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**ICLARM**  
**Directory of Activities**  
**to December 1993**

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International Center for Living  
Aquatic Resources Management  
Manila, Philippines

# **ICLARM Directory of Activities to December 1993**

1994

Published by the International Center for Living  
Aquatic Resources Management, MC P.O. Box 2631,  
0718 Makati, Metro Manila, Philippines

Printed in Manila, Philippines

ICLARM. 1994. ICLARM directory of activities to  
December 1993. International Center for Living  
Aquatic Resources Management, Manila, Philippines.  
36 p.

ISBN 971-8709-45-2

ICLARM Contribution No. 1034

## **ICLARM'S GOAL AND OBJECTIVES**

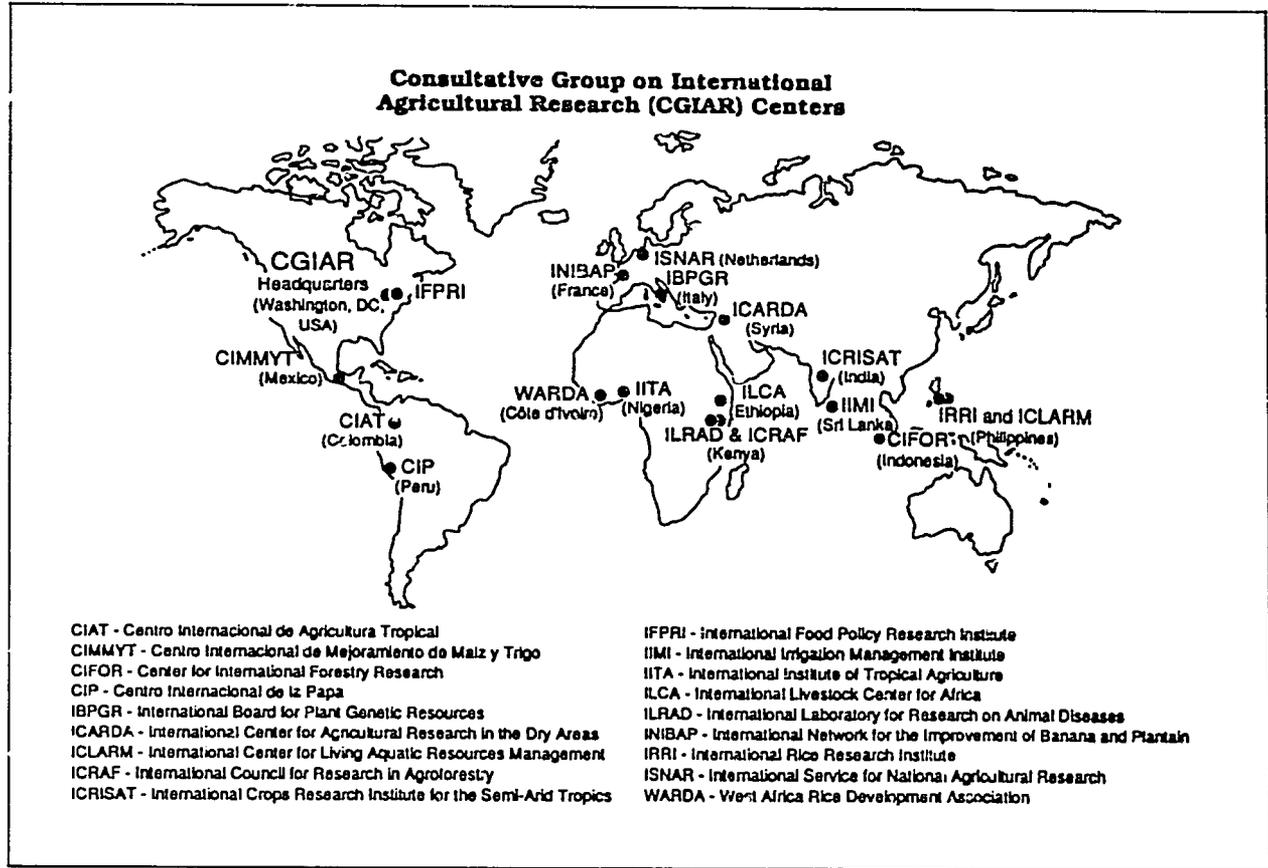
### **Goal**

Improved production and management of fisheries resources for sustainable benefits of present and future generations of low-income users in developing countries.

### **Objectives**

1. Improve the biological, socioeconomic and institutional management mechanisms for sustainable use of aquatic resource systems.
2. Devise and improve production systems that will provide increasing yet sustainable yields.
3. Strengthen national programs to ensure sustainable development of aquatic resources.

ICLARM is a member of the Consultative Group on International Agricultural Research (CGIAR), an informal association of 41 public and private sector donors that supports a network of 18 international agricultural research centers. The group was established in 1971.



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## INTRODUCTION

ICLARM is an international, nonprofit organization conducting interdisciplinary research on the management of living aquatic resources in tropical developing countries. Incorporated in the Philippines in 1977, ICLARM is autonomous and not affiliated with any government. In 1992, it became a member of the Consultative Group on International Agricultural Research (CGIAR).

ICLARM was organized to provide the technical information required to develop and properly utilize the aquatic resources of tropical developing countries to supply their food and economic needs. It is engaged in long-term essential research to help address these needs. Overall policy is set by a Board of Trustees consisting of eminent persons from the international community.

ICLARM's challenge is to increase the availability of fish protein in a sustainable manner through rational fisheries and coastal resources management, through resource development and through aquaculture.

**Laboratory without walls.** ICLARM is unique in many ways. It is a scientific research center, yet it has no research facility at headquarters. ICLARM has a small Coastal Aquaculture Centre in the Solomon Islands. However, it conducts most research in cooperation with institutions in developing countries

usually in the facilities of these institutions. This way, ICLARM contributes directly to the research capabilities of cooperating institutions while it trains scientists in developing countries. Many cooperative research activities are carried out through regional or international networks.

**Programs.** In 1992, ICLARM published a Strategic Plan for the Center's research. A Medium-Term Plan (MTP) for the years 1994-1998 based on the Strategic Plan, was subsequently prepared. The MTP divides the Center's research into two core programs: Coastal and Coral Reef Resource Systems and Inland Aquatic Resource Systems. The former program has three major thrusts - Dynamics of Resource Systems; Management of Resource Systems in a Social Context; and Improving Coral Reef Productivity. The Inland program has two thrusts - Fish Productivity and Integrated Resources Management.

The Center puts particularly strong emphasis on publication and wide dissemination of the results of its cooperative research projects; and of up-to-date information for researchers, especially those in networks conducted by the Center, through Naga, the ICLARM Quarterly.

Through the 16 years since its incorporation in the Philippines, ICLARM has conducted research with support from many quarters. A list of donors is given on p. viii-ix.

## USING THE DIRECTORY

The activities listed fall into five categories: Cooperative Research; Education and Training; Information; Advisory Services; Conferences and Workshops.

ICLARM's research activities, although usually multidisciplinary, are divided into four for the purposes of the directory: Aquaculture; Capture Fisheries Management; Coastal Area Management; Information.

The various activities are listed under the above headings by region and country. Where an activity covers

more than one country or region, it is listed in the broader area and sometimes is not repeated for each country. To find all activities relating to a particular country, please look also under the "Global" and appropriate "Regional" listings.

The central column of this Directory includes acronyms of the many organizations with which ICLARM has been associated in carrying out these activities. The full names of these organizations are provided on p. x-xvii.

## OTHER SOURCES OF INFORMATION ON ICLARM ACTIVITIES

Details of most of the various activities listed here are contained in the annual ICLARM Reports; the first of these covered the period 1977-1980; since then they have been published annually.

The ICLARM Contribution Series, obtainable on request, lists all the publications by ICLARM staff, as well as commissioned monographs and conference proceedings. As of December 1993, the number of Contributions was 1,020. These publications include ICLARM's seven technical series (Studies and Reviews, Conference Proceedings, Technical

Reports, Bibliographies, Translations, Education and Software), Naga, the ICLARM Quarterly, and articles in the international literature.

For copies of recent ICLARM Reports, Contribution Series, Publication Catalogue or additional information on any activity listed in this Directory, please contact:

The Director  
Information Division  
ICLARM  
MC P.O. Box 2631  
0718 Makati, Metro Manila  
Philippines

## **SOURCES OF FINANCIAL SUPPORT**

ICLARM relies upon external donors for financial support for its research programs and other activities. By December 1993, the organizations, governments and private companies that have provided unrestricted and restricted support are as follows:

### **Unrestricted**

Australian International Development Assistance Bureau (AIDAB)  
Australian Centre for International Agricultural Research (ACIAR)  
Bundesministerium für Wirtschaftliche Zusammenarbeit (BMZ), Federal  
Republic of Germany  
Canadian International Development Agency (CIDA)  
Commission of the European Communities (CEC)  
Danish International Development Agency (DANIDA), Denmark  
Ford Foundation  
Government of France  
Government of Netherlands  
Government of Norway  
International Bank for Reconstruction and Development (IBRD)  
Philippine Government  
Rockefeller Foundation (RF), USA  
United States Agency for International Development (USAID)

### **Restricted**

Agence de Coopération Culturelle et Technique (ACCT), France  
ASEAN-Canada Centre, Singapore  
Asian Development Bank (ADB), Philippines  
Asian Fisheries Society  
Australia and Pacific Science Foundation (APSF)  
Australian International Development Assistance Bureau (AIDAB)  
British High Commission, Solomon Islands  
Commission of European Communities (CEC)  
Commonwealth Fund for Technical Cooperation (CFTC)  
Danish International Development Agency (DANIDA)  
Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ), GmbH,  
Federal Republic of Germany  
Food and Agriculture Organization (FAO) of the United Nations  
Ford Foundation, Bangladesh, New York

Forum Fisheries Agency (FFA)  
French Government  
Greenpeace Foundation  
International Bank for Reconstruction and Development (IBRD), USA  
International Center for Ocean Development (ICOD)  
International Development Research Centre (IDRC) of Canada  
International Fund for Agricultural Development (IFAD)  
Kuwait Institute for Scientific Research (KISR)  
Marine Resources Assessment Group (MRAG, Ltd.)  
New Jersey Marine Science Consortium (NJMSC), USA  
New Zealand Government  
National Oceanic Atmospheric Administration (NOAA), USA  
Overseas Development Administration (ODA), United Kingdom  
Philippine Council for Agriculture and Resources Research and  
Development (PCARRD), Philippines  
Philippine Government  
Planters Products, Inc. (PPI), Philippines  
Programa Cooperativo Peruano-Aléman (PROCOPA)  
Rockefeller Foundation (RF), USA  
Royal Norwegian Ministry of Development Cooperation (NORAD)  
Swedish Agency for Research Cooperation with Developing Countries  
(SAREC)  
San Miguel Corporation (SMC), Philippines  
South Pacific Regional Environmental Programme (SPREP)  
L.J. and Mary C. Skaggs Foundation, USA  
United Nations Development Programme (UNDP)  
United Nations Environment Programme (UNEP)  
United Nations University (UNU)  
United States Agency for International Development (USAID)  
United States Peace Corps. (USPC)  
Volunteer Service Overseas (VSO)  
World Bank

**GLOSSARY: AGENCIES MENTIONED IN THE TABLE  
WITH WHICH ICLARM HAS HAD  
LINKAGES, IN COOPERATIVE ACTIVITIES OR AS DONORS**

