



International Association of Aquatic and Marine
Science Libraries and Information Centers

newsletter

Number Forty-six
March 1993

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FROM THE PRESIDENT

As this is the first newsletter of the year, I want to take the opportunity to wish all of you a happy and prosperous new year. The 19th IAMSlic conference will be held in Washington DC (Bethesda MD) on October 11-15th as most of you already know. The theme has been chosen: "Preserving the past, looking to the future". Beth Fuseler and the local arrangements committee, Janice Beattie and her crew, are faced with a new challenge, as people requested that we consider meeting in the mornings and in the evenings, not during the day as always has been the case. I look forward to seeing how such an arrangement will work out and wish them the best of luck in arranging a good conference. Beth is also working hard on the conference proceedings from the Bremerhaven meeting and we will see the result of her work soon.

ASFA was discussed at the GEMIM session in Paris last December as most of you already know from the report given by Pauline Simpson. Since then we have learned that FAO is willing to continue their involvement in ASFA. (See related articles in this newsletter).

This winter the weather has been rather unusual in many parts of the world. It has been raining like never before in California and up here in the middle of the Atlantic, we have experienced severe storms and more snow than we have seen for the past few years. For some years scientists have been drilling through the ice cap of Greenland and by analyzing the ice cores they have been able to "read" the climate thousands of years back. What I found very interesting is that 10,720 years ago (give or take 150 years!) a warming of about 7 degrees C in 50 years occurred in Southern Greenland

with no human interaction. This event is believed to have been the start of the end of the last ice age (Dansgaard, W. [et al.] 1989. *Nature*, 339: 532-533). Knowing this makes the problem of the greenhouse effect look very small but is of course one of the biggest we have faced in the history of mankind as no one knows if it means global warming of 1 or 2 degrees C or warming only in some places and cooling in others. Although we try to convert the processes leading to the greenhouse effect, nature itself could make that effort worth very little, if natural variations of such a scale happen again. Changes in weather conditions affect us all very much in many ways and we feel our weakness when we are faced with the forces of nature.

Eirikur T. Einarsson



Communications to IAMSlic should be directed to:

Kristen L. Metzger

Harbor Branch Oceanographic Institution

5600 U.S. 1 North

Ft. Pierce, Florida 34946 USA

EURASLIC V IN GDYNIA

Henryk Ganowiak from Morski Instytut Rybacki (Sea Fisheries Institute) in Gdynia, Poland has very kindly agreed to host the next meeting of EURASLIC at his Institute. It was agreed that the meeting should be held in late April 1994, and we can now confirm the dates of the meeting as Thursday and Friday, April 28th and 29th. This will allow those who wish to stay for the weekend to do some sightseeing.

Henryk is already busy with arrangements for a sightseeing programme! If anyone has any suggestions for topics for discussion, or ideas for workshops etc., please let Henryk or David Moulder know. Further details and a request for papers will be sent in due course. □

The IAMSILIC newsletter is published quarterly; in March, June, September and December.

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

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FIRST CALL FOR PAPERS

"Preserving the Past, Looking to the Future"

**International Association of Aquatic and Marine
Science Libraries and Information Centers
19th Annual Conference
Bethesda, Maryland USA
October 10-15, 1993**

Deadline for proposals for sessions is May 1, 1993

Deadline for proposals for papers is July 1, 1993

Send proposals to conference organizer:

Elizabeth A. Fuseler
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215 Morgan Library
Fort Collins, CO 80523 USA
Phone: (303) 491-1876
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For local information contact for conference information:

Janice Beattie
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6009 Executive Blvd.
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INTERNATIONAL CONGRESS ON THE HISTORY OF OCEANOGRAPHY

The Fifth International Congress on the History of Oceanography will be held at the Scripps Institution of Oceanography, University of California, San Diego CA USA July 7-14, 1993. The meeting is entitled, "Oceanography: The Pacific Perspective" and includes symposia on Oceanography around the Pacific Rim, Archival Resources for the Pacific, Expeditions and Exploration, Europe in the Pacific, Oceanography and the World Wars and Continents vs. Oceans in the Earth Sciences Revolution, among other topics. For registration information write:

Lene Hartman
Conference Manager
UCSD 0513
ICHO V
La Jolla, California 92093-0513 USA

Registration deadline is May 7. □

WANTED

(Desperately needed)

IAMSLIC NEWSLETTER EDITOR

Reliable, enthusiastic IAMSLIC member needed for important job that is tedious, aggravating and extremely time consuming. Will consider individual who is slightly demented, since that's the only kind of person who would take this job anyway.

