



International Association of Aquatic and Marine
Science Libraries and Information Centers

newsletter

Number Forty-Nine
December 1993

FROM THE PRESIDENT....

Each year it seems the conference will never get here — then all of a sudden it's over. The success of the Conference is due to many people working together. First I want to thank our local host, the NOAA Libraries. In the midst of moving their library they still coordinated all the local arrangements. The Committee, headed by Janice Beattie and Mary Lou Leonard, arranged for a central location, fantastic social events and wonderful tours.

I owe a tremendous debt to all those who responded to my call for papers. The papers presented this year were outstanding. As always I came away from the conference with new ideas. This year I gained some different perspectives on old problems and the realization that we face the same problems no matter what the culture or which government is in power. For those of you unable to attend the abstracts are included in this edition of the Newsletter. Copies of the proceedings should be ready in the Spring. You can place your order with Jim Markham.

And a special thanks to all of you who attended. It was good to see so many non-North American participants (about 20% of the registrants). The attendees provided the critical interactions that expand our knowledge and enable us to find our common ground. In five days we got to know more about one another, and other libraries and information centers. We took steps in learning how we can cooperate with each other. I think we all came away with a renewed sense of the importance of our roles as information providers and the need for planning for the future.

The new IAMS LIC officers became official at the end of this year's conference in October. As your president I am eager to try to find some new ways to reach out to the membership, to create new

regional groups in various areas to meet the needs of those who can not attend international meetings, and to continue to promote strong professional ties.

It will take planning and commitment from everyone in IAMS LIC to make our organization grow and be responsive to the many, varied needs of our members. Our Association works because of all the dedicated regional and international committee members. All committees can use your help, even if you have only a little time to help with the committee's work. It all helps and adds up so that no one has to spend tremendous numbers of hours. Our Association is stronger because of the diverse inputs and the combined efforts of the members. Please contact me or any of the committee chairs to volunteer to work with us.

In an organization as large as ours, it is difficult to meet everyone. I am sure many of you do not know me, nor do I know all of you. Since being affiliated with IAMS LIC I have seen a number of changes. All of these changes have been in response to the needs and ideas of the membership. I encourage you to let me or any other member of the Executive Board know how IAMS LIC can help you. Is there training or information can we provide to assist you in your professional development? Are there topics you would like to see in the Newsletter, on the Bulletin Board or at the Conference? What areas should the Association be involved in? All of the address and phone numbers of the Executive Committee are listed in this Newsletter. Please feel free to contact us if there are IAMS LIC matters that you want to discuss.

- Elizabeth A. Fuseler

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ALSO IN THIS ISSUE:

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✓ IAMS LIC Information & Membership Invitation

1993/1994 IAMS LIC OFFICERS

PRESIDENT

Elizabeth A. Fuseler
Head, Science & Technology Division
Colorado State University Libraries
215 Morgan Library
Fort Collins, CO 80523 USA
(303)491-1876
Internet: bfuseler@vines.colostate.edu

PRESIDENT-ELECT 1994-95 (Conference Convenor for IAMS LIC'94 to be held in Honolulu, Hawaii USA)

Eleanor Uhlinger, Librarian
Bodega Marine Laboratory Library
University of California at Davis
P.O. Box 247
Bodega Bay, CA 94923-0247 USA
(707)875-2015
Internet: ucdbml@ucdavis.edu
BITNET: ucdbml@ucdavis.bitnet

PRESIDENT-ELECT 1995-96 (Conference Convenor for IAMS LIC'95 to be held in Southampton, UK)

Natalie Wiest, Library Director
Jack K. Williams Library
Texas A&M University at Galveston
P.O. Box 1675
Galveston, TX 77553-1675 USA
Omnet/Sciencenet: TAG.LIBRARY
Internet: wiest_n@tamug.tamu.edu
BITNET: wiest_n@tamug.tamu.bitnet

SECRETARY

Pam Olson
Pacific Biological Station Library
Canadian Department of Fisheries and Oceans
Nanaimo, British Columbia, Canada V9R5K6
Internet: library@pbs.dfo.ca

TREASURER

Stephanie C. Haas, Librarian
Marston Science Library
University of Florida
Gainesville, FL 32611-2840 USA
Internet: stehaas@nervm.nerdc.ufl.edu
BITNET: stehaas@uffsc.bitnet

Communications to IAMS LIC should be directed to:

Kristen L. Metzger
Harbor Branch Oceanographic Institution
5600 U.S. 1 North
Ft. Pierce, Florida 34946 USA
Tel (407)465-2400, Ext. 201
Fax (407)465-2446
Internet: harbomet@class.org

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IAMS LIC assumes no responsibility for the statements and opinions advanced by contributions to IAMS LIC publications. Editorial views do not necessarily represent the official position of the association.

EDITOR:

Richard A. Eissinger
Coordinator of Instructional Resources
Sterling C. Evans Library
Texas A&M University
College Station, Texas
77843-5000 USA
Tel (409)862-1060
Fax (409)845-6238
Internet: iamslic@tamvm1.tamu.edu

CONTRIBUTING EDITOR:

Peter Brueggeman
Public Services Librarian
Scripps Institution of Oceanography
Library 0175C
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0175 USA
Tel (619)534-1230
Omnet/Sciencenet: SCRIPPS.LIBRARY
Internet: pbrueggeman@ucsd.edu

LAST CHANCE TO RENEW YOUR IAMS LIC MEMBERSHIP

If you found a renewal invoice in this issue of your IAMS LIC Newsletter, it means your membership expired on October 1st, and this is the last copy of the IAMS LIC Newsletter you will receive until your invoice has been paid.

To renew, update the information provided on the invoice form and mail it along with your check immediately. The check should be made out to IAMS LIC. Regular Membership is \$35. Sustaining Membership includes \$20 for twinning with a library from a developing country. If you choose to become a Sustaining Member, you may select a library with whom you wish to twin. Connie Cooke can provide the details. If you are from a developing country, you may choose to join at a reduced rate of \$20.

If you received a second notice, but believe it was in error, please contact Joe Wible at: Joe Wible Harold A. Miller Library Hopkins Marine Station Stanford University Pacific Grove, CA 93950-3094 (408) 655-6228 (408) 373-7859 (FAX) wible@krypton.stanford.edu

IAMSLIC BUSINESS

BYLAWS COMMITTEE REPORT

The specific business of the Bylaws Committee for this conference was the proposed change to the bylaws concerning the permanent address for IAMSLIC. Voting results overwhelmingly approved this change, so the permanent address for IAMSLIC henceforth will be:

**Harbor Branch Oceanographic Institution, Inc.
Library 5600 U.S. 1 North
Fort Pierce, FL 34946 U.S.A.**

New chair of the Bylaws Committee for 1993-94, by virtue of his being immediate past president of IAMSLIC, is Eirikur Einarsson.

NEWSLETTER ISSUES

At its preconference meeting, the Executive Board made several decisions concerning the newsletter. First, in response to a non-IAMSLIC member's request to have a separate fee for subscription to the newsletter only (no other membership services), the Board voted "NO". The reasoning behind the decision is that the newsletter is a primary benefit of joining IAMSLIC and is a way IAMSLIC provides extra value to those without access to the electronic bulletin board. IAMSLIC's cost of membership is relatively low, and most of that goes to supporting the newsletter. It provides benefits to the majority of our membership who can not attend the annual conference, and supplements information gained at the conference or accessible via electronic bulletin boards.

The Board voted "YES" to provide a complimentary copy of the newsletter, and complimentary membership in IAMSLIC, to the Intergovernmental Oceanographic Commission which is a major sponsor of attendees at the annual meeting of IAMSLIC. Most IOC-sponsored attendees are from developing countries.

COMMITTEE ON INTERNATIONAL COOPERATION

IAMSLIC's Committee on International Cooperation has been disbanded by action of the Executive Board at the Annual Conference. The sentiment of the Board was that this committee's function is redundant with the overall objectives of IAMSLIC, i.e., to exchange ideas and explore issues of mutual concern applied "...to the recording, retrieval and dissemination of knowledge and information in all aspects of aquatic and marine sciences and their allied disciplines." (Bylaws) The Board noted IAMSLIC's support to GEMIM is a direct example of our organizations's commitment to worldwide information exchange.

GEMIM

GEMIM, the Group of Experts on Marine Information Management (UNESCO/IOC), met in Washington the week before the IAMSLIC Annual Conference. Pauline Simpson, the chairperson of GEMIM, informed IAMSLIC about the Action Items that GEMIM worked on. IAMSLIC will be cooperating and assisting on at least the following items:

1. Developing a list of newsletters for distributing MIM news. Pam Mofjeld and Janet Webster volunteered to help with this.
2. Monitoring further developments of electronic document delivery. A demonstration project is being set up to test Ariel. Peter Brueggeman at Scripps and Ganeshan Rao at PIMRIS will conduct the testing.
3. Develop standard structures for compiling a directory to include marine science libraries. David Moulder has worked with his committee to set up the structure for scientists, but that committee will not be continuing on to work with Library record structures. Carol Winn and Martha Andrews volunteered to help.
4. Distribution of surplus documents. Yacouba Sankare, Centre de Recherches, Cote d'Ivoire, will take on this work, but needs help. Dodie Guffy's name was suggested as the IAMSLIC person with the most experience with this and she will be contacted for more information.
5. Providing developing countries with an intercomparison paper on the requirements, facilities, and use of Internet vs. Omnet. Cathy Norton volunteered to prepare this.
6. Global Directory of Marine Organizations, Libraries, and Scientists. This item created a great deal of discussion on how this task might be accomplished, who should be directly involved with it, and what information might be included. Developing a worldwide directory is an awesome task. Some ideas discussed were developing it along regional lines; where and how libraries information would be incorporated; who should develop mailing lists; who should be responsible for ensuring institutional response; what criteria for including a person or institution; method of electronic information gathering; how can it be updated in the future. It was moved, seconded, and approved by vote of the membership that IAMSLIC have a small coordinating committee to deal with this issue. Cathy Palmer, Stephanie Haas, Paula Wolfe, and Pauline Simpson volunteered to serve with this committee.