AARD	-	Agency for Agricultural Research and Development, Indonesia
ACCT	-	Agence de Coopération Culturelle et Technique, France
ACIAR	-	Australian Centre for International Agricultural Research
ADB	-	Asian Development Bank
ADC	-	Agricultural Development Council, New York
ADL	-	Aquaculture Development Ltd., Israel
ADMU	-	Ateneo de Manila University, Philippines
AFS	-	Asian Fisheries Society
AFSA	-	Asian Farming Systems Association
AFSSRN	-	Asian Fisheries Social Science Research Network
AIDAB	-	Australian International Development Assistance Bureau
AIOT	-	Aparri Institute of Technology, Philippines
AIT	-	Asian Institute of Technology, Thailand
AKVAFORSK	-	Institute of Aquaculture Research of Norway
ALCCM	-	Aquaculture for Local Community Development Programme
AMA	-	AMA Computer College, Manila, Philippines
APSF	-	Australia and Pacific Science Foundation
ARO	-	Agricultural Research Organization, Israel
ARFSN	-	Asian Rice Farming Systems Network
ASEAN/COST	-	Association of Southeast Asian Nations/ Committee on Science and Technology
AUPELF	-	Association des Universités Partiellement ou Entièrement de Langue Française
AWI	-	Alfred Wegener Institut für Polar-und Meeresforschung Bremerhaven, Germany
BAEcon	-	Bureau of Agricultural Economics, Philippines
BARC	-	Bangladesh Agricultural Research Council
BAU	-	Bogor Agricultural University, Indonesia
BCAS	-	Bangladesh Center for Advanced Studies
BDDA	-	Brunei Darussalam Department of Agriculture
BDDPW	-	Brunei Darussalam Department of Public Works
BDDTCP	-	Brunei Darussalam Department of Town and Country Planning
BDOF	-	Bangladesh Department of Fisheries
BFAR	-	Bureau of Fisheries and Aquatic Resources, Philippines

BFDP	-	Burma Fisheries Development Project (FAO/UNDP)
BFRI	-	Bangladesh Fisheries Research Institute
BIO-AQUA	-	Aquatic Biotic Resources Program of INIREB, Mexico
BM	-	Brunei Museum
BMFL	-	Bangladesh Ministry of Fisheries and Livestock
BMZ	-	Bundesministerium für Wirtschaftliche Zusammenarbeit
BOBP	-	Bay of Bengal Programme, Madras, India (FAO/UNDP)
BOSTID	-	Board on Science and Technology for International Development
BPPL	-	Research Institute for Marine Fisheries, Indonesia
BU	-	Bremen University, Germany
BUCF	-	Bicol University, College of Fisheries, Philippines
CAER	-	Center for Agro-Economic Research, Bogor, Indonesia
CAPD	-	Council for Agricultural Planning and Development, Taiwan
CANASC	-	Canada-ASEAN Centre, Singapore
CARICOM	-	Caribbean Community
CAS	-	California Academy of Sciences, San Francisco
CEC	-	Commission of the European Communities
CEPIS	-	Panamerican Center for Sanitary Engineering and Environmental Science
CFMC	-	Caribbean Fisheries Management Council, USA
CIADP	-	Cagayan Integrated Agricultural Development Project, Philippines
CIFA	-	Central Institute of Freshwater Aquaculture, India
CIFD	-	Cook Islands Fisheries Department
CLSU	-	Central Luzon State University, Philippines
CMFRI	-	Central Marine Fisheries Research Institute, Cochin, India
CMG	-	Copenhagen Modelling Group, Denmark
CNRFFP	-	Central and Northern Regions Fish Farming Project, Malawi
CORD	-	Centre for Oceanological Research and Development, Indonesia
CORPONARIÑO	-	Corporacion Regional para el Desarrollo de Nariño
CRC	-	Center for Research and Communication, Philippines
CRIFC	-	Central Research Institute for Food Crops, Indonesia
CRIFI	-	Central Research Institute for Fisheries, Indonesia
CRO	-	Centre de Recherches Oceanographiques, Abidjan, Côte d'Ivoire
CRSP	-	Collaborative Research Support Program, USA
CS	-	Commonwealth Secretariat, UK
CSIRO	-	Commonwealth Scientific and Industrial Research Organisation, Australia

CTA	-	Centre Technique de Coopération Agricole et Rurale
CTFT-CIRAD	-	Centre Technique Forestier Tropical
CTUV	-	Can Tho University Vietnam
CU	-	Chulalongkom University, Thailand
DADIM	-	Department of Agriculture, Drainage and Irrigation, Malaysia
DANIDA	-	Danish International Development Agency
DFMTW	-	Department of Fisheries, Ministry of Tourism and Wildlife, Kenya
DGF	-	Directorate General of Fisheries, Indonesia
DGM	-	Department of Geology, Malaysia
DLDT	-	Department of Land Development, Thailand
DLSU	-	De La Salle University, Manila, Philippines
DMSCU	-	Department of Marine Science, Chulalongkom University, Bangkok, Thailand
DOFBD	-	Department of Fisheries, Brunei Darussalam
DOFM	-	Department of Fisheries, Malaysia
DOFMR	-	Department of Fisheries and Marine Resources, Papua New Guinea
DOFT	-	Department of Fisheries, Thailand
DOFZ	-	Department of Fisheries, Zambia
DOST	-	Department of Science and Technology, Philippines
DPI	-	Department of Primary Industries, Queensland, Australia
DPP	-	Division Proteccion Pesquera, Ministeria de Agricultura, Chile
DSMM	-	Department of Soils and Mapping, Malaysia
DTCPM	-	Department of Town and Country Planning, Malaysia
EASRT	-	Egyptian Academy of Scientific Research and Technology
ECLAC	-	United Nations Economic Commission for Latin America and the Caribbean
EDI	-	Economic Development Institute, Philippines
EPOMEX	-	Programa Ecología, Pesquerías y Oceanografía del Golfo de México
EPU	-	Economic Planning Unit, Johore, Malaysia
ENSAT	-	Ecole Nationale Supérieure Agronomique de Toulouse, France
ESPOL	-	Escuela Politecnica Nacional del Ecuador
ETI	-	Expert Center for Taxonomic Identification, Amsterdam
FAC	-	Freshwater Aquaculture Center of CLSU, Philippines
FAO	-	Food and Agriculture Organization of the United Nations
FDRK	-	Fisheries Division, Republic of Kiribati
FEU	-	Far Eastern University, Manila, Philippines

FF	-	Ford Foundation
FFA	-	Forum Fisheries Agency
FIDC	-	Fishery Industry Development Council, Philippines
FMCD	-	French Ministry for Cooperation and Development
FRIM	-	Forest Research Institute, Malaysia
FSDC	-	Farm Systems Development Corporation, Philippines
GFSM	-	Government of the Federated States of Micronesia
GhRRM	-	Ghana Rural Reconstruction Movement
GOBD	-	Government of Brunei Darussalam
GOC	-	Government of Colombia
GOF	-	Government of France
GOT	-	Government of Tonga
GPG	-	Guadalcanal Provincial Government, Solomon Islands
GSJ	-	Government of the Solomon Islands
GTZ	-	Deutsche Gesellschaft für Technische Zusammenarbeit, GmbH
HIMB	-	Hawaii Institute of Marine Biology
HU	-	University of Hamburg
IAB	-	Institute of Aquatic Biology, Achimota, Ghana
IAC	-	International Agricultural Centre, the Netherlands
IA'DS	-	International Agricultural Development Services, Bogor, Indonesia
ICES	-	International Council for the Exploration of the Sea
ICOD	-	International Centre for Ocean Development, Canada
IDRC	-	International Development Research Centre, Canada
IFAD	-	International Fund for Agricultural Development
IFDR	-	Institute of Fisheries Development and Research, Philippines
IfM	-	Institut für Meereskunde, Kiel University
IIRR	-	International Institute for Rural Reconstruction, Philippines
IIS	-	Indonesian Institute of Sciences
IMARPE	-	Instituto del Mar del Peru
IMBO	-	Institute of Marine Biology and Oceanography, University of Sierra Leone
INFIS	-	Indonesian Fisheries Information System (Directorate General of Fisheries)
INIREB	-	Instituto Nacional de Investigaciones sobre Recursos Bioticos, Mexico
IO	-	Institute of Oceanology, Academia Sinica, China
IOC	-	Intergovernmental Oceanographic Commission
IOLR	-	Israel Oceanographic and Limnological Research Ltd.
INP	-	Instituto Nacional de Pesca, Mexico

IRNR	-	Institute of Renewable Natural Resources, University of Science and Technology, Ghana
IRRI	-	International Rice Research Institute, Los Baños, Philippines
ISEAS	-	Institute of Southeast Asian Studies, Singapore
IUCN	-	International Union for the Conservation of Nature
JCUNQ	-	James Cook University of North Queensland, Australia
JICA	-	Japan International Cooperation Agency
KEPAS	-	Research Group on Agro-Ecosystems of AARD
KISR	-	Kuwait Institute for Scientific Research
KU	-	Kasetsart University, Bangkok, Thailand
MAFD	-	Ministry of Agriculture and Fisheries Development, Sabah
MAFF	-	Ministry of Agriculture and Fisheries, Fiji
MAGFAD	-	Malawi/German Fisheries and Aquaculture Development Project
MDBD	-	Marine Department, Brunei Darussalam
MDFSRDC	-	Mekong Delta Farming Systems Research and Development Center, Vietnam
MDOF	-	Malaŵi Department of Fisheries
MDREA	-	Malaŵi Department of Research and Environmental Affairs
MES	-	Ministry of the Environment, Singapore
MFM	-	Ministry of Fisheries, Maldives
MLENR	-	Ministry of Lands, Energy and Natural Resources, Solomon Islands
MMOA	-	Malaŵi Ministry of Agriculture
MMSU	-	Mariano Marcos State University, Philippines
MNHN	-	Musée National d'Histoire Naturelle, Paris, France
MODM	-	Ministry of Defence, Malaysia
MRAG	-	Marine Resources Assessment Group, Imperial College, London
MSTE	-	Ministry of Science, Technology and the Environment, Malaysia
MSU	-	Mindanao State University, Philippines
MU	-	Mahidol University, Thailand
NACA	-	Network of Aquaculture Centres in Asia (FAO/UNDP)
NARA	-	National Aquatic Resources Agency, Sri Lanka
NAS	-	US National Academy of Sciences
NCHU	-	National Chung Hsing University, Taichung, Taiwan
NEDA	-	National Economic and Development Authority, Philippines
NIDA	-	National Institute of Development Administration, Thailand

NIFI	-	National Inland Fisheries Institute, Bangkok, Thailand
NJMCS	-	New Jersey Marine Science Consortium
NMFS	-	National Marine Fisheries Service, USA
NOAA	-	National Oceanic and Atmospheric Administration, USA
NORAGRIC	-	Norwegian Center for International Agricultural Development
NSC	-	North Sea Centre, Denmark
NSYSU	-	National Sun Yat Sen University, Kaohsiung, Taiwan
NUS	-	National University of Singapore
NZG	-	New Zealand Government
OBOR	-	Obor Foundation, USA/Indonesia
ODA	-	Overseas Development Administration, UK
OECS	-	Organization of Eastern Caribbean States, St. Johns, Antigua
OI	-	Oceanic Institute, Hawaii
ONEB	-	Office of the National Environment Board, Thailand
ORSTOM	-	Institut Francais de Recherche Scientifique pour le Développement en Cooperation, France
OSMDLE	-	Office of State Ministry of Demography and Life Environment, Indonesia
PCAMRD	-	Philippine Council for Aquatic and Marine Resources Development
PCARRD	-	Philippine Council for Agriculture and Resources Research and Development
PDA	-	Philippine Department of Agriculture
PIMRIS	-	Pacific Islands Marine Resources Information System
PLN	-	Indonesian Power and Light Company
PMDM	-	Prime Minister's Department, Malaysia
PPI	-	Planters Products, Inc., Philippines
PPTAP	-	Pusat Penyelidikan Ternak Air Payan, Malaysia
PRAG	-	Programme for Rural Action, Ghana
PRFD	-	Puerto Rico Fisheries Department
PSBA	-	Philippine School of Business Administration, Manila, Philippines
PSU	-	Prince of Songkla University, Thailand
RF	-	Rockefeller Foundation
RFDT	-	Royal Forestry Department, Thailand
RFF	-	Resources for the Future, Inc., USA
RIMF	-	Research Institute for Marine Fisheries, Indonesia
SAREC	-	Swedish Agency for Research Cooperation with Developing Countries
SCOS	-	Science Council of Singapore
SCSIO	-	South China Sea Institute of Oceanology, Academia Sinica, China