(Editor's note: I have been doing this job for eight years and the thrill is gone. However, I will say that for a long time I enjoyed it and I'm sure you will too! (Please....) On the plus side, you get all the news first and our terrific contributing editor, Peter Brueggeman, writes 75% of the articles in the newsletter for you. Additionally, if you haven't used desktop publishing software, here's your chance to learn about widows, orphans and dingbats. If you are interested or have questions about the job, please contact me - phone, e-mail, fax is on page two of the newsletter. My internet address in the IAMSLIC directory is incorrect - the last three letters should be org, not edu.) □

WORLD DATA CENTERS

Stan Ruttenberg writes about "The ICSU World Data Centers" in EOS 73(46): 494-495, November 17, 1992. The history of the ICSU World Data Center system is presented as well as recent changes and developments. □

GUIDE TO ATMOSPHERIC SCIENCE INFORMATION

Mary Layman and Shirley Smith authored "Atmospheric Sciences Information Resources in the United States - an overview for librarians" in SPECIAL LIBRARIES 84(1): 30-44, Winter 1993. □

BIBLIOGRAPHIC DATABASE SOFTWARE REVIEWED

Sue Stigleman reviews 52 bibliographic database software on ten key questions in "Bibliography formatting software: an update" DATABASE 16(1): 24-37, February 1993. This article is worthwhile reading for those interested in this type of software; Stigleman is an authoritative writer in this field. □

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FAO AND THE FUTURE OF ASFA

As a contribution towards clarifying the situation about the future of ASFA, FAO would like to offer the following assurances. These, coupled with the recent statement by the publisher (CSA) should leave users in no doubt that ASFA will continue and expand.

The FAO statement of June 1991 was not intended to imply that FAO would withdraw from ASFA, in fact the converse. It states that FAO "wishes to concentrate on fisheries and aquaculture where coverage needs to be increased". The decision to terminate the present contract with the publishers in December 1994 was designed to allow for a period of reflection and discussion of new management arrangements. A review of the management structure, after 20 years, should take into account that from a tenuous base ASFA is now a well established, sustainable product which is commercially viable.

Discussions on the future are now taking place. Although budgetary constraints in FAO mean that financial support to ASFA must be reduced, the Organization wishes to continue with a strong involvement. This implies that, as previously stated, FAO will have to restrict its coverage to its mandate of fisheries and aquaculture. As a result the other UN co-sponsors will be expected to provide support to their own subject-matter areas. For its own role, post-December 1994, FAO proposes:

- it will not continue to make any financial contribution to the publisher;
- to continue as an input centre for fisheries and aquaculture documents;
- to cease input of documents from countries and organizations who themselves have the capacity to supply this input; at the same time to encourage the input of fisheries and aquaculture literature from such sources;
- to seek ways and means for the better coverage of the literature of fisheries and aquaculture; and
- to seek ways and means for increased participation of developing countries including access to fisheries and aquaculture information by those countries.

These changes will enable FAO to direct its reduced resources towards improving the quality and accessibility of fisheries information for all of its member countries. Many thanks and regards.

C.H. Newton □

AN OPEN LETTER TO ASFA SUBSCRIBERS

As publishers of the Aquatic Sciences and Fisheries Abstracts (ASFA) series on behalf of the Food and Agriculture Organization, other United Nations agencies and a partnership of contributing national research centers worldwide, I would like to assure you that Cambridge Scientific Abstracts remains fully committed to the future of the ASFA journals. Cambridge Scientific Abstracts has been publishing the journals for over ten years. Currently, the ASFA cosponsors and national partners are working to develop arrangements for ASFA beyond December 1994; CSA is actively involved in these discussions. I am certain that new relationships will be developed as a result of these discussions which will enable us to meet the information needs of our customers.

Let me reiterate that Cambridge Scientific is fully committed to the development and maintenance of the database from which the ASFA titles are derived. We at CSA know that ASFA is indispensable to the science community as the authoritative, comprehensive information resource for all related subject areas. There should be no doubt whatsoever of our commitment to publish the ASFA journals at the same level of excellence that you have experienced since 1971.



