will the number of documents in the collection continue to expand, but the scope of subject material will broaden beyond fisheries into other areas pertaining to coastal resource management.

Priority, within the work plan, is being given to the development of a "bibliographic control mechanism" over the ICMRD collection by developing a computer data base. Although only a small portion of these materials has been recorded to date, a two-year action plan to complete this task has been approved by Dean Young.

In November 1984, a part-time staff member was added to the Information Services to help meet the increasing demands placed on the ICMRD Library and to produce a computer data base for the collection.

The Library has been experimenting with various microcomputers and software programs that would allow the service to complete the following objectives: 1) call up specific subject areas quickly, 2) print out results of searches; and 3) send bibliographic information on disk to individuals and institutions with compatible microcomputers, enabling them to start their own data base.

It was determined that an IBM microcomputer with hard disk is the preferred hardware, coupled with the FYI 3000 data base management program, produced by Software Marketing Associates. The advantage to such a combination is that the hardware system is in widespread use around the world, and the software meets the job criteria established.

Additionally, this year the ICMRD Librarian assisted in the preparation of the objectives of the four working committees for the Fisheries Cooperative Agreement and in obtaining materials on Sri Lanka and Ecuador for the Coastal Resources Management Cooperative Agreement.

During the upcoming year the Information Services will provide continued support to the four working committees of the Fisheries Cooperative Agreement, as well as the Coastal Resources Management management and technical teams. Assistance to other persons and groups, especially from developing nations; distribution of documents; acquisitions of new materials; and the development of the computer data base will continue to be integral functions of the Information Services.

## SUMMARY OF OUTPUTS/INPUTS

<u>ADMINISTRATIVE SERVICES</u>	<u>PM</u>	<u>US</u>	<u>LDC*</u>
Dr. Donald E. McCreight	7.0	5.5	1.5
Clerical Services	9.0	9.0	
Word Processing Services	6.0	6.0	
Fiscal Support	9.0	9.0	
	<u>31.0</u>	<u>29.5</u>	<u>1.5</u>

\*includes Ecuador, Costa Rica, Philippines, Indonesia, and Thailand

<u>INFORMATION SERVICES</u>	<u>PM</u>	<u>US</u>	<u>LDC</u>
Mary Jane Beardsley	12.0	12.0	
Patricia Watkins	4.5	4.5	
Word Processing	6.0	6.0	
Translation - Consultants	3.0	3.0	
	<u>25.5</u>	<u>25.5</u>	<u>0</u>

OUTPUTS:

- ICMRD Newsletter
- Development of Working Papers
- Cataloging of materials
- Development of data base program
- Distribution of publications
- Assistance to URI and other developing country staff

<u>TRAINING SERVICES</u>	<u>PM</u>	<u>US</u>	<u>LDC</u>
George Aelion	2.0	2.0	
Brian Crawford	5.0	5.0	
	<u>7.0</u>	<u>7.0</u>	<u>0</u>

OUTPUTS:

- Degree program assistance
- Non-degree program planning, implementation and evaluation
- Orientation of international visitors
- ICMRD and IFA seminars
- Assistance to IFA organization
- Training materials preparation
- In-country training programs and seminars
- MOU's implemented that relate to small-scale fisheries

<u>SOCIO-CULTURAL FACTORS</u>	<u>Specific LDC(s)</u>	<u>PM</u>	<u>US</u>	<u>LDC</u>
Richard Pollnac	Philippines, Ecuador	6.0	4.5	.5
John Poggie	Ecuador, Barbados	1.25	.25	1.0
Stephen Drew	Ecuador	5.0	4.25	.75
Alexa Albert	Sierra Leone	1.0	.25	.75
Marjorie Caldwell	Sierra Leone	1.0	.25	.75
		<u>14.25</u>	<u>9.5</u>	<u>4.75</u>

<u>USE OF MARICULTURE IN DEVELOPING COUNTRIES</u>	<u>Specific LDC(s)</u>	<u>PM</u>	<u>US</u>	<u>LDC</u>
Kenneth Simpson	Ecuador	1.0	.75	.25
Paul Maugle	Indonesia	.25		.25
		<u>1.25</u>	<u>.75</u>	<u>.5</u>
<u>FISHERY MANAGEMENT AND RESOURCE UTILIZATION</u>	<u>Specific LDC(s)</u>	<u>PM</u>	<u>US</u>	<u>LDC</u>
Harlan Lampe	Djibouti, Ecuador	1.75	1.0	.75
John McManus		6.0	6.0	
Theo Brainerd	Africa	2.0	2.0	
Jon Sutinen	Ecuador	1.25	1.75	.25
Vivian Okere	Africa	3.0		
Philip Logan (Consultant, training materials)		2.0	2.0	
		<u>16.75</u>	<u>15.75</u>	<u>1.0</u>
<u>POST-HARVEST FISHERY LOSSES</u>	<u>Specific LDC(s)</u>	<u>PM</u>	<u>US</u>	<u>LDC</u>
Alvin Siegel	Ecuador	9.0	8.5	.5
TOTALS:		104.75	96.5	8.25

Working Papers Completed:

A WORKING BIBLIOGRAPHY ON EAST AFRICAN FISHERIES  
by Melvin K. Hendrix, Theophilus Brainerd, and Thomas Omara-Alwala