SCSP	-	South China Sea Fisheries Development and Coordinating Programme
SEAFDEC	-	Southeast Asian Fisheries Development Center
SEARCA	-	Southeast Asian Regional Center for Graduate Study and Research in Agriculture, Philippines
SERES	-	Socio-economic Research and Systems Consultants, Malaysia
SF	-	L.J. and Mary C. Skaggs Foundation, USA
SGJ	-	State Government of Johore, Malaysia
SLFD	-	Sierra Leone Fisheries Department
SIDA	-	Swedish International Development Authority
SIDT	-	Solomon Islands Development Trust
SIFR	-	Strategy on International Fisheries Research Needs in Developing Countries (World Bank)
SMC	-	San Miguel Corporation, Philippines
SPC	-	South Pacific Commission, New Caledonia
SPPD	-	Singapore Primary Production Department
SPREP	-	South Pacific Regional Environmental Programme
STI	-	Systems Technology Institute, Manila, Philippines
SU	-	Silliman University, Dumaguete, Philippines
TIIT	-	Technion, Israel Institute of Technology
TLRC	-	Technology and Livelihood Resources Center, Philippines
UAC	-	Universidad Austral, Chile
UADC	-	Universidad Autónoma de Campeche, Mexico
UB-CDS	-	Centre for Development Studies, University of Bergen
UFFRO	-	Uganda Freshwater Fisheries Research Organization
UG	-	University of Ghent, Belgium
UH	-	University of Hawaii
UI	-	University of Indonesia
UKM	-	Universiti Kebangsaan Malaysia
UKP	-	University of Karachi, Pakistan
UM	-	University of Malawi
UMM	-	Universiti Malaya, Malaysia
UNA	-	Universidad Nacional Agraria, Lima, Peru
UNAM	-	Universidad Nacional Autónoma de México
UNC	-	University of Nueva Caceres, Bicol, Philippines
UNDIP	-	Diponegoro University, Semarang, Indonesia
UNDP	-	United Nations Development Programme
UNEP	-	United Nations Environment Programme
UNESCO/IOC	-	United Nations Educational, Scientific and Cultural Organization/Intergovernmental Oceanographic Commission

UNPAD	-	Institute of Ecology, Padjadjaran University, Indonesia
UNU	-	United Nations University, Tokyo, Japan
UP	-	University of the Philippines, Manila
UPCSWCD	-	UP College of Social Work and Community Development
UPLB	-	University of the Philippines at Los Baños
UPM	-	Universiti Pertanian Malaysia
UPMSI	-	University of the Philippines Marine Science Institute
UPNG	-	University of Papua New Guinea
UPVCF	-	University of the Philippines in the Visayas, College of Fisheries
URI-CRMP	-	University of Rhode Island (USA) - Coastal Resources Management Project
USAID	-	United States Agency for International Development
USM	-	Universiti Sains Malaysia
USP	-	University of the South Pacific, Fiji
USPC	-	United States Peace Corps
UST	-	University of Santo Tomas, Manila, Philippines
UTM	-	Universiti Teknologi Malaysia
UWI	-	University of the West Indies, Jamaica
VSO	-	Voluntary Service Overseas, UK
WB	-	World Bank
WCMC	-	World Conservation Monitoring Center, UK
WECAF	-	Western Central Atlantic Fishery Commission
WESTPAC	-	Western Pacific Group of IOC
WNW-AFCOD	-	West Northwest Artisanal Fisheries and Community Development Programme
WWF	-	World Wildlife Fund
ZDF	-	Zambia Department of Fisheries
ZIM	-	Zoologisches Institut and Museum, University of Hamburg Germany
ZMT	-	Center for Tropical Marine Ecology, Germany

## GLOBAL

Area of Activity	Title	Cooperating Institution(s)	Duration
1. COOPERATIVE RESEARCH			
<b>Capture Fisheries Management</b>	a) Tropical Fish Stock Assessment Research Project	Predominantly in-house study with informal linkages with (colleagues in) various research institutions	Continuous from 1979
	b) Management-Oriented Fisheries Research Project	BPPL, DOFZ, IMARPE, GTZ, SF, UNAM, UFFRO	Continuous from 1982
	c) Management Options for Tropical Small-Scale Fisheries	BMFL, BCAS, FF, WB, GTZ, FAO, plus informal links with BFAR, CORPONARIÑO, ESPOL, IMARPE	Four years from 1986
	d) The ICLARM Software Project	FAO plus individual user scientists	Continuous from 1986
	e) Interactive Database on Fisheries Resources (FishBase)	AUPELF, IFM, FAO, CEC, CAS, ETI, IAB, ZIM, MNHN, MRAG	Continuous from 1988
	f) Multispecies Modeling	Informal linkages with UNAM, IMARPE, CMG	Continuous from 1988
	g) Global Comparisons of Aquatic Ecosystems (ECOPATH)	DANIDA, ENSAT, ICES, ZMT	Feb 1990-Feb 1994
	h) Climate and Eastern Ocean Systems (CEOS)	DANIDA, NOAA, ORSTOM, FAO, AWI, CMG, UNA	Sep 92-Sep 94
	i) Coastal Fisheries Comanagement Project Planning Phase	NSC	Oct 1993-Mar 1994
	j) ReefBase - a global database of coral reef systems and their resources	WCMC, CEC	Oct 1993-Sep 1995
<b>Aquaculture</b>	a) International Giant Clam Mariculture Project	JCUNQ, ACIAR, AIDAB, NZG, DPI, UPNG, DLSU, SU, UP, MAFF, MLENR, NARA, IUCN/WWF	Continuous from 1983
	b) Development of a Research Framework for Integrated Aquaculture-Agriculture Farming Systems	UNDP	Jul 1986-Jun 1987
	c) Optimal Management of Aquaculture Pond Systems in Developing Countries	ARO, IFM, TIIT	1986-1989
	d) Utilization of Tilapia Genetic Resources for Expansion of Aquaculture	ARO, HU, IAB	1986-1989
	e) Genetic Improvement of Farmed Tilapias	ADB, GTZ, UNDP, BFAR, FAC, UPMSI, AKVAFORSK, NORAD, NORAGRIC	Continuous from 1988
	f) RESTORE (formerly FARMBASE) software for monitoring the impact of integrated farming	IIRR, DANIDA	Continuous from Jun 91

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>2. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	a) Stock Assessment Internships (60 individuals trained by end of 1993)	Individuals participating in the Network of Tropical Fisheries Scientists and various donor agencies	Continuous from 1980
	b) ICLARM staff teach in various stock assessment training courses	FAO, DANIDA, NORAD	Continuous since 1980
	c) Network of Tropical Fisheries Scientists and Fishbyte Newsletter	FAO, DANIDA, NORAD, UNESCO plus individual member scientists in institutions throughout the world	Continuous from 1982
	d) Lectures on tropical stock assessment at the FAO/DANIDA Training Courses, Denmark, for the benefit of participants from West Africa and the West Indies	FAO/DANIDA	5-24 May 1986
	e) Two-week ECOPATH course for developing-country students at ZMT, Bremen	ZMT	Mar 1993
<b>Aquaculture</b>	Network of Tropical Aquaculture Scientists and Aquabyte newsletter		Continuous from Jul 1987
<b>3. INFORMATION</b>			
<b>Information</b>	a) Selective Information Service for tropical fisheries researchers	IDRC	1984-1987, 1988-1991
	b) Update Fisheries and Education feature in ICLARM Newsletter	FAO	1986
	c) Infoterra special sectoral source, aquatic resources information	UNEP	Continuous from 1987
	d) Directory of Fisheries and Aquaculture Training Opportunities	FAO	Continuous from 1988
	e) Study of International Agricultural Research Centers' publications productivity		1992
<b>4. CONFERENCES AND WORKSHOPS</b>			
<b>Aquaculture</b>	a) Physiological and Behavioral Manipulation of Food Fish as Production Management Tools	RF, HIMB	2-8 Nov 1977
	b) Integrated Agriculture-Aquaculture Farming Systems	SEARCA, RF	6-9 Aug 1979
	c) The Biology and Culture of Tilapias	RF	2-5 Sep 1980
	d) Detrital Systems for Aquaculture	RF, GTZ	26-31 Aug 1985
	e) Towards a Research Framework for Tropical Integrated Farming Systems	UNDP	15-17 Oct 1986

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	f) Second International Symposium on Tilapia in Aquaculture	DOFT	16-20 Mar 1987
	g) Workshop on Tilapia Genetic Resources for Aquaculture	ARO, BMZ	23-24 Mar 1987
	h) International Conference: Environment and Aquaculture in Developing Countries, Bellagio, Italy	GTZ, RF	17-22 Sep 1990
	i) BOSTID-ICLARM International Workshop for Aquaculture Scientists of USAID Program for Science and Technology	BOSTID	4 days, Aug 1991
	j) Third International Symposium on Tilapia in Aquaculture, Abidjan, Côte d'Ivoire	ACCT, CRO, FMCD, CTFT-CIRAD	11-16 Nov 1991
<b>Capture Fisheries Management</b>	a) Theory and Management of Tropical Multispecies Stocks	CSIRO	12-21 Jan 1981
	b) The Theory and Application of Length-Based Stock Assessment Methods	KISR, FAO	10-15 Feb 1985
<b>Coastal Area Management</b>	Management and Training Workshop on <i>Pyrodinium</i> Red Tides	USAID, AIDAB, GOBD, IDRC	23-30 May 1989
<b>5. ADVISORY SERVICES</b>			
<b>Capture Fisheries Management</b>	a) Advice on oceanographic research topics useful for fisheries scientists in developing countries, as a member of the "Group of 4", at FAO Headquarters, Rome	UNESCO/IOC	1980
	b) Consultations on development of materials for the FAO/DANIDA training courses in fish stock assessment	FAO/DANIDA	1982
	c) Advice to IOC on shrimp recruitment research in Western Pacific	IOC	4-5 Jun 1987
	d) Planning of FAO/DANIDA training courses	FAO, DANIDA	Feb 1989
	e) Review for ACIAR of research on baitfish biology in the Solomon and Maldivian Islands	ACIAR	1990
	f) Consultancy at FAO on exotic predators in pelagic ecosystems	FAO	4-7 Oct 1992
<b>Coastal Area Management</b>	a) Participant at consultation on Coastal Area Management, Greece	UNEP	13-18 May 1991
<b>Aquaculture</b>	a) Three members of SIFR Working Party on Research Priorities for Aquaculture Development, Paris	FAO	Sep 1989

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	b) Member of external evaluation panel of USAID -funded CRSP research	USAID	1992, 1993
<b>REGIONAL - AFRICA</b>			
<b>1. COOPERATIVE RESEARCH</b>			
<b>Aquaculture</b>	a) Research for the development of tropical aquaculture appropriate for implementation in rural Africa	GTZ, MDOF, UM, MDREA, UH, MAGFAD, CNRFFP, SAREC, AI.COM	May 1986-Oct 1994
	b) Transfer of Asian Aquaculture Technologies to Africa	GOF	1988-ongoing
<b>2. EDUCATION AND TRAINING</b>			
<b>Aquaculture</b>	b) Study Tour of Aquaculture Research Institutions in the Philippines and Thailand for African Researchers	GTZ	25 Mar-2 Apr 1987
	a) Course on Use of Standard Software in Research, Malaŵi	MDOF, GTZ	28 Sep-2 Oct 1987
<b>3. CONFERENCES AND WORKSHOPS</b>			
<b>Aquaculture</b>	An Awareness Program of South-east Asian Aquaculture Technology, Malaŵi	MDOF	21-25 Sep 1987
<b>4. INFORMATION</b>			
	a) ICLARM Project Library at Malaŵi National Aquaculture Centre provides materials and literature searches to researchers all over Africa.	GTZ, MDOF	Continuous from 1989
<b>5. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	a) Reviewer, one of two, of FAO/SIDA farming systems program in eastern and southern Africa	FAO, SIDA	5 weeks, Oct-Nov 1992
<b>Capture Fisheries Management</b>	a) Two lecturers at FAO/DANIDA stock assessment course, Tanzania	FAO, DANIDA	5-22 Feb 1989
	b) Team Leader of mission to Kenya, Malaŵi, Mozambique and Zimbabwe for SIFR	FAO, WB	7-26 Jan 1990