Yours sincerely,
James P. McGinty
President

Cambridge Scientific Abstracts □

ASFA NOW ON STN

(WITH SEARCHER-UNFRIENDLY PRICING)

The Aquatic Science and Fisheries Abstracts (ASFA) database is now available online on the STN International databank as file AQUASCI. ASFA is also available on the databanks Dialog, CAN/OLE, DIMDI, ESA/IRS, and BRS (embedded within file CSAL).

AQUASCI/ASFA's full file back to 1978 is now available on STN with monthly updates. STN's AQUASCI/ASFA pricing continues the annoying searcher-unfriendly practice of charging for titles scanned so that searchers cannot pick selected titles for retrieval of the corresponding complete references (aka cherry picking). STN does not charge when AQUASCI/ASFA titles are viewed within the SCAN display format. However SCAN displays titles (with their indexing) randomly so that one can assess a search strategy rather than select references for retrieval. STN typically charges per-title for title scanning in its databases and, for AQUASCI/ASFA, STN charges US\$0.30 per title scanned. STN's charges for AQUASCI/ASFA reflect STN's practice of reducing connect time charges to avoid penalizing experienced searchers and charging based on activity and output. STN's connect time for AQUASCI/ASFA is US\$92 per hour whereas Dialog's connect time for ASFA is US\$102 per hour. STN charges US\$0.10 for each term searched in AQUASCI/ASFA. Cambridge contractually stipulates per-title charges for ASFA with the online databanks offering the database.

All but one databank charge per-

title and in doing so simply pass along Cambridge's contractual stipulation rather than accommodate the needs of online searchers. Dialog is the only databank sensitive to the needs of many online searchers for no-cost title scanning with subsequent selection of relevant references. However to support this searcher-friendly feature, Dialog has to charge a higher per-citation charge than other databanks in order to counterbalance Cambridge's contractual stipulation of per-title charges. It may be worth your money to pay more per-reference retrieved in order to first select those references by title. For example, Dialog charges US\$1.10 per full ASFA reference retrieved whereas STN charges US\$0.85 per full ASFA reference retrieved. Dialog charges the higher per-reference rate to gather revenue for Cambridge's hidden (to the online searcher) title scanning charges. If you are an online ASFA searcher, select the databank whose pricing practice is sensitive to your searching needs. If an online searcher determines that there is value in title scanning so that references can be retrieved selectively, then Dialog is the only databank pricing ASFA accordingly. If the ability to scan titles is irrelevant and other factors are more important, then examine ASFA on other databanks.

For example, BRS' After Dark service offers after-hours access to ASFA (within the file CSAL) for US\$28 per hour and US\$0.40 per reference. BRS' After Dark does charge for title-scanning within CSAL/ASFA but its per-reference charges are the lowest available. □

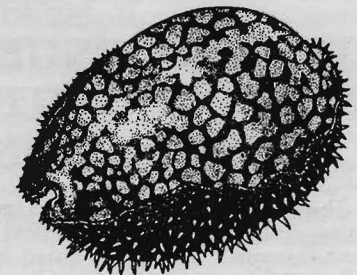
IAMSLIC DUPLICATE EXCHANGE

Participants in the duplicate exchange program are requested to add a new address:

Mike Hanson, Librarian
Mariculture and Fisheries
Department Library
Kuwait Institute for
Scientific Research
PO Box 1638
Salmiah 22017 Kuwait

A new address listed in the December 1992 newsletter was incomplete. Please correct your records to read:

Fisheries Research Institute Library
GPO Box 21
Cronulla NSW 2230
Australia □



FIRST AFRICAN FISHERIES CONGRESS

Kenya, Nairobi, August 1-5, 1994

The Fisheries Society of Africa, in cooperation with the newly-formed (January 29, 1993) Kenya Fisheries Association, will hold the First African Fisheries Congress in Nairobi, Kenya, August 1-5, 1994.

There will be oral, poster and special symposia sessions, covering all aspects of Fisheries Science. A fisheries exposition will be held in con-

junction with the Congress. Safari trips to Kenya's world-famous game parks will be an added attraction for participants and their spouses.

First call for papers will be sent soon, but those wishing to indicate their intention to attend the Congress now or with enquiries may address all correspondence to:

Prof. S. Dadzie, Chairman
Local Organizing Committee
The First African Fisheries Congress
c/o Department of Zoology
University of Nairobi
P.O. Box 30197
NAIROBI (KENYA)
phone: +254 2 442316
fax: +254 2 336885 □
telex: 22095 VARSITY KE

NODC INVENTORY OF PHYSICAL OCEANOGRAPHIC PROFILES

In support of "data archaeology" efforts to increase the volume of historical ocean data available to climate and global change researchers, the National Oceanographic Data Center has issued the "NODC Inventory of Physical Oceanographic Profiles: Global Distributions by Year for All Countries" by Sydney Levitus and Robert D. Gelfeld. This publication contains tables and global data distribution plots showing the data holdings in the NODC's major physical oceanographic databases as of June 1992.

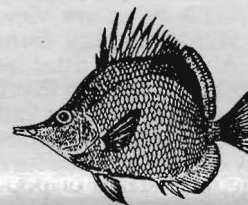
The data distribution plots show the locations of bathythermograph, CTD/STD, and oceanographic station observations in the NODC archive. The aim of this publication is to show researchers and data managers what data are available, help them identify data that are not yet in the archives, and encourage submission of manuscript or digital data that can help fill gaps in the data record. Copies of the publication are free. Contact:

National Oceanographic Data Center
User Services Branch
NOAA/NESDIS E/OC21
1825 Connecticut Avenue, NW
Washington, DC 20235 USA
Telephone: (202) 606-4549
FAX: (202) 606-4586
Omnet: NODC.WDCA
Internet: services@nodc2.nodc.noaa.gov □

BIOLOGICAL INSTITUTION FAX DIRECTORY

Compiled by Neal Evenhuis, the International Fax Directory for Biologists lists, in country order, the fax numbers of academic and other institutions of interest to biologists. The Directory is published in 77 pages and is available for US \$10 (\$2 more if airmail postage is desired) from:

Pacific Science Association
PO Box 17801
Honolulu HI 96817 USA □



VERHANDLUNGEN INTERNATIONALE VEREINIGUNG FÜR THEORETISCHE UND ANGEWANDTE LIMNOLOGIE

The Societas Internationalis Limnologiae Theoreticae et Applicatae (International Association of Theoretical and Applied Limnology) publishes the *Verhandlungen...*, as well as *Mitteilungen...*, a newsletter (SILNews), and *Archiv für Hydrobiologie* (available at a reduced rate to members). In their annual circular to members they include the following note:

"SIL has shipped excess copies of all available past SIL publications to a number of libraries of developing or other countries in which it is difficult for institutional membership. In addition, institutional memberships have been provided for certain libraries from our Endowment Fund. We welcome applications from institutional librarians for assistance with their membership." Enquiries should be sent to:

Prof Dr. Robert G Wetzel
General Secretary-Treasurer
Societas Internationalis Limnologiae
Department of Biological Sciences
University of Alabama
Tuscaloosa
Alabama 35487-0344 USA □

LIMNOLOGY AND OCEANOGRAPHY

The American Society of Limnology and Oceanography has a large number of back issues of their journal *Limnology and Oceanography* which it can no longer afford to store, and it is willing to arrange the handling and shipping to developing country institutions for a cost of \$108/set (all available volumes from 21-36, 1976 to 1991, including the index and special symposium volumes). Donors are requested, or developing country institutions that would like to have a set at that price and can pay the \$108. If you know of a developing country institution that might like a set, let them know of this offer. If you are willing to pay for a set for an institution, contact:

Richard Weisburd
5-2-16-203 Matsushiro
Tsukuba
Ibaraki-ken 305
Japan □

INTERNATIONAL DIRECTORY OF SERIAL PUBLICATIONS IN AQUATIC SCIENCES AND FISHERIES

CALIFORNIA'S LIVING MARINE RESOURCES AND THEIR UTILIZATION

A total revision of the 1971 publication has just been published. This publication was originally prepared for the California Legislature and has proved to be one of the most valuable general reference works available on California's economically important marine species. The primary purpose of the book is to provide a baseline of information for anyone concerned with living marine resource management in California. History of the fishery, status of biological knowledge, and status of population information is given for more than 120 commercially important species.

CALIFORNIA'S LIVING MARINE RESOURCES AND THEIR UTILIZATION, (1992)

edited by William S. Leet, Christopher M. Dewees, and Charles W. Haugen is available for US \$15 from:

Department of Wildlife and Fisheries Biology
Sea Grant Extension Program
University of California
Davis, CA 95616 USA

Make checks payable to: Regents of the University of California

Published on behalf of the Food and Agriculture Organization of the United Nations, the International Directory of Serial Publications in Aquatic Sciences and Fisheries (formerly known as the "World List") is a unique publication providing a comprehensive listing of serial publications worldwide dealing with issues related to aquatic sciences and fisheries. The directory will prove an invaluable tool to researchers and information professionals who deal in any way with the science, technology and management of aquatic environments and organisms. Entries for each serial include:

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E-Mail: MCI Mail ID: CAMSCI

FREE PUBLICATIONS!

The RSMAS Library has a number of extra copies of the following titles which we will distribute, free of charge, on a first-come, first-serve basis:

Adey, W. et al.

Field guidebook to the reefs and reef communities of St. Croix, Virgin Islands. 1977.

Frost, S.H. et al.

Oligocene reef tract development, southwestern Puerto Rico. 1983.

Woelderling, W.J.

South Florida benthic marine algae; keys and comments. 1976.

Van Duyl, F.

Atlas of living reefs of Curacao and Bonaire. 1985.

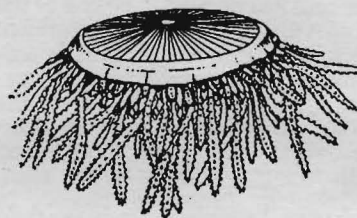
Please send your mailing address to:

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RSMAS Library
University of Miami
4600 Rickenbacker Cswy
Miami, FL 33149 USA
(305) 361-4021
Fax: (305) 361-9306
Omnet: RSMAS.Library
Internet: khale@rsmas.Miami.edu □

HALIOTIS

The Societe Francaise de Malacologie has recently reported that it has spare copies of the journal *Haliotis*, and that it is willing to donate a complete set (free) to libraries in developing or Eastern countries (which we assume means Eastern European countries). Anyone interested in obtaining a set should write to:

Anne-Marie Real
55 rue de Buffon
75005 Paris
France □



BIBLIOGRAPHIC DATABASE SOFTWARE

Paul Neal authored "Personal bibliographic software program - a comparative review" in *BIOSCIENCE* 43(1):44-51, January 1993. Neal is the supervisor at the Yale University Herbarium. His evaluation is especially worth reading because it is written from the perspective of a scientist, rather than from a librarian's perspective. Most comparative review articles for bibliographic database software are written by librarians; scientists sometimes have different perspectives. Neal compares 24 features of Bibliophile, BiblioStax, Citation, EndNote Plus, Get-A-Ref, Notebook II Plus, Papyrus, Pro-Cite, Ref-11, Reference Manager, RefMenu, and WPCitation. Subjective evaluations of each software are included. Neal picks EndNote Plus, Papyrus, Pro-Cite, and Reference Manager as the best, differing among themselves in flexibility, speed, and price. □

ENVIRONMENTAL PERIODICALS BIBLIOGRAPHY SUBSET ON CD-ROM

NISC is producing a subset (Junior version) of the Environmental Periodicals bibliography database on CD-ROM. The Junior version covers the most recent five years of 450 international periodicals focused on environmental issues and research. EPB Junior costs US\$895 for an annual subscription. Contact:

Peggy Cordero
International Academy
800 Garden Street, Suite D
Santa Barbara CA 93101 USA □

DUCKDATA

DUCKDATA is a bibliographic database comprising 6700 references on the ecology of North American waterfowl (*Anatidae*) and their wetland habitats. The emphasis is on North American waterfowl but other English language publications that concern Holarctic species or address relations of general interest are included. DUCKDATA is available on 3.5 or 5.25 inch DOS diskettes in the following formats: Pro-Cite; ASCII file with field and records comma-delimited; and, ASCII file with citations formatted in the style of *The Journal of Wildlife Management*.

Available as U.S. Fish and Wildlife Service Resource Publication 186, contact:

U.S. Fish and Wildlife Service
Publications Unit
1849 C Street NW
Mail Stop 130 - Webb Building
Washington DC 20240 USA
(703) 358-1711 □

CDS/ISIS AND UNIX

Why is the UNIX operating system important?

UNIX is an operating system like DOS. An operating system is the first level of software on a workstation. The second level is the application level, examples of which are WordPerfect, CDS/ISIS and Lotus. Even a small library should require of its workstation that it be connected to an international network and that it be usable by several patrons at the same time. DOS was invented as a practical, easy-to-learn operating system for a PC by itself with one user. The gradually growing pressure for networking and multiple users in the DOS world caused the production of other intermediate layers of software, such as Windows and network software, which have to be inserted between DOS and the application program. This represents a Rube Goldberg approach to a multi-user, networked workstation. DOS is a bad foundation to build upon. UNIX, on the other hand, was written with networking, multi-users and multi-tasking in mind. It is difficult and has its own problems, but it got off on the right foot.

UNIX is important for two reasons. First, its built-in network capabilities allow a distant patron to use an interactive application program on my computer. Second, since UNIX is trying to steal customers from the DOS market, the price of UNIX workstations, which are several times faster than a 486 PC, is already quite reasonable.

Any DOS PC which can connect to Internet can do amazing things. It can search a distant library catalog interactively. It can receive mail. It can transfer distant files to itself. The key feature that UNIX adds is the ca-

pability for a person far away on the network to search a database I have created. This may not seem that important, but it is. It is relatively easy to turn my PC into a terminal using a distant computer, but to turn my PC into a computer which serves others is a break-through. Many small marine science libraries have created useful computer bibliographies. The infrastructure cries out that we make these available to one another. UNIX can do this.

The other reason UNIX is important is because the workstations which traditionally used UNIX are down-sizing. Although the UNIX operating system can be used on a PC, the down-sized UNIX computers are more attractive. A UNIX workstation is several times as fast as a 486, and is not that expensive. A Sun SPARCclassic (59.1 MIPS) with 16MB internal memory and 207MB hard disk (\$3356), unlimited user license (\$780), the Pascal Language (\$600), and very good power conditioner (\$1067) costs \$5803. For this reasonable amount one can graduate from small time to big time.

The bad news is that one then needs to purchase a UNIX version of the application software. More bad news is that the UNIX version of CDS/ISIS is not out yet. Further bad news is there are various versions of UNIX, so that even if a UNIX version comes out, it may not work with my specific flavor of UNIX.

What if a UNIX version of CDS/ISIS does not appear, or if it is the wrong UNIX version for me?

There is a partial solution. The

searching of a database needs to be distinguished from its maintenance. The database can be maintained on the DOS PC as it is now. But it can be presented for searching to the world on the UNIX machine, which is the point at issue. In the back of the CDS/ISIS manual the structure of the various index files is explained. The building of the index files to make the database searchable and the updating of these files are by far the most difficult aspects of database management. Let CDS/ISIS on the DOS PC continue take care of this. But to search the files, a program can be written using the Pascal language on the UNIX computer. A UNIX Pascal search program can use files created by DOS CDS/ISIS. This search program is not trivial, nor is it major programming. Once done successfully, it will work for all CDS/ISIS databases. Is it worth the effort?

Software is the stumbling block for small libraries moving forward into big time computing. The hardware is affordable (\$5803). The network is there. But library automation software often costs hundreds of thousands of dollars, and clients are seldom satisfied with it for long. CDS/ISIS offers a sophistication of indexing, a flexibility and a worldwide distribution undreamed of in commercial software. It helps us over those humps. But it is like a powerful adolescent afraid of adulthood. Now we must help it over its humps. It's user community must somehow force it into the realm of network connectivity. In this sense it is a relationship worth working on!

Charles McFadden □

CD-ROM PLAYERS REVIEWED

John Quain reviewed 21 DOS-compatible CD-ROM drives in "CD-ROM drives, mass appeal" PC MAGAZINE 11(22): 293-343, December 22, 1992. Editor's choice went to the NEC InterSect CDR-74 CD-ROM player which pioneered double-speed performance at a price comparable to standard-speed players. The NEC InterSect CDR-74 CD-ROM player spins and reads CD-ROM disks at twice the standard rate yielding twice the sustained data-transfer rate of standard CD-ROM players. The NEC InterSect CDR-74 CD-ROM player also has a 280-ms average access time, which is faster than the usual 325-380-ms average access times of other players. This player received the CD-ROM Product of the Year award at the recent Online/CD-ROM '92 conference in Chicago. □

CLIMATEDATA AND HYDRODATA CD-ROMS

Hydrosphere Data Products developed the software retrieval system for the Climatedata and Hydrodata CD-ROMs, formerly marketed by EarthInfo. Hydrosphere is now marketing these CD-ROMs itself and EarthInfo is marketing similar climatic and hydrological CD-ROMs with a different software. These vendors offer different software for using the same datasets on CD-ROM so prospective purchasers are well advised to compare features. Hydrosphere's Climatedata and Hydrodata CD-ROMs offer access and retrieