

PIMRIS NEWSLETTER

Pacific Islands Marine Resources Information System
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**PACIFIC ISLANDS
MARINE RESOURCES
INFORMATION SYSTEM**

PIMRIS is a joint project of the South Pacific Applied Geoscience Commission(SOPAC), the Forum Fisheries Agency(FFA), South Pacific Commission(SPC) and The University of the South Pacific(USP) funded by Canadian International Development Agency. The SPC component is funded by the Government of France. South Pacific Regional Environment Programme(SPREP) is also another cooperating institution.

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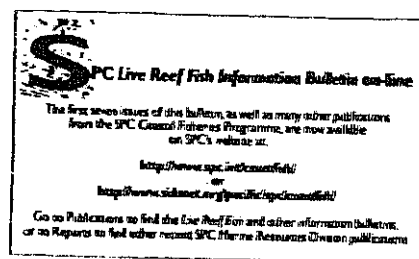
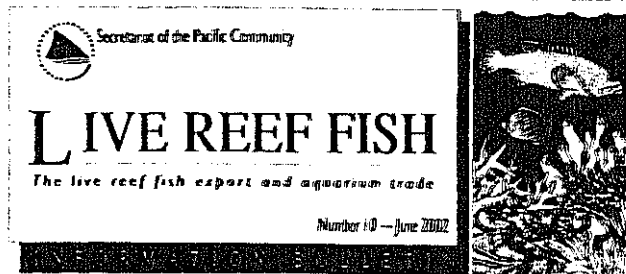
(Views expressed in the articles are not necessarily those of the institutions cooperating in the PIMRIS Network)

FROM THE PIMRIS DESK.....

The year 2002 passed successfully with users seeking assistance at PIMRIS Coordination Unit and PIMRIS cooperating partners. The 2002 annual account of activities of the Unit is presented in this issue. The issue also provides some recent information releases and announcements:

- Abalone Reference Guide" [CDROM format;
- Recent fisheries publication from FAO of the UN;
- Regional publication from SPC special Interests Groups.

*Ganeshan Rao
PIMRIS Coordinator*



REQUEST

This is a request to you to deposit copies of any of your publications (published or unpublished - reports, research papers, technical papers, etc.) with PIMRIS. The annual reports are especially important. The items will be added to the Pacific Collection of USP Library. PIMRIS has been continuously soliciting for documents (published or unpublished) on Marine Resources (living as well as non-living), specific to the Pacific Island countries. This is essential in order to create a centralised location in the Region where most of the marine related documents could be found.

PIMRIS COORDINATION UNIT

2002 ANNUAL REPORT

Introduction

PIMRIS is a regional marine information network of the Pacific Island countries' fisheries departments and South Pacific regional organisations (Secretariat of Pacific Community (SPC)), South Pacific Applied Geoscience Commission (SOPAC), Forum Fisheries Agency (FFA), South Pacific Regional Environmental Programme (SPREP), and The University of the South Pacific (USP)) to facilitate marine information dissemination and sharing.

Information Requests at PIMRIS Coordination Unit

The requests included both quick reference and research type reference questions as well as literature searches. This also includes users just using the library (staff and students).

	2002	2002
Type of User		%
Fisheries Officers	90	0.8
Researchers	36	0.3
USP Staff	1406	12.3
USP Students	9890	86.3
Govt. Officers	12	0.11
Schools	3	0.03
Librarians	3	0.03
Others (busi, etc.)	15	0.13
TOTAL	11455 (excludes 721 students for Info Literacy class)	100%

Pacific Is Region	11424	99.7%
Outside Region	31	0.3%

Library Instructions

Library tutorials were conducted for science students of the University on the usage of scientific indexes and abstracts. These included: *Biological Abstracts*, *Aquatic Sciences & Fisheries Abstracts (ASFA)* via Internet and CD-ROM versions, and *Chemical Abstracts*. Instructional sessions were also conducted on the use of reference publications, web-searching, and research skills. The tutorials were organised in liaison with lecturers and the Reader Services of the USP Library. 721 students benefited from specific information literacy sessions coordinated and/or conducted by PIMRIS staff. A specific display was done in PIMRIS to educate users on mutilation.

