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TERMINAL REPORT

**ICLARM'S SELECTIVE FISHERIES INFORMATION SERVICE (SFIS)
PHASE II : PROJECT ADD (ANALYSIS AND DOCUMENT DELIVERY)**

**MARCH 1988 -- JUNE 1991
IDRC File : 3-P-87-0184**



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INTERNATIONAL CENTER FOR LIVING AQUATIC RESOURCES MANAGEMENT

GROUND FLOOR, BLOOMINGDALE BLDG.
205 SALCEDO ST., LEGASPI VILLAGE
MAKATI, METRO MANILA 1200
PHILIPPINES

CABLE: ICLARM MANILA
TELEX: (ETPI) 64794 ICLARM PN, 4900010376 ICL UI (USA)
FAX: (63-2) 816-3183
TEL.: 818-0466, 818-9283, 817-5255, 817-5163
E-MAIL: (CGNET) ICLARM, (SCIENCENET) ICLARM.MANILA

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EXECUTIVE SUMMARY

The Selective Fisheries Information Service (SFIS) Phase II: Project ADD (Analysis and Document Delivery) was a cooperative effort between the International Center for Living Aquatic Resources Management (ICLARM) and the International Development Research Centre (IDRC) of Canada. It extended the capabilities of the existing ICLARM Information Program to users in tropical developing countries through providing advice to fisheries institutions in developing countries in strengthening their information capability, answers to specific enquiries in subject areas in which ICLARM has special expertise, especially in the fields of finfish and mollusc aquaculture, integrated farming, small-scale fisheries and resource management by providing key references and computerized literature searches using the compact disk version of the Aquatic Sciences and Fisheries Abstracts (ASFA) and the ICLARM Library and scientific staff's literature databases. The Project produced a total of 71 publications which consisted of bibliographies (3), minireviews (48), translations (2), reports (2) and articles on library/information science (16).

SFIS II was supported by appropriate library infrastructure, enhanced by the expertise of ICLARM's scientific staff to handle a range of technical enquiries

and the facility for online access to other international bibliographic databases available on the DIALOG system.

Implementing IDRC's new policy to promote the awareness of the need for researchers in developing countries to budget for information access to support their work, the Project introduced a system of user-pays. It was a flexible approach, requesting an exchange of literature, reports or photographs of research activities for information packages received if the user was, for one reason or another, unable to pay.

The user's response to the charging for service was carefully monitored. As of 15 June 1991, an accumulated income of US\$ 3,004.46 was posted. This amount is insufficient to make a project of this nature self-financing. The above income went into ICLARM's revolving fund for financing the continuation of parts of Project ADD.

We received 985 requests from 102 countries/territories between March 1988 and June 1991, the duration of the Project. Eighty-two per cent were from developing regions. On the average, 27 enquiries were received monthly. Thirteen per cent of the enquiries received were user-paid while 56% were serviced for free and 24% availed of the exchange procedure from which we received 185 articles, 3 journals and 3 sets of photographs of

research experiments. The other requests (7%) which were outside ICLARM's areas of expertise were referred to other appropriate information centers. An analysis of enquiries received indicated that researchers were the number one users of the service followed by administrators, academic and library personnel, students and growers. The most requested topics were various culture systems, fish biology, and general information on fisheries and various crustaceans. The Project provided 19,298 citations/abstracts (9,645 pages), 28,397 xeroxed pages (2,204 titles) of key/requested references, 151 volumes from the duplicate collection of the library and 642 copies of various ICLARM publications including brochures.

A questionnaire postcard assessing quality, quantity, effect on project quality or general knowledge and assistance in locating other workers in the field was sent with information package. Respondents expressed a general satisfaction with the service provided. Eighty-six per cent rated the information very useful; 65% found the materials provided were most of what was needed; 50% indicated that the information provided background information only, with 43% perceived an improvement of project quality; 47% were led to new research ideas/projects and 47% perceived an improvement to subject knowledge but did not lead to new

research ideas. Seventy-eight per cent were able to locate or communicate with co-workers in their fields of study.

Short-term training in fisheries librarianship, database management, online searching and non-technical library activities were conducted for 107 Filipino and 17 foreign groups and individuals. Cooperative information activities have been strengthened with other specialized national, regional and international information centers. Electronic mail links with other international marine science libraries enhanced the Project's capabilities to carry out activities.

A current awareness service through the Information Department of NAGA, the ICLARM Quarterly was continued from Phase I of the Project and provided 4,150 citations with addresses of the senior author. Selected libraries and institutions received three issues each of ICLARM Library's Annual Book Catalogue. The Project also facilitated the sending of all available ICLARM publications to 11 libraries affiliated with the Agricultural Libraries Network (AGLINET).

Recommendations to ICLARM and IDRC were put forward to continue the Project.

Terminal Report of ICLARM's Selective Fisheries Information Service (SFIS)
Phase II : Project ADD (Analysis and Document Delivery)
March 1988 - June 1991
IDRC File : 3-P-87-0184

OBJECTIVES

The major objective of SFIS II was to extend the capabilities of the existing ICLARM Information Program to users in tropical developing countries through:

- ~ Assistance in an advisory capacity in strengthening the information capability of fisheries institutions in developing countries.
- ~ Providing answers to specific questions to researchers working in subject areas in which ICLARM has special expertise, especially in the fields of finfish and mollusc aquaculture, integrated farming, small-scale fisheries and resource management.
- ~ Analyzing 50 selected specific topics of the literature built up over the first three years of the SFIS.
- ~ Providing key literature to enquirers.
- ~ Producing bibliographies and minireviews on important topics as identified by trends in enquiries.

STAFF

SFIS II was backed by appropriate library resources, enhanced by the expertise of ICLARM's scientific staff to handle a range of technical enquiries, used of computerized literature searching of bibliographic databases such as the compact disk version of Aquatic Sciences and Fisheries Abstracts (ASFA), the ICLARM Library and scientific staff's reprint collections and facility for online access to other international bibliographic databases available on the DIALOG system.

Mr. Jay L. Maclean, ICLARM's Information Program Director served as the Project Adviser/Coordinator while Mrs. Rosalinda M. Temprosa, M.L.S., ICLARM's Chief Librarian, continued on from Phase I as Project Leader. Support staff were hired to fully meet the objectives of the Project: Miss Georgina C. Luis, M.A. Ed., was Project Librarian from May 1988 to June 1989 and later Ms. Adelina P. Mendoza, B.S., Library Assistant, who took over till the end of the Project, indexed journal articles for inclusion in NAGA's Information Department. Mr. Marcos Jose M. Vega, B.S., Research Assistant from June 1988 till the end of the Project prepared minireviews on important topics as identified by trends in enquiries. In September 1989, Mrs. Matimtiman E. Cruz, B.S., was hired to assist in the

preparation of a 10-year later extended to a 12-year indexed bibliography on tropical fisheries and aquaculture literature. All of them assisted in the question-and-answer service of the Project.

ACTIVITIES

Promotion and Publicity

The recommencement of ICLARM's Selective Fisheries Information Service (SFIS II) was first announced in the April 1988 issue of NAGA, the ICLARM Quarterly. Since then, SFIS II has been republicized through publications in national, regional and international newsletters, personal contacts and brief "talks" in local and foreign conferences/meetings. In addition, a new and revised brochure was produced to facilitate publicity. It was noted that some enquirers mentioned hearing of the service from colleagues.

Added Features

Project ADD - Analysis and Document Delivery - is a feature added to SFIS II which is to analyze 50 selected specific topics of the literature built up over the first three years of the service and to provide key literature to SFIS enquirers.

New Policy

The Project implemented IDRC's new policy. While IDRC desires to support fisheries research and development work with timely and appropriate information, it is concerned that scientists and researchers in developing countries should be made more conscious about the need to budget for access to information to support their work. Thus, a fee for services was established. Details are given below.

Advertisement Text

The average cost to the Service for materials and postage per enquiry is about US\$30, without accounting for time spent searching and preparing each report.

Some form of payment, cash or in kind, is requested from users to help the service become self-supporting eventually. Here is the scale of fees.

~ Requests from developed-country individual researchers and institutional enquirers, and consultants from all countries:

US\$20 plus cost of materials and postage.

~ Other enquirers;

US\$5 plus cost of materials and postage.

If the materials and postage cost more than \$30 we will advise you of the likely cost in advance. If less than \$30 an invoice will accompany the package.

~ Or we can exchange information.

If you don't have a research grant or are in a country where foreign exchange is impossible, let us exchange information. Send your enquiry together with some information that will help the Service, e.g.,

- reprints of scientific articles
- research reports
- a brief essay on the information available in your institute or on your research and its relevance to national goals
- photographs or slides of your research or fishing activities.

