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Directory  
of the  
Network of Tropical  
Aquaculture Scientists

Compiled by  
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## The Network of Tropical Aquaculture Scientists

ICLARM launched the Network of Tropical Aquaculture Scientists (NTAS) in July 1987 as an information network for individual scientists working on tropical aquaculture; especially those engaged on genetics, integrated agriculture-aquaculture farming systems and coastal aquaculture of tropical molluscs. Research scientists whose major work are in these fields are invited to join the Network. The NTAS provides a mechanism for exchange of research results and ideas among its members through correspondence and through its newsletter, *Aquabyte*: formerly a separate publication and incorporated in *Naga*, the *ICLARM Quarterly* from 1992.

Services of the Network also include assistance in information exchange and database searches, research

methods, data analysis and interpretation, and providing selective literature relevant to members' fields(s) of work. Membership of NTAS is free. Members also are listed in the free mailing list of *Naga*. The only expectation from members is that they should be willing to discuss their work and respond to enquires from fellow scientists.

All correspondence including applications for membership (with a brief outline of scientific background, any scientific publications and current research program) and contributions to *Aquabyte/Naga* should be sent to the NTAS Secretary, ICLARM, MCPO Box 2631, 0718 Makati, Metro Manila, Philippines.

## Preface

This is the first full directory of the Network of Tropical Aquaculture Scientists (NTAS) published since the Network was established in 1987. The contents of this directory were culled from the responses of a questionnaire which was sent out to 579 members in April 1992. This directory comprises a list of those questionnaire respondents who wish to continue their membership plus newly enrolled members up to 30 May 1993. It also includes a detailed description of research interests, based on 90 descriptors provided in the questionnaire plus 15 descriptors given by members (Appendix 1).

Section I of this directory lists members in alphabetical order with their addresses and contact numbers (telephone, fax, telex and e-mail, if available) and their major and minor fields of research interests. Each member has been assigned a number which will be used in Sections II, III, IV, and V, where members are indexed by country, by institution, and by major and minor fields of research interests, respectively. To save space, international institutions in addresses were abbreviated, and telephone and fax numbers did not include the country and area/city codes. Instead, we

are providing separate lists of international institutional acronyms and country and area/city codes in Appendices 2 and 3, respectively.

This is the sixth year of the NTAS. The success of the Network, with its 472 members in 78 countries (Appendices 4 and 5) and with a regular publication of its newsletter has been due to the support of its members, which we would like to acknowledge with thanks. We hope that this directory will help members to identify their common interests, to enhance communication and to stimulate greater awareness among members concerning their research activities.

This directory was compiled with the hardworking assistance of the following ICLARM staff: Farlyz Villanueva (data programming), Teresita Lopez and Ma. Lucia Tungala (data management), and Christopher Bunao and Albert Contemprate for artwork and layout. We extend to them our grateful thanks.

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Manila, 1993

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Minor: hatchery technology, pens, taxonomy
- 435 Mr. Jan Michael Vakily**  
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Minor: brackishwater aquaculture, computer methods
- 436 Mr. Anne van Dam**  
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Major: bioenergetics, modeling, pond dynamics  
Minor: ecophysiology, foodchains, growth
- 437 Mr. Frans van den Berg**  
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Major: extension, freshwater aquaculture,  
integrated farming systems
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Major: foodchains, reservoirs, tilapias
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Minor: integrated farming systems, production  
systems, rice-fish farming systems, stock assessment,  
waste-fed
- 440 Mr. Jozef J.G. van der Zanden**  
Project Coordinator  
Institute of Animal Breeding and Genetics  
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research, marine aquaculture  
Minor: cages, catfishes, crustaceans
- 441 Dr. Charles van Hove**  
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systems, reproductive physiology

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integrated farming systems

Minor: carps, catfishes, tilapias

**444 Dr. Tharayil J. Varghese**

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Minor: brackishwater aquaculture, hatchery  
technology, marine aquaculture

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Minor: computer methods, engineering, statistics

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Minor: freshwater aquaculture, tilapias

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tilapias

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Minor: environmental impact, pesticides

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Minor: freshwater aquaculture, marine aquaculture,  
tilapias

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Minor: computer methods, detritus, integrated farming  
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Minor: fishery management