SEMESTER 1

COURSE	ATTENDANCE
MS111 (PIMRIS Library Orientation)	25 (21/2/02)
MS 305 (Marine Biology) searching skills	48 (2 sessions) (6-7/3/02)

MS312 (Marine Pollution) ""	36 (2 sessions) (6-7/3/02)
SSED Post Graduate Orientation	50 (8/3/02)
SE412 SSED Post-Grad searching/writing skills	45 (28/3/02) (38 P-G; 6 UG; 1 staff)
SPAS Post Graduate Orientation	35 (16 March 02)
BI104 (Biology) (Basic Orientation)	95 (detailed sessions will be held later)
MS211 (Marine Sedimentology)	12 (4/4/02)
BI207 (Invert Bio)	84 (various sessions) - NV
CH301 (Chemistry) Chemical Abstracts	61 (3 sessions) (13-15/3/02)

SEMESTER 2

COURSE	ATTENDANCE
CH102 (intro : all modules of Info Literacy)	10 min lecture (U8) re: Info Lit. Students to sign up during Sem 2 with Reader Services.
PH101 (all modules of Info Literacy)	10min sessions during lab times - week 4. 5 sessions. Students to sign up during Sem 2 with Reader Services.
MS307 (Fisheries Bio) Subject guide & writing	42 (2 hr session) (26/7/02)
MS203 (Fisheries Economics and Management)	26 (2 sessions *13 stud.)(17 &24/7/02)
BI102 (Biology) (Internet & writing Skills)	111 (6 sessions - Internet; 6 sessions - writing) Weeks 3-4
CH301 (Chemistry) Chemical Abstracts	51 (3 sessions) (16/7/02)

Major Activities

- PIMRIS continued its regular activities: running the Resource Centre/Library and Audio-Visual Collection; Publishing Work for PIMRIS & MSP; and providing a regional information service in co-operation with other member libraries.
- **Collection Development.** A sum of \$10,000.00 was committed by the Library towards purchase of marine related publication in order to strengthen the collection. During 2002 a total of 261 items were collected for the PIMRIS collection.

Assistance to Countries.

PNG

The PNG National Fisheries Authority and PNG Fisheries College were provided with in-country technical assistance in marine information management from 28 January to 13 February. Their libraries were organised, library database was setup and staff training was provided.

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Fiji & Samoa

Akosita Seru (Fiji Fisheries) and Ulusapeti Tiitii (Samoa fisheries –sponsored by SPC) for an attachment PIMRIS Co-ordination unit. – 18-29 November. The skills covered during the training included: basic library skills, internet searching, library database development using CDS/ISIS software and networking to facilitate information sharing.

- **PIMRIS WEB PAGE**

As part the main library's web page review project, the PIMRIS page has been updated. This time a number of subject and institutional website links have been created. Special subject guides on marine topics are being developed which will be made available to users in the near future.

- **Photocopying Services**

Marine Studies Programme (MSP) provided a new photocopier while USP Library provides paper and ink for card operated machine – a service similar to that offered in the main USP Library.

- **Inter-Library Loans** – Requests were mainly received from post-graduate students. These were fulfilled mostly through PIMRIS bilateral links with overseas institutions.
- Traveled to Fiji Fisheries twice this year for a day each to train the new library assistant.

REEF FISHES: A Guide to their Identification, Behavior and Captive Care.

Volume 1. by Scott W. Michael, 1998. Item: #32M Price: \$69.95

This is the first of a three-volume set, covering all fish families and species associated with coral reefs. Highlights include as many as 30 individual color photos of a single species to accurately portray its color variation.

Michael's photographs and descriptions make identification easy and his coverage of behavior and habitat make it perfect for students, aquarists, biologists, and scuba divers alike.

It has been added to the website at - www.seachallengers.com as the "Book of the Month". In addition to this new book, we have also added 17 new Natural History titles. These are listed under "New Additions" on our Home Page. Please direct any questions to us at the e-mail below.

David & Diana Behrens
Sea Challengers Natural History Books, Etc.
35 Versailles Court
Danville, CA 94506
925-327-7750 - Voice Mail; 925-736-8982 - FAX
E-mail - david@seachallengers.com