We might publish your essay or photographs in a future issue of Naga.

Charging

The issue of charging for services was studied. We carefully monitored the users responses to be able to make recommendations to IDRC in this regard. As of 15 June 1991, income received from the question-and-answer component of the Project amounted to US\$ 2,121.49 while the accrued income from the ASFA CD-ROM printouts amounted to Pesos 24,105.00 (US\$ 882.97)*. The overall income (Annex A) from this three-year Project went into ICLARM's revolving fund for financing the continuation of parts of Project ADD.

It is interesting to note the initial reaction of the SFIS enquirers to the new mode of the Project based from the results of an experiment made in the early months of the

*In June 1991, US\$1 = Pesos 27.30

Project. Between March and April 1988, there were 37 enquiries at hand. A photocopy of the request was returned to the enquirer with a letter informing him/her of the new IDRC policy. Of this group, 25 responded, amenable to the new procedure and sent their enquiries again. From this group of 25 enquirers, 5 were user-pays; 7 availed of the exchange procedure while the others were still answered free.

Question-and-Answer Component

The question-and-answer component of the Project received 985 letter, overseas telephone call, facsimile transmission, cable and electronic mail enquiries from 102 countries/territories from 01 May 1988 to 15 June 1991 as detailed in Table 1. Queries from Nigeria were the most numerous (140) followed by the Philippines (138) then India (101). A monthly average of 27 enquiries were received.

Thirteen percent of the enquiries received were user-paid while 56% were serviced for free and 24% availed of the exchange procedure from which we received 140 reprints, 45 monographic/technical reports, 3 journals and three sets of photographs of research experiments (Fig. 1.).

Moreover, the other requests (7%) which were outside ICLARM's areas of expertise were referred to other

appropriate information centers such as SEAFDEC Aquaculture Department, Iloilo, Philippines, the Network of Aquaculture Centres in Asia (NACA) and FAO in Bangkok, Thailand, INFOFISH, Kuala Lumpur, Malaysia, and the University of the Philippines Marine Science Institute (UPMSI), Quezon City, Philippines.

Eighty-two percent of the enquiries was from the developing regions. Figure 2 presents the geographical spread of enquiries received. From Asia was 40%; Africa, 25%; Oceania (including Australia and New Zealand), 11%; North America, 8%; Latin America, 7%; Europe, 6% and from the Indian Ocean and Caribbean, 3%.

A detailed record of each enquiry was kept to identify trends to define other subject matter for bibliographies and reviews. Table 2 shows that requests for information on various culture systems (217) and fish biology (190) were most numerous. General information on fisheries (133) and crustaceans (122), were the next most numerous groups. This pattern differs from the initial 3-year phase of the Project when tilapia, integrated farming and socioeconomic aspects, respectively, were the most requested subjects.

An analysis of occupation or position held by the requester was also made for those determinable from the enquiry text. Figure 3 (N=756) shows that most of the

requests were from researchers (36%), followed by administrators, (23%), academic/library personnel (22%), students (12%) and growers (7%).

Regarding the materials sent to enquirers (combination of printouts from ASFA and inhouse literature databases, photocopies of key literature, library duplicates for disposal and relevant ICLARM publications), SFIS-ADD provided a total of 19,298 citations/abstracts (9,645 pages), 28,397 xeroxed pages (2,204 titles) of key/requested references, 151 volumes from the duplicate collection of the library and 642 copies of various ICLARM publications including brochures. Payment modes and destinations of information packages are presented in Figs. 4a-4c.

It was observed that there were several African requests, particularly from Nigeria, who more or less asked for the same information. To cater to this group, a special information package was prepared which consisted of several lists of basic fisheries and aquaculture references and where to obtain these (most are distributed for free), fisheries organizations in the region and libraries/institutions receiving a complete set of ICLARM publications. Recipients were also encouraged to write for free literature and visit the nearest organization or institution in their area.

Response to Packages Sent

Each of the information packages sent in reply to requests which required an extensive literature search was accompanied by an evaluation questionnaire postcard to obtain feedback about the service and its products. See Annex B for the questions asked and the summary of their response.

Of the 312 questionnaires sent, 116 were returned. A hundred-fifteen responded to the question on quality. Of these, 86% rated the information very useful, 13% of some use and 1% found it of no use. As to quantity (N=111), 65% found the materials provided were most of what was needed, 20% all that was needed and 15% reported the amount inadequate. Responses to the effects of the materials sent on specific projects (N=92) indicate that the information provided background data to 50% of the respondents and improved the project quality for 43% and had no effect on 7%. For general knowledge (N=72), it led to new research ideas/projects for 47% of the respondents, 47% perceived an improvement to subject knowledge but did not lead to new research ideas while 6% felt no benefit. More so, the information provided helped 91 respondents (78%) in locating or communicating with other researchers/workers.

Some of the interesting feedbacks from the SFIS users are:

"Aquaculture is but a small part of our big Institute, so it is not possible for us to subscribe for all reputed journals. Therefore we face a lot of difficulties in keeping up to date with the latest developments in the field. If the Service provided by SFIS continues, one of our major problems in pursuing teaching and research would be solved."

Dr. Arunabha Mitra
Assistant Professor
Indian Institute of Technology
India

"I want to thank you for the thorough information contained in your letter of 8 January 1991, in reply to my inquiry of 10 December. Contrary to what you thought, your answer to my inquiry was quite timely, most efficient and helpful. I have waited many more months for an answer to inquiries much less complex from agencies located nearby."

Ms. Donna Nickerson
Environmental Protection
Agency
U.S.A.

"We should say that we have been impressed by the volume of information provided as well as the further directions to which you have drawn our attention for our desired assistance."

Mr. H.T.K. Bobobee
Chairman
National Inland Canoe
Fishermen Council
Ghana

Minireview Component

Forty-eight minireviews on various topics have been completed during the report, fifteen of which have been published in the NAGA, the ICLARM Quarterly, and three to be published in AQUABYTE (Newsletter of the Network of Tropical Aquaculture Scientists published by ICLARM). Prior to publication, each article is sent to two experts identified during the literature surveys.

Six of the minireviews have been indexed and abstracted in ASFA and are thus, available to non-recipients of NAGA. Reprint requests have also been received.

A collective volume of all minireviews is still being prepared for publication and later, to be distributed (500 copies) free of charge to libraries, institutions and some individuals in ICLARM's distribution list plus IDRC's fisheries research grantees.

Training and Linkages

Assistance in information use and handling has been provided through attendance and participation in local and international conferences, workshops and meetings. Short-term training in fisheries librarianship, database management, on-line searching and non-technical library

individuals both local and foreign.

Cooperative information activities have also been strengthened with other specialized information centers like the Brackishwater Aquaculture Information System of the SEAFDEC Aquaculture Department, Seaweed Information Center of UP MSI, Indonesian Fisheries Information System and the Regional Co-operation in Scientific Information Exchange in the Western Indian Ocean Region (RECOSCIX-WIO) project of the International Oceanographic Commission and UNESCO which is based in Mombasa, Kenya.

ICLARM's information capabilities have also been strengthened to carry out Project activities through wide contacts with foreign marine science librarians via electronic mail.

Other Activities

A current awareness service through NAGA's Information Department was continued. Using downloads from the library's literature database, this component of the Project provided 2,850 citations with addresses of the senior author in 13 issues of NAGA plus 1,300 citations in *Tropical Fisheries and Aquaculture 1989*. Supplement to NAGA, The ICLARM Quarterly, 12(4), October 1989. Each issue had taxonomic, geographic and subject indices. The details are presented below.

geographic and subject indices. The details are presented below.

NAGA Issue	Computer Record Numbers	Number of Articles
April 1988	851-1100	250
July 1988	1101-1400	300
October 1988	1401-1600	200
January 1989	1601-1800	200
April 1989	1801-2000	200
July 1989	2001-2100	100
October 1989	2101-2200	100
October 1989 Supplement	2201-3500	1,300
January 1990	3501-3700	200
April 1990	3701-3900	200
July 1990	3901-4100	200
October 1990	4101-4500	400
January 1991	9451-9650	200
April 1991	9651-9950	300
	Total	4,150

Readers were enjoined to write for reprints of interest directly from the authors to encourage communication among workers in the field. Also, selected libraries and institutions were given a copy of the ICLARM Library's Annual Book Catalogue. Three issues (1988, 1989, 1990) were sent.

The Project also facilitated the sending of all available ICLARM publications to 11 agricultural libraries affiliated with the Agricultural Libraries Network (AGLINET).

PUBLICATIONS

The following publications have resulted from the Project:

1. Publicity and Information

SFIS brochure, No.5 May 1988. Total 2,000 copies

Questionnaire postcard. Total 2,000 copies

ICLARM's Selective Fisheries Information Service 1988-1990.
NAGA, the ICLARM Quarterly 11(2): 16. 1988.

ICLARM's Selective Fisheries Information Service 1988-1990.
IAMS LIC Newsletter 29: 12. 1988.

ICLARM's Information Service Revitalized. Aginfo Link
2(3):2-3. 1988.

ICLARM's Selective Information Service. ASTINFO Newsletter
3(4): 9. 1988.

ICLARM's Selective Fisheries Information Service 1988-1990.
BRAIS Newsletter 3(2):3. 1988.

ICLARM's Selective Fisheries Information Service Renewed for
1988-1990. IAALD Quarterly Bulletin 33(3):135-136.
1988.

ICLARM's Selective Fisheries Information Service. AFSIB
Newsletter Oct. 1988 - Mar. 1989:23-24.

ICLARM's Selective Fisheries Information Service Phase 2.
Ang Mamamalakaya UP KATIG'88. College of Fisheries,
University of the Philippines, Diliman, Quezon City.

ICLARM: Fisheries Information Service. TIPS (Sharing
Information on Trade and Technology). FIS/INO/NEW/009.
1p. UNDP/DEVNET, Makati, Metro Manila, Philippines.

Boost for Selective Fisheries Info Service. Agric. Inf. Dev.
Bull. 11(3):19. 1989.

ICLARM: Selective Fisheries Information Service. TIPS
(Sharing Information on Trade and Technology).
FIS/REG/NEW/013. 1p. UNDP/DEVNET, Makati, Metro Manila,
Philippines.

Research and Information on Fish for the Developing World.
SPORE 30:16. 1990.

2. Minireviews

Who's working on aquaculture in mangroves? Naga 11(3): 18.
(M.J.M. Vega. 1988)

Who's working on tilapia and carp diseases? Naga 11(3):18-
19. (M.J.M. Vega. 1988)

Who's working on fish aggregating devices? Naga 11(4):16.
(M.J.M. Vega. 1988)

Who's working on reservoir fisheries in developing
countries? Naga 11(4):17. (M.J.M. Vega. 1988)

Who's working on echinoderm fisheries? Naga 12(1):18.
(M.J.M. Vega. 1989)

Who's working on *Epinephelus* culture? Naga 12(1):19. (M.J.M.
Vega. 1989)

Who's working on women in fisheries? Naga 12(2):16. (M.J.M.
Vega. 1989)

Who's working on *Caulerpa* culture? Naga 12(3):10. (M.J.M.
Vega. 1989)

Who's working on tropical red tides? Naga 12(3):11. (M.J.M.
Vega. 1989)

Who's working on giant clam culture? Naga 13(3):9. (M.J.M.
Vega. 1990)

Who's working on tropical fish seed transport? Naga
13(3):10. (M.J.M. Vega. 1990)

Who's working on freshwater cage culture? (An update) Naga
14(1):11. (M.J.M. Vega. 1991)

Who's working on fishing gear design and construction for
small-scale fisheries? Naga 14(1):12. (M.J.M. Vega.
1991)

Who's working on *Mugil* culture? Naga 14(1):15 (M.J.M. Vega.
1991)

Who's working on fishpond aeration? Naga 14(2):16 (M.J.M. Vega. 1991)

3. Bibliographies

Bibliography on Indo-Pacific red tides. ICLARM Bibliographies 8, 23p. International Center for Living Aquatic Resources Management, Manila, Philippines. (J.L. Maclean and R.M. Temprosa, compilers)

ICLARM Library serial holdings list. ICLARM Education Series 6, 99 p. International Center for Living Aquatic Resources Management, Manila, Philippines. (R.M. Temprosa, N.I. Jhocson, N.R. Balagapo, and E.B. Gonzalez, compilers)

Tropical fisheries and aquaculture literature 1989. Supplement to Naga the ICLARM Quarterly 12(4). 44 p. (R.M. Temprosa, compiler)

4. Information Science

Bibliographic impact of ICLARM. ICLARM Technical Report 26, 19 p. International Center for Living Aquatic Resources Management, Manila, Philippines. (J.L. Maclean, R.M. Temprosa, N.I. Jhocson and A.F. Diaz)

Asian fisheries science: a profile. Asian Fisheries Society Special Publication 6. 45 p. Asian Fisheries Society, Manila, Philippines. (A.C. Aquisap, M.A. Carigma, P.B. Cariño, V.N.J. Castrillo, F.C. Gayanilo, Jr., M.E.S. Guzman, C.C. Janagap, J.L. Maclean, D. Pauly, E.T. Tech, and R.M. Temprosa)

Citation behavior of Philippine biological scientists. Paper presented at the International Conference on Science Indicators for Developing Countries, 14-19 October 1990. UNESCO, Paris, France. 16 p. (J.L. Maclean and M.J.M. Vega)

ICLARM's Selective Fisheries Information Service: Project ADD (Analysis and Document Delivery). (In press). *In* Proceedings of the 16th Annual IAMSLIC Conference, 1-5 October 1990, Seattle, Washington, U.S.A. (R.M. Temprosa)

5. Translations

Hiranwat, S., Y. Leenanond and C. Wongsongsarn. 1982. Pen culture in reservoir by using water hyacinth as supplementary feed. NIFI Technical Paper No. 12. 22p. Translated from Thai by Thiraphan Bhukaswan.

Tanomkiat, T. and T. Pimoljinda. 1986. Experiments on nursing brown spotted grouper (*Epinephelus tauvina* Forskal) with artificial diets in various protein levels and minced fish. Thai Fish. Gaz. 39(6): 603-614. Translated from Thai by Thiraphan Bhukaswan.

CONFERENCES, WORKSHOPS, MEETINGS ATTENDED

Seminar-Workshop on Classification and Cataloging of Books, Serials and Non-Book Materials, Manila, 25-27 May 1988 (G.C. Luis)

Fourteenth Annual Conference of the International Association of Marine Science Libraries and Information Centers (IAMSLIC), Miami, Florida, USA, 2-7 October 1988 (J.L. Maclean and R.M. Temprosa, resource speakers)

SEAFIS Seminar on Fishery and Aquaculture Information in Southeast Asia, Bangkok, Thailand, 7-10 February 1989 (J.L. Maclean and R.M. Temprosa, resource speakers)

Twelfth Annual Convention, Philippine Fisheries Research Society, Quezon City, 24 February 1989 (M.J.M. Vega)

Post-Bangkok Meeting of the Philippine Fisheries Information Group, Los Baños, Laguna, 3 March 1989 (R.M. Temprosa, adviser)

PASFIS (Philippine Aquatic Sciences and Fisheries Information System) Meeting, University of the Philippines in the Visayas (UPV), Iloilo City, 6-7 April 1989 (R.M. Temprosa, Technical Consultant)

Eighth Summer Institute on Library and Information Sciences. (Information Consolidation). National Engineering Center, University of the Philippines, Diliman, Quezon City, 15-19 May 1989. (M.J.M. Vega)

- Third Summer Institute on Library and Information Services. (Abstracting and Indexing). National Engineering Center, University of the Philippines, Diliman, Quezon City, 22-26 May 1989. (A.P. Mendoza)
- Second Pacific Conference on New Information Technology, The Glass Hotel, Singapore, 29-31 May 1989 (R.M. Temprosa)
- Information Officers' Training Course (INFOTRAC), Institute for Small-Scale Industries, University of the Philippines (UPISSI), Diliman, Quezon City, 12 July to 16 August 1989 (R.M. Temprosa, resource speaker)
- Fifteenth Annual Conference of the International Association of Marine Science Libraries and Information Centers (IAMSLIC), Bermuda Biological Station for Research, Ferry Reach, Bermuda, 2-6 October 1989 (J.L. Maclean, resource speaker)
- Preliminary Discussion on the Preparation of "Introductory Manual for Marine Information Centre Development", by A. Varley. Plymouth, U.K., 10-20 October 1989 (R.M. Temprosa, Technical Adviser)
- Consultative meeting on "Training Strategy for Aquatic Sciences and Fisheries Information System (ASFIS)" Intergovernmental Oceanographic Commission, (IOC/UNESCO) Paris, France, 21-25 October 1989. (R.M. Temprosa, Technical Adviser)
- Sixteenth Annual Conference of the International Association of Marine Science Libraries and Information Centers (IAMSLIC), Seattle, Washington, USA, 1-5 October 1990 (R.M. Temprosa, resource speaker)
- International Conference on Science Indicators for Developing Countries, 14-19 October 1990. UNESCO, Paris, France. (J.L. Maclean, resource speaker)
- Fifty-Third Annual Meeting of the American Society for Information Science (ASIS), Toronto, Canada, 4-8 November 1990 (R.M. Temprosa, resource person)