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lagoons

Minor: ecology, pollution, reservoirs

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### Congo

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### Côte d'Ivoire

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Institut de Savanes 103, 222, 290, 466

### Cuba

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### Denmark

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### Egypt

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### France

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agronomique pour le développement 234  
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### Germany

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- Japan**  
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**Philippines**

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**Saudi Arabia**

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**Sénégal**

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**Singapore**

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**Sri Lanka**

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**St. Lucia**

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**Tanzania**

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**Thailand**

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 National Inland Fisheries Institute 197  
 Trang Coastal Aquaculture Station 376

**Tonga**

Ministry of Fisheries 128

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 Anthony Farmer & Associates 133  
 British Columbia Packers Ltd. 306  
 International Institute of Parasitology 217  
 National History Museum 247  
 Natural Resources Institute 453  
 The University of Buckingham 388  
 University College of Swansea 065  
 University of Hull 064, 091  
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# APPENDIX 1

## Descriptors for NTAS Members\*

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02	biochemistry	37	genetics	72	resource economics
03	bioenergetics	38	giant clams	73	rice-fish farming systems
04	biotechnology	39	growth	74	rural sociology
05	bivalves	40	habitat restoration	75	seaweeds
06	brackishwater aquaculture	41	hatchery technology	76	seed production
07	broodstock	42	immunology	77	site selection
08	cages	43	induced spawning	78	socioeconomics
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16	curriculum development	51	microbiology	86	waste-fed
17	depuration	52	milkfish	87	wastewater (sewage) reuse
18	detritus	53	modeling	88	water quality
19	development	54	nutrition	89	water systems
20	diseases	55	parasites	90	zooplankton
21	ecology	56	pathology	91	biodiversity
22	economics	57	pens	92	business development
23	ecophysiology	58	pesticides	93	DNA fingerprinting
24	endocrinology	59	physiology	94	fisheries enhancement
25	engineering	60	phytoplankton	95	fisheries management
26	environmental impact	61	policy	96	freshwater prawns
27	environmental studies	62	pollution	97	integrated pest management
28	equipment	63	pond dynamics	98	pearl culture
29	farming management	64	pond management	99	plankton
30	extension	65	population genetics	100	population dynamics
31	farming systems research	66	post-harvest technology	101	predators
32	feed technology	67	production systems	102	reproductive biology
33	finfish	68	public health	103	river fisheries
34	foodchains	69	quantitative genetics	104	shrimps
35	freshwater aquaculture	70	reproductive physiology	105	species introduction

\*Descriptors 01-90 were provided in the NTAS questionnaire; descriptors 91-105 were given by members.

## **APPENDIX 2**

### **Acronyms of International Institutions**

<b>AIT</b>	Asian Institute of Technology
<b>AADCP</b>	Aquaculture Development and Coordination Programme
<b>ASEAN</b>	Association of South East Asian Nations
<b>CIDA</b>	Canadian International Development Agency
<b>DANIDA</b>	Danish International Development Agency
<b>EEC</b>	European Economic Community
<b>FAO</b>	Food and Agriculture Organization of the United Nations
<b>GTZ</b>	Deutsche Gesellschaft für Technische Zusammenarbeit, GmbH
<b>ICLARM</b>	International Center for Living Aquatic Resources Management
<b>IDRC</b>	International Development Research Centre of Canada
<b>IIRR</b>	International Institute of Rural Reconstruction
<b>SEAFDEC</b>	Southeast Asian Fisheries Development Center
<b>UNDP</b>	United Nations Development Programme