The Summary Report of GEMIM IV in Washington D.C. is now being distributed. If you would like to have a copy and have not received one, please contact Peter Pissierssens at the IOC. The next GEMIM meeting is scheduled for 1995. Progress reports on action lines will be included in the IAMSLIC Newsletters.

REGIONAL & INTERNATIONAL NEWS

ICLARM - International Center for Living Aquatic Resources Management.

ICLARM Library Conducts Information Survey.

The results of SIFR, The Study of International Fisheries Research, commissioned by the major donors to the fisheries sector, stressed that the degree to which lack of information is a constraint to the development and management of the sector must be studied and the impending factors must be removed.

In August 1993, SIFR jointed forces with the Food and Agriculture Organization/Regional Office for Asia (FAO/RAPA), and the Pacific Southeast Asian Fisheries Development Center (SEAFDEC) and other agencies to undertake a review of information and statistical services in Asia. As part of this regional survey, ICLARM was asked to do a comprehensive study of nonstatistical information programs and services. Serial holdings from the major libraries and information centers within the region, especially those with information services, are being requested, for comparison purposes.

Thirteen countries and 45 libraries are being surveyed are represented in the survey: Bangladesh (1 library), Brunei (1), China (6), India (7), Indonesia (5), Japan (1), Malaysia (5), Philippines (8), Singapore (92), Sri Lanka (2), Taiwan (1), Thailand (5), and Vietnam (1).

A union catalog is expected to be produced from the data and will be made available on diskette and hard copy to the participating libraries and information centers. Mr. Jay L. Maclean, Information Division Director, heads this project while Chief Librarian Linda M. Temprosa implements and supervises the conduct of the survey.

Workshop on Fishery Information and Statistics

A national workshop on Fishery Information and Statistics, sponsored by ICLARM and SIFR (Study of International Fisheries Research), was held at ICLARM headquarters on 31 August 1993. Ms. yong-Ja Cho, SIFR Consultatnt, conducted the workshop. The SIFR addresses the problem of lack of information which is a constraint to the development and management of the fisheries sector.

The workshop was organized by Jay Maclean and Linda Temprosa, Information Division Director and Chief Librarian, ICLARM. It was attended by 55 participants from various Philippine government agencies, private institutions and regional organizaions.

The one-day workshop discussed the survey of fisheries information providers and users which will become the background material for a regional workshop on fishery information and statistics in Asia to be held in Bangkok, Thailand, in February 1994.

- Rosalinda M. Temprosa, Chief Librarian

IAMS LIC CYAMUS REGIONAL GROUP

The IAMS LIC Cyamus regional group encompasses the West Coast of North America and Hawaii; including, Alaska, British Columbia, Washington, Oregon, California, Baja, and Hawaii. Members represent academic, governmental and private institutions concerned with the aquatic environments. Cyamus has developed a regional list of serial holdings which is accessible via the Internet. Annual meetings are held in March, giving members the opportunity to visit relevant libraries and as a forum to exchange ideas between the annual IAMS LIC conferences. The next Cyamus regional meeting will be held March 10-12, 1994 at the University of Washington, Friday Harbor Laboratory in the San Juan Islands. We welcome all interested members and non-members to join us. For more information about Cyamus activities contact: Pam Mofjeld, Cyamus Representative, University of Washington, Fisheries-Oceanography Library, WB-30, Seattle, Wa. 98195. Telephone: 206/543-4279, E-mail: mofjeld@u.washington.edu.

INFOTERRA

The INFOTERRA network comprises a partnership of 140 countries which have designated national focal points to promote the exchange of environmental information. Several countries maintain national directories similar to this publication. To obtain the address of the INFOTERRA National Focal Point in your country, contact: Dr. Woyen Lee, Director, INFOTERRA Programme, Activity Centre, United Nations Environmental Programme, PO Box 30552, Nairobi, Kenya. Phone:(254 2)230800; Fax:(254 2)226890. INFOTERRA/USA : Directory of Environmental Sources

Anyone who was unable to attend the IAMS LIC Conference, may wish to obtain a copy of the following report. The US Environmental Protection Agency generously donated copies to conference attendees.

INFOTERRA/USA : Directory of Environmental Sources, EPA/ISMD-91-014, October 1991.

The directory lists 445 US information sources which have agreed to provide environmental information free or at a minimal fee to international requestors. Sources include: Federal and State government agencies, academic, and non-governmental interest groups. To obtain the document, contact:

INFOTERRA/USA
US Environmental Protection Agency, PM-211A
401 M Street SW
Washington DC 20460 USA

RECOSCIX-WIO NEWSLETTER

Information and communication are the main aims of the RECOSCIX-WIO project, a co-operation of aquatic sciences institutes in East Africa and the island states in the Western Indian Ocean region, and a number of libraries around the world, several of which are IAMSLIC members. Participation in the annual IAMSLIC conference over the past few years has proven to be very fruitful for the project.

Scientific literature for the local scientists, scientific data on the WIO region, promotion of communication between scientists in the region and abroad, are but key phrases on the activities of the project. A complete explanation on the project has just been published in the project's newsletter WINDOW, and more on the co-operating institutes is to come in the next issues, as well as other information of general interest to the aquatic scientists around the globe.

To be put on the mailing list for free distribution of WINDOW, write to:

RECOSCIX-WIO Regional Dispatch Centre
P.O. Box 95832
Mombasa (Kenya)
Fax: (254 11) 472215
OMNET: RECOSCIX.MOMBASA
GreenNet: recoscix; Internet: recoscix@gn.apc.org

PIMRIS REPORT SOUTH PACIFIC GROUP

Although in the last issue of the IAMSLIC Newsletter a detailed account was presented on PIMRIS (Pacific Islands Marine Resources Information System), an introductory piece is repeated for the benefit of new readers (since this Newsletter is expected to reach many readers for the first time). An update on the activities of PIMRIS is also given in this writeup.

Background: PIMRIS is a networking system (of South Pacific regional organisations and Pacific island countries) devoted to the storage, retrieval, and dissemination of information on fisheries and other living and non-living marine resources in the tropical Pacific. The regional institutions are Forum Fisheries Agency (FFA), South Pacific Applied Geoscience Commission (SOPAC), South Pacific Commission (SPC), and University of the South Pacific (USP). The newest institution to join is the South Pacific Regional Environmental Programme (SPREP). The countries include the 22 island countries in the SPC region.

Services: This includes reference services, literature searches, current awareness service, inter-library loans, document delivery, training in library and management, and library consultancies. The clients range from fisheries officers/fishermen to research workers, government officers, librarians/information officers, and students/academics primarily from the region. Various information products such as newsletters, information packages, information bulletins,

bibliographies, texts etc, are produced by the cooperating organisations to facilitate information dissemination.

PIMRIS Database: A regional specific bibliographic database has been developed at the PIMRIS Coordination (at USP), recording items on marine resources held at the cooperating regional institutions a number of island countries. So far nine countries have contributed their records and four regional institutions. The database is developed using CDS/ISIS and currently holds over 10,000 records. It is only distributed within the region at this stage. It is foreseen that PIMRIS could participate in international databases but a lot of work is still to be done in order to let this happen.

Library/Information Management Assistance: Fisheries/Marine Resources departments in 14 island countries have received in-country training and assistance in Library and Information Management including database development. They are American Samoa, Cook Islands, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Northern Mariana Islands, Papua New Guinea, Solomon Islands, Tonga, Tuvalu, Vanuatu, Western Samoa.

International Cooperation: Successful understandings have been arrived at for document delivery and information sharing between PIMRIS and a number of institutions outside of the South Pacific region. Some of these include: ICLARM (Philippines), CSIRO (Australia), Scripps Institute of Oceanography (California), University of Miami, Colorado University, Plymouth Marine Lab.(UK), Japan Marine Science and Technology Centre, University of Oregon - Ocean Law Centre, University of Hawaii and INFOTERRA - International Environmental Research and Referral Information Network of UNEP via its USA national focal point. PIMRIS staff have been able to receive training attachments in marine institutions in Australia (University of New South Wales, Townsville University, Great Barrier Reef Marine Park Authority) and Canada (Pacific Biological Station). Most of these initiatives were possible through IAMSLIC's mandate of international cooperation.

Administration: PIMRIS is directed by a Steering Committee comprised of representatives from regional organisations and the countries. The USP, FFA, and SOPAC component - funded by International Centre for Ocean Development (Canada)/ Canadian International Development Agency and the SPC Component is funded by the Government of France.

Contact Address: PIMRIS Coordinator, USP Library, PO Box 1168, Suva, FIJI, Phone 679/313900, Ext 2284, Fax 679/300830, Email: rao_g@usp.ac.fj

- Ganeshan Rao, PIMRIS Coordinator

CONFERENCES & MEETINGS

EURASLIC V

The next meeting of EURASLIC is to be held at the Morski Instytut Rybacki (MIR)(Sea Fisheries Institute) in Gdynia, from 28-29th April 1994, hosted by the EURASLIC Vice-President, Henryk Ganowiak, who will be assisted by colleagues from Gdansk and Sopot.

MIR

MIR has recently moved to a new site and modern building. Its origins go back to 1921, when the Marine Fisheries Laboratory, as it was then called, was located in a small house in the fishing village of Hel. It now employs several hundred people, with branches in Szczecin and Swinoujscie. The work of the Institute includes physical and biological oceanography; fish stocks in the Baltic and fish and invertebrate stocks outside the Baltic; fishing techniques, fishing gear, fishing vessels, and marine electronics; fish processing technology and mechanization; and fishery economics and statistics. Nearly 500,000 a year visit the Institute's oceanographic museum and aquarium.

Gdynia

Gdynia is one of the youngest Polish cities, having been established in 1928. The Polish government had decided to build a new port at Gdynia in 1922, to provide a Polish outlet to the Baltic. At that time, under the Treaty of Versailles, Poland only possessed a narrow coastal strip of land in Pomerania. The port developed rapidly, and it is now the largest in Poland. The city has a population of 250,000.

Travel

Transport in the Tri-City (Gdynia, Sopot and Gdansk) is good, with buses, electric trains and electric buses. A ferry links Gdynia with Sweden, and there are good air links through the airport at Gdansk.

Hotels

Henryk Ganowiak has given a rough guide to hotel costs, for bed and breakfast, but says that costs may increase by about 15% next year:

<u>Hotel Category</u>	<u>Room</u>	<u>US \$ Price</u>
First Class	Single	50.00
	2 persons sharing	35.00
Pension	Single	25.00
	2 persons sharing	15.00
Two Star	Single	20.00
	2 persons sharing	10.00

Programme

No final decisions have been taken on the programme, but it is likely to include some of the following topics:

- Possible Workshops on:
 - availability and distribution of duplicate/surplus books and serials
 - the problems of archives and the conservation of documents and other materials
 - library suppliers in Europe
 - training needs
- Papers on relevant developments (we are open to offers, and we have a few offers already).
- Country reports on developments across Europe.

EURASLIC Business Meeting (election of officers, reports on membership, finance, activities since the last meeting, future activities and meetings).

EURASLIC (European Association of Aquatic Sciences Libraries and Information Centres)

 Registration Information for EURASLIC V:
 Gdynia 28-29th April 1994

I hope to attend the EURASLIC Meeting

Name _____
 Title _____
 Organization _____
 Address _____
 Telephone _____
 Fax _____
 E-mail _____

I would like to suggest that the following topics be discussed:

I would like to give a paper/demonstration (Please give details):

Send to:

Henryk Ganowiak,
Morski Instytut Rybacki,
Ul. Kollataja 1,
81-332 Gdynia,
Poland

20th ANNUAL IAMSLIC CONFERENCE
Building Global Connections
Conference Announcement & Call for Papers
October 9-13, 1994
Honolulu, Hawaii

The 20th Annual IAMSLIC conference will be held in Honolulu, Hawaii, on a new set of days. The conference will open SUNDAY night October 9 and will conclude on THURSDAY October 13. Discussions at the 19th Annual Conference suggested that this schedule provides a better fit with most economy air travel requiring a Saturday night stay. The conference theme, BUILDING GLOBAL CONNECTIONS, is intended to focus our attention on:

1. Expanding international participation:

- This newsletter is reaching more libraries than our previous mailings; likewise, we hope to attract many new members & attendees from Pacific Islands & Pacific Rim nations to our 20th annual conference: we want to see pictures and hear descriptions of their libraries, services, institutions, and regional needs.
- The Regional Group structure has facilitated additional net working within specific regions: we want to hear more about these groups, their member libraries, how they solve their local information needs, & how IAMSLIC can help.
- What is IAMSLIC's past and where are we heading in the next 20 years?
- Building regional, national, and international directories of aquatic & marine scientists and libraries: how can we help GEMIM meet their objectives by organizing our own local projects?
- What is happening with global telecommunications: Internet, Gopher, WAIS, WWW; is the web reaching out to our most distant members & if not, can we help?

2. Expanding aquatic & marine science subject knowledge:

- Defining a specific subject and relating it to the information needs of its researchers: oceanography, fisheries, aquatic sciences, ethnobotany, marine mammals, tsunamis, etc.
- Data issues: how can/do we work with data managers who store, manipulate, and retrieve large data sets?
- Multi-media issues: how do we evaluate, archive & retrieve information in various formats: video, sound-recordings, laser, CD-ROM, and satellite images; what about GIS?
- Professional liabilities: what is happening with copyright; how do information professionals negotiate fees to download and redistribute copyrighted information in locally created databases; issues of "quality control" vs "ranking" vs "censorship", etc.
- Professional development: as technology moves ahead, how do information professionals keep current; what new technologies do we need to be aware of; are librarians & publishers creating new dialogs?

The Conference will continue the traditional format of single sessions for oral presentations. However, we would also like to solicit posters, information, and databases to be

displayed in the exhibits area. We have not decided whether or not to hold a pre- or post-conference workshop. The organizers welcome suggestions for a 'hot topic' and for someone who is willing to organize this workshop.

YOU ARE CORDIALLY INVITED TO SUBMIT AN ABSTRACT OF A PAPER OR POSTER TO BE PRESENTED AT THE 20TH ANNUAL IAMSLIC CONFERENCE. Please send all submissions to ELEANOR UHLINGER. Submissions based on any aspect relating to the Conference Theme will be considered.

TIME SCHEDULE

MAY 1, 1994: Deadline for receipt of abstract for papers or posters.

JUNE 15, 1994: Notification of acceptance of proposed paper or poster. Notification will include Instructions to Authors for preparation of manuscripts for the IAMSLIC Proceedings.

NOVEMBER 1, 1994: Deadline for submission of completed manuscript.

CONFERENCE ORGANIZER

Eleanor Uhlinger
 Bodega Marine Laboratory Library
 PO Box 247 Bodega Bay, CA 94923-0247 USA
 INTERNET: esuhlinger@ucdavis.edu
 PHONE: 707/875-2015 FAX: 707/875-2089

CONFERENCE HOSTS

David Coleman
 Hamilton Library, Science & Technology Department
 University of Hawaii
 2550 The Mall
 Honolulu, HI 96882 USA
 INTERNET: coleman@uhunix.uhcc.hawaii.edu
 PHONE: 808/956-2540 FAX: 808/956-2547

Sandra Abbott-Stout
 NMFS Honolulu Laboratory Library
 2570 Dole Street
 Honolulu, HI 96822-2396
 INTERNET: sstout@honlab.nmfs.hawaii.edu
 PHONE: 808/943-1232 FAX: 808/943-1920

SAIL CONFERENCE

SAIL (Southeast Affiliate of IAMSLIC Libraries) will hold its 4th Annual Meeting on May 4-6, 1994, in Panama City Beach, Florida, at the Ramada Inn-Beach. The theme "Information Resources in the Southeast" will include sessions on: The International Shark Attack File, E-MAP (estuarine pollution monitoring), Wetland Values Database, Aquatic Plant Database, Gulf of Mexico Program, Aquaculture, Oil Spills, Mississippi River, Exotic Species Database, and the Marine Mammal Stranding Network.

There will also be two field trips: a tour of the National Marine Fisheries Service Laboratory in Panama City Beach, and a visit to a typical northern Gulf of Mexico barrier island, Shell Island. Panel discussions will be held on various topics of interest to marine science librarians, such as problems with jobbers and how to deal with a budget crunch. Non-SAIL members are invited to attend.

To request more information and a registration packet, contact:

Rosalie Shaffer
National Marine Fisheries Service Library
3500 Delwood Beach Road
Panama City, Florida 32408
Tel 904/234-6541 Fax 904/235-3559

Sue Ann Lewandowski
LUMCON Library
Chauvin, Louisiana 70344
Tel 504/851-2875 Fax 504/851-2874

1994 Conferences

March 10-12, CYAMUS
Friday Harbor, Washington

April 28-29, EURASLIC V
Gdynia, Poland.

May 4-6, SAIL, 4th Annual Meeting
Panama City, Florida.

July 3-8, Bipolar Information Initiatives
Cambridge, England.

October 9-13, IAMSLIC, 20th
Honolulu, Hawaii.

15TH POLAR LIBRARIES COLLOQUY BI-POLAR INFORMATION INITIATIVES: THE NEEDS OF POLAR RESEARCH

July 3-8, 1994 Girton College
University of Cambridge, Cambridge, England

The Polar Libraries Colloquy (PLC) is an international biennial meeting of librarians and others concerned with the collection and provision of polar information. The programme of papers, posters and discussions provides an opportunity for around 100 participants to share problems and solutions, find out about resources and new technology, and form working relations with their counterparts in other polar libraries. The benefits to participants' sponsoring organisations include improved access to other collections and sources of information, better awareness of available technology, and the energising effect upon staff of professional interaction and training.

In July 1994 the 15th PLC will be held in Cambridge, England, jointly sponsored by the Scott Polar Research Institute (SPRI) and the British Antarctic Survey (BAS). The programme will include tours of the libraries of both SPRI and BAS. Since there is a limited capacity of 120 delegates maximum, early registration is recommended.

COLLOQUY FEES will include a REGISTRATION FEE of 150 pounds sterling (est.). This will cover all general conference costs, including the excursion and the proceedings. In addition there will be an ACCOMMODATION AND RELATED FEES (Sunday 3 evening to Friday 8 morning) of 135 pounds sterling (est.). Accommodation has been arranged at Girton College.

The Colloquy is hosted by the British Antarctic Survey, Natural Environment Research Council, and by the Scott Polar Research Institute, University of Cambridge.

TO OBTAIN A PRE-REGISTRATION FORM, PLEASE CONTACT:

William Mills, Librarian and Information Officer
Scott Polar Research Institute
Lensfield Road, Cambridge, CB2 1ER, UK.
e-mail: WJM13@PHX.CAM.AC.UK
fax: (+44) 0223-336549 telephone: (+44) 0223-336557

NETWORK & COMPUTER NEWS

CYAMUS UNION LIST EXPANDED

The CYAMUS Union List of Serials, a database of serials holding of United States west coast marine science libraries, has expanded to include the serials holdings of east coast marine science libraries as well. New holdings have been loaded for SAIL regional members--Harbor Branch, NOAA Miami (AOMLab), National Hurricane Center, the Skidaway Institute of Oceanography, the Gulf Breeze (FL) EPA Lab, the NMFS Panama City Lab, the University of South Florida, and the Bermuda Biological Station for Research. Interlibrary loan policies for these libraries have also been loaded. The emphasis has been on loading smaller libraries whose holdings are not available by any other means on the Internet. Connections to selected online catalog systems are also available in the system for this purpose.

Acting as coordinator for SAIL is Tom Turner of the Skidaway Institute of Oceanography. Steve Watkins of the University of California at Santa Cruz and Joe Wible of Stanford's Hopkins Marine Station Library, administer the database.

To access the CYAMUS database, you may gopher to the University of California at Santa Cruz's InfoSlug gopher ([gopher infoslug.ucsc.edu](mailto:gopher.infoslug.ucsc.edu)), where "Marine and Aquatic Serials Lists" will be found under "Other Libraries". Or you may access by:

- Type "Telnet [or tn] scilibx.ucsc.edu"
- Login as "iamslic"
- Hit carriage return at line stating "term = (vt100"
- Choose "Cyamus Union List of Serials" [First-timers should choose "Cyamus Union List of Serials over view)"]
- Login as "cy-list"

For further questions contact:

Steve Watkins (watkins@scilibx.ucsc.edu) or
Tom Turner (tturner@uga.cc.uga.edu)

DECA: Microcomputer-Based Ecological Directory

DECA, a menu-driven database published by the Special Program for the Improvement and Development of Ecological Research (SPIDER) in Argentina, contains information on more than 3000 ecologists and environmental scientists in 45 countries of Latin America, the Caribbean, Spain, and Portugal. Each entry includes the name, address, and institutional affiliation of the person and contains information about their ecological research. DECA permits searches combining variables such as country, research activities, and,

nature of the institution. A working knowledge of Spanish is useful. DECA runs on DOS microcomputers, comes with a run-time version of Paradox, and consumes 7.5 megabytes of hard disk space. DECA is copy-protected and the original distribution diskette must be in use each time the program is run. DECA was created to link ecologists within Argentina and outside Argentina. For information on current pricing, distribution, and support of DECA, contact:

Dr Jorge Rabinovich, Director
SPIDER, Casilla de Correo 1395
1000 Buenos Aires, Argentina.
Tel 54-1/722950. Fax 54-1/6620999
Internet: ECOLOGIA@UDES.A.EDU.AR.

DOE ENERGY DATABASE

The Department of Energy (DoE) is studying the possibility of making its Energy Science and Technology Database (EDB) available to the depository libraries over the Internet or via direct dial-up services. The dissemination of the database with its 2.5 million records is part of an overall DoE plan to provide for widespread public access of the EDB by 1998, according to Charles Stuber, Assistant Director for Information Science and Management, Office of Scientific and Technical Information (OSTI). The decision to push ahead with depository library access comes after the DoE and the Government Printing Office (GPO) carried out a joint pilot project involving online and CD-ROM access to the database for six months in 1991 for a selected number of depository libraries. Results of that pilot were released last week by GPO in a report entitled, "Accessing U.S. Department of Energy Scientific and Technical Information."

NEW EARTH SCIENCE E-JOURNAL

The American Meteorological Society, along with American Geophysical Union, the Oceanography Society, and the Ecological Society of America are proposing to create the Earth System Science Electronic Journal, that would not just duplicate existing paper journals in electronic format, but would include 3-d displays, animation, holograms, and inclusion of data sets.

TIDE DISPLAY PROGRAM

A Tide Program is available via anonymous FTP from biome.bio.ns.ca in [/dfo/habitat/dan](ftp://dfo/habitat/dan). This is a MSDOS PC version of the program. Please note that to view tides you must select a coastal region from the main menu. Each state has its own version of the program. You must select the version for the state. The name is usually dd-3h-XX.exe where XX is a state code. This shareware program (DR Dan's Fishin Prediction) claims to be a "Fishing Prediction" program, however the program calculates and graphically displays tides values for all areas of the coastal United States.

MARMAM Listserv

A marine mammal research and conservation e-mail discussion list has been established, using the listserv at the University of Victoria. The purpose of this is to facilitate discussion regarding research and conservation of marine mammals, as well as for posting conference or meeting announcements, volunteer opportunities, new techniques or equipment available, new books published, etc. There is no cost for subscribing, messages sent to the list (MARMAM) will be forwarded to all members subscribing to the list. To subscribe, send a message to the listserv (listserv@uvvm.uvic.ca or listserv@uvic.bitnet), with a message in the text saying:

subscribe MARMAM your name

The subject line in the message should be left blank. Questions regarding the list can be sent to the list managers, David Duffus (ddvffvs@uvvm.uvic.ca) or Robin Baird (rbaird@sfu.ca).

[One observer of the listserv has noted that it is becoming cluttered with comments from interested observers. About 20 messages a day were being posted and few deal directly with research questions. Readers might be cautious before subscribing.]

FORO-L (Transborder Libraries Forum/Foro Internacional Bibliotecarios)

FORO-L has been established to extend the principles of networking and information-sharing between libraries in Mexico, the United States, and Canada begun at the annual meetings of the Transborder Library Forums. Postings to the list facilitate discussion of transborder library issues, information sharing among libraries across international borders, and reports of proposed and ongoing cooperative research projects.

To subscribe to FORO-L send an Internet mail message to:

listserv@arizvm1.ccit.arizona.edu

With the message:

subscribe foro-l firstname lastname

For any questions contact the listowner via the Internet at:

afiegen@ccit.arizona.edu

PHYSICAL OCEANOGRAPHY DAAC

The Physical Oceanography Distributed Active Archive Center, an element of the Earth Observing System Data and Information System (EOSDIS), archives and distributes data relevant to the physical state of the oceans. The goals of PO.DAAC are to serve the needs of the oceanographic and geophysical sciences research communities and to provide data in support of interdisciplinary research. The primary means of achieving these goals are through: acquiring, compiling, processing, and distributing data obtained from spaceborne and conventional instruments; producing and distributing higher level data products; and providing an increasing range of data services to the broad research community.

PO.DAAC supports data distribution by electronic file transfer (FTP) where practical, and data available in the PO.DAAC public account can be accessed electronically via INTERNET. PO.DAAC will be increasing the number of data sets that are available via FTP. Procedures for downloading PO.DAAC data over INTERNET are presented below:

- Invoke FTP on most systems by entering the INTERNET address % FTP HRIMP.JPL.NASA.GOV.
- Login by entering "user" at the prompt; when prompted for foreign user name, enter "anonymous".
- When prompted for password, enter your personal email name.
- Enter "dir" to get a directory listing; by entering a "cd" command, move to the directory that contains the files of interest to you.

The following are some new CD-ROM additions from PO.DAAC:

- AVHRR monthly global MCSST coregistered with CZCS data (Miami, GSFC) CD-ROM.
- The AVHRR MCSST and CZCS phytoplankton pigment concentration data set contains monthly averaged sea-surface temperatures (day and night) derived from NOAA satellite
- AVHR lankton pigment concentration data acquired from the CZCS instrument on Nimbus-7. The CZCS data cover 1978-1986 and AVHRR data cover the period from 1981 -1986, giving 5 years of coregistered data.
- Tropical Ocean and Global Atmosphere (TOGA) related collection of satellite and in-situ data 1985-1990 CD-ROM source/sensor: Multisensor, satellite and in-situ. Coverage: 1985-1990, global/regional depending on data set.

- TOPEX/Poseidon merged geophysical data record from NASA/PO.DAAC CD-ROM. The Topex/Poseidon MGDR (Merged Geophysical Data Record) contains global coverage altimeter data.

Ordering information can be obtained from:

User Services Office, Physical Oceanography DAAC
 Jet Propulsion Laboratory M/S 300-320
 4800 Oak Grove Drive
 Pasadena, CA 91109, U.S.A.
 PHONE: 818/354-0906, 818/354-2296
 EMAIL: po.daac.jpl on
 OMNET podaac@shrimp.jpl.nasa.gov on Internet
 TELEX: 675429 (Attention: PO.DAAC User Services Office)
 FAX: 818-393-6720 (Attention: PO.DAAC User Services Office)

DIALUP ACCESS TO NAUTICAL CHART INFORMATION

The Marine Data Computer Bulletin Board is offered by the Nautical Charting Research and Development Laboratory of the US Coast & Geodetic Survey. The bulletin board offers free public access to existing nautical charts and data. The system is menu-driven, easy to use, and available 24 hours per day. The bulletin board phone number is 301/713-4573 and the contact person is: **Ruby Becker, Tel 301/713-2653, Fax 301/713-4581**. The bulletin board supports 1200-9600 baud with terminal settings: 8 bits, No parity, 1 stop bit. Macintosh callers should set terminal to VT-102. Several databases are available, including the following:

1. Nautical Chart Locator
2. Hydrographic Surveys Index
3. Dates of Latest Editions
4. NOAA Sediments Data
5. NADCON Datum Conversion
6. NOS Wrecks & Obstructions Data
7. Tide Gage Locations
8. EEZ Maps Index
9. EEZ Surveys Index
10. States
11. Airport & Obstruction Charts
12. Airport Mapping Photos
13. Airport Center Shots
14. Nautical Sales Agents

The database used to locate charts (Nautical Chart Locator, #1 above), accepts latitude and longitude parameters and retrieves charts covering that location. The Nautical Chart Locator database covers the Northern Hemisphere and the latitude entered is assumed to be North Latitude. The Nautical Chart Locator database does contain information for both Eastern and Western Longitudes. A search for Latitude 33

Degrees, 30 Minutes and Longitude 120 Degrees, 30 Minutes followed by selecting West Longitude retrieved information on eighteen charts. The following information displayed for each chart: chart number, scales, upper and lower latitude, left and right longitude, and chart title.

NEW NOAA NGDC GOPHER

The National Geophysical Data Center, a division of the National Oceanic and Atmospheric Administration is pleased to announce that its Gopher server, gopher.ngdc.noaa.gov is open for business. This gopher will contribute Earth and near-Earth scientific data archives to gopherspace, as well as links to other gophers in the scientific, academic and data repository communities. Email comments and questions should be directed to gopher@gopher.ngdc.noaa.gov.

FREE INTERNET-ACCESSIBLE JOURNAL ARTICLE DATABASE

The Colorado Alliance of Research Libraries, CARL, offers its journal article database, UNCOVER, for open access over the Internet. The UNCOVER database covers 14000 serials and currently has over four million references, adding 750,000 annually. While UNCOVER is no substitute for searching Aquatic Sciences and Fisheries Abstracts or the Oceanographic and Marine Resources Volume 1 CD-ROM, it is free, readily available via Internet, and does cover major oceanography journals.

Connect to CARL and then UNCOVER by telnet to DATABASE.CARL.ORG. When connected, select your terminal type (eg 5 is VT100). Press the Enter key a few times to pass through some messages and then at CARL's opening menu, type "2" to select "Current Article Indexes", followed by "50" to select UNCOVER. Onscreen menus will guide you through searching and displaying references.

The CARL UNCOVER system can be used for document delivery ordering of references displayed onscreen. Previously-requested items are stored on computer and available for fax transmission within hours; newly-requested items take longer to deliver.

OMNET-INTERNET GATEWAY

The gateway between Internet and Omnet has been re-established. To send mail to someone with an Omnet address you just add @omnet.com to the end of their address.

SMITHSONIAN GOPHER

The Smithsonian Institution's National Museum of Natural History is pleased to announce the Smithsonian Natural History Gopher Server. With over 120 million collections and 135 professional scientists, the National Museum of Natural History is one of the world's largest museums devoted to natural history and anthropology. This server will provide access to data associated with the collections, and information and tools for the study of the natural world.

Initial offerings on the server are from the Department of Botany and the Laboratory of Molecular Systematics. Other departments will be joining this server shortly. The Department of Botany menu includes the Type Specimen Register for the US National Herbarium (88,000 records), an index to the historical collections represented in the US National Herbarium (1600 records as of 1965), recent issues of the Biological Conservation Newsletter and the American Society of Plant Taxonomists (ASPT) Newsletter, a biological conservation bibliography (over 6000 records), and a copy of the "Checklist of the Plants of the Guianas."

The Smithsonian's Laboratory of Molecular Systematics is providing an FTP server to the PAUP (Phylogenetic Analysis Using Parsimony) program and related software for phylogenetic analysis. This can be accessed from the Laboratory of Molecular Systematics menu on the Smithsonian Natural History Gopher.

The Department of Vertebrate Zoology includes checklists of known species names. Currently the Mammal Species of the World have been posted. We plan to expand this to include Amphibians, Fishes, etc.

The Gopher Server's Name is the **Smithsonian Institution's Natural History Gopher**, Hostname is **nmnhgoph.si.edu** (currently at 160.111.64.84), port number 70, in the Gophers of the World Hierarchy it is located at **North America / USA / washington DC**

For further information contact: Don Gourley, Gopher Administrator, don@smithson.si.edu or Ellen Farr, Department of Botany, mnhbo001@sivm.si.edu.

OSU LIBRARIES GOVERNMENT INFORMATION SHARING GRANT

It's official--Oregon State University Libraries has received a grant to demonstrate the feasibility of making Federally issued compact disks available over the Internet. The grant is under the College Library Technology and Grants program from the US Dept. of Education under Title IID of the Higher Education Act. The grant will total \$330,000 over three years.

The OSU project will focus on accessing sources of US Government information of interest to users in the Pacific

Northwest and sources of information having relevance for economic development. We will begin with sources from the US Bureau of the Census, including segments of the 1990 census and various updates. Sources from the Commerce Department are also being targeted as of high interest for the project. These information sources are received on compact disk by OSU Libraries and other libraries who are part of the US Depository library system.

PHASE ONE of the project will be developing a network on which to mount a number of compact discs. This network will be made available over the Internet and for dial-up use. In this phase users will access the CD's via software which was issued with the CD's.

US Government compact disks are issued with search software, however this software is sometimes inadequate or difficult to use. There is also the problem that various information sources (sets of compact disks) may be issued with a different user interfaces. LATER PHASES of the this project will include contracting for the development of a more user-friendly and consistent interface to the selected information sources. Such "gateway" software to the CD's will run on a UNIX computer system, which has also been funded as part of the grant.

The software developed under this grant will be in the public domain and available for use and further development by other libraries and organizations.

YOUR HELP is enlisted in two areas:

- Please let us know if you have ideas regarding a company or organization who might be in a position to develop a software interface (as described above)--bearing in mind the fact that the developers will not retain rights to such software.
- Please let us know if you are involved in a similar project or if you know of any organization involved in a related effort. There are certainly plenty of government information sources to make accessible--we want to concentrate on ones which are not likely to be easily accessible via another system in the near future.

**Next IAMSLIC Newsletter
Deadline
Friday, March 4, 1994**

**"Meta-Tools" For Enhanced Access to Global Change
Multiple Distributed Metadata Directories and Data
Collections**

Robbie Rand

Information Systems Division
US National Agricultural Library

Traditionally librarians and information management professionals have recognized the need to assist researchers in the complex multidisciplinary research areas. They have developed and applied tools to assist in the storage and retrieval of information. In response to the vast amounts of research data and information now being collected, it is acknowledged that additional retrieval tools are needed. These additional tools can be viewed as "meta" tools, enabling and extending the full use of existing tools. The United States Global Change Research Program (USGCRP) was established to observe, understand, and predict global change and to make its results available for use in policy matters. Activities of the USGCRP are coordinated by the Committee on Earth and Environmental Sciences (CEES), as prescribed by the Global Change Research Act of 1990. Because research data and information are of fundamental importance to the USGCRP, the CEES published a program plan whereby they committed to work with each other, with academia, and with the international community to make it as easy as possible for researchers and others to access and use global change research data and information. Toward this end, agencies participating in the USGCRP are organizing the Global Change Data and Information System (GCDIS) which takes full advantage of the mission resources and responsibilities of each agency and links the services of these research data and information resources to each other and to the users.

These interagency activities, including the GCDIS, are fully coordinated by a subcommittee of the CEES, the Interagency Working Group on Data Management for Global Change (IWGDMGC) which is a part of Working Group 1, Global Observations & Data Management, Data and Information Management.

For some time the IWGDMGC, GCDIS Catalog System Subgroup (CSS) and the Library Subgroup (LIS) have been discussing searching technologies to be used in GCDIS and in particular the need for improved accuracy of user queries to the Global Change Master Directory (GCMD). That need is for better access to research data and summary information within the Directory Interchange Format (DIF). The DIF is the standard data structure which was developed by the NASA Master Directory project to describe the gross aspects of Earth and Space Science Data Sets and contains summary material at a level of detail that is appropriate for general directory documentation.

In January 1993, the CSS formally requested assistance from the LIS by asking them to make recommendations for searching technologies to be used in GCDIS, and for improved GCMD keyword control. Critical to the success of the research agenda is better and more accurate access. The result of that request was the, "IWGDMGC Library Informa-

tion Subgroup, White Paper on Keyword/Thesaurus/Lexicon: Options."

To briefly summarize the "...White Paper...":

The LIS responded by presenting four options in detail, each with a summary statement, a statement of the implications for users and searchers, a statement of the implications for contributors of vocabulary terms, a statement of the implications for maintenance of the DIF standard, and related notes and suggestions.

They concluded that "...the most effective approach to providing keyword access for users of the Global Change Master Directory depends upon the future direction of the Master Directory in the context of the Global Change Research Program. As the GCMD contributor/user community broadens to involve additional complex domains and varying types of users (non-scientists and researchers), then a keyword strategy that is tied closely to the present community will not serve this larger community as well".

The four recommended options included:

1. Elimination of Most or All of the DIF Keywords
2. Development of a "Full Blown" Thesaurus/Lexicon
3. Expansion of the Existing DIF Vocabulary
4. Development of Alternatives to Controlled Keywords .

They further concluded, "...that Options 2 and 4, whether independently or in combination, offers the greatest flexibility in identifying data sets. The intellectual effort in assigning keywords in a thesaurus structure will be valuable in artificial intelligence applications and/or in using newer technologies for access".

The National Agricultural Library (NAL), Department of Agriculture, offered to coordinate an interagency pilot project to test the success of using these options. The notion for testing was towards establishing a "proof of concept, ...that traditional methods currently employed can be greatly improved because of available new technology". The intention of the was to follow the mandates of the recommended options as closely as possible:

"to...expand the existing GCMD controlled vocabulary at all levels by using a computerized, interactive, integrated knowledge base that is a semantic network combined with natural language understanding. This is achieved by linking together existing distributed vocabularies and dictionaries, using keyword mapping, and by adopting other mechanisms to provide concept-based searching. The result would be enhanced access to multiple, distributed metadata directories and data collections, without ownership, using natural language queries. The success of this approach will be determined, in part, by the rate of development and the direction of emerging semantic networking technology. The process could be accelerated by procuring currently available off-the-shelf client/server software which adheres to common standards for this technology. Additionally, a user's group will be designated to work actively with the developer".

ConQuest Software, Inc., is the basis of the project. ConQuest has an existing commercially available text and image retrieval system which uses natural language processing techniques, word meaning processing, and concept based information retrieval built from many electronically available dictionaries and thesauri. The knowledge base contains over 340,000 word meanings and idioms, connected by over 3 million links. Additionally, ConQuest has provided for the extension of the delivered knowledge base. ConQuest is currently working under a number of government contracts, with particular emphasis on medical applications through agencies such as the National Institute of Health (NIH), and other organizations.

ConQuest and the agencies agreed to work cooperatively towards framing a meaningful demonstration project which adhered to the white paper's stated multidisciplinary needs and requirements. The objective of the pilot would be to test the "ease of use" claims of the ConQuest retrieval system, test the accuracy of "plain English queries vs boolean queries, and provide a foundation for more concrete specifications of the requirements for providing access to a system for a much wider audience. The cost of the project would be shared by the participants. Assessment to each participant would be \$2,000.

The pilot project has two deliverables: a database on a DOS/Windows standalone machine, and a UNIX version with the database access being provided over the INTERNET through Z39.50. Participants would provide data in electronic form (not to exceed 15 MB each), in DIF, MARC, Full-Text, COSATI, and AVHRR Landsat images, new terminology, vocabulary expertise within their disciplines, and would make available a server for access to the UNIX version over INTERNET. ConQuest would load document databases, develop document parsers, load additional terms into the knowledge-base, build indices and test the system. Also, they would provide onsite ConQuest software installations, training (both locally and remotely), "800" telephone support, and make a commitment to pursue the Z39.50 information and retrieval protocol standard to ensure future full ConQuest functionality.

The pilot database contains 10,000 documents (120 MB) of global change related research data and information contributed by the participants. It is indexed to provide for "structured" and "unstructured" searching, and is constructed as a single composite library as well as separate libraries. Users have the option to search their own library or the composite library. Briefly, the database includes: treaties, which are the text of treaties, protocols and agreements, DIF files, word processing documents and medical records, an image associated with a document describing the HIV virus, ASCII documents, scanned documents, public opinion surveys related to environmental issues, and an AVHRR Landsat image (showing flooding in the midwestern U.S.).

Participants include: Argonne Laboratories, Cambridge Scientific Abstracts, Consortium for International Earth Science Information Network (CIESIN), Department of Commerce NOAA/EIS (National Oceanographic and Atmospheric Administration/Environmental Information Services),

NOAA/Library, National Technical Information Service (NTIS), Department of Defense/DTIC (Defense Technical Information Center), Department of Energy (Oak Ridge Labs), Department of Interior/USGS (United States Geological Survey), Environmental Protection Agency, Library of Congress, National Aeronautics Space Administration (NASA), Roper Public Opinion Poll, National Agricultural Library/Department of Agriculture, University of Maryland, Department of Veterans Affairs.

The system is being evaluated by the participants both on a local standalone workstation and over the INTERNET for 60 days. An evaluation report will be written and approved by all the participants and presented to the IWGDMGC in January, 1994. The project is short term, merely 6 months, but is expected to provide a basis for further definition and development of a thesaurus application based on a client/server model in which client and servers may be developed by different vendors and will interoperate. The basis for interoperation will be the Z39.50 information and retrieval protocol and a Z39.50 profile will be developed for the application. Z39.50 is an OSI applications layer standard for information retrieval. It defines a uniform procedure for client/server communications in information search and retrieval systems. Its goal is to facilitate interoperability between various systems so that a single client can access information stored on many servers. The adherence to and support of standards is essential to this project to ensure interoperability.

References:

Committee on Earth and Environmental Sciences. 1992. The U.S. Global Change Data and Information Management Program Plan. Washington, D.C.

ConQuest Software Inc. 1993. Proposal to GCDIS CSS & LIS for the Thesaurus Prototype Project. Columbia, MD.

IWGDMGC CSS & LIS. 1993. IWGDMGC Catalog Subgroup & Library Information Subgroup, White Paper on Keyword/Thesaurus/Lexicon: Options. Washington, D.C.

Denenberg, Ray. 1993. Statement: NIST/OIW/Library Applications/SIG. Washington, D.C.

National Space Science Data Center. 1991b. Directory Interchange Format Manual, Version 4.0. National Aeronautics and Space Administration.

For additional information, contact Robbie Rand at 301/504-6684; Fax 301/504-7473; rrand@nalusda.gov

CD-ROM NEWS

OCEANOGRAPHIC STATION PROFILE TIME SERIES ON CD-ROM

Oceanographic Station Profile Time Series CD-ROM provides repetitive samples along ocean sections or at fixed locations for long time periods; time-series data includes temperature, salinity, density and nutrients. The total time-series data sets contains: 27 North Pacific sections; 56 North Atlantic sections; sections along coastal California from the California Cooperative Oceanic Fisheries Investigations (CALCOFI); 19 sections from other world oceans; and, data from the ten ocean weather stations. A conversion program is provided to enable the data to be used with the ATLAST software package.

Available for US \$53 from:

National Oceanographic Data Center
User Services Branch
NOAA/NESDIS E/OC21
1825 Connecticut Ave NW
Washington DC 20235
Phone 202/606-4549 Fax 202/606-4586
Internet: services@nodc2.nodc.noaa.gov

ARCTIC SOUNDINGS ON CD-ROM

The Historical Arctic Rawinsonde Archive ("HARA") on 3 CD-ROM volumes is now available from the National Snow and Ice Data Center. Containing over 1.2 million vertical soundings of temperature, pressure, humidity, and wind, this set represents all available rawinsonde ascents from Arctic land stations poleward of 65 degrees North, through 1987. For most stations the record begins in 1958, a few begin in 1947 or 1948. The data are one file per year per station. Coverage is relatively uniform, except in the interior of Greenland. Typically 20-40 levels are available in each sounding.

Software (Fortran and C) is provided on the CD-ROM volumes to retrieve a subset of the sounding data. Data for 1988-1990, and monthly averaged data, will be available on CD-ROM volume 4 in late 1993. Sounding data were obtained from the National Center for Atmospheric Research and the National Climatic Data Center. The HARA CD-ROM set is being distributed at no charge. Request CD-ROMs from: Michelle Holm, NSIDC User Services Omnet: NSIDC Internet: nsidc@kryos.colorado.edu Phone: 303-492-2366; Fax: 303-492-2468 NSIDC, University of Colorado Boulder CO 80309-0449 USA

SSM/I SEA ICE CD-ROM Vol. 2

NSIDC has recently completed distribution of DMSP SSM/I Ice Concentration Grids for the Polar Regions on CD-ROM, volume 2, spanning 1991 - 1992. This volume completes the series of polar grids from the SSM/I flying on the DMSP F8 satellite platform. Polar grids of brightness temperatures and sea ice concentration from the SSM/I on the DMSP F11 satellite platform are now being processed at NSIDC and will also be distributed on CD-ROMs. Contact NSIDC: Michelle Holm, NSIDC User Services Omnet: NSIDC Internet: nsidc@kryos.colorado.edu Phone: 303-492-2366; Fax: 303-492-2468 NSIDC, University of Colorado Boulder CO 80309-0449 USA

ESRIN's EARTH OBSERVATION CD-ROM BROWSERS

ESRIN's OCEAN-CD Browser, a CD-ROM-based selection tool for images derived from the Nimbus-7 CZCS satellite (1978-1986), has been made available by the OCEAN project. OCEAN is the Ocean Colour European Archive Network which acquires, stores, processes and disseminates CZCS data; areas of coverage include the North Sea and the Baltic, the English Channel and bordering North Atlantic regions, the Mediterranean and the Atlantic coastal regions of West Africa. OCEAN-CD Browser contains over 12,000 browse products (images) corresponding to the complete images collected; the ocean pigment concentration, in pseudo-color, is represented in each browse product. The OCEAN-CD Browser search parameters range from earth coordinates, to date of satellite passage, from orbit number to acquisition stations, to percentage of water. Once a set of browse products has been selected, low-resolution quick-look images can be displayed along with detailed information from the inventory database. Printing of order forms and saving of lists/orders is possible. A user guide is provided with the two CD-ROMs.

ESRIN's IONIA AVHRR CD-Browser, a CD-ROM-based selection tool for AVHRR images derived from the NOAA satellite series, has been made available by ESRIN. IONIA AVHRR CD Browser contains over 2,000 browse products (images) corresponding to the complete images collected. This CD Browser's search parameters include acquisition date and station, earth coordinates, cloud percentage, satellite mission number, and day/night acquisition. Once a set of browse products has been selected, low-resolution quick-look images can be displayed along with detailed information from the inventory database. Printing of order forms and saving of lists/orders is possible. A user guide is provided with the CD-ROM.

For information on either of these CD-browsers, contact: ESRIN, Third Party Missions Service Coordination Via G. Galilei 00044 Frascati, Italy. Tel 39-6/94180371-72, Fax 39-6/94180361

**NATIONAL CLIMATIC DATA CENTER
CD-ROM UPDATE (10/93)**

International Station Meteorological Climate Summary (ISMCS) Ver 2.0. This CD released in August 1992 gives detailed climatological summaries for about 980 locations worldwide. These locations include National Weather Service locations, domestic and overseas Navy and Air Force sites, and selected foreign stations. Limited summaries are also given for almost an additional 5,000 worldwide sites. Tabular or statistical data can be exported to a printer or spreadsheet. Version 2.0 also supports limited mouse capability. Cost US \$50.00

National Climate Information Disc-Vol 1. This disc has monthly sequential temperature, precipitation, and drought data for the 344 climate divisions in the contiguous U.S. The data can be viewed in a tabular or graphical format and output sent to a printer. The disc covers the period 1895-1989 and contains 1032 time-series graphs, 4180 maps, and 5400 frames of videoanimation. Cost US \$50.00

U.S. Navy Marine Climatic Atlas of the World - Ver 1.0. This CD-ROM includes analysis and display software for climatological averages of atmospheric and oceanographic data. The data are summarized with user-defined 1 and 5 degree grid areas covering the global marine environment. The summaries are produced using predominately ship data collected between 1854-1969. The major elements include air and sea temperature, dewpoint temperature, scalar wind speed, sea-level pressure, wave height, wind and ocean-current roses. This CD also allows the user to define element intervals (e.g. 5 to 10 knots, 2 degree temperature intervals). Contouring for explicitly user-defined regions and exporting data to a printer or diskette are supported. Cost US \$50.00

Global Upper Air Climatic Atlas (GUACA). A new two-volume CD-ROM set is available using a 12-year (1980-1991) 2.5 degree upper air data base obtained from the European Centre for Medium Range Weather Forecasts (ECMWF). This CD presents upper air statistics for 15 different vertical levels in the Northern and Southern Hemisphere for dry bulb and dewpoint temperature, geopotential height, air density, and vector and scalar wind speed. The disc provides access/display software for gridpoint data, contouring capability for user-defined areas, and vertical profiles. The climatology covers the 12-year period as well as individual year-months. Cost US \$200.00

CLIVUE CD-ROM. The National Climatic Data Center (NCDC) developed a CD-ROM in support of a museum exhibit which traveled across the U.S. The CD contains a 1,500-station subset of NCDC's nearly 8,000 U.S. daily cooperative stations. The user selects a date and area of the U.S. and the CD-ROM database is queried for stations within the specified domain having data. Then, the system displays daily maximum and minimum temperatures, precipitation, and snowfall for the site. Graphs showing 7 years, 21 years, and the full period of record (varies by station) for the station(s) are available. Visual displays allow users to view trends, variability, and extremes. Cost US \$50.00

SAMSON CD Set. The Solar and Meteorological Surface Observational Network (SAMSON) three-volume CD-ROM set is available. The three CD-ROMs are divided geographically into regions: eastern, central, and western U.S., and contain hourly solar radiation data along with selected meteorological elements for the period 1961-1990. It encompasses 237 NWS stations in the United States, and also includes Guam and Puerto Rico. The dataset includes both observational and modelled data. The hourly solar elements are: Extraterrestrial horizontal and extraterrestrial direct normal radiation; global, diffuse, and direct normal radiation. Meteorological elements are: Total and opaque sky cover, temperature and dew point, relative humidity, pressure, wind direction and speed, visibility, ceiling height, present weather, precipitable water, aerosol optical depth, snow depth, days since last snowfall, and hourly precipitation. Cost US \$100 per region or US \$300 per set.