Area of Activity	Title	Cooperating Institution(s)	Duration
<b>REGIONAL - ASIA</b>			
<b>1. COOPERATIVE RESEARCH</b>			
<b>Aquaculture</b>	a) Rice-Fish Farming Systems Research	ADB, CLSU, IRRI	1987-1990
	b) Integrated Rice-Fish Research	IDRC, ODA, IRRI, ARFSN, FAC	Feb 1990-Dec 1993
	c) Spat collection and hatchery production of pearl oysters in the central western Pacific	ACIAR	Jul 1993-Jun 1995
	d) Cultivation and fisheries enhancement of tropical sea cucumbers	APSF	Sep 1993-Aug 1995
<b>Capture Fisheries Management</b>	a) Small-Scale Fisheries Management Options	FF, BOBP	1986-1988
	b) Asian Fisheries Social Science Research Network	UMM, UPM, UPV/CF, UPLB, KU, DOFT, UNDIP, SEAFDEC, FF, IDRC, CAER, CRIFI, KEPAS, BFAR, RIMF, PSU	Continuous from 1983
<b>2. EDUCATION AND TRAINING</b>			
<b>Aquaculture</b>	a) ICLARM staff teach in the annual NACA course for senior aquaculturists from Asia and the Pacific	NACA	1983-1988
	b) Several staff lecture in Farming Systems Research and Extension Training course at IRRI	IRRI, IIRR	4 months, 1989
	c) Training Workshops on Quantitative Genetics of Farmed Tilapias	ADB, UNDP, CLSU	1) 26 Oct-3 Nov 1989 2) 22-27 Aug 1990 3) Apr 1991 4) 19-24 Aug 1991
	d) Rice-Fish Farming Systems Research Course	IRRI, FAC	29 Nov-17 Dec 1993
<b>Capture Fisheries Management</b>	a) Lectures at regional training course on fishery stock assessment and fishery statistics, Thailand	ADB, FAO, SIDA	1-9 Oct 1981
	b) Teaching the use of the ELEFAN stock assessment programs to participants from six countries of the Bay of Bengal region, Colombo, Sri Lanka	BOBP	1984
	c) Lectures in FAO/DANIDA regional training course on tropical stock assessment, Philippines	FAO, DANIDA	12 Jan-6 Feb 1987

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	d) Series of seminars in AFSSRN member institutions on Social Anthropology by lecturer from Université Laval, Québec	IDRC	1990
	e) Course provided at AIT on ecological modeling	AIT	3 weeks, Feb 1992
	f) Visiting Professor at AIT, teaching Ecological Engineering and Modeling	AIT	2 weeks, Feb 1993
<b>3. INFORMATION</b>			
<b>Information</b>	a) Assistance with Formation of the Fisheries Society and the Asian Fisheries Forum	Individuals in numerous universities and fisheries organizations within Asia; ICLARM provides Secretariat for the Society	1983-1984
	b) Editing and Publishing for the Asian Fisheries Society the journal "Asian Fisheries Science"	IDRC, AFS	1987-1993
<b>Aquaculture</b>	Editing the Journal of the Asian Farming Systems Association	AFSA	Continuous from 1991
<b>4. CONFERENCES AND WORKSHOPS</b>			
<b>Capture Fisheries Management</b>	a) Workshop on Appropriate Technology Alternative Energy Sources in Fisheries	ADB	16-21 Feb 1981
	b) Seminar/Workshop on Principles of Economic Valuation, Bali, for 25 AFSSRN members	IDRC	20-24 Apr 1992
	c) AFSSRN Symposium on Socioeconomics in Fisheries, Singapore	IDRC	27 Oct 1992
	d) Workshop on Community Management and Common Property of coastal Fisheries and Upland Resources in Asia and the Pacific, Philippines	IIRR, IDRC, FF	21-23 Jun 1993
<b>Aquaculture</b>	a) Workshop on Economics of Aquaculture Research in Asia, Singapore	IDRC	2-5 Jun 1981
	b) First Asian Regional Workshop on Rice-Fish Culture, Thailand	ADB, IDRC	21-25 Mar 1988
	c) Second Asian Regional Workshop on Rice-Fish Culture, Philippines	ADB, IDRC, CLSU	24-28 Oct 1989

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	d) Asian Regional Workshop on Tilapia Genetics	ADB, UNDP, FAC	29-31 Aug 1990
	e) International Workshop on Genetic Aspects of Conservation and Cultivation of Giant Clams, Manila	ACIAR, IDRC, ICOD, ODA	17-18 Jun 1992
	f) Third Asian Regional Rice-Fish Farming Research and Development Workshop, Subang, Indonesia	CRIFC, IDRC	6-11 Jun 1993
<b>5. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	a) Participation in Regional Technical Assistance Project on Research and Training in Aquaculture, concentrating on carp hatchery/nursery technology	ADB	1983-1985
	b) Participation in NACA Research Working Group	NACA	1986
<b>Capture Fisheries Management</b>	a) Advice on computer use and shrimp stock assessment to BOBP	FAO, SIDA	3-5 Dec 1983
	b) Bay of Bengal management options	BOBP	1986
	c) Review of self-regulatory mechanisms	BOBP	1987
<b>Coastal Area Management</b>	Leader of UNDP Global Environment Facility mission on Pollution in East Asian Seas	UNDP	5-21 Dec 1992
<b>Information</b>	Consultancy to assist in planning regional information survey and workshop for SIFR; prepare material for workshop	SIFR	2 weeks, Jul 1993; 2 weeks, Nov 1993

## REGIONAL LATIN AMERICA

### 1. COOPERATIVE RESEARCH

<b>Coastal Area Management</b>	Socioeconomic Valuation of Coastal Resources of South-Western Latin America	ECLAC	Jun 1990-Dec 1992
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### 2. EDUCATION AND TRAINING

<b>Capture Fisheries Management</b>	a) Provided Summer Course "Coral Reef Fish and Fisheries" at Discovery Bay Marine Laboratory UWI, Jamaica	UWI	2 weeks, Jul 1989
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<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	b) Codirector and senior lecturer of FAO/DANIDA course in fish Stock Assessment, Peru	FAO, DANIDA	3-28 Sep 1990
	c) Lecturer and panelist in Training Course in Fisheries Management and Development, Antigua	CS, OECS	16-27 Sep 1991
	d) Course on assessment and modeling of artisanal fisheries, EPOMEX, Mexico	EPOMEX	9-13 Nov 1992

### 3. ADVISORY SERVICES

<b>Capture Fisheries Management</b>	a) Preparation of training materials for regional fisheries training course	IDRC, GTZ	1988
	b) Member of mission to Ecuador, Peru and Chile for SIFR	WB, FAO	Jul-Aug 1989
	c) Consultation on Management of Coral Reef Resources, Caribbean	CARICOM	April 1992

### REGIONAL - MIDDLE EAST

#### 1. ADVISORY SERVICES

<b>Capture Fisheries Management</b>	Cooperative Marine Technology Program for the Middle East	USAID	1980
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#### 2. EDUCATION AND TRAINING

<b>Capture Fisheries Management</b>	Workshop on simple stock assessment methods, Algeria	FAO	16-18 Nov 1985
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### REGIONAL - SOUTH PACIFIC

#### 1. COOPERATIVE RESEARCH

<b>Capture Fisheries Management</b>	a) Improvement of Small-Scale Fisheries in the Pacific	SPC	1975-1976
	b) Skipjack Tuna Assessment in the Western Tropical Pacific	SPC	Sep 1975-Dec 1976
	c) Fisheries Management and the Law the Sea in Southeast Asia and the Southwest Pacific	In-house study, with informal linkages to fishery and legal experts from various institutions in the region concerned; RFF	Jun 1977-Mar 1978

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>Aquaculture</b>	a) International Giant Clam Mariculture Project	JCUNQ, ACIAR, AIDAB, NZG, ODA, ICOD, VSO, USPC, UG, GSI, UB-CDS, DPI, UPNG, SU, DLSU, UP, MAFF, MLENR, NARA, IUCN/WWF	Continuous from 1983
	b) Coastal Aquaculture Centre	APSF, GSI, GPG, NZG, ODA, SF	Continuous from 1986
	c) Reef Ranching Research Project	SPREP	1989-1992
	d) Status of Cultivation of Pearl Oysters in the Indo-Pacific: A Review	ODA	Oct 1990-Apr 1992
	e) A Collaborative Investigation of Predation on Cultivated Giant Clams	ACIAR, AIDAB, JCUNQ, SU, UPMSI, USP	Nov 1990-Mar 1992
	f) Cultivation and fisheries enhancement of tropical sea cucumbers	APSF	Sep 1993-Aug 1995
	g) Spat collection and hatchery production of pearl oysters in the central-western Pacific	ACIAR	Jul 1993-Jun 1995
<b>2. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	a) ICLARM consultant assisted with the development of a Regional Program in Marine Science at the University of the South Pacific	USP	Jul 1976-Jan 1977
	b) Training Course on the Compleat ELEFAN, Honiara	FFA, AIDAB	5-16 Dec 1988
	c) Lecturer provided to FAO/DANIDA stock assessment course, Fiji	DANIDA, FAO	11 Nov-6 Dec 1991
<b>Aquaculture</b>	Two-week training for Fijian and Tongan fisheries officers	FAO	2 weeks, Jul 1989
<b>3. CONFERENCES AND WORKSHOPS</b>			
<b>Capture Fisheries Management</b>	a) Small Boat Design	SPC	27-28 Oct 1975
	b) Workshop on Community Management and Common Property of Coastal Fisheries and Upland Resources in Asia and the Pacific, Philippines	IIRR, IDRC, FF	21-23 Jun 1993
<b>4. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	Aquaculture planning advice	GFSM	1986
<b>Capture Fisheries Management</b>	a) Review of the UNDP/FAO regional fisheries development project	UNDP	1984

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	b) <b>Assessment of Stock Assessment Research and Training needs</b>	FFA	1986
	c) <b>Monitoring and management of coastal fisheries resources</b>	FFA	1987
	d) <b>Secondment of scientist to SPC, Noumea</b>	SPC	Jan-Sep 1989
	e) <b>Participation in review of underwater visual census methods for fish stock assessment</b>	ACIAR	Apr 1992
<b>Information</b>	<b>Training in library for Coordinator of PIMRIS</b>	PIMRIS	19-27 Oct 1992

### REGIONAL - SOUTHEAST ASIA

#### 1. COOPERATIVE RESEARCH

<b>Coastal Area Management</b>	<b>ASEAN/US Coastal Resources Management Project</b>	USAID; ASEAN/COST, DOFBD, DGF, MSTE, DOFM, PCAMRD, SCOS, SPPD, ONEB, NEDA, NUS	1986-1992
<b>Capture Fisheries Management</b>	a) <b>Fisheries Management and the Law the Sea in Southeast Asia and the Southwest Pacific</b>	In-house study, with informal linkages to fishery and legal experts from various institutions in the region concerned; RFF	Jun 1977-Mar 1978

#### 2. INFORMATION

<b>Coastal Area Management</b>	a) <b>Tropical Coastal Area Management Newsletter, 15 issues published</b>	USAID	1986-1992
	b) <b>Directory of institutions and scientists involved in research and management of coastal areas</b>	USAID	1987-1989

#### 3. EDUCATION AND TRAINING

<b>Capture Fisheries Management</b>	a) <b>Scholarships for study of M.Sc. and nondegree study of Fisheries Economics (9 awards by end of 1984)</b>	UPM, IDRC, FF	1983-1984
	b) <b>Tropical Fish Stock Assessment Training</b>	FAO, DANIDA	1985, 1987
	c) <b>10-day course on fisheries management/ECOPATH for SEAFDEC Marine Fishery Resources Development and Management Department, Malaysia</b>	SEAFDEC	Sep 1993

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>Aquaculture</b>	a) ICLARM staff teach in the NACA course for senior aquaculturists from Asia and the Pacific	NACA	1983-1988
	b) Farming Systems Research and Extension: Basic Skills	IRRI, IIRR	24 Jul-17 Nov 1989
<b>Information</b>	Film on fisheries management and postharvest handling	GTZ (Philippines)	1986
<b>Coastal Area Management</b>	a) Training Course on Information Research and Management!	USAID	29 Sep-13 Oct 1986
	b) Training course on the Identification and Detection of Fish Caught Through Blast Fishing	USAID, GOBD	26 Mar-2 Apr 1988
	c) Training Course on Remote Sensing and Geographic Information Systems Application to Coastal Resources Assessment and Planning, Singapore	NUS, SCOS, USAID	1-12 Nov 1988
	d) Medium-term Academic Training for CRMP Project Staff in US universities (master degree level)	USAID	1987-1991
	e) On-the-job Training in US and ASEAN institutions during CRMP project	USAID	1987-1991
	f) Nine short-term training courses, 4 regional workshops and on-the-job and academic programs for a total of 118 national staff during CRMP project	USAID	1986-1992
	g) Training course on Principles of Economic Valuation of Coastal Resources for 25 ASEAN nationals	USAID	7-19 May 1990
	h) Remote Sensing and GIS for Coastal Zone Planning and Management for 25 ASEAN nationals	USAID	3-14 Dec 1990

#### 4. CONFERENCES AND WORKSHOPS

<b>Capture Fisheries Management</b>	Workshop on the Law of the Sea: Problems of Conflict and Management of Fisheries in Southeast Asia	ISEAS	26-29 Nov 1978
<b>Coastal Area Management</b>	a) Policy Workshop on Coastal Area Management, Malaysia	USAID, State Govt. of Johore, MSTE	25-27 Oct 1988

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating institution(s)</b>	<b>Duration</b>
	b) <b>Technical Workshop on Integrated Tropical Coastal Area Management, Singapore</b>	NUS, SCOS, USAID	28-31 Oct 1988
	c) <b>Management and Training Workshop on <i>Pyrodinium</i> Red Tides</b>	USAID, AIDAB, GOBD, IDRC, IOC/WESTPAC, UNEP, NAS	23-30 May 1989
	d) <b>Policy Conference on Managing ASEAN's Coastal Resources for Sustainable Development, Baguio, Philippines</b>	USAID	4-7 Mar 1990
	e) <b>Workshop on Coastal Area Management Education in the ASEAN Region, Singapore</b>	USAID	8-11 Oct 1990
	f) <b>Waste Management in the Coastal Areas of the ASEAN Region</b>	ADB, CANASC, MES	28-30 Jun 1991
	g) <b>Regional Workshop on Integrated Coastal Zone Management in ASEAN: Lessons learned</b>		28-30 Apr 1992

## 5. ADVISORY SERVICES

<b>Capture Fisheries Management</b>	Survey of socioeconomic data collection and information systems for fisheries in Malaysia, Thailand and the Philippines	FAO	1983
<b>Coastal Area Management</b>	a) <b>Management of Natural Resources and Environment for Sustainable Development</b>	URI-CRMP, USAID	6-16 Feb 1988
	b) <b>Study to determine the institutional and organizational feasibility of implementing recommendations contained in coastal management plans developed for the ASEAN countries</b>	USAID	May-Oct 1989

**ALGERIA**

## 1. EDUCATION AND TRAINING

<b>Capture Fisheries Management</b>	<b>Tropical Fish Stock Assessment Training</b>	FAO	16-18 Nov 1985
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**BANGLADESH**

## 1. COOPERATIVE RESEARCH

<b>Capture Fisheries Management</b>	a) <b>Management options for small-scale fisheries</b>	BMFL, BCAS	1986-1989
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<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	b) Improved Management of Open-water Fisheries in Bangladesh	IDRC, FF, BDOF, BFRI	Jul 1991-Jul 1994
<b>Aquaculture</b>	a) Agricultural Research Project-II (Supplement)	USAID, BARC, BFRI	May 1989-Jun 1993
	b) Socioeconomic Impact of a Fish Culture Extension Program on the Farming Systems of Bangladesh	DANIDA, IFAD, BDOF, BARC, BFRI	Jun 1990-Jun 1994
	c) Sustainable Aquaculture Development for Poverty Alleviation and Improved Nutrition in Bangladesh	BARC, BFRI, USAID	Jun 1993-May 1995

## 2. EDUCATION AND TRAINING

<b>Capture Fisheries Management</b>	a) Bangladesh Ph.D. student supervision	UPM	1986-1989
	b) Course on Methods, Problems and Solutions of Data Acquisition for 35 researchers	BDOF	17-29 Jan 1987
	c) Course on Fisheries Management in Bangladesh	BDOF	19 Oct-13 Nov 1987
	d) Application of Microcomputers to Fisheries Management	FF, BCAS	16-26 Jan 1988
	e) Training on stock assessment for BFRI researcher	IDRC	9-27 Jan 1989
	f) Provided study tour to Malaysia and Thailand for Joint-Secretary, Ministry of Fisheries and Live-stock	BDOF, IDRC, FF	10-17 May 1993
	g) Training in electrophoretic analysis for BFRI scientist	BFRI, IDRC, FF	10 May- 9 Jun 1993
<b>Aquaculture</b>	a) Total training assistance during the "Agricultural Research Project II (Supplement)" is in 83 training programs, involving 134 scientists, 305 government trainers, 370 trainers from 30 NGOs, and 1,767 farmers	BARC, BFRI, USAID	May 1989-Jun 1993
	b) Three-day training for 11 extension workers and others in the research project on Socioeconomic Impact of a Fish Culture Extension Program	BARC, BDOF, BFRI	9-11 Mar 1991
	c) Two-day training for field workers in the research project	BARC, BDOF, BFRI	4-5 May 1991
	d) Assistance in training of 345 farmers in aquaculture in the research project on Socioeconomic Impact of a Fish Culture Extension Program	BARC, BDOF, BFRI	24 Apr-14 May 1991
	e) Assistance in 9 training extension activities for up to 320 farmers, in the Agricultural Research Project II (Supplement)	DANIDA, IFAD, BARC, BDOF, BFRI	Jan 1992-Dec 1992

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	f) Supervision of two M.Sc. students of Bangladesh Agricultural University and University of Dhaka, respectively		1993
	g) Assistance in one-day training on rice-fish farming for 108 farmers	BARC, BFRI, USAID	1993
	h) On-farm demonstration of fish culture techniques for 605 farmers through farmers' rallies	BARC, BDOF, IFAD, DANIDA	Jan-Aug 1993
	i) Assistance in a course on Economics of Fish Production: Basic Concepts, Acquisition of Data and Information and Methods of Analysis for 16 FRI scientists	BARC, BFRI, USAID	6-27 Jan 1993
	j) Assistance in a course on Integrated rice-fish farming for 31 Agriculture Extension Officers	BARC, BFRI, USAID	16 Feb 1993
	k) Assistance in a course on Integrated rice-fish farming for 50 DAE Extension Officers and farmers	BARC, BFRI, USAID	17 Feb 1993
	l) Assistance in a course on Integrated rice-fish farming for 36 DAE Extension Officers and farmers	BARC, BFRI, USAID	18 Feb 1993
	m) Two-day training on fish culture techniques for 268 farmers	BARC, BDOF, IFAD, DANIDA	Feb and Aug 1993
	n) Assistance in a course on Aquaculture technologies and management for 25 Primary School Teachers	BARC, BFRI, USAID	1-4 Mar 1993
	o) Assistance in a course on Aquaculture technologies and management for 23 NGO extension workers	BARC, BFRI, USAID	9-13 Mar 1993
<b>Information</b>	Conducted training for BFRI library staff, Mymensingh	BFRI	3 weeks, Feb 1993
<b>3. CONFERENCES AND WORKSHOPS</b>			
<b>Aquaculture</b>	a) ICLARM-BARC Workshop, Inland Aquaculture Development Strategies for Bangladesh	BARC	1991
	b) Assistance in one-day Workshop on Strategies for Aquaculture Development Through NGOs for 55 government and NGO officers	BARC, BFRI, USAID	1993
<b>Capture Fisheries Management</b>	a) National Workshop for 200 participants on Improved Management of Inland Fisheries in Bangladesh, Dhaka	BDOF, BFRI, IDRC, FF	15-16 Sep 1993
	b) Workshop for 10 staff of BDOF on biological assessment of small fishes in Bangladesh	BDOF, IDRC, FF	28-29 Sep 1993

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>4. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	a) Assistance to 257 farmer/cooperator in the research project on Socioeconomic Impact of a Fish Culture Extension Program	BARC, BDOF, BFRI	1991
	b) Assistance in supply of fish seed to 39 farmers	BARC, BDOF, IFAD, DANIDA	Jan-Sep 1993
	c) Extension services on pond preparation and stocking	BARC, BDOF, IFAD, DANIDA	Mar-Aug 1993
	d) Study tours of farms for 15 farmers	BARC, BDOF, IFAD, DANIDA	2 Mar-1 Apr 1993
	e) Assistance in 'beel' fish culture for 620 farmers	BARC, BDOF, IFAD, DANIDA	May-Dec 1993
	f) Assistance in rice-fish culture for 15 farmers	BARC, BDOF, IFAD, DANIDA	May-Dec 1993
	g) Assistance in integrated farming for 6 farmers	BARC, BDOF, IFAD, DANIDA	Jul-Dec 1993
	h) Assistance to FRI in producing trainer's training manuals, extension pamphlets and posters on different aspects of aquaculture	FRI, USAID	1993

### **BRAZIL**

#### 1. ADVISORY SERVICES

<b>Capture Fisheries Management</b>	Consultancy for CEC on database design for conservation and sustainable use of Amazonian rain forests	CEC	3-10 Oct 1993
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### **BRUNEI DARUSSALAM**

#### 1. COOPERATIVE RESEARCH

<b>Coastal Area Management</b>	ASEAN/US Coastal Resources Management Project	DOFBD, BDDTCP, MDBD, BDDPW, BM, BDDA	1987-1992
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#### 2. ADVISORY SERVICES

<b>Coastal Area Management</b>	a) Completion of a coastal environmental profile	UP, NUS, DOFBD	May-Jun 1987
	b) Assessment of fish and shrimp stocks in the Brunei estuarine system and other inshore waters to determine exploitation potential and fishery management strategies	DOFBD	May 1989-Dec 1990
	c) Ecological survey to assess the impact of oil spills in Brunei Darussalam	DOFBD	6 Jun-3 Jul 1989

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	d) Establishment of guidelines/policies for coastal resources management in Brunei Darussalam	DOFBD	Oct 1989
<b>3. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	Stock assessment training for researcher	DOFBD	14 Mar-14 Apr 1987
<b>CANADA</b>			
<b>1. CONFERENCES AND WORKSHOPS</b>			
<b>Capture Fisheries Management</b>	Leader of two-week workshop on dynamics of Grand Bank ecosystem/ECO-PATH for Canadian government and university researchers, St. Johns		Oct 1993
<b>CHILE</b>			
<b>1. COOPERATIVE RESEARCH</b>			
<b>Capture Fisheries Management</b>	The Southern Ocean Salmon Project	OI, DPP	1975-1976
<b>2. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	Course on Fisheries Economics and Management for fisheries sector, Universidad Católica, Valparaiso		19-21 Dec 1990
<b>3. ADVISORY SERVICES</b>			
<b>Capture Fisheries Management</b>	Assistance in planning Fisheries and Coastal Management/Environmental Economics courses at Universidad Austral	UAC, URI	Dec 1990; 5 days, 1991
<b>CHINA</b>			
<b>1. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	Seminars, lectures and discussions on research planning and on prospects for aquaculture development	IO, SCSIO	1984
<b>Information</b>	Study tour to Philippines by members of the Fishery Scientific and Technological Information Institute, China Academy of Fishery Sciences	IDRC	May 1989

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>2. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	Lectures in marine fisheries management	FAO	Oct 1986
<b>COLOMBIA</b>			
<b>1. ADVISORY SERVICES</b>			
<b>Capture Fisheries Management</b>	45-day consultancy to evaluate economic feasibility of Integrated Industrial, Small-Scale Fishery Project, Pacific Coast	GOC, GTZ	1988
<b>COOK ISLANDS</b>			
<b>1. EDUCATION AND TRAINING</b>			
<b>Aquaculture</b>	Training for researcher of CIFAD in giant clam farming	CIFAD	6 weeks, Mar-Apr 1993
<b>CÔTE D'IVOIRE</b>			
<b>1. EDUCATION AND TRAINING</b>			
<b>Information</b>	Database management training	CRO	Nov 1989
<b>2. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	Assistance in the organization of the Third International Symposium on Tilapia in Aquaculture (1991)	CRO, GOF	1988-1991
<b>DJIBOUTI</b>			
<b>1. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	Training of national francophone scientist in stock assessment	GTZ	19 Mar-21 Apr 1993
<b>ECUADOR</b>			
<b>1. ADVISORY SERVICES</b>			
<b>Capture Fisheries Management</b>	Interpretation of project data; introduction to length-based stock assessment methods	ODA	Nov-Dec 1981