## APPENDIX 3

### Country and Area/City Codes

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE	COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Argentina	54	San Antonio Oeste	934			Georgetown	416
Australia	61	Brisbane	7			Halifax	902
		Cairns <sup>a</sup>				Hull	819
		Darwin	89			Montréal	514
		Deception Bay <sup>a</sup>				Ottawa	613
		Launceston <sup>a</sup>				Québec	418
		Melbourne	3				
		Tasmania	2				
		Townsville	77				
		Walkamin <sup>a</sup>		Chile	56	Iquique	57
		Warmambool <sup>a</sup>				Osorno	64
						Valdivia	63
Bangladesh	880	Chandpur	841	China	86	Beijing	1
		Dhaka	2			Guangzhou	20
		Jessore	421			Qingdao	532
		Mymensingh	91			Shanghai	21
		Rangamati	351			Wuhan	27
						Wuxi	510
Belgium	32	Brussels	2	Colombia	57	Pasto Nariño	30
		Ghent	91	Cook Islands <sup>b</sup>	682		
		Louvain-la-Neuve	10	Costa Rica <sup>b</sup>	506		
		Namur	81	Côte d'Ivoire <sup>b</sup>	225		
		Tervuren <sup>a</sup>		Cuba	53	Havana	7
Brazil	55	San Paulo	11	Cyprus	357	Limassol	51
Brunei	673	Gadong <sup>a</sup>		Denmark	45	Århus C <sup>a</sup>	
Burkina Faso <sup>b</sup>	226			Ecuador	593	Guayaquil	4
Cambodia <sup>a</sup>				Egypt	20	Cairo	2
Cameroon <sup>b</sup>	237					Muscat <sup>a</sup>	
Canada	1	British Columbia	604				
		Fredericton	506				

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE	COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Ethiopia <sup>b</sup>	251					Semarang	24
Fiji <sup>b</sup>	679					Sumedang	22
France	33	Cedex <sup>a</sup>		Israel	972	Bet Dagan	3
		Port-en-Bessin-Huppain <sup>a</sup>				Gan Samuel	6
		Toulouse	61			Hof Hacarmel	6
						Tel Aviv	3
Gambia <sup>b</sup>	220			Italy	39	Rome	6
Germany	49	Bad Homburg	6172	Japan	81	Hyogo-ken	798
		Berlin	30			Ibaraki	298
		Göttingen	551			Kochi	888
		Humburg	40			Okinawa	980
		Neu-Isenburg	6102	Kenya <sup>b</sup>	254		
Ghana	233	Accra	21	Kuwait <sup>b</sup>	965		
		Kumasi	51	Madagascar	261	Antsirabe <sup>a</sup>	
Greece	30	Athens	1	Malaŵi	265	Domasi <sup>a</sup>	
Guatemala	502	Zona 10 <sup>a</sup>				Lilongwe <sup>a</sup>	
India	91	Bangalore	812			Mzuzu <sup>a</sup>	
		Bombay	22			Zomba	50
		Cochin	484	Malaysia	60	Kuala Lumpur	3
		Karnataka	824			Melaka	6
		Kerala State	491			Penang	4
		Kharagpur <sup>a</sup>				Sabah	88
		Kochi <sup>a</sup>				Selangor	3
		Madras	44	Mauritius <sup>b</sup>	230		
		Madurai	452	Mexico	52	Baja California Sur <sup>a</sup>	
		Neilore <sup>a</sup>				Codigo Postal <sup>a</sup>	
		New Delhi	11			Jalisco	36
		Orissa <sup>a</sup>				Lomas de Chapullepec <sup>a</sup>	
		PO Calicut-5 <sup>a</sup>				Michoacan <sup>a</sup>	
		Pune <sup>a</sup>		Micronesia	691	Pohnpei <sup>a</sup>	
		Ramanathapuram District	457			Yap	350
		Sriniketan <sup>a</sup>		Morocco	212	Rabat	7
		Tamil Nadu <sup>a</sup>		Mozambique	258	Maputo	21
		Tuticorin <sup>a</sup>		Myanmar	95	Yangon	1
Indonesia	62	Ambon	911				
		Bogor	251				
		Jatinangor <sup>a</sup>					
		Manado	431				
		Mataram	364				
		Padang SumBar	751				
		Selatan	411				