Radiosonde Data of North America 1946-1992. Contains all available radiosonde data for North America (U.S., Canada, Mexico, and Caribbean Islands) through the 100-mb level on four disks. Disk periods are 1946-1965, 1966-1979, 1980-1989, and 1990-1992. Data includes significant, mandatory, and special wind levels for all observation times and includes geopotential height, temperature, dew point and wind direction, and scalar speed. The user can select for output to printer, screen, or file, a single station or multiple stations for a defined time period, or all stations within a specified geographic region in either synoptic or station sort. The CD also contains available station metadata. Cost US \$400.

Global Tropical and Extratropical Cyclone Climatic Atlas (GTECCA). This single volume CD-ROM will contain all global historic tropical storm track data available for five tropical storm basins. Periods of record varies for each basin, with the beginning as early as the 1870s and with 1992 at the latest year. Northern hemispheric extratropical storm track data will be included from 1965 to 1992. Tropical track data includes time, position, storm stage (and maximum wind, central pressure when available). The user will have the capability to display tracks, and track data for any basin or user-selected geographic area. The user will also be able to select storm tracks passing within a user-defined radius of any point. Narratives for all tropical storms for the 1980-1992 period will be included as well as basin-wide tropical storm climatological statistics. Available mid December 1993, cost US \$100.

Future CD-ROM Products and Updates

Global Daily Data. This CD-ROM will provide access to a 10,000-station set of daily maximum/minimum temperature, daily precipitation, and 3-hourly present weather for the 1977-1991 period of record. Data can be selected for viewing or output to file for geographic areas or by a predefined user-selected list of stations. Each data record includes element flags for suspected erroneous data. A data inventory contains station name, latitude/longitude, elevation, period of record, and the number of observations of available data. Available mid December 1993, cost US \$100.

International Station Meteorological Climate Summary (ISMCS) - Ver 3.0. This update will add an additional 1,050 global stations bringing the total number of detailed summaries to 2,000 locations. Version 3.0 will expand mouse capability.

Global Tropical and Extratropical Cyclone Climatic Atlas (GTECCA) - Ver 2.0. This update will add 5-degree square climatology, additional narratives, and 1993 track data.

U.S. Navy Marine Climatic Atlas of the World - Ver 2.0. Narratives for select ocean ports will be added along with subsurface ocean information.

Global Sea Ice. Bi-monthly maps and means of ice edge concentrations for the Arctic and Antarctic regions for the period 1972-1992.

Station Climatic Data Daily Statistics. Summary statistics and access software provided to present daily data for major U.S. locations. Users will be able to query the data base on this CD-ROM.

Northern Hemisphere Historic Fields. This CD will allow users to view daily surface charts for the period 1899-1992. Daily upper air charts (700 mb, 500 mb, 300 mb) will be available from the late 40s through 1992.

Russian Hourly Data. Hourly observations for over 250 sites in the former Soviet Union will be available. The period covered is generally from the 1950s through the mid 1980s.

Order from: National Climatic Data Center, Climate Services Branch, Federal Building, Asheville NC 28801. Phone: 704/271-4800; Fax: 704/271-4876; OMNET: NCDC.SERVICE; INTERNET: orders@ncdc.noaa.gov [Add US \$11 service charge per order (non-US customers add US \$21)]

MARINE DATA SAMPLER CD-ROM

MRJ, Inc., a science engineering and analysis company located in Oakton, Virginia, released the Marine Data Sampler on CD-ROM for both PC and UNIX platforms. The Sampler showcases a variety of marine and oceanographic data in ArcView and ARC/INFO format at global, regional, and local scales. It includes guided tours to familiarize the user with digital marine data availability and quality. The Sampler provides an introduction to how Geographic Information Systems (GIS) can be used to solve marine problems.

The tours were developed by experienced marine scientists, oceanographers, and geographers. The global guided tour uses ArcView for Windows to explore many types of information including sea surface temperatures, winds, waves, salinity, dissolved oxygen, and bathymetry. The tour helps to explain the basic concepts of marine climatology and continental drift. The regional example applies the data, including NOAA Coastwatch products, to a fisheries problem. MRJ is releasing two standard data products in ARC/INFO format: bathymetry around the United States coastal regions

and World Vector Shoreline (nominal scale 1:250,000). These data sets can form the basis for any regional marine application.

For more information contact Susan McDonald Jampoler, Marine Data Manager, MRJ, Inc., 10455 White Granite Drive, Oakton, Virginia 22124, Tel. 703/385-0746, Omnet: L.Bivens.MRJ.

PUBLICATIONS & REVIEWS

CD-ROM Efforts by US Agencies Reviewed

John Kinsfather, Michael Changery, and Andrew Allegra review the CD-ROM production efforts of the National Geophysical Data Center, the National Climatic Data Center, and the National Oceanographic Data Center in "CD-ROM brings environmental data archives to the desktop" in Earth System Monitor 3(4):1,9,10,12, June 1993.

SHARKS AND RAYS OF AUSTRALIA

To be published on the 10th of December is Sharks and Rays of Australia (ISBN 0-643-05143-0), a hard-cover, 612 page book which should be of interest to all with marine related interests. Concentrating on the Indian and Pacific Oceans, it describes 296 species, including 97 species never before described, includes information on feeding habits, biology, and reproduction, notes on commercial value, with all species illustrated in color.

To order contact CSIRO Information Services, PO Box 89, East Melbourne, Victoria 3002 Australia, phone Int+613/418 7217, fax Int+613/419 0459. The cost is \$59.95 plus \$15.00 postage in Australia, US \$95.00 (includes postage) outside Australia and New Zealand. Checks payable to CSIRO.

AUSTRALIAN FISHERIES RESOURCES

A new release from down under is Australian Fisheries Resources at a cost in Australia of \$120.00 rrp. For information write: The Resource Co-ordinator, Bureau of Resource Sciences, Fisheries Resources Branch, PO Box E11, Queen Victoria Terrace, Parkes ACT 2600 Australia. Phone Int+616/272 4021, fax Int+616/272 4014.

NEW BIBLIOGRAPHY FROM THE NATIONAL AGRICULTURAL LIBRARY!

NIC FISH RESEARCH: A BIBLIOGRAPHY (SRB-117) a bibliography of transgenic research done on freshwater fish is also available from the BIC. The publication by the late Robert Warmbrodt and Virginia Stone is number 117 in USDA's Bibliographies and Literature of Agriculture series.

As stated in the document's introduction, "transgenic fish research uses molecular biology and genetic engineering techniques to help develop disease resistance, enhance reproduction, and increase productivity of freshwater fish such as salmon, trout, catfish and carp. Freshwater fish represent a multi-million dollar industry in the U.S. In addition "the research generated using these organisms contributes significantly to an overall increase in the understanding of the molecular biology, gene sequencing and gene expression and regulation of freshwater fish.

According to BIC Coordinator, Dr. Ray Dober, "This bibliography seeks to aid the research effort by giving scientists a comprehensive list of work that has already been conducted, allowing them to build on this past research." The bibliography lists 125 transgenic research reports that have been conducted on freshwater fish, and includes abstracts. It is arranged in sections on general aspects of transgenic fish research; gene expression and sequencing; immunology and diseases; breeding and production; and field release studies.

To obtain a copy of the bibliography send either a self-addressed label to:

Biotechnology Information Center
National Agricultural Library
4th Floor
10301 Baltimore Blvd.
Beltsville, MD 20705-2351

or forward a request with your address to

biotech@nal.usda.gov.

USAID POND DYNAMICS/AQUACULTURE PUBLICATIONS

The Pond Dynamics/Aquaculture Collaborative Research Support Program (PD/A CRSP) is one of a family of agricultural research programs funded by the United States Agency for International Development (USAID) to help farmers around the world improve their incomes and alleviate hunger. Eight U.S. universities and six developing country institutions now collaborate to increase the efficiency of pond culture systems and to disseminate successful aquaculture strategies. U.S. and host country researchers work in Thailand, the Philippines, Honduras, Rwanda, Egypt, and the U.S. to identify constraints to aquaculture production and to design responses that are environmentally and culturally

appropriate. The PD/A CRSP is managed by Oregon State University, which also maintains an inventory of PD/A CRSP publications, most of which are available free of charge.

For more information, or to get a publications order form, contact: Hillary Egna, Director PD/A CRSP Snell Hall 400 Oregon State University Corvallis, OR USA 97331-1641. Phone: 503/737-6415 Fax: 503/737-3447, email to mcnamarm@ccmail.orst.edu

The Guin Library houses a complete set of the CRSP documents. For ILL information: Marilyn Potts Guin Library Hatfield Marine Science Center Oregon State University 2030 Marine Science Drive Newport, OR 97365. tel. (503) 867-0249 fax. (503) 867-0105.