Gender study for tuna management and development in Fiji Islands

ACTIVITY	MEN'S ROLES	WOMEN'S ROLES	IMPLICATIONS/ ISSUES
Harvesting	<p>Company and boat owners and managers (mainly non-Fijian)</p> <p>Business partners</p> <p>Captains and crew on local and foreign vessels</p> <p>Office and administrative staff</p> <p>Shore-based support staff (workshops, freezer workers, maintenance, etc.)</p> <p>Stevedores</p> <p>Artisanal and subsistence fishers</p> <p>Customary fishery owners receiving royalties for bait</p>	<p>Company and boat owners and managers (non-Fijian)</p> <p>Business partners</p> <p>Office and administrative staff</p>	<p>Occupational health and safety</p> <p>Labour regulations</p> <p>Worker awareness of labour rights</p> <p>Job and wage insecurity (contract crew)</p> <p>Lack of training for new recruits</p> <p>Social and health problems (alcohol abuse, HIV/AIDS and STDs, etc.)</p> <p>Family and community stability</p> <p>Costs and benefits of trading semi-subsistence quality of life/standard of living for formal employment</p> <p>Unequal distribution of wealth, lack of investment and employment opportunities for rural people and women</p> <p>Conflict with customary fishery owners over payment for bait fishing rights, and impact on inshore resources used by men and women</p>
Processing	<p>Company owners and managers</p> <p>Cannery and loining plant workers</p> <p>Support staff (cleaners, freezer workers, security, maintenance, etc.)</p> <p>Office and administrative staff</p>	<p>Company owners and managers</p> <p>Cannery and loining plant workers</p> <p>Support staff (cleaners, freezer workers, security, maintenance, etc.)</p> <p>Office and administrative staff</p>	<p>Occupational health and safety</p> <p>Labour regulations, labour reform</p> <p>Worker awareness of labour rights</p> <p>Lack of training and opportunities for promotion</p> <p>Social and health problems (alcohol abuse, HIV/AIDS and STDs etc.)</p> <p>Low pay for jobs predominantly done by women, & unequal pay for women</p> <p>Family and community stability</p> <p>Reproductive health of female workers</p> <p>Child welfare and health</p> <p>Multiple work loads of women</p> <p>Costs and benefits of trading semi-subsistence quality of life/standard of living for formal employment</p> <p>Unequal distribution of wealth, women's involvement restricted to low paid work</p>
Marketing	<p>Marketing fresh tuna</p> <p>Marketing non-export grade tuna and bycatch</p>	<p>Marketing fresh tuna</p> <p>Marketing non-export grade tuna and bycatch</p>	<p>Food safety</p> <p>Sustainable development</p> <p>Food security</p>
Indirect activities	<p>Private and public sector workers linked to fisheries</p> <p>Sex trade workers and procurers</p>	<p>Private and public sector workers linked to fisheries</p> <p>Sex trade workers and procurers</p>	<p>Lack of women involved in fisheries development and management at the decision-making level</p> <p>Risk of STDs and HIV/AIDS for sex workers and families</p> <p>Underage teens involved in sex trade</p> <p>Violence and exploitation</p> <p>Problems arising from the sex trade (health, protection from violence, etc.)</p>

SPC Women in Fisheries Information Bulletin #10 - April 2002

"Abalone Reference Guide" [CDROM format]: is an excellent reference book on abalone biology. The CD contains information on all known abalone species in the world and is useful to anybody working in any field with abalone. There is information on abalone biology, aquaculture, fisheries, marketing, systematics, etc. If it concerns abalone and it happened after 1989, then it is on the CD.

The CD has five sections. These are: 1) research papers with abstracts, 2) patent abstracts from US, Japan, Taiwan, China, Ireland, 3) information on all the known abalone species, 4) information on the proper culture methods with step by step procedures and other information necessary for operating a culture facility, and 5) information on reference books available at bookstores.

For a complete description of the contents and features, please go to:

Kirk Hahn, e-mail: abalone2@earthlink.net. <http://home.earthlink.net/~abalone2/>



Secretariat of the Pacific Community

LIVE REEF FISH

The live reef fish export and aquarium trade

Number 10 - June 2002

INFORMATION BULLETIN



Editor and group coordinators: Bob (R.E.) Johannes, 8 Tyndall Court, Bonnet Hill, Tasmania 7051, Australia. [In Australia phone: 03 62298064; fax: 03 62298066. From overseas phone: +61 1 62298064. fax: +61 1 62298066. E-mail: bobjohn@rcsptspac.net.au] Production: Information Section, Marine Resources Division, SPC, P.O. Box 98848 Noumea Cedex, New Caledonia. [Fax: +687 263818; e-mail: cpinfo@spc.int; http://www.spc.int/ceatfish]. Produced with financial assistance from France.

Editor's mutterings

Blaming the victims

Corruption, as we have pointed out before in this column, can be a huge impediment to cleaning up the live reef fish trade. Indonesia, which Economic Risk Consultancy Ltd (1998) found to be the most corrupt of the twelve Asian countries it considered, has suffered enormously from this problem.