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>EGYPT</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	Controlled Reproduction of Commercially Important Fishes	NJMSC, USAID, EASRT, IOLR	Aug 1980-Jul 1982
2. ADVISORY SERVICES			
<b>Aquaculture</b>	a) Preparation of guidelines for fish hatchery/nursery development	USAID, Egypt	1978
	b) Advice on the establishment of a freshwater aquaculture research center	USAID, Egypt	1979
	c) Participation in mission on economic feasibility of waste-fed aquaculture project, Suez	WB	5 days, May 1991
<b>GERMANY</b>			
1. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Supervision of Ph.D. students, Kiel University and Bremen University (10 up to Dec 1993)		Continuous from 1979
	b) Course on tropical fisheries biology	IIM	1984-1985
	c) Course on theory and practice of data analysis in fisheries biology	IIM	1985
	d) Graduate course on the Compleat ELEFAN, Kiel University	IIM	20-26 Jun 1988
	e) Courses in fish population dynamics	IIM	20-26 Jun 1989 10-15 Jul 1989 25-29 Jun 1990
	f) Lecture series on population dynamics and trophic interactions, Bremen University	BU	4-8 Nov 1991- 11 May 1992
<b>GHANA</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	a) Research for the future development of aquaculture in Ghana	BMZ, GTZ, IAB, GhRRM, IIRR, IRNR	Jun 1991-May 1994
	b) Research on the Tilapia Genetic Resources of Ghana for their Future Conservation and Management in Aquaculture and Fisheries	GTZ, IAB, ZIM	Jun 1991-Jun 1994

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>2. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	a) Assistance with Aquaculture Research and Training Activities	IAB, ARO, BMZ	1986-ongoing
	b) Prepared terms of reference for integrated farming project of Programme for Rural Action, Northern Ghana	GTZ, PRAG	One month, Nov 1992
<b>3. CONFERENCES AND WORKSHOPS</b>			
<b>Aquaculture</b>	Joint workshop for national scientists on Research for the Future Development of Aquaculture in Ghana	IAB, BMZ, GTZ	13-15 Mar 1993
<b>4. EDUCATION AND TRAINING</b>			
<b>Aquaculture</b>	Training at HQ on use of ICLARM's RESTORE framework for IAB scientist	IAB	16-31 Aug 1993
<b>INDIA</b>			
<b>1. EDUCATION AND TRAINING</b>			
<b>Aquaculture</b>	Training on reproductive physiology and advice on research projects and facilities	CMFRI	1981
<b>Capture Fisheries Management</b>	Lectures at FAO/DANIDA training course in tropical fish stock assessment, Cochin	FAO, DANIDA	25 Nov-2 Dec 1983
<b>2. MARICULTURE</b>			
<b>Aquaculture</b>	a) Advice on socioeconomic aspects and seed supply of shrimp pen culture project in Killai Backwaters, Madras, India	BOBP	1983
	b) Assistance in developing a research plan for genetic improvement of rohu fish	CIFA	1991
<b>INDONESIA</b>			
<b>1. COOPERATIVE RESEARCH</b>			
<b>Capture Fisheries Management</b>	a) Indonesian small-scale fisheries: research review and synthesis	DGF, BPPL	Oct 1981-Dec 1982
	b) Fisheries Economics Reader (Bahasa Indonesia)	DGF, OBOR	1985
	c) Population dynamics of exploited fish and penaeid shrimps	BPPL, SF	1983-1987

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>Aquaculture</b>	Aquaculture options for two reservoirs in West Java	WB, PLN, UNPAD	Jun 1986-May 1989
<b>Coastal Area Management</b>	ASEAN/US Coastal Resources Management Project	DGF, RIMF, CORD, UI, BAU, CAER, OSMDLE	1986-1992
<b>RESEARCH AND TRAINING</b>			
<b>Capture Fisheries Management</b>	a) AFSSRN Course on Research Issues in Fisheries Economics	IDRC, FF	12-16 Feb 1987
	b) AFSSRN Course on Microcomputers in Research	IDRC, FF	19-23 Mar 1987
	c) AFSSRN Course on Microcomputers in Research	IDRC, FF	16-25 Nov 1987
	d) AFSSRN Course on Aquaculture Management	IDRC, FF	11-22 Jul 1988
	e) Training course on Methods of Socioeconomic Analysis for Capture and Culture Fisheries	IDRC	22-27 Jun 1992
	f) Lecturer, FAO/DANIDA course on stock assessment, Bogor, for 30 national researchers	FAO, DANIDA	25 Oct-26 Nov 1993
<b>Information</b>	a) Five-week training course on fisheries information for four participants from Indonesia	AARD	May-Jun 1983
	b) Courses on fisheries information management for fisheries personnel	INFIS	5 Jul-31 Aug 1988 3-30 Jun 1989 8-29 Jul 1989
<b>Coastal Area Management</b>	Principles of Coastal Resources Management, (3rd session)	DGF, USAID	3-16 Apr 1988
<b>Aquaculture</b>	a) Design of facilities and equipment for two new aquaculture research stations in Indonesia	USAID (Indonesia)	15-20 Dec 1980
	b) Recommendations on the design, construction and staffing of aquaculture research stations	IADS 15-19 Jun 1981	11-22 May,
	c) Aquaculture research and development planning	AARD	May 1982
	d) Assessment and sampling protocol for West Java reservoir project	WB, PLN, UNPAD	1987
<b>Capture Fisheries Management</b>	a) Advice on stock assessment and economics sections of the Indonesian Small-Scale Fisheries Review	DGF, BPPL	1982
	b) Assistance with development of programs in small-scale fisheries and aquaculture	AARD, USAID, UNDP	1982

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>4. CONFERENCES AND WORKSHOPS</b>			
<b>Coastal Area Management</b>	a) Workshop on the Environmental Profile of Segara Anakan-Cilacap Coastal Region	DGF	16-18 Dec 1986
	b) Technical Workshop on the Environmental Management of Segara Anakan	DGF, IIS	7-9 Mar 1988
	c) Workshop on Guidelines and Policies for Coastal Resources Management of Segara Anakan	DGF	27 Feb-1 Mar 1989
	d) Planning Steering Committee Meeting	DGF	4-5 Oct 1989
<b>Capture Fisheries Management</b>	AFSSRN Workshop on Priority Setting for Fisheries Socioeconomic Research, Sukabumi, for 32 national scientists	IDRC	23-24 Aug 1993
<b>ISRAEL</b>			
<b>1. COOPERATIVE RESEARCH</b>			
<b>Aquaculture</b>	Controlled Reproduction of Commercially Important Fishes	NJMSC, USAID, EASRT, IOLR	Aug 1980-Jul 1982
<b>KENYA</b>			
<b>1. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	a) Provided a series of lectures at the FAO/DANIDA training course on fishery science methodology in Mombasa	FAO, DANIDA	May 1980
	b) Lectures at FAO/DANIDA training course in stock assessment	FAO, DANIDA	28 May- 20 Jun 1983
<b>2. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	Advice on research and development work in integrated farming, tilapia culture and trout culture in the Central and Eastern Provinces	DFMTW	Aug 1982
<b>KIRIBATI</b>			
<b>1. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	Giant Clam Survey and Mariculture Possibilities	UNDP/FDRK	1985

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>KUWAIT</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	Intensive Mariculture of Tilapia	KISR	Jan 1982-Jun 1985
<b>Capture Fisheries Management</b>	Fisheries research advice to Mariculture and Fisheries Department of KISR	KISR	Apr, Dec 1985, Jan 1986
3. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Stock assessment training for KISR researcher	KISR	23 Nov-15 Dec 1988
	b) Stock assessment training for KISR researcher	KISR	23 Jan-16 Mar 1990
<b>MALAÛI</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	Research for the development of tropical aquaculture appropriate for implementation in rural Africa	GTZ, MDOF, UM, MDREA, UH MAGFAD, CNRFFP, SAREC, ALCOM	May 1986-Oct 1994
2. EDUCATION AND TRAINING			
<b>Aquaculture</b>	a) Course on Use of Standard Software in Research, MalaÛi	MDOF, GTZ	28 Sep-2 Oct 1987
	b) Study Tour of Aquaculture Research Institutions in the Philippines and Thailand for African Researchers	GTZ	25 Mar-2 Apr 1987
	c) Course in Freshwater Biology for 9 UM students, including expeditions, and training of 4 M.Sc. students	UM, GTZ	Continuous from 1989
	d) Graduation of first four M.Sc. students in joint ICLARM-GTZ/UM M.Sc. in Biology (Aquaculture); also supervision of four undergraduate projects for MDOF staff; plus training in aquaculture techniques for MDOF and MAGFAD staff	UM, GTZ, MAGFAD, MDOF	1990
	e) Lectures in Freshwater Biology at Chancellor College, UM	UM	Continuous in 1991
	f) Supervision of 3 M.Sc. students from Wageningen University, The Netherlands	GTZ	1992

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	g) Fourteen different seminars and short courses in rapid rural appraisal, resource mapping, experimental methods and computer analysis of data for NARS technicians	GZT, MDOF, CNRFFP, MAGFAD	1993
<b>3. CONFERENCES AND WORKSHOPS</b>			
<b>Aquaculture</b>	a) An Awareness Program of South-east Asian Aquaculture Technology, MalaWi	MDOF	21-25 Sep 1987
	b) Workshop on the History, Status, and Future of Common Carp in MalaWi, Domasi	ICLARM, MDOF, MDREA, UM	12-13 Sep 1991
<b>4. ADVISORY SERVICES</b>			
<b>Aquaculture</b>	a) Advice and training for small-holder tobacco growers in integrated farming	GTZ	Jun 1992
	b) Advice and training for District Youth Officers in integrated farming	GTZ, MDOF	10-14 Aug 1992
	c) Resource persons at planning workshop for MAGFAD	MAGFAD	9-11 Dec 1992
	d) Results of ICLARM research strongly influenced new National Aquaculture Policy	GTZ, MDOF	1993
<b>MALAYSIA</b>			
<b>1. COOPERATIVE RESEARCH</b>			
<b>Capture Fisheries Management</b>	Improvement of Small-Scale Fisheries in Malaysia	SCSP	Oct 1976-Oct 1977
<b>Coastal Area Management</b>	ASEAN/US Coastal Resources Management Project	MSTE, DOFM, MODM, DADIM, DTCPM, PMDM, DGM, DSMM, UKM, GPU, FRIM, PPTAP, UPM, UTM, SERES, UMM	1987-1992
<b>2. EDUCATION AND TRAINING</b>			
<b>Capture Fisheries Management</b>	a) ICLARM provided a staff member to assist with the development of the M.Sc. and module programs in Fisheries Economics offered by Universiti Pertanian Malaysia	UPM, IDRC, ADC	1983-1984
	b) Lectures at national FAO/DANIDA stock assessment course, Penang	FAO, DANIDA	5 Nov-1 Dec 1984
	c) AFSSRN Course on Fisheries Economics Theory and Research	IDRC, FF	1-22 Apr 1987

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	d) Stock assessment training for three UPM staff	JICA	4-19 Apr 1988
	e) AFSSRN Course on Fisheries Management Research	IDRC, FF	22 May-5 Jun 1988
<b>Coastal Area Management</b>	Principles of Coastal Resources Management, (2nd session)	DOFM/USAID	9-12 Aug 1987
<b>3. ADVISORY SERVICES</b>			
<b>Capture Fisheries Management</b>	Advice for Fisheries Research and Development Project	ADB	Apr-Oct 1987
<b>Aquaculture</b>	a) Site selection for and design of a marine hatchery for research on the controlled breeding of marine fish, Sabah	MAFD	1982
	b) Preparation of a project document on the development and management of the Malaysian cockle ( <i>Anadara granosa</i> ) industry and subsequent project reviews; provided a consultant, Jan-Mar 1985, to advise on cockle induced spawning and larval rearing	DOFM, BOBP	1984-1985
<b>4. CONFERENCES AND WORKSHOPS</b>			
<b>Coastal Area Management</b>	a) Workshop on the Environmental Profile of South Johore, Malaysia	USAID, DOFM, MSTE, UKM	16-18 Jun 1988
	b) Second In-Country Meeting for the Development of a Coastal Resources Management Plan for South Johore, Malaysia	DOFM, EPU	26-28 Jul 1988
	c) Third In-Country Meeting for the Development of a Coastal Resources Management Plan	DOFM	27 Feb-1 Mar 1989
	d) ASEAN-US CRMP Presentation before Johore State Action Committee	EPU, SGJ, DOFM	18 Jun 1989
<b>Capture Fisheries Management</b>	a) AFSSRN Workshop on Fisheries Management and Policy Research in Malaysia	IDRC	2-3 Dec 1992
	b) AFSSRN Workshop on Regional and Cooperative Approach in Fisheries Management - Is it viable in Malaysia?	IDRC, UPM	26 Oct 1993