TRAININGS CONDUCTED

- Lecture-Demonstration on Fisheries Information System and Management for the Participants (6) of the AIBA/SEARCA Training Course on Agricultural Information Management, Manila, 22 April 1988

Lecture-Demonstration of Computerized Library Operation and Database Management Information System for the Participants (15) of the 7th Summer Institute on Information Science, Institute of Library Science, University of the Philippines, Diliman, Quezon City, 6 May 1988

Lecture-Demonstration of ICLARM's Information System and Management for the Participants (33) of the Summer Institute on Managing and Servicing Information, Institute of Library Science, University of the Philippines, Diliman, Quezon City, 20 May 1988

Technical Assistance to UN-ESCAP Regional Network for Agricultural Machinery (UP at Los Baños) in the initial development of their database on agricultural machinery, Los Baños, Laguna, 29 May 1988

Lecture on ICLARM's Information Sources and Services for Prawn Farming Development Group (7 Chinese; 1 British) as part of their Technical Study Tour to the Philippines, sponsored by EEC Assistance Programme for Dalian, China, 6 June 1988

Introduction to Online Searching via DIALOG for a Professor of Library Science, Manila, 6 June 1988

Fisheries Information System and Management for a Senior Indonesian Fishery Officer, Manila, 5 July to 31 August 1988

Introduction to Electronic Mail System for the Foreign and Local Participants (15) of the Small Industry Information Management (SINFOMAN) Course, University of the Philippines, Institute for Small-Scale Industries, Diliman, Quezon City, 19 October 1988

Training on the Design of Computerized Bibliographic Database for a Filipino Fisheries Librarian, ICLARM, Manila, 7-18 November 1988

Online Searching via DIALOG for the Computer Staff (2) of the Technology and Livelihood Information Dissemination Department, Technology and Livelihood Resource Center, Manila, 21-25 November 1988

On-the-Job Training Apprenticeship for three graduating students (Associate in Computer Science) from Pamantasan ng Lungsod ng Maynila for a total of 120 hours each starting 12 December 1988

Lecture-Demonstration on the Use of Compact Disk-Read Only Memory (CD-ROM) and Computerized Database for De La Salle University (DLSU) Library Staff (21), Manila, 17 and 24 February 1989

Technical Assistance to the Philippine Aquatic Sciences and Fisheries Information System (PASFIS) Staff (2) in the initial development of their database using micro CDS-ISIS system software package, Manila, 6 and 7 March 1989

Lecture-Demonstration on the Application of Computer in Library Operation for the South East Asia Iron and Steel Institute (SEASI) Information Staff (4), Manila, 29 March 1989.

On-the-Job-Training Apprenticeship in Library Methodologies for a B.S. Psychology graduate from Far Eastern University (FEU), Manila, 29 March to 12 May 1989

Lecture-Demonstration of Computerized Library Operation and Database Management System for a Nepalese Information Officer, Small Business Promotion Project (SBPP), Kathmandu, Nepal, 18 April 1989

Training in Library Methodologies for three Indonesian Fishery Information Officers, Makati, Metro Manila, 3-30 June 1989.

Training in Database Management Using Micro-CDS/ISIS System Software Package and ASFIS Documentation Methodologies for three Indonesian Fishery Information Officers. Makati, Metro Manila, 8-29 July 1989.

Technical Advice on Database Management Using UNESCO's Micro-CDS/ISIS System Software Package for the Information Officer of the South Pacific Forum Fisheries Agency, Makati, Metro Manila, 29 January 1990.

Technical Advice on the Establishment of a Computerized and Online Library System for De La Salle University Staff (2), Makati, Metro Manila, 14 February 1990.

DISCUSSION

The materials provided were found very useful and were most or all of the information required by an overwhelming majority of users. Contributory to this was the comprehensiveness and complementary nature of the computer databases used and the careful selection of key references sent. Some requesters made additional queries as they made progress in their work. The information packages were normally sent through postal channels although should the requester express urgency, these were sent via commercial courier systems. There was an instance when the requester directed his materials to be sent by facsimile. There was a repeated mention of the promptness of action in the questionnaire answers and correspondence received.

The document delivery service was very much appreciated by those working in areas remote from major institutional libraries. Keeping up to date with current research, meetings and other activities is difficult for many researchers in developing regions. Over three-fourths of the questionnaire respondents were helped in locating co-workers. Some SFIS requesters later wrote that they were able to request for and received reprints from authors cited in the computer database print out provided by SFIS.

Despite the satisfaction with the service, only a third of the budgeted amount for document delivery was matched by the user-pay system. There were expected comments that this type of service must be free for those in developing regions. Obviously, this service must be heavily subsidized. Hopefully, by suggesting information materials exchange or out right charging for those who can afford, we have introduced the concept of information as a commodity to users particularly those from the developing regions.

It was encouraging to note that nearly all of those who promised an exchange of materials have been fulfilled. Some of those pending are theses or dissertations under completion. Most of the publications or materials sent were welcome additions to the Library and Documentation Center collection of ICLARM. The duplicates of library materials are still useful as these may be sent to other requesters.

We also note that few request were received from the island nations of the Indian Ocean and Caribbean. Perhaps we can double the efforts to publicize the service in those regions.

While the minireviews' thrust are for readers to contact the mentioned experts, some have requested print outs of the searched done during the research for the article.

RECOMMENDATIONS

In view of the results of the Project, we recommend that:

- ~ ICLARM continue the Analysis of most requested topics on fisheries and aquaculture literature and Document Delivery service as they are consistent with the goals of the Center;
- ~ ICLARM continue the user-pay system of information service to promote awareness among the scientists and researchers for the need to budget for access to information to support their work; and
- ~ IDRC continue to provide the necessary financial support.

"I want you to know that I think SFIS has been an important and very worthwhile project. There aren't many services supported by IDRC in the region which can match your high quality outputs or the number of requests you receive. So like you, I hope something comes along to keep SFIS and the team together. Good luck with this and give my best wishes for success to Linda and Jay."

Mr. Clive Wing
(former) Regional Programme Officer
IDRC, Singapore

COUNTRY/ TERRITORY	ENQUIRIES RECEIVED	COUNTRY/ TERRITORY	ENQUIRIES RECEIVED
Nigeria	140	Mexico	17
Philippines	138	Micronesia	6
India	101	Monaco	3
Argentina	2	Morocco	2
Australia	29	Mozambique	2
Bahrain	1	Myanmar	1
Bangladesh	15	Nepal	3
Benin	1	Netherlands	3
Bermuda	2	New Caledonia	10
Bolivia	3	New Zealand	4
Brazil	4	Nicaragua	2
Brunei Darussalam	4	Norway	1
Bulgaria	3	Oman	3
Canada	16	Pakistan	9
Chile	4	Panama	1
Colombia	15	Peru	2
Congo	2	Papua New Guinea	7
Cook Islands	3	Poland	1
Costa Rica	2	Portugal	1
Côte d'Ivoire	2	People's Rep. of China	2
Cuba	2	Puerto Rico	5
Denmark	1	Saudi Arabia	2
Egypt	7	Senegal	2
El Salvador	1	Seychelles	1
Ethiopia	6	Singapore	7
Fiji	11	Solomon Islands	34
Finland	4	South Africa	7
France	9	Sri Lanka	17
Fed. Rep. Germany	10	St. Vincent	2
Ghana	8	St. Catherine	1
Guatemala	3	St. Lucia	1
Guyana	2	Sudan	2
Haiti	1	Suriname	1
Hong Kong	1	Sweden	6
Indonesia	39	Taiwan	1
Iran	1	Tanzania	6
Israel	3	Thailand	12
Italy	1	Tonga	2
Jamaica	2	Trinidad & Tobago	6
Japan	3	Tuvalu	2
Kenya	39	Uganda	3
Korea	1	U.K.	14
Liberia	1	U.S.A.	61
Madagascar	2	U.S.S.R.	3
Malawi	1	Vanuatu	1
Malaysia	30	Venezuela	1
Maldives	2	Vietnam	2
Marianas Islands	1	Western Samoa	1
Marshall Islands	1	Yemen	1
Mauritius	4	Zambia	4
		Zimbabwe	13
		*** Total ***	985

Table 1. Number of SFIS requesters by country/territory.
(May 1988 to June 1991)

TOPIC	No. of Enquiries
CULTURE SYSTEMS	217
FISH BIOLOGY	190
GENERAL FISHERIES	133
CRUSTACEANS	122
TILAPIA	66
MOLLUSCS	58
SOCIOECONOMICS	46
ECOLOGY	45
RESOURCE MANAGEMENT	43
INTEGRATED FARMING	42
SEAWEEDS	34
NON-FISH CULTURE	33
CARPS	29
FISH/SHELLFISH NUTRITION	28
PROCESSING	20
OTHERS	231

Table 2. SFIS enquiries by major subjects.
(May 1988 to June 1991)

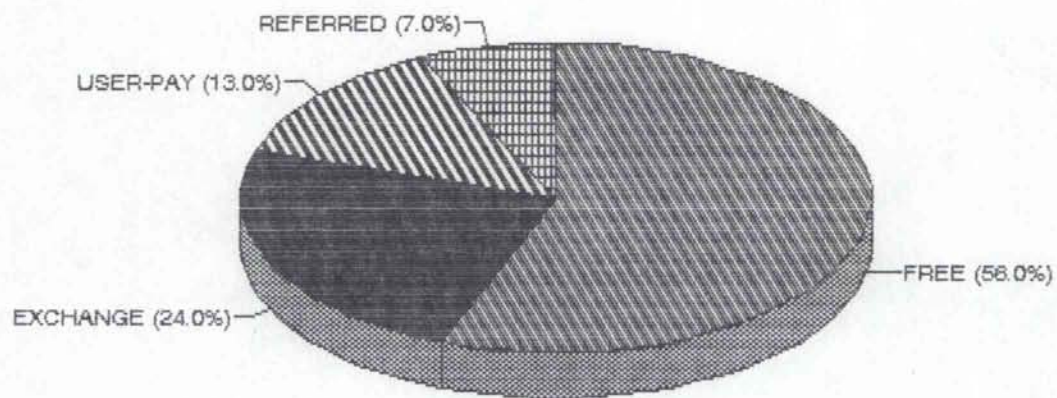


Fig. 1. Payment mode of SFIS enquiries.
(May 1988 to June 1991, N = 985)

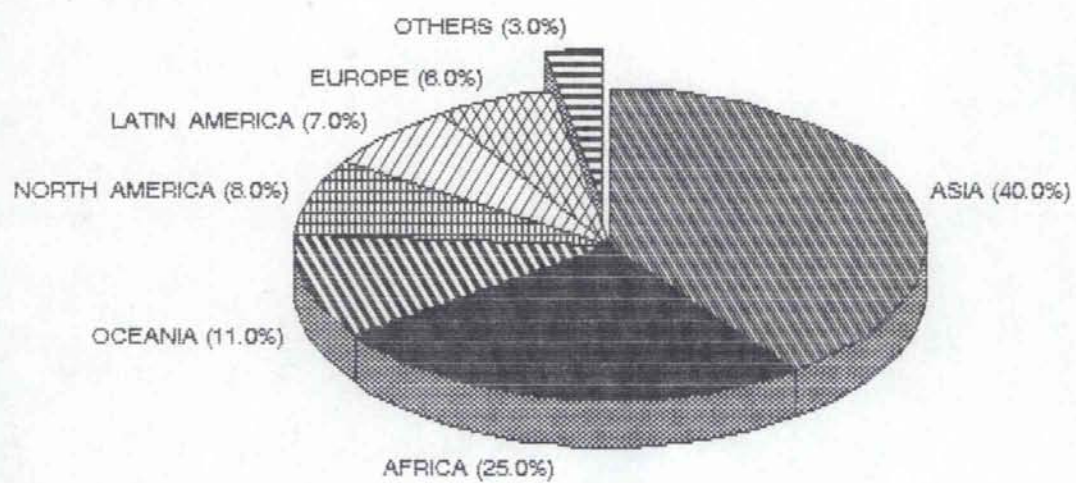


Fig. 2 Geographical distribution of SFIS enquiries.
(May 1988 to June 1991, N = 985)

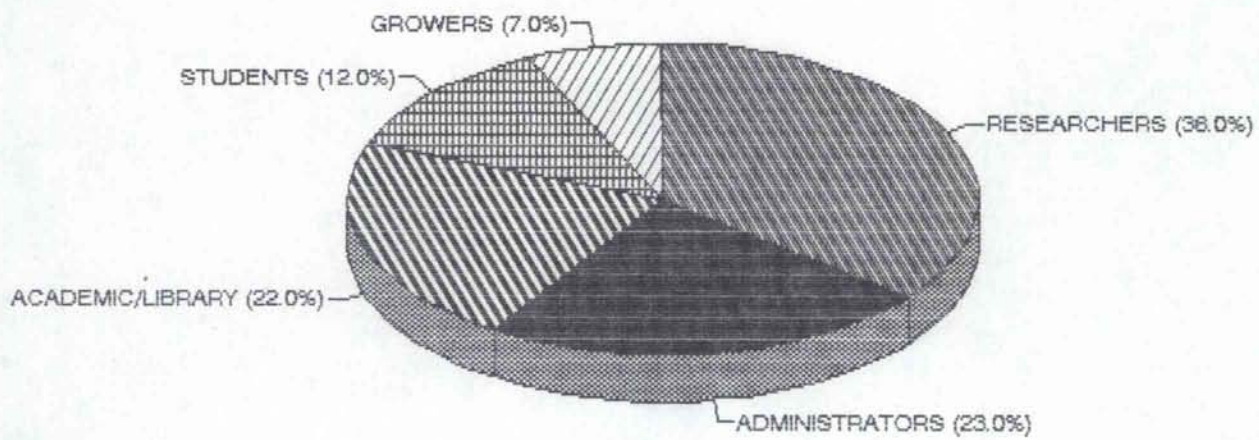


Fig. 3. Occupation or position held by SFIS enquirers
(May 1988 to June 1991, N = 756)

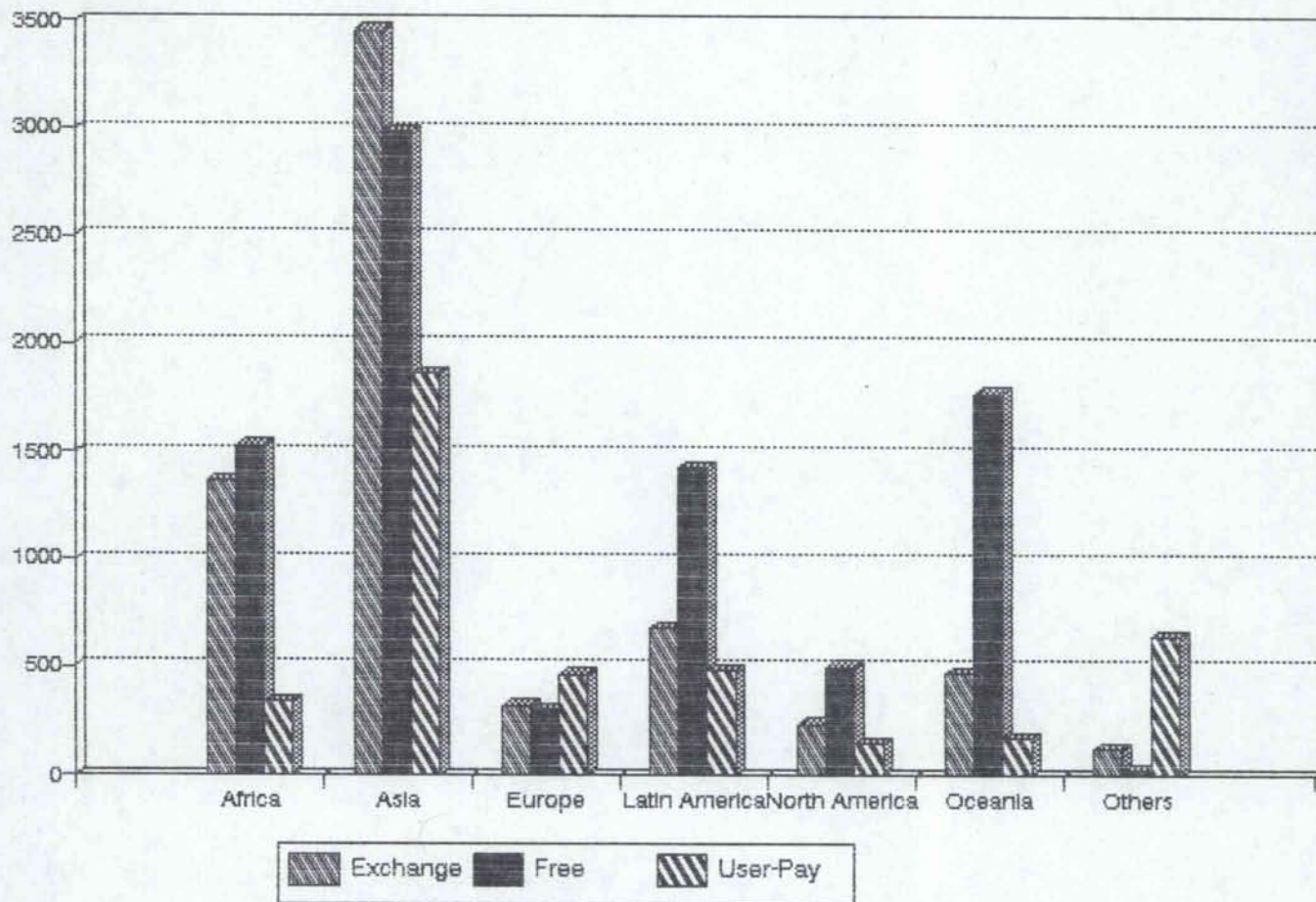


Fig. 4a. Mode and destination of citations/abstracts sent to SFIS enquirers.
(May 1988 to 15 June 1991, N = 19,298)

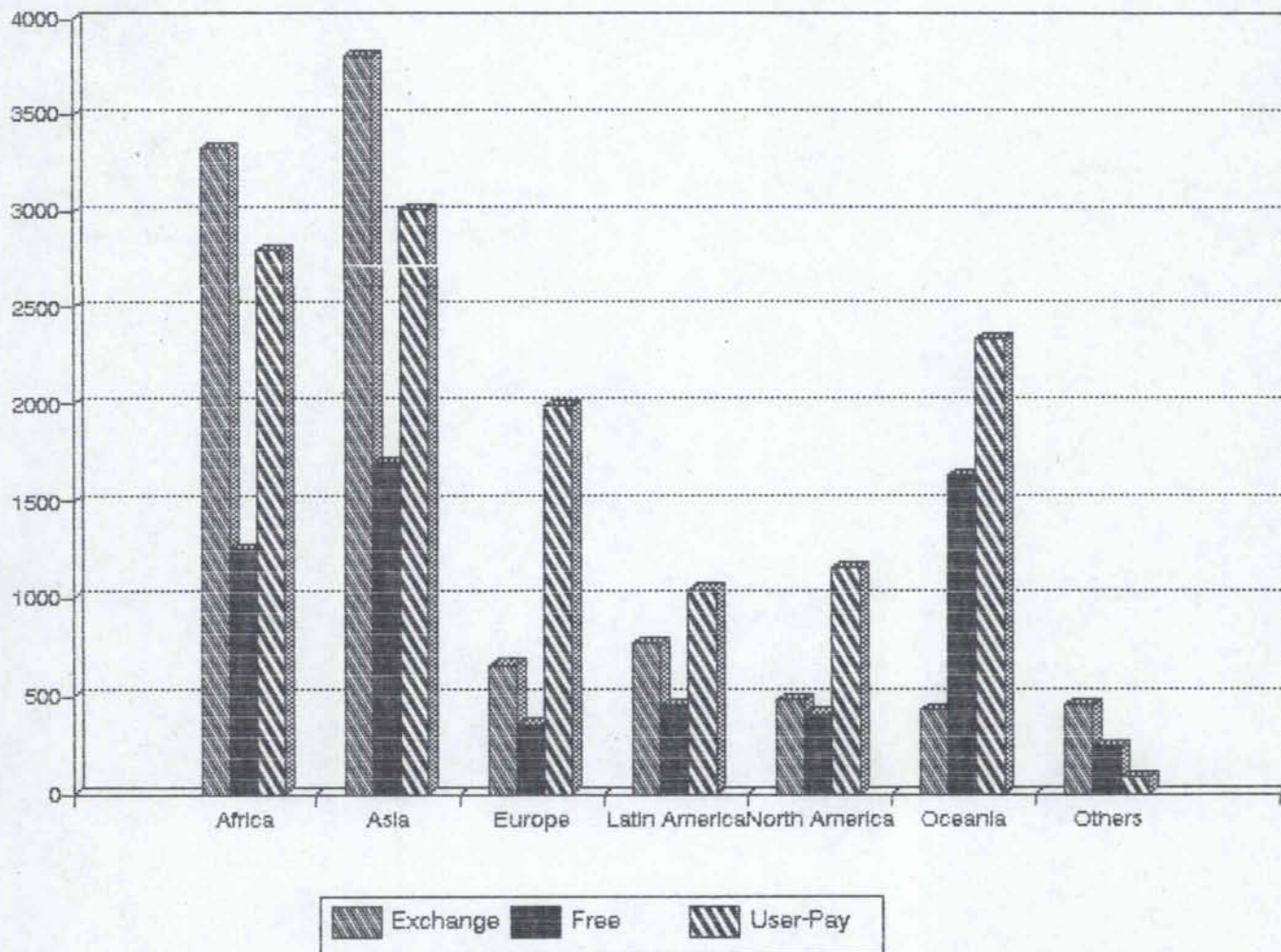


Fig. 4b. Mode and destination of photocopy pages sent to SFIS enquirers.
(May 1988 to 15 June 1991, N = 28,397)

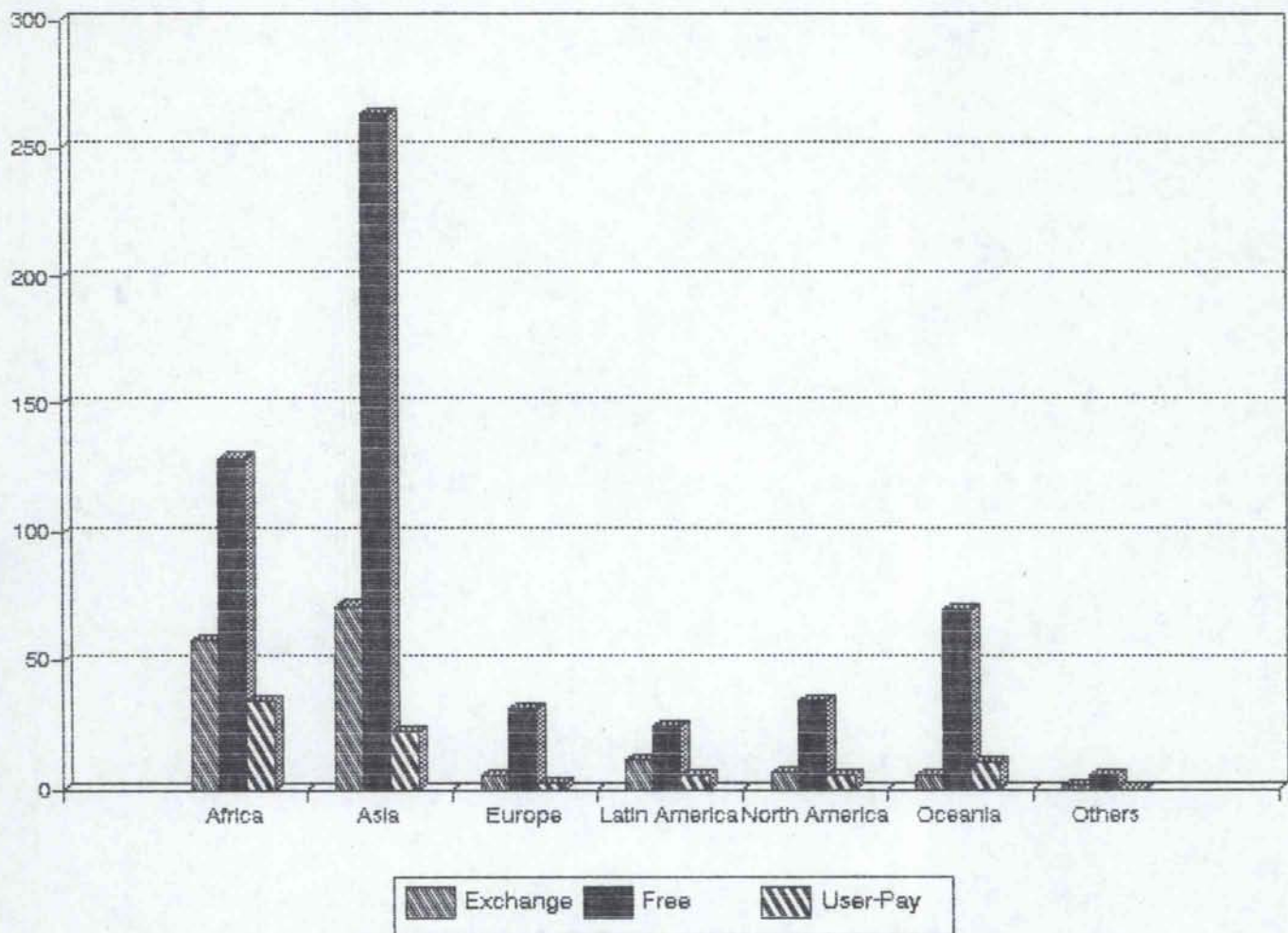


Fig. 4c. Mode and destination of ICLARM publications and library duplicates sent to SFIS enquirers. (May 1988 to 15 June 1991, N = 793)

ANNEX A

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SFIS II INCOME
MARCH 1988 TO JUNE 15, 1991

MONTH	QUESTION AND ANSWER			ASFA CD-ROM PRINTOUTS			
	No. of Inquir.	AMOUNT COLLECTED US\$	AMOUNT COLLECTIBLE US\$	TOTAL US\$	ICLARM STAFF PESOS	NON STAFF PESOS	TOTAL PESOS
MAR 88	0	0.00	0.00	0.00	0.00	178.00	178.00
APR 88	0	0.00	0.00	0.00	822.00	131.00	953.00
MAY 88	0	0.00	0.00	0.00	254.00	149.00	403.00
JUN 88	4	148.90	0.00	148.90	142.00	427.00	569.00
JUL 88	3	108.72	48.45	157.17	146.00	544.00	690.00
AUG 88	5	192.52	0.00	192.52	227.00	326.00	553.00
SEP 88	1	0.00	5.81	5.81	185.00	207.00	392.00
OCT 88	1	25.52	0.00	25.52	17.00	370.00	387.00
NOV 88	2	27.83	17.06	44.89	92.00	325.00	417.00
DEC 88	0	0.00	0.00	0.00	94.00	242.00	336.00
TOTAL	16	503.49	71.32	574.81	1,979.00	2,899.00	4,878.00
JAN 89	2	32.25	0.00	32.25	237.00	582.00	819.00
FEB 89	1	16.00	0.00	16.00	28.00	748.00	776.00
MAR 89	3	50.00	30.00	80.00	305.00	154.00	459.00
APR 89	2	91.00	0.00	91.00	577.00	99.00	676.00
MAY 89	2	23.80	0.00	23.80	161.00	520.00	681.00
JUN 89	4	116.85	0.00	116.85	237.00	358.00	595.00
JUL 89	5	163.97	9.15	173.12	283.00	490.00	773.00
AUG 89	1	21.50	0.00	21.50	38.00	298.00	336.00
SEP 89	5	77.50	31.50	109.00	226.00	471.00	697.00
OCT 89	5	83.15	35.15	118.30	845.00	294.00	1,139.00
NOV 89	2	17.75	6.50	24.25	91.00	196.00	287.00
DEC 89	2	1.06	6.00	7.06	16.00	331.00	347.00
TOTAL	31	646.58	118.30	764.88	3,044.00	4,541.00	7,585.00
JAN 90	5	19.80	83.20	103.00	457.00	387.00	844.00
FEB 90	3	30.30	25.00	55.30	341.00	645.00	986.00
MAR 90	4	54.73	0.00	54.73	713.00	457.00	1,170.00
APR 90	2	27.41	0.00	27.41	180.00	112.00	292.00
MAY 90	1	7.58	0.00	7.58	205.00	78.00	283.00
JUN 90	8	54.71	15.50	70.21	243.00	427.00	670.00
JUL 90	6	90.22	0.00	90.22	141.00	557.00	698.00
AUG 90	8	409.32	65.25	474.57	207.00	821.00	1,028.00
SEP 90	7	71.05	24.42	95.47	403.00	438.00	841.00
OCT 90	8	83.20	100.35	183.55	217.00	256.00	473.00
NOV 90	1	28.70	0.00	28.70	433.00	292.00	725.00
DEC 90	3	0.00	83.30	83.30	53.00	390.00	443.00
TOTAL	56	877.02	397.02	1,274.04	3,593.00	4,860.00	8,453.00
JAN 91	4	56.85	12.05	68.90	320.00	431.00	751.00
FEB 91	4	19.35	82.79	102.14	-	582.00	582.00
MAR 91	5	0.00	80.78	80.78	-	558.00	558.00
APR 91	4	18.20	63.80	82.00	-	606.00	606.00
MAY 91	5	0.00	83.78	83.78	-	345.00	345.00
JUN 1-15	3	0.00	74.42	74.42	-	347.00	347.00
TOTAL	25	94.40	397.62	492.02	320.00	2,869.00	3,189.00
GRAND TOTAL	128	2,121.49	984.26	3,105.75	8,936.00	15,169.00	24,105.00

ANNEX B

Evaluation Questionnaire Postcard*

We would be grateful if you would complete this questionnaire and mail it back to us after you have assessed the information provided by ICLARM's Selective Fisheries Information Service.

1. Quality. The information was:
 - 99-----very useful
 - 15-----slightly useful
 - 1-----no use

2. Quantity. The information was:
 - 22-----all that was needed
 - 72-----most of what was needed
 - 17-----inadequate

- 3a. If for a specific project, the information:
 - 40-----improved the project quality
 - 46-----provided background data only
 - 6-----did not affect the project

- 3b. If for general knowledge only, the information:
 - 34-----led to new research ideas/projects
 - 34-----improved subject knowledge but did not lead to new research ideas
 - 4-----had no benefit to subject knowledge

4. Did the information help you locate or communicate with other researchers in your field?
 - 91-----yes
 - 19-----no
 - 5-----no response

* The figures given on the answer spaces are the tallied replies.

ANNEX C

COMMENTS FROM THE QUESTIONNAIRE CARD
MARCH 1988 TO JUNE 15, 1991

NAME	COUNTRY	COMMENTS
Eric Marshall	Canada	Very prompt response.
Dr. S.S. Jana	India	None
U.S. Amarasinghe	Sri Lanka	Requested reprints etc. in exchange will be sent in due course, together with reprint requests. Use of VPA in reservoir fisheries seems to be lacking. Information on tropical stock assessment using VPA (cohort analysis) is requested.
Dr. D.V. Lakshmipathi	India	Your letter dated 27/2/89: The requisite material shall be sent shortly.
R.E. McClure	Oman	Data received was more extensive than I could have hoped for. Thank you.
Catja Walker	Fed. Rep. Germany	The ICLARM'S Selective Fisheries Information Service is a very good idea.
Theresa Redding	U.K.	The reply was very prompt, useful and helpful.
Aliyandin Ali	Malaysia	The information helps the report that I am preparing.
P. Van Zweiten	Papua New Guinea	None
A. Risnawati	Indonesia	Thank you for your good letters and the article. It is very serviceable in order to my enquiry.

Dr. P.K. Mukhopadhyay	India	Wonderful service from Info. Dept. (SFIS of ICLARM).
M.J. Coates	Zimbabwe	Many thanks for the prompt delivery of the literature asked for. Unfortunately 2 of the publications I had
obtained		previously. I would greatly appreciate any information you have on <i>Clarias gariepinus</i> for fish culture.
John Lancini	Thailand	An excellent service.
U.S. Amarasinghe	Sri Lanka	The list which has been sent consisted of only the citations on Sri Lanka reservoirs. I need more information from other countries.
C.S. Anantha	India	The information sent by you was moderately useful but we would be very grateful if you can sent some more references not covered by ASFA.
Barliah	Indonesia	I can't send a copy of my research report yet. Because my research has not been completed, and it needs a lot of time to write research. But I'll send it as soon as I can.
S.U.K. Ekaratne	Sri Lanka	None
N.C. Nandeesha	India	I would be grateful if you could supply ASFA database abstracts for the period 1985-88 on the topic "Wastes as fish feed".

Norbert Kayambo	Tanzania	The Selective Fisheries Information Service provided by your organization is highly commendable in view of the non-availability of publications especially in third world countries. Please, keep it up.
B.K. Mishra	India	The information provided is very useful but inadequate. I would like to have more information if available.
R.K. Thompson	Mauritius	Could not write for further information to the author because names of specific authors are not given, e.g., International Symposium on Tilapia in Aquaculture, Nazareth, Israel, all papers listed are being authored by editors Fishelson and Yaron - Believe this could be improved. Under source could put in original author. [Comments on ASFA data entry system]
Idemudna Oseyomon	Nigeria	The information should be made available in the form of a publication of a manual on the subject.
Porfirio Manacop	Uganda	This service has been very useful in connection with our research on resource assessment work on the lakes of Uganda.
Sodje Andrew	Nigeria	The information sent to me was of enormous help in understanding the techniques involved in carp culture. Thanks.