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE	COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Netherlands, The	31	AH Wageningen	8370	Sri Lanka	94	Colombo	1
New Caledonia <sup>a</sup>						Kelaniya <sup>a</sup>	41
New Zealand	64	Wellington	4			Matara	
Nicaragua	505	Managua	2			Peradeniya <sup>a</sup>	
Nigeria	234	Abgokuta	39	St. Lucia	1	Vieux Fort	809
		Calabar	87	Sudan <sup>a</sup>			
		Ibadan	22	Taiwan <sup>d</sup>	886	Pingtung	8
		Ilorin	31	Tanzania <sup>b</sup>	255		
		Lagos	1	Thailand	66	Bangkok	2
Norway	47	Ås	9			Changmai	53
		Bergen	5			Sawan	56
		Matredal	5			Songkhla	74
Pakistan	92	Lahore <sup>a</sup>				Trang	75
		Thatta <sup>a</sup>		Tonga <sup>b</sup>	676		
Panama <sup>b</sup>	507			Tunisia	216	Sousse	3
Papau New Guinea <sup>b</sup>	675			USA	1	Atlanta	404
Perú	51	La Molina	414			Austin	512
		Lima	14			Blacksburg	703
Philippines	63	Albay <sup>a</sup>				Bodega Bay	707
		Catanduanes <sup>a</sup>				Carbondale	618
		Cebu	32			Davis	916
		Ilocos Norte <sup>a</sup>				Guam	671
		Iloilo	33			Hawaii	808
		Makati	2			Houston	713
		Manila	2			Kingston <sup>a</sup>	
		Nueva Ecija <sup>c</sup>	902			Muscle Shoals	205
		Quezon City	2			Michigan	517
		Rizal <sup>a</sup>				Norman	405
Saudi Arabia	966	Riyadh	1			Richmond <sup>a</sup>	
Sénégal <sup>b</sup>	221					San Diego	619
Singapore <sup>b</sup>	65					Seattle	206
Solomon Islands <sup>b</sup>	677					St. Petersburg	813
Spain	34	Malaga	52			Toledo	419
						Vero Beach	407
						Washington	202
				UK	44	Buckingham	280
						Chatham	634
						Denbigh <sup>a</sup>	
						Dorset <sup>a</sup>	

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
		Dorchester <sup>a</sup>	
		London	71
		Hull <sup>a</sup>	
		Perthshire	796
		Stirling	786
		St. Albans <sup>a</sup>	
USSR	7	St. Petersburg <sup>a</sup>	
Venezuela	58	Cumana	93

COUNTRY	COUNTRY CODE	AREA/CITY	AREA/CITY CODE
Vietnam	84	Cantho	71
		Ha Bac	42
		Hochi Minh City <sup>a</sup>	
Zimbabwe	263	Harare	4
		Kariba	61

<sup>a</sup>Check your local operator.

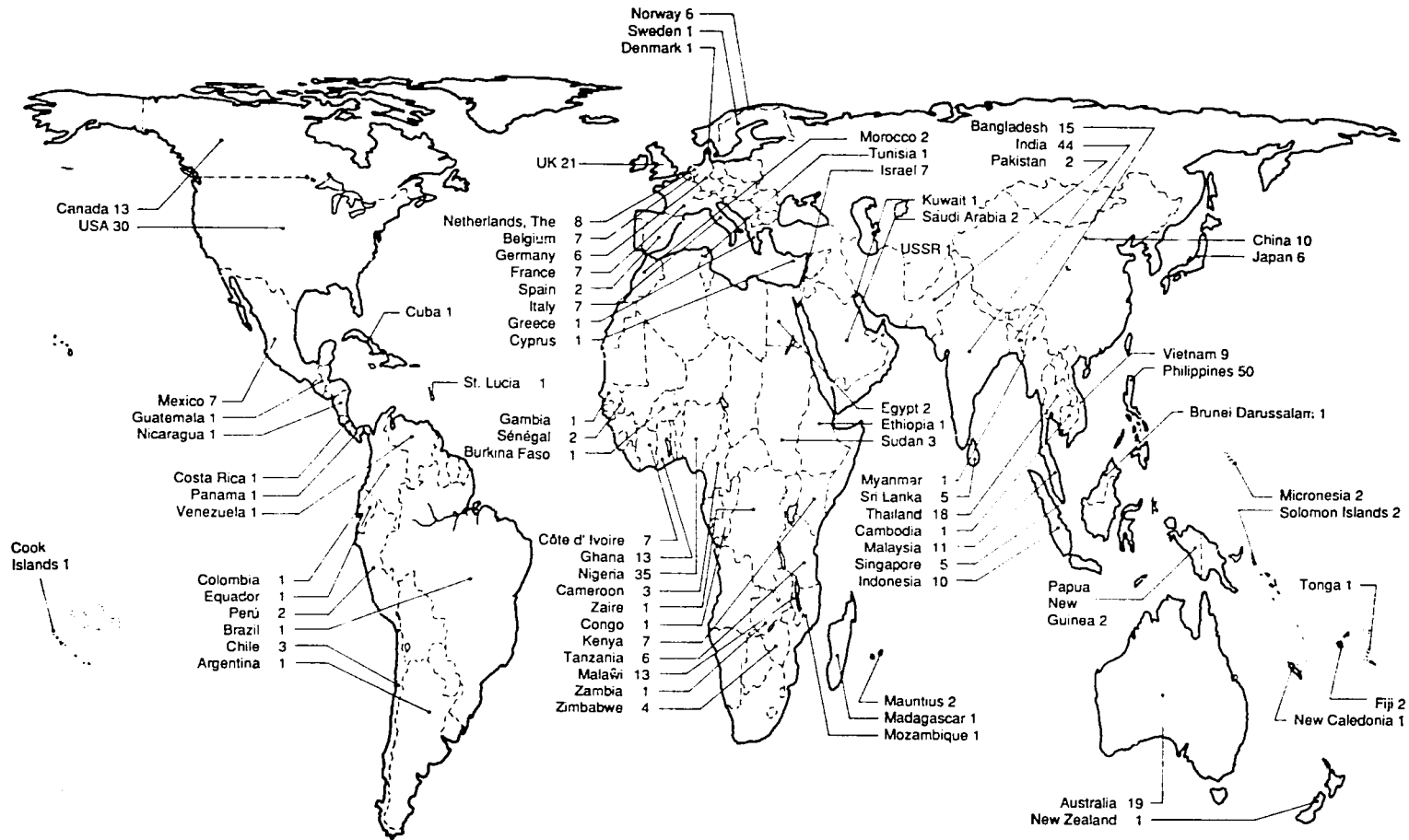
<sup>b</sup>Area/City code not needed.

<sup>c</sup>All entries for Nueva Ecija, Philippines are cellular phones.

<sup>d</sup>Separate country for communication codes but merged under China in all country listings.

# APPENDIX 4

## Map of NTAS Members



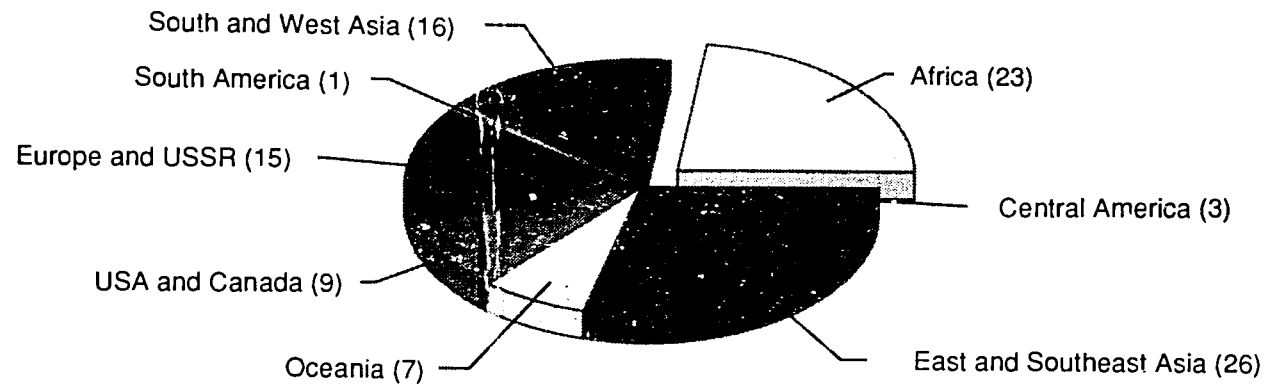
## APPENDIX 5

### Regional Distribution of NTAS Members

#### A. Regional Subtotals

Region	Number of members	countries
East and West Asia	122	8
Africa	108	11
South and West Asia	77	22
Europe and USSR	71	13
USA and Canada	43	3
Oceania	31	9
Central America	13	7
South America	7	5

#### B. Regional Distribution of Membership (%)





**International Center for Living Aquatic  
Resources Management**

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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 for 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.

Policies are set by a Board of Trustees with members drawn from the international community. Direction at ICLARM, under the policies set by the Board, is the responsibility of the Director General.