Although the World Bank, Asian Development Bank, International Monetary Fund and many other organisations and individual observers have focused recently on the need for broad policy changes to address corruption in Indonesia, there seems to be little research available on how corruption actually works at the village level.

One recent major national policy change has been the decentralisation of bureaucratic authority. The stated philosophy behind this is that local people are more likely to make political and bureaucratic decisions consistent with their needs, and corruption is less likely to flourish. But if the appropriate local institutions are not in place, or are malfunctioning, this is wishful thinking.

We are pleased to publish here an article by Dr Lauwe (p. 7) that shows how this malfunctioning actually forces villagers to engage in cyanide fishing for live reef fish, even though they do not want to. They are forced into doing so by a system that is corrupt from top to bottom.

Such attenuate studies are few in the corruption literature. In China, for example, about which there are many research publications on corruption, most of the information comes from newspapers! With Dr Lauwe's study we have a rare situation in which a research worker has been in the field observing from close up just how corruption operates.

Inside this issue

- Death in the live reef fish trade by Y. Sudoji p. 1
- The humped wrasse - a threatened fish by Y. Sudoji p. 6
- Who is to blame? Logics of responsibility in the live reef fish trade in Sulawesi, Indonesia by C. Lowe p. 7
- Perspective: The WAR on destructive fishing practices by M. Lohmann p. 12
- Two responses to: The live fish trade on Queensland's Great Barrier Reef: Changes to historical fishing practices by M. Sponzo and L. Squire p. 16
- The status of grouper culture in Southeast Asia by A. Pomeroy et al. p. 22
- SPC Pacific Regional Live Reef Fish Trade Initiative update by B. Keating p. 27
- Spawning aggregation closures for the live reef fish fishery in Solomon Islands by M. Sponzo p. 30
- Reef fish post larvae collector and rearing programs for the aquarium market by Y. Sudoji and M. Sponzo p. 31



Secretariat of the Pacific Community

Women in Fisheries

Number 10 - April 2002

INFORMATION BULLETIN



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Introduction

Welcome to the tenth issue of the *Women in Fisheries* Special Interest Group Bulletin.

This issue reports on the activities of the Community Fisheries Section, and includes an article about the departure of Lyn Lambeth, SPC's Community Fisheries Officer and former coordinator of this bulletin. Section activities include a gender study for tuna management and development in Fiji Islands; participation in the global symposium on women in fisheries held in Kaohsiung, Taiwan in November 2001; a new community-based fisheries management programme in the Marshall Islands; and a New Zealand fisheries training course that specifically targets trainers of women engaged in small-scale, post-harvest fishing activities.

From the region, we have articles and news briefs covering a variety of topics, including an FAO study urging the promotion of sustainable fishing practices, a ban on phosphates designed to save coral reefs in CNMI, the presence of high levels of PCBs in fish from Guam, a ban on scuba fishing in American Samoa, women and sea turtle conservation in Palau, Australian native title and the sea, and more.

From outside the region we include a report on 'Where are the women in fisheries?' and lakes in Karsay waters, fisheries management in the Philippines, a workshop on HIV/AIDS for Malaysian fishing communities, and fishermen replanting mangroves in Malawi.

Encourage you to submit contributions in the forms of articles, technical papers, or news briefs to future issues. Articles need

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Secretariat of the Pacific Community

BECHE-DE-MER

Number 17 - October 2002

INFORMATION BULLETIN



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Editorial

In this issue of the Bulletin, we present several original articles:

Jeff Kinch provides detailed information on the historic, social and economic aspects of a sea cucumber fishery in Papua New Guinea along with its management options (p. 2).

Four papers have been published on operations in the Philippines, the subject of an article by Akamine Jan on page 17.

Peter Fankhauser describes an unusual biological phenomenon, salinity-related atrophy of the viscera in a temperate species, *Parastichopus californicus* (p. 22).

No inventory of the sea cucumbers of Reunion Island, Indian Ocean, had ever been made before the article by Chantal Connard and Perrine Malignon (p. 27). The article also provides information on abundance and population structures for the dominant fringing reef species.

The problems encountered by Mexican fisheries are presented in an article by Alonso Aguilar Izarra and Georgina Ramirez Sobrón on page 33.

Andrew Morgan describes problems related to farming certain sea cucumber species and explains how his work is developing (p. 36); also see previous issues of the Bulletin.