Kashane Chalermwat	U.S.A.	The article I received were very useful. However, I had some of them at hand through various sources. Perhaps for researches based in developed countries just a list of publications would be sufficient. I think doing so would save SFIS much time and expense.
Hideyuki Tanaka	Fiji	A bit problem when asking photocopy of your continuous printing papers. Could you take into account more convenience ?
Yap Fishing Authority	Federated States of Micronesia	The references as to who to write to for more information were useful.
Steve Claubeson	U.S.A.	None
Carunia Firdausy	Australia	Very good and thank you.
Kee-Chai Chong	Thailand	None
A.M. Dulip	India	I need to digest the information, it was very useful anyway. Thanks.
Sandra Shumway	U.S.A.	Your help is greatly appreciated. I will be glad to forward a copy of my MS upon completion. Thank you.
Roberto Foscarini	Fiji	None
L. Uche Onyia	Nigeria	Grateful for the materials received would like to receive your magazine too.
Henry O. Eze	Nigeria	Please I'd be grateful to be getting your newsletter from time to time and other materials sent by you.

David Zoutendyk	Cook Islands	It is extremely useful to researchers like myself in isolated locals to have a services like yours willing to provide information gathering work. Thank you very much.
Dr. Francisco Medina	Mexico	I am very impressed with the service and friendliness of the staff. I am also most grateful for the information I received I will surely recommend the service to other colleagues in Latin America.
James A. Brown	Marshall Islands	None
D. Reyntjens	Brazil	The information was specifically required to serve as background data.
P. Mohanasundaram	India	Doing a commandable service to fisheries science.
V.K. Rajbanshi	India	The program of Selective Fisheries Information Service is very useful as it saves a lot of time of scientists which is normally taken in libraries in reference collection.
H.P. Amandakoon	Sri Lanka	None
Ononusu Obinna	Nigeria	Still needs some area to be treated in detail.
Jutie Limin	Indonesia	We still need SFIS help in the future. Article for exchange will be sent soon. Thank you very much.
Sule Gambasi	Nigeria	Further assistance will be greatly appreciated. I will be glad if I can be placed in your mailing list for Aquabyte and Fishbyte.

Babatunde Olufemi	Nigeria	The publication is very useful. I wish to receive more of your publication.
A.M. Mustafa	India	The literature requested was for the management and conservation of coral reef eco-system in particular.
S. Radhakrishnan	India	Continued services of SFIS highly appreciated.
K.K. Appukkuttan	India	None
Edwin Sudjarwo	Indonesia	The information you sent us in general are very useful for us.
M.A. Pachano M.	Venezuela	No habia contestado antes, bedio a demora en el recibo de la correspondencia.
Jessica O\$ate	Philippines	Good and challenging information.
Jose L. Mariano, Jr.	Philippines	None
S. Maruthamutan	India	Since our Laboratory is situated in remote area, it is very useful.
Nnani Emmen	Nigeria	ICLARM'S SFIS is playing an important role. Books sent were very useful. More is needed in the field of fry management, etc. Thanks a lot.
Dr. A. Pathiratne	Sri Lanka	Many thanks for sending a computer search using ASFA abstracts.

Jones Z. Rante	Indonesia	As soon as I finish my thesis I'll send you a copy. Thanks a lot for your kindness, your attention and your friendship. Hope you'll like to be a friend of mine.
James O. Obuseh	Nigeria	It was an excellent job. I require more of such information as my snail breeding project is about to start off on small scale.
Nkoyo B. Edem	Nigeria	I am really grateful for the information provided and since my organization is a non-profit type, I will rather exchange ideas. Thank you.
Mohamed El-Tahir Ali	Sudan	I've found your information service quite helpful and I would appreciate receiving more adequate information in form of reprints.
A. Martin	Netherlands	None
Getachew Aweke	Ethiopia	None
Khalid A. Memnon	Pakistan	Keep up the good work.
Rasson Mhone	Zambia	Solar (energy) systems have any hope of providing a meaningful services within community, fish farming is helpful in rural areas.
Silver O. Odhe	Nigeria	I am really impressed with the information however, if there is any other technical assistance you can prove.
Minhaj Uddin Ahmed	Bangladesh	The service should be free to developing countries.
Dr. Ha Chee On	Malaysia	None

Julieta R. Unson	Philippines	It was a great help for my research.
Popoola Olayinka	Nigeria	The information has enable me to know more about the Cyprinid family which also guide me on my project work on the common carp pituitary administration and care.
A.W. Dulip	India	I needed information on the design of snail farm, inputs and specific knowledge on how to culture them.
Dr. H. von Westernhagen	Federal Republic of Germany	None
Aris Mindiptiyanto	Indonesia	Special thanks to Ms. Rosalinda M. Temprosa. I will send my paper after its completion.
Peter Woodward	Bermuda	None
Rebecca P. Diaz-Serna	Philippines	I am very grateful for the concern and support that you extend to us especially new researchers. The information that you sent were very valuable to me. Thank you and more power.
Rufus Angadigha	Nigeria	Information needed are for pond construction and good management of fish farms.
Jimmel Mandima	Finland	The information on reference lists for the subject in question was very useful. I would be more grateful if more reprint copies could be sent also.
Gilda Lio-Po	Philippines	Thank you very much. Scientific names should be italicized or underlined.

Dr. Samdi Lazanez Musa	Nigeria	I appreciate very much ICLARM's response to my needs for the research I'm involved in.
Dr. V.K. Rajbanshi	Singapore	Selective Fisheries Information Service of ICLARM is most useful to the scientists in expediting their research findings since finding the literature is one of the very time consuming part of the research.
S.H. Somashekar	India	The quality of information, what you have sent me is excellent and has helped me a great deal in promoting my knowledge of the subject. I will be grateful if you could continue to support my literary requirements.
Isabel Oryekesa	Nigeria	The information was very useful to my research areas. I wish more of your good work could be sent to me.
Roberto Espinoza Paz	El Salvador	By the moment, I can't send you my thesis because I work in this.
Joseph A. Babasanmi	Nigeria	I still need more information concerning breeding on fingerling and general management of the pond.
Dr. V. Lakshimpati	India	Data pertaining to invertebrate enzymes, particularly in relation to polymorphic nature of these enzymes is not fully covered.

Notowinarto	Indonesia	Please would you like to give me information - researcher (fisheries scientist) from U.S.A., Europe or other countries.
Uwelu Fish Farmers Coop	Nigeria	We request more help on fish farming/fishing.
Michel Kulbicki	New Caledonia	I was very pleased with the material sent, but a little surprise that the search did not find a number of other publication on that matter.
Kiflemariam Melake	Ethiopia	None
W. Mhlanga	Zimbabwe	The service is providing much needed information on research in tropical waters.
S. Radhakrishnan	India	Would very much like to continue to receive assistance from the esteemed ICLARM.
John Butcher	Australia	Materials (especially on San Miguel Bay), advice and references have helped me enormously. I have sent Dr. Pauly a copy of the draft of the article I am working on - I will send you a copy when it is published.
B.B. Solarin	Nigeria	The information has been very invaluable. The response received so far from those I contacted has been very informative and useful. Thanks for your efforts.
Nnaemeka Okafor	Nigeria	Thanks for your cooperation.
David Thomas	Nigeria	None
Merlina N. Andalencio	Philippines	None

Edward Kali-Tchikati	Congo	Thank you very much for the work done.
M.A. Sekar	India	None
Alie	Indonesia	Thank you for the information sent.
Williams O. Olatubi	Nigeria	This information service is a highly commendable one. It should continue.
Taiwo Ayansanwo	Nigeria	None
Golam Kibria	Zimbabwe	None
Judy B. Breva	Philippines	Contains all the necessary information needed.
Ju Beng Sheng	People's Republic of China	Thanks for your kind service. It provided me a better view of the recent research work done in my field.
Albogast T. Kamuvuru	Finland	Most of the references were descriptive as they were lacking analytical aspects on economics of various artisanal fishing gears.
A.J.T. Oboto	Nigeria	Your service made available much desired information that was locally not available.
Dr. P. Jayapala	India	Excellent service to researchers in developing countries.
M. Akhteruzzaman	Bangladesh	The service should be free for developing countries.
Arvin D. Salem	Philippines	None
Dr. D.O. Oketo	Kenya	Always grateful to your service. Please, keep it up... Thanks

Chan Eng Heng	Malaysia	Am very appreciative of the service which is prompt and efficient.
Arvin D. Salem	Philippines	None
S.O. Alamu	Nigeria	I really appreciate your assistance but I shall have the problem of getting the publications relevant to my work on women in small-scale fisheries.
Deputy Librarian College of Fisheries Mangalore	India	Information is found to be useful. Kindly put me on your free mailing list for similar information.
Samuel Emiaso	Nigeria	None