NEW INDIAN OCEAN WIND ATLAS

A new atlas of monthly Indian Ocean (to 30S) pseudo-wind stress data is available FREE from The Mesoscale Air-Sea Interaction Group. It covers all the months from 1972 - 1985. Besides pseudo-stress it contains other esoteric things such as maps of monthly climatologies as well as divergences and curls. It may be useful to TOGA, WOCE and JGOFS folks planning to vacation in the Indian Ocean before the year 2000. The data fields are publicly available through last month. Yes, I mean from 1972 to September 1993.

If you wish to have an atlas in your office, send a please, thank you and complete mailing address to:

J.OBRIEN/OCEAN or obrien@masig.fsu.edu

The NOAA Office of Global Programs uses the ONR Physical Oceanography for its TOGA program to support the preparation of these data.

SCIENTIFIC ILLUSTRATION

At the October IAMSLIC Conference in Washington, D.C., several of us toured the Natural History Museum of the Smithsonian. One stop was the Entomology Department. Here the head scientific illustrator, Elaine Hodges, explained her work. For those interested, Ms. Hodges edited probably the best book of scientific illustration techniques:

Elaine R. S. Hodges. Editor. The Guild Handbook of Scientific Illustration. Van Nostrand Reinhold, 1989. ISBN: 0-442-23681-6.

It is available \$100 through the Guild of Natural Science Illustrators. Address: P.O. Box 652, Ben Franklin Station, Washington, D.C. 20044.

The Guild also publishes a newsletter for members, a booklet on careers in scientific illustration, an occasional journal (Journal of Natural Science Illustration), and a directory of members.

**GENERAL CIRCULATION OF THE WORLD
OCEAN**
- FREE BOOK -

The U.S. WOCE Office has recently received 300 copies of the book General Circulation of the World Ocean by V.A. Burkov. These books are available FREE of charge on a first-come, first-served basis.

This book, commissioned by the U.S. National Science Foundation, is a translation from the original Russian text published in 1980. In the book, Burkov gives a description of the general circulation of the World Ocean. The first part includes the physical-geographic conditions for the development of the general circulation of the World Ocean and its definition; the mechanical and thermohaline factors responsible for the general circulation; a brief survey of the water masses and their indicators; the mass field of the World Ocean; a method to construct the schemes of motion from the surface to the bottom; and a description of the data used. The second part of the book analyzes large-scale schemes of the general horizontal circulation of the surface, subsurface intermediate, intermediate, deep and bottom waters. Also considered are the vertical structure of the currents and elements of the vertical motions.

TO ORDER:

To receive a FREE copy of this Burkov book, send your name and mailing address to:

U.S. WOCE Office, Department of Oceanography,
Texas A&M University
College Station, TX 77843-3146
We also can be reached at Phone 409/845-1443,
Fax 409/845-0888, US.WOCE.OFFICE (OMNET), or
uswoce@astra.tamu.edu (Internet).

The U.S. WOCE Office also still has available a few complimentary copies of "The 1925-1927 Meteor Expedition - Temperature, salinity and density of the surface waters of the Atlantic Ocean - Volume 5" by G. Bohnecke. Please contact us if you would like a copy of this atlas.

GLOBAL CHANGE INFORMATION PACKET

The National Agricultural Library has published a Global Change Information Packet. It contains: Global Climate Change and Agriculture - A Summary Chronology of Global Climate Change Global Climate Change Selected Annotated Bibliography Directory of Global Climate Change Organizations Global Climate Change Pathfinder: A Guide to Information Sources Global Warming and the Greenhouse Effect (Quick Bibliography 92-36) and reprints of articles from American Scientist, Forbes, Scientist American, Marine Technology Society (MTS) Journal, and EPA Journal.

If you would like one or more free copies of this packet, send an internet message to: csinger@nalusda.gov
Or, send your request, and a mailing label, to:

Reference Section, Room 111
National Agricultural Library
10301 Baltimore Blvd.
Beltsville, MD 20705

NOTICES & REQUESTS

ANY OLD HARDWARE?

One of the activities of the IOC/GEMIM programme is capability building within developing countries. There is a great need for hardware to be provided and we have been asked to canvas within IAMSLIC to query the availability of hardware (old or otherwise). If you have upgraded and have an old terminal or PC or CD ROM reader etc. you no longer want, the IOC would love to know. If the hardware can be utilised IOC will pay the cost of transportation, etc. Please send details of ANY equipment to Peter Pissierssens at IOC on SCPPI@FRUNES21.BITNET or IOC.SECRETARIAT on Omnet.

JOURNAL DONATIONS TO FOREIGN LIBRARIES

Of interest in the Chronicle of Higher Education (23 June 23 1993,A28) is an article describing a program which is facilitating journal donations to foreign libraries. Primarily focused on Eastern European institutions, the effort, in concert with participating publishers, is regularly supplying 150 academic libraries with U.S. scholarly journals in many disciplines. For more information on the program contact: Ms. Arien Mack, New School for Social Work, 65 Fifth Ave., New York, NY 10003, phone 212/229-5378, fax 212/229-5476.

Also described is a recently published manual, the ACLS Manual for International Book and Journal Donations, written by Janet Greenberg, which offers information on U.S. groups that offer assistance to donors of educational materials, and offers guidelines on making donations. Copies can be obtained from Ms. Greenberg at American Association for Advancement of Science, 228 East 45th Street, New York, NY 10017-3398, phone 212/697-1505, ext. 131.

LIBRARY POSITION ANNOUNCEMENT**Head, Scripps Institution of
Oceanography Library**

University of California, San Diego. Rank: Associate Librarian I-V, \$35,052 - \$43,992 or Librarian I-IV, \$47,124 - \$59,316.

Under the general direction of the Associate University Librarian, Sciences, incumbent plans, develops, manages, and evaluates the Scripps Institution of Oceanography (SIO) Library's services, collections, operations and facilities; functions as primary liaison between the library and SIO faculty and administration; has lead responsibility for developing innovative services. Responsible for organizational and personnel planning for 14 FTE staff. Takes active role in developing funding sources outside the library. Provides reference and online search services and takes lead responsibility for collection development. UCSD librarians are expected to participate in librarywide planning and to be active professionally.

Qualifications: Required: M.L.S. Substantial library experience, preferably in an academic research library, with at least three years in a science library. Demonstrated leadership ability and administrative skills, excellent interpersonal and communication skills, ability to work well with faculty. Knowledge of issues and trends related to automated library services and their implications for public and technical services. Strong online searching and microcomputer skills. Highly desirable: academic degree in a science discipline. Desirable: collection development experience, instructional experience. An appointee at the Librarian level is expected to bring to the position well-developed managerial skills and considerable expertise in science librarianship.

UCSD is an equal opportunity, affirmative action employer, and specifically seeks candidates who can make contributions in an environment of cultural and ethnic diversity. Consideration of applications will begin on February 15, 1994 and continue until the position is filled. Submit a letter of application, enclosing a resume and a list of references to: University of California, San Diego, Janet Tait, Academic Personnel Coordinator, Library Personnel Office, 0175H, 9500 Gilman Dr., La Jolla, CA, 92093.

OFFSHORE OIL PLATFORMS**Available for Oceanographic, Atmospheric and
Environmental Research**

The British Petroleum Company (BP) announces an opportunity for access to offshore oil exploration and production platforms for oceanographic, atmospheric, and environmental research. The oil platforms provide: (1) bases from which to obtain long, high-frequency, multidisciplinary time series for the study of variability in open ocean ecosystems, (2) bases for process-oriented experiments that would benefit from the context of the time series, and (3) stations for

monitoring environmental change.

There are 9 platforms in the Gulf of Mexico. The 3 deepest are: 1) Ewing Bank A26A at 20° 9' 48" latitude, 90° 21' 39" longitude, 483 ft depth; 2) Mississippi Canyon at 29° 5' 53" latitude, 88° 55' 51" longitude, 1,038 ft. depth; and 3) East Breaks 165A at 27° 49' 7" latitude, 94° 19' 22" longitude, 863 ft. depth. The other 6 platforms are located close to one of these three. In cooperation with BP, the Private Enterprise - Government Interactions Working Group of the Committee on Earth and Environmental Sciences invites proposals from the scientific research community (Federal, State, local, and private research laboratories) to conduct projects on offshore oil platforms located in the Gulf of Mexico. These initial projects will be used to assess the feasibility of developing a longer term commitment for collaboration between BP and the scientific community on the use of oil platforms worldwide. For example, if the Gulf experiments are successful, platforms in the North Sea also may become available. Future plans may include platforms at greater ocean depths as technological designs allow siting at 3,000 to 7,000 feet in worldwide locations.

Transportation to and from the platform from the point of debarkation, and food and lodging while on the platform will be provided for the project scientists by BP. The point of debarkation for Ewing Bank and Mississippi Canyon is New Orleans. For East Breaks it is Galveston. The scientists will not be expected to remain on the offshore oil platforms for the life of the experiment. However, for this reason, automated systems with minimum maintenance requirements are preferred. The equipment may remain in operation for the life of the oil platform. Minimal maintenance requirements, e.g., notifying scientists of equipment failure, changing paper tapes, etc., may be performed by the platform personnel. The offshore oil platforms are manned at all times by BP personnel, except in the event of severe storm weather.

Other direct and indirect costs of the project research must be borne by the researcher or his or her supporting institution or funding agency.

For further information regarding submission of proposals, letters of interest (maximum length of 3 pages) must be submitted by December 30, 1993, to:

Julia Jones PEGI Vice-Chair USDA
Global Change Program Office
1621 N. Kent Street, Room 60LL
Arlington, VA 22209
Phone: 703/235-9018
Fax: 703/235-9046