#### **MALDIVES**

#### **1. EDUCATION AND TRAINING**

<b>Capture Fisheries Management</b>	Stock assessment training for researcher from Ministry of Fisheries	MFM, UNESCO	4 Jan-4 Feb 1988
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<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>MEXICO</b>			
1. COOPERATIVE RESEARCH			
<b>Capture Fisheries Management</b>	Population dynamics of Gulf of Mexico fish	UNAM	1987-1989
2. ADVISORY SERVICES			
<b>Aquaculture</b>	Advice on small-scale freshwater aquaculture and socioeconomics	BIO-AQUA (INIREB)	1981
3. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Introduction to the Compleat ELE-FAN	UNAM	7-11 Sep 1987
	b) Lecture series on population dynamics and trophic interaction, Campeche	EPOMEX, UADC	9-18 Nov 1992
	c) Lecturer, FAO/DANIDA course on fish stock assessment, Mazatlan, for 30 national researchers	FAO, DANIDA	11 Jan-6 Feb 1993
	d) Course on Aspects of Fish Recruitment for 10 staff of INP	EPOMEX, INP	One week, Oct 1993
<b>MOZAMBIQUE</b>			
1. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	Training course on stock assessment	NORAD	22 Feb-14 Mar 1986
<b>MYANMAR</b>			
1. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	Advice on the analysis of previous survey results, conducting preliminary training of Burmese scientists in stock assessment techniques and preparing plans for future research	BFDP, FAO	Aug, Dec 1983
<b>NORWAY</b>			
1. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Series of lectures on tropical fish stock assessment, Institute of Marine Research, Bergen	UB	16-18 Mar 1988

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating institution(s)</b>	<b>Duration</b>
	b) Lecture series on population dynamics and trophic interactions	UB	20-22 May 1992
<b>PAKISTAN</b>			
1. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	Stock assessment training for University of Karachi researcher	UKP	13-25 Nov 1989
<b>PAPUA NEW GUINEA</b>			
1. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	Development of giant clam management strategy, Milne Bay	DOFMR	1989
<b>Aquaculture</b>	Member of advisory panel on UNDP/FAO Sepik River Fish Stock Enhancement Project	UNDP	Continuous from 1991
<b>PERU</b>			
1. COOPERATIVE RESEARCH			
<b>Capture Fisheries Management</b>	Peruvian anchoveta and its ecosystem	IMARPE, GTZ, NMFS	1982-1989
2. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	a) Consultation on assessment of Peruvian demersal fisheries	GTZ, IMARPE	30 Apr-7 May 1983
	b) Stock assessment methodology	GTZ, IMARPE	19 Feb-14 Mar 1985; 7-26 Oct 1986; 29 Aug-2 Sep 1987; Sep 1988; 22 Jul-5 Aug 1989
	c) Review of small-scale fisheries data	IMARPE	1988
<b>Aquaculture</b>	Participation in expert panel reviewing progress in wastewater-fed fish culture project (part of a global resource recovery program), Lima, Peru	WB, GTZ, UNA, CEPIS	1985-ongoing 3 weeks May 1989 Jul, Oct 1990
3. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Advice and a series of lectures on stock assessment methodology	GTZ, IMARPE	Nov 1981
	b) Lectures on fish population dynamics at University of Trujillo		17-19 Oct 1985

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	c) Introduction to the Compleat ELE-FAN	IMARPE	29 Aug-2 Sep 1987
	d) FAO/DANIDA Training course on fish stock assessment	FAO, DANIDA, iMARPE	3-28 Sep 1990

### PHILIPPINES

#### 1. COOPERATIVE RESEARCH

<b>Aquaculture</b>	a)	Applied Research on Integrated Animal-Fish Farming	FAC-CLSU, RF	Jan 1978-Jan 1981
	b)	Genetic Improvement of Tilapia Brood-stock in the Philippines	FAC-CLSU, RF	Jun 1979-Aug 1981
	c)	Milkfish Production Economics	BAEcon	Jun 1979-Sep 1981
	d)	Economics of Integrated Poultry-Fish Farming	FAC-CLSU	Nov 1981-Jun 1982
	e)	Mass Production of Tilapia Fry	FAC-CLSU	Jul 1980-Dec 1982
	f)	Milkfish Production Dualism: A Socioeconomic Perspective	BAEcon, BFAR, FAO	Jul 1981-Apr 1983
	g)	<i>Azolla</i> in Tilapia Nutrition	UPVCF, IFDR	May 1982-Dec 1983
	h)	Tilapia Incubation Systems	UPVCF, IFDR	May 1982-Dec 1983
	i)	Economics of the Philippine Tilapia Industry	PCARRD	Aug 1982-Jul 1983
	j)	Genetic Characteristics of Food Fishes	UPMSI	Jan-Dec 1983
	k)	Tilapia Seed Supply and Management in the Philippines	UPMSI	Jul 1983-Jun 1984
	l)	Economics of Philippine Tilapia Hatcheries and Evaluation of Farmed Stocks and Species	IDRC, UPMSI, BFAR	Continuous from Apr 1984
<b>Coastal Area Management</b>	a)	ASEAN/US Coastal Resources Management Project	DOST, PCAMRD, UPMSI, UPCSWCD, UPVCF, BFAR, NEDA-Region I	1986-1992
	b)	Geographic Information System for Coastal Area Management and Planning	IDRC, NEDA	Sep 1991-Feb 1994
	c)	Resource and Ecological Assessment of San Miguel Bay, Philippines	PDA	Apr 1992-Aug 1993
	d)	Resource and Ecological Assessment for Lagonoy Gulf, Philippines	PDA, BUCF	Jul 1993-Jan 1995

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>Capture Fisheries Management</b>	a) Philippine Municipal Fisheries: A Review of Resources, Technology and Socioeconomics	FIDC	Jan-Sep 1980
	b) Small-Scale Fisheries of San Miguel Bay, Philippines: A Multidisciplinary Analysis	IFDR, UPVCF, UNU, PCARRD	Sep 1979-Dec 1983
	c) Rainfed Resources, Stock Assessment and Pilot Management Scheme	USAID, BFAR	1985
	d) Assessment and Management of Small Pelagic Stocks of the Philippines	BFAR, WB	Aug 1986-Nov 1988
<b>2. EDUCATION AND TRAINING</b>			
<b>Aquaculture</b>	a) Graduate Study Program in Aquatic Resources (graduate scholarships)	PCARRD	Oct 1979-Oct 1981
	b) Training awards to 10 private tilapia hatchery cooperators who participated in ICLARM's record-keeping project in Laguna and Rizal provinces	BFAR	1983
	c) Training seminar on tilapia culture	BFAR, BAEcon	1983
	d) Supervision of several Master's students in tilapia genetics project	ADB	Continuous from 1988
<b>Capture Fisheries Management</b>	a) Supervisor/advisor of M.Sc. theses at UP (11 up to Dec 1993)	UP	Continuous from 1981
	b) Regular lecture courses in Management of Aquatic Resources at UP	UP	1980/81; 1981/82; 1985/86
	c) Course given on fisheries resources assessment, Ateneo de Manila	PCARRD, ADMU, BFAR	3-15 May 1982
	d) Course given on fish population dynamics at SU	SU	Jun 1982
	e) Training in milkfish economics for extension workers	BFAR, BAEcon, UNDP/FAO	1983
	f) Supervisor/advisor of M.Sc. students at UPV (3 to Dec 1993)	UPVCF	From 1984
	g) Lecturers at FAO/DANIDA national stock assessment course, Manila	FAO, DANIDA	13 Jan-5 Feb 1986
	h) Stock assessment training	GTZ, UP	Oct 1986
	i) Thesis supervision	CRC	1986-1989
	j) Lectures at FAO/DANIDA training course on fish stock assessment	FAO, DANIDA	12 Jan-6 Feb 1987
	k) Training of Small Pelagics project team (18 persons) in taxonomy and data collection	BFAR, WB	19-30 Jan 1987

Area of Activity	Title	Cooperating Institution(s)	Duration
	l) AFSSRN Course on Microcomputers in Research, Philippines	IDRC, FF	29 Jul-4 Aug 1987
	m) Training on stock assessment for BFAR researcher	BFAR	7-21 Nov 1987
	n) Training on data analysis for SU researcher	SU	23-27 Nov 1987
	o) Advisor, M.Sc. student at UPLB	UPLB	1988
	p) Stock assessment training for graduate of MMSU	MMSU	4-19 Apr 1988
	q) Advisor, M.Sc. student at CLSU	CLSU	1989
	r) Stock assessment training for Bicol University researcher		5-30 Jun 1989
	s) Provided Biostatistics course for UPMSI, second semester 1989	UPMSI	Jun-Oct 1989
	t) Course on Principles of Bioeconomic Analysis for Philippine AFSSRN members	IDRC, UPV, UPLB, CLSU, BFAR, SEAFDEC	5-7 Nov 1990
	u) Course provided on stock assessment at Mindanao State University, Philippines	MSU	7-12 Dec 1992
	v) Two lecturers over 6 days on stock assessment for Silliman University, Dumaguete	SU	Oct 1993
<b>Information</b>	a) Training on indexing, retrieval, computerized bibliographic databases, online searching, etc.	UST AMA STI UPMSI PSBA	6 Apr-29 May 1987 11 Aug-27 Nov 1987 1 Sep-30 Oct 1987 11-13 Nov 1987 21 Dec 1987-31 Mar 1988
		FAO/UNDP TLRC FEU	7-18 Nov 1988 21-25 Nov 1988 29 Mar-12 May 1989
	b) Training for PCAMRD information specialist	PCAMRD	9-20 Nov 1992
	c) Lecturer at Course on Training in Technical Writing in Fisheries	CLSU, PDA	30 Apr-1 May 1993
<b>Coastal Area Management</b>	a) In-house training of three (3) NEDA Regional Office I Staff	IDRC, NEDA	26 Feb-13 Mar 1992
	b) Training for NEDA staff on use of Geographic Information Systems (GIS) and SPANS software, Manila	IDRC, NEDA	26 Feb-13 Mar 1992
	c) Lectures by consultant for NEDA staff on GIS	IDRC, NEDA	28 Feb-5 Mar 1993; 27 Jun-3 Jul 1993
	d) Training course on Assessment of Coastal Habitats	PDA, BUCF	4-27 Oct 1993

Area of Activity	Title	Cooperating Institution(s)	Duration
	e) Training course on Fish Stock Assessment	PDA, BUCF	15-26 Nov 1993
	f) Training Course on the Use of GIS for Regional Planning in the Coastal Zone, La Union	IDRC, NEDA	19-24 Jan 1994

### 3. CONFERENCES AND WORKSHOPS

<b>Aquaculture</b>	a) Economics of the Philippine Tilapia Industry	PCARRD, PPI, SMC	10-13 Aug 1983
	b) Tilapia Genetics and Culture	PCARRD, CLSU	20-22 Jun 1985
	c) Golden Snail ( <i>Pomarea</i> sp.). A Pest in Rice Farming Systems	CLSU, IRRI	8-9 Nov 1989
	d) National Workshop on Geographic Information Systems (GIS) for Coastal Area Management and Planning, La Union	IDRC, NEDA	13-15 Dec 1993
<b>Coastal Area Management</b>	a) Workshop on the Assessment of the Coastal Profile of Lingayen Gulf	UPMSI	5-7 Dec 1986
	b) ASEAN/US CRMP Technical Workshop	UPMSI, UPCSWCD, UPVCF, BFAR	16-18 Dec 1987
	c) Workshop on Sustainable Development of the Coastal Resources of Lingayen Gulf, Philippines	UPMSI, UPCSWCD, UPVCF, BFAR and NEDA Region I	25-27 May 1988
	d) Orientation Conference of Lingayen Gulf Coastal Mayors	NEDA, Region I	18 Jan 1989
	e) Action Planning Workshop	NEDA, Region I	10-12 Aug 1989
<b>Capture Fisheries Management</b>	AFSSRN Workshop on Methods for Fisheries Socioeconomics Research	IDRC	7-9 Dec 1992
<b>Information</b>	National Workshop on Fishery Information and Statistics	SIFR	31 Aug 1993

### 4. ADVISORY SERVICES

<b>Aquaculture</b>	a) Case study on aquaculture economics for Asian countries	EDI	1980
	b) Prepared review of economics of the Milkfish Resource Systems, Philippines	UNU	1980-1981
	c) Assessment of the potential for mullet production along the northern coast of Luzon	BFAR, CIADP	1981
	d) Assistance in demonstration and extension activities on integrated animal-fish farming	IIRR	1981

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	e) Worked with an inter-agency research group in Northern Luzon on attempts to breed the migratory mullet, <i>Cestraeus plicatilis</i>	CIADP, AIOT, BFAR	1982
	f) Provided consultant to USAID on the impact of water abstraction from Lake Buhí, Bicol Region on the culture and capture fisheries in the lake	USAID, Philippines	1983
	g) Assistance to Philippine government on aquaculture development needs and options	PDA, NEDA	1989
<b>Capture Fisheries Management</b>	a) A study of the Philippine fisheries sector	USAID, Philippines	1977
	b) Review of a fisheries development project for NEDA and preparation of a set of recommendations for improvement of the project for the BFAR Regional Office in Cebu	NEDA/BFAR	1981
	c) Planning of USAID activities in coastal zone management for a seminar and subsequent follow-up program	USAID, Philippines	1981
	d) Assisted with design and implementation of fisheries socioeconomic surveys	SU, UNC	1982
	e) Consultation to a proposed project to introduce gasifiers and ice-making plants in remote Philippine tilapia-producing communities	USAID, FSDC	1983
	f) Assessment of the status of the Philippine fishery resources	USAID, Philippines	1984
	g) Assistance in developing stock assessment component of Rain-fed Resource Development Project	USAID	Sep-Nov 1985

### SIERRA LEONE

#### 1. COOPERATIVE RESEARCH

<b>Capture Fisheries Management</b>	Establishment of a Fisheries Database for the Development and Management of the National Fisheries of Sierra Leone	CEC, IMBO, SLFD, WNW-AFCOD	Apr 1991-May 1994
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#### 2. EDUCATION AND TRAINING

<b>Capture Fisheries Management</b>	a) Lectures at IMBO and supervision of 3 B.Sc. and 1 Ph.D. level theses	CEC, IMBO	Continuous in 1993
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<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	b) Formal and on-the-job training in computer use for 20 staff of IMBO, WNW-AFCOD and SLFD	IMBO, WNW-AFCOD, SLFD, CEC	Continuous in 1993
	c) Course on fish population dynamics for 21 scientists of IMBO, SLFD and Fourah Bay College	CEC, IMBO, SLFD	28 Jan-3 Feb 1993

### SINGAPORE

#### 1. COOPERATIVE RESEARCH

<b>Coastal Area Management</b>	ASEAN/US Coastal Resources Management Project	SCOS, NUS, SPPD	1986-1992
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#### 2. CONFERENCES AND WORKSHOPS

<b>Coastal Area Management</b>	a) First National Workshop on Coastal Resources Management	SCOS, NUS, PPD	28 Oct 1986
	b) Second National Workshop on Urban Coastal Area Management	NUS, SCOS, PPD	8-11 Nov 1989

#### 3. EDUCATION AND TRAINING

<b>Coastal Area Management</b>	Training Course on Methods for Economic Analysis in Coastal Area Management	NUS, SCOS, USAID	4-14 Nov 1987
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### SOLOMON ISLANDS

#### 1. COOPERATIVE RESEARCH

<b>Aquaculture</b>	Giant Clam Hatchery and Coastal Aquaculture Centre	MLENR, ODA, AIDAB, SF, APSF	Continuous from 1986
<b>Capture Fisheries Management</b>	Skipjack and Traditional Fisheries: a Solomon Islands Case Study	RF	Nov 1978-Oct 1980

#### 2. EDUCATION AND TRAINING

<b>Aquaculture</b>	a) Officer of the GSI Fisheries Divisions received training in village-based giant clam farming	GSI	from mid-1993
	b) Officer of Marine School of the Solomon Islands College for Higher Education trained in giant clam farming and marketing		Sep-Dec 1993
	c) Two one-week training courses for participants in village growout trials for giant clams	USPC	Sep 1993
	d) Workshop to train 38 field officers of SIDT on value of coral reef animals	SIDT	Dec 1993

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>SRI LANKA</b>			
1. EDUCATION AND TRAINING			
<b>Information</b>	Fisheries information management for a librarian, Manila	NARA	3 Feb-13 Mar 1987
<b>Capture Fisheries Management</b>	Stock assessment training for researcher from NARA, Manila	NARA	12 Feb-9 Mar 1990
2. ADVISORY SERVICES			
<b>Aquaculture</b>	Evaluation of potential for giant clam culture	NARA	1984
<b>Coastal Area Management</b>	a) Three-person team to develop a research framework for managing Puttalan Lagoon	SAREC	3 weeks, Mar 1991
	b) Review of SAREC-sponsored coastal research in Sri Lanka	SAREC, NARA	6-12 Sep 1992
<b>TAIWAN, CHINA</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	a) Production and Marketing of Milkfish in Taiwan	NCHU	Jun 1980-May 1981
	b) Evaluation of Mariculture Potential of Tilapia	CAPD	May 1981-Jun 1982
	c) Economic Analysis of the Tilapia Industry of Taiwan	NCHU	Jul 1982-Jun 1983
	d) Cooperative Tilapia Research Project	CAPD, NSYSU	Jul 1982-Jun 1985
	e) Controlled Reproduction and Mass Fry Production of Commercially Important Fishes	CAPD	Jul 1982-Jul 1985
<b>THAILAND</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	a) Catfish Production Economics	KU	Aug 1979-Dec 1980
	b) Applied Research on Coastal Aquaculture	DOFT, GTZ	Dec 1981-Nov 1985
	c) Economics of Snakehead Fish Culture in Thailand	NIFI	Mar 1982-Dec 1984
	d) Food Webs in Waste-fed Aquaculture	AIT, RF	Oct 1983-Oct 1985
	e) Marketing Systems of Shellfish Products	KU, DOFT, GTZ, IDRC	Aug 1983-Jul 1984

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
	f) Economics of Shellfish Processing in Thailand	KU, DOFT, IDRC	Oct 1983-Sep 1984
<b>Capture Fisheries Management</b>	a) Preliminary Studies on Biomass Production in the Gulf of Thailand	DMSCU, AIT	Oct 1983-Sep 1985
	b) Growth Studies on Cultured Marine Bivalves of Thailand	DMSCU, GTZ	Dec 1985-May 1987
<b>Coastal Area Management</b>	ASEAN/US Coastal Resources Management Project	ONEB, DOFT, NIDA, RFDT, DLD, KU, CU, MU	1986-1992
2. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	a) Development of graduate courses in marine physiology at Chulalongkorn University	UNESCO/UNDP	Jun 1980; March, May 1981
	b) Review of the fisheries of Thailand and assessment of potential harvests and the potential of artificial reefs	ADB	1984
<b>Aquaculture</b>	Assistance to the Fisheries Economics Subsection, Dept. of Fisheries on issues relating to fisheries and aquaculture economics	DOFT	1983-1985
3. CONFERENCES AND WORKSHOPS			
<b>Capture Fisheries Management</b>	a) AFSSRN Workshop on Aquaculture Economics Research Methods	IDRC, FF	6-10 May 1985
	b) AFSSRN workshop to integrate research findings in Pak Phanang Bay	IDRC	6-9 May 1992
<b>Coastal Area Management</b>	a) National Workshop on Coastal Resource Management Strategies and Planning for the Upper South	ONEB	11-12 Apr 1988
	b) Workshop on CRMP Project Environmental Profile and Proposal Refinement	ONEB	15-17 Oct 1986
4. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Lectures at the joint FAO Regional Training Course on Stock Assessment and Fishery Statistics	FAO	Sep 1981
	b) AFSSRN Course on Introduction to Microcomputers	IDRC, FF	11-22 May 1987
	c) AFSSRN Course on Microcomputers in Research	IDRC, FF	22-27 Jun 1987
	d) Stock assessment training for DOFT researcher	GTZ	3-17 Apr 1988
	e) AFSSRN Course on Fisheries Management Research	IDRC, FF	6-20 Nov 1988
	f) Stock assessment training for DOFT researcher	USAID, DOFT	5-30 Nov 1990

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>Coastal Area Management</b>	Principles of Coastal Resources Management, (1st session)	USAID/ONEB	2-13 Mar 1987
<b>TONGA</b>			
1. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	a) Implementation of a cost-effective stock assessment system	GOT	Sep 1987
	b) Evaluation of inshore reef fishery assessment and monitoring project	GOT	1989
<b>UGANDA</b>			
1. COOPERATIVE RESEARCH			
<b>Capture Fisheries Management</b>	Ecology and fishery of Lake Victoria	UFFRO, CEC	1988-ongoing
2. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	Stock assessment training for researcher from UFFRO	UFFRO, CEC	16 Apr-16 Jun 1988
<b>USA</b>			
1. COOPERATIVE RESEARCH			
<b>Aquaculture</b>	Development of a Seed Production System for <i>Mugil cephalus</i>	OI	Jan 1976-Apr 1977
2. EDUCATION AND TRAINING			
<b>Capture Fisheries Management</b>	a) Stock assessment training for UH student	UH	14 Oct-14 Nov 1987
	b) Training course on stock assessment for Caribbean Fisheries Management Council for US dependencies, Puerto Rico	CFMC, PRFD	30 Jul-1 Aug 1990
3. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	Assessment of the sustainable yields for the neritic fisheries of Puerto Rico and US Virgin Islands	CFMC	1984
<b>Aquaculture</b>	Managing global genetic resources, fish and shellfish	NAS	1988

<b>Area of Activity</b>	<b>Title</b>	<b>Cooperating Institution(s)</b>	<b>Duration</b>
<b>VANUATU</b>			
1. EDUCATION AND TRAINING			
<b>Aquaculture</b>	a) Volunteer trainee in village-based giant clam and pearl oyster farming		Dec 1993-May 1994
<b>VIETNAM</b>			
1. EDUCATION AND TRAINING			
<b>Aquaculture</b>	a) Training of two Vietnamese scientists from the Research Institute for Aquaculture No. 1, in tilapia genetics at ICLARM	FAO	10-26 Nov 1990
	b) Two staff gave training and advisory services on field research methods at the Mekong Delta Farming Systems Research and Development Centre, CTUV	CTUV	1991
	c) Scientists from Can Tho University studied ICLARM software and field research methods	IDRC	17 Feb-5 May 1992
	d) Training at HQ on use of ICLARM's RESTORE framework for two scientists from Mekong Delta Farming Systems Research and Development Center, CTUV	MDFSRDC, CTUV	1 Feb-2 Mar 1993
2. ADVISORY SERVICES			
<b>Capture Fisheries Management</b>	Assistance in formulating project on strengthening aquaculture in	IAC southern Vietnam	Sep, Oct, Nov 1993
<b>ZAMBIA</b>			
1. COOPERATIVE RESEARCH			
<b>Capture Fisheries Management</b>	Population dynamics of lake fish	ZDF	1984-1986



**INTERNATIONAL CENTER FOR LIVING AQUATIC  
RESOURCES MANAGEMENT**

The International Center for Living Aquatic Resources Management (ICLARM) is an autonomous, nongovernmental, nonprofit, international scientific and technical center which has been organized to conduct, stimulate and accelerate research on all aspects of fisheries and other living aquatic resources.

The Center was incorporated in Manila in March 1977. It became a member of the Consultative Group on International Agricultural Research (CGIAR) in May 1992.

ICLARM is an operational organization, not a granting entity. Its program of work is aimed to resolve critical, technical and socioeconomic constraints to increased production, improved resource management and equitable distribution of benefits in economically developing countries. The Center's work focuses in tropical developing countries on three resource systems -- inland aquatic (mainly ponds and rice floodwaters), coastal and coral reef -- in which research is carried out on their dynamics, on investigating alternative management schemes, and on improving the productivity of key species. The work includes cooperative research with institutions in developing countries, and supporting activities in information and training. The programs of ICLARM are supported by a number of private foundations and governments.

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