ICMRD Working Paper #10:  
LESSONS FROM FISHERIES DEVELOPMENT IN WEST AFRICA  
PURSE SEINE/TRAWLER CONSTRUCTION, GHANA  
by T. R. Brainerd

ICMRD Working Paper #11:  
LESSONS FROM FISHERIES DEVELOPMENT IN WEST AFRICA  
OYSTER CULTURE PROJECT, SIERRA LEONE  
by T. R. Brainerd

ICMRD Working Paper #12:  
LESSONS FROM FISHERIES DEVELOPMENT IN WEST AFRICA  
ARTISANAL FISHERIES, GUINEA-BISSAU  
by T. R. Brainerd

ICMRD Working Paper #14:  
SURVEILLANCE AND ENFORCEMENT OPERATIONS IN THE COSTA RICAN  
TUNA FISHERY  
by Luis G. Lepiz and Jon G. Sutinen

Working Papers Completed: (continued)

ICMRD Working Paper #21:  
 TECHNICAL CHANGE AND SOCIAL RELATIONS IN A WEST AFRICAN  
 MARITIME FISHERY: A DEVELOPMENT HISTORY  
 by Melvin K. Hendrix

Training Papers Initiated:

Student Services and Training Operations Manual

The Use of Linear Programming in Bioeconomic Management of Fisheries

Microcomputer Applications in Tropical Fisheries

Fisheries Cooperatives

Training Program in Seafood Processing and Utilization:  
 Preservation and Processing of Fishery Products

Trip Reports:

REPORT OF U.R.I. CONSULTANCY ON POTENTIAL ROLE OF ESPOL IN  
 ARTISANAL FISHERY DEVELOPMENT IN ECUADOR  
 by S. Drew and R. Pollnac, Consultants

Technical Assistance to Barbados AID Mission  
 "Development of RFP for Marine Resources Assessment in the  
 Eastern Caribbean"  
 by Dr. John Poggie and Dr. David Stevenson

THE ROLE OF WOMEN IN FISHERIES IN SIERRA LEONE  
 by Alexa Albert, Mary Jane Beardsley, Marjorie Caldwell,  
 Josephine Milburn, Al Siegel, Stella Silverstein, and M. Salomon

TITLE XII PROJECT TO ASSIST IN THE DEVELOPMENT OF IN-COUNTRY  
 PRODUCTION OF BRINE SHRIMP (ARTEMIA) FOR USE AS FOOD FOR  
 AQUACULTURE ORGANISMS IN INDONESIA  
 by Dr. Paul D. Maugle

Report of URI, UPR, ESPOL Meeting  
 June 3-7, 1985  
 Cooperative Agreement DAN 4024 A-00-2072-00  
 "Fisheries Development Support Services"

A REVIEW OF THE FISHERIES TECHNOLOGY PROGRAM AT THE SCHOOL OF  
 FISHERIES - ESCUELA SUPERIOR POLITECNICA DEL LITTORAL  
 GUAYAQUIL, ECUADOR  
 by Prof. Joseph De Alteris

REPORT ON ICMRD TECHNICAL ASSISTANCE TO THE BUREAU OF FISHERIES  
 AND AQUATIC RESOURCES - THE PHILIPPINES  
 by Richard B. Pollnac

Trip Reports: (continued)

EVALUATION OF FISHERIES DEVELOPMENT PROJECT IN DJIBOUTI  
by Harlan Lampe and others  
(This work was completed for PPC Division of USAID - not  
available for distribution by ICMRD.)

COOPERATIVE AGREEMENT - FISHERIES DEVELOPMENT SUPPORT SERVICES  
 DAN - 4024 - A - 00 - 2072 - 00

ANNUAL FISCAL REPORT

FROM

01-Jul-84

TO

30-Jun-85

BUDGET CATEGORIES	FUNDS	ACTUAL	ACT. CUM.	PROJECTED	PROJECTED	PROJECTED
	AVAILABLE	EXPENDITURES	EXPENDITURES	EXPENDITURES	- ACTUAL	EXPENDITURES
	01-Jul-82 30-Jun-87	01-Jul-84 30-Jun-85	01-Jul-82 30-Jun-85	01-Jul-84 30-Jun-85	01-Jul-84 30-Jun-85	01-Jul-85 30-Jun-86
SALARIES AND WAGES (includes consultants)	\$511,638	\$189,922	\$413,073	\$191,609	\$1,687	\$203,200
FRINGE BENEFITS	103,147	37,475	77,095	43,177	\$5,702	41,000
OVERHEAD	64,712	26,336	46,249	25,045	(\$1,291)	26,000
TRAVEL/PER DIEM	119,915	14,420	30,015	33,994	\$19,574	22,000
EQUIPMENT/SUPPLIES	33,390	13,619	24,052	15,409	\$1,790	18,500
PUBLICATION/ INFORMATION	52,198	11,849	34,468	17,427	\$5,578	16,000
<b>Subtotal</b>	<b>\$885,000</b>	<b>\$293,621</b>	<b>\$624,952</b>	<b>\$326,661</b>	<b>\$33,040</b>	<b>\$326,700</b>