At the end of the Bulletin, you will also find the regular features, such as *Correspondence* (p. 38) and *Abstracts, Publications, Workshops & Meetings* (p. 41), along with the addresses of the new members of our Special Interest Group (p. 43).

Inside this issue

- Overview of the beche-de-mer fishery in Milne Bay Province, Papua New Guinea by J. Kinch p. 2
- Trepang exploitation in the Philippines: Updated information by A. Jan p. 17
- Seasonal visceral atrophy and response to salinity by *Parastichopus californicus* (Stimpson) Osmoregulation by P. Fankhauser p. 22
- Sea cucumbers on La Réunion Island: fringing reefs diversity, distribution, abundance and structure of the populations by C. Connard & P. Malignon p. 27
- Economic reasons, ecological actions and social consequences in the Mexican sea cucumber fishery by AA Izarra & GR Sobrón p. 33
- Hatchery research sheds light on problems in sea cucumber aquaculture by A. Morgan p. 36



Secretariat of the Pacific Community

TRADITIONAL

Marine Resource Management and Knowledge

Number 14 - October 2002

INFORMATION BULLETIN



Group Coordinator and Bulletin Editor: Kenneth Bunkle, Kabauqui 7-24-00, Kita-ku, Kobe-shi, Hyogo-ken 651-0223 Japan. E-mail: kb@kddnet.kobe-u.ac.jp] Production: Information Section, Marine Resources Division, SPC, P.O. Box 98848 Noumea Cedex, New Caledonia. [Fax: +687 263818; E-mail: cpinfo@spc.int] The bulletin is also available at: <http://www.spc.int/ceatfish>. Produced with financial assistance from France.

Editor's note

It is my profoundly sad duty to inform those who have not yet heard that Robert E. Johannes has passed away. Bob died on 4 September 2002, after a long and valiant struggle. All of us miss him deeply, but more than his wife Christa and son Greg. We send them our deepest sympathy.

Many things are being planned in Bob's memory. One is that the next issue of this information bulletin will be devoted to him. Many contributions have been already promised, and we invite all readers who wish to contribute something about Bob to e-mail their contribution to me at kbk-rdd@kwasabi.net.au. Please send it as soon as possible, as we'd like to have the next issue ready by the end of the year.

Bob Johannes contributed greatly to the establishment of this information bulletin, and he was a frequent contributor. So it is fitting that he is an author of two of the three articles in this issue.


In the first, 'Did indigenous conservation ethics exist?', Bob re-addresses one of his strongly held beliefs, that establishing whether a conservation ethic exists in an indigenous culture is a vital first step in determining how to help its people live within their natural resource limits. Some societies understood that their marine resources were limited and introduced appropriate marine conservation measures, whereas others had no need to because their abundant marine resource base always provided harvesting pressure. 'A worldwide survey of relevant literature would show,' Bob suggests, 'that societies that developed conscious conservation practices were usually small and relied on natural resources that were circumscribed and thus easily depleted.' Would somebody kindly undertake this topic as a doctoral dissertation?

Inside this issue

Did indigenous conservation ethics exist? by R.E. Johannes	p. 3
Recent evolution of village-based marine resource management in Vanuatu by F.R. Hickley and R.E. Johannes	p. 8
The importance of ethnographic knowledge to fishery research design and management in the South Pacific: A case study from Kolombangara Island, Solomon Islands by A. Sabelko	p. 22
Community policing in the Portland Bight Protected Area, Jamaica by Peter Espina	p. 34



Secretariat of the Pacific Community



BECHE-DE-MER

INFORMATION BULLETIN

Number 16 — April 2002

Editor and group coordinator: Chantal Cenand, Université de La Réunion, Laboratoire de biologie marine, 97715 Saint-Denis Cedex, La Réunion. France. J.Fax: +262 938 166. E-mail: Chantal.Cenand@niclos.univ-reunion.fr.
Production/Impression Section, Marine Resources Division, SPC, P.O. Box 98848 Noumea Cedex, New Caledonia. Fax: +687 263818. E-mail: cfm0106@spc.int. Website: <http://www.spc.int/coastfish/>. Produced with financial assistance from France.

EDITORIAL

Welcome to the 16th issue of the Bulletin. In this issue, Steve Purcell et al present the three-year ICLARM project on Optimal Release Strategies for Sea Cucumbers. This project has started its activities at SPC Noumea and aims to determine the best strategies for releasing sandfish (*Holothuria scabra*) into the wild for the purpose of restocking and stock enhancement of inshore Pacific fisheries.

Also in this issue, an article by Mike Traami, from the CNMI Division of Fish and Wildlife, describes a sea cucumber fishery that took place between October 1995 and May 1996 on the island of Rota. You will also find articles about the sexual reproduction and farming of larvae of a little-studied species in India and about *Apostichopus japonicus* larvae.

Abstracts of the sea cucumbers presentations made during the 6th European Conference on Echinoderms in Banyuls (2001) and other press articles are also included in this issue.

Previous issues of the Bulletin are available on the SPC web site at www.spc.int/coastfish/ in both French and English. Issue no. 26 of the Echinoderms Newsletter is now also available on the Web at www.mnhn.si.edu/iz/echinoderm.

An echinoderms forum was created after the International Conference in Dunechin. You can subscribe to it by contacting sabine.strohmann@spc.int or by sending an email to leiser@spc.int and including on the first line of the message SUBSCRIBE ECHINODERM-L, your surname and first name, but no other text.

Please do not hesitate to send me your comments or suggestions in order to make this bulletin more interesting and useful.

Chantal Cenand

Inside this issue

Developing optimal strategies for restocking sandfish: a collaborative project in New Caledonia
by S. Purcell et al. p.2

Summary of data collected from the sea cucumber fishery on Rota, Commonwealth of the Northern Mariana Islands
by M.S. Traami p.5

Spawning and larval rearing of sea cucumber *Holothuria (Theodorus) spangleri* Theel
by B. Abo and P. Aboian p.11

Rearbions of the larvae of the sea cucumber *Apostichopus japonicus* to sharp desalination of surface water: a laboratory study
by S.D. Koshko p.15

Market news p.21

Abstracts, publications, workshops and meetings

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS ORGANISATION

URL: <http://www.fao.org> Catalogue / catálogo:

<http://www.fao.org/catalog/giphome.htm>

E-mail: Publications-Sales@fao.org

NEW TITLES IN ENGLISH - FISHERIES

Fishery manager's guidebook, (A). Management measures and their application. FAO Fisheries Technical Paper No. 424 Rome, 2002, 238 pp. ISBN 92-5-104773-1 ISSN 0429-9345 TC/M/Y3427/E \$24.00

Fisheries management is a complex and evolving discipline and much is still being learned about what it involves, what works and what does not. The problem is compounded by the fact that fisheries management as a coherent discipline is still poorly defined and frequently equally poorly understood. This publication strives to identify the primary tasks in management of capture fisheries, with particular emphasis on sustainable utilization of the biological resources, and to demonstrate how these tasks should be integrated and coordinated to obtain the desired benefits from the biological resources in a sustainable and responsible manner.

Report of the Pilot Workshop on the Application of Biotelemetry to Fish Studies for the Management of Inland Fisheries in West Africa. Sélingué, Mali, 29 January - 10 February 2001. FAO Fisheries Report No. 654 Rome, 2002, 40 pp. ISBN 92-5-104641-7 ISSN 0429-9337 TC/M/Y1972/E \$12.00 The aim of the workshop was to improve understanding of, and disseminate, biotelemetry, which is a very useful tool for the collection of the more precise information essential for improved sustainable management of aquatic resources. The participants came from Benin, Burkina Faso, Côte d'Ivoire, Guinea and Mali.

Report of the Reykjavik Conference on Responsible Fisheries in the Marine Ecosystem. Reykjavik, Iceland, 1-4 October 2001 FAO Fisheries Report No. 658. Rome, 2002, 136 pp., Trilingual (En/Fr/Es) ISBN 92-5-004729-0 ISSN 0429-9337. TR/M/Y2198/Tri \$12.00.

The Conference adopted the Reykjavik Declaration on Responsible Fisheries in the Marine Ecosystem, given in Appendix I to this report.

Stopping illegal, unreported and unregulated fishing. Rome, 2002, 22 pp. ISBN 92-5-104760-X. TC/M/Y3554/E. \$8.00

This booklet describes, in a non-technical manner, some important aspects of the International Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated (IUU) Fishing. The purpose of this booklet is to help familiarize FAO Members and others with the tools for use in dealing with IUU fishing, to suggest which tools to use in particular circumstances and to provide guidance on how to use these tools effectively.

Trade orders can be placed by E-mail at Publications-Sales@fao.org or by fax at (39) 06 5705 3360. Librarians and individuals are encouraged to order through FAO distributors listed on the FAO web site at <http://www.fao.org/CATALOG/giphome.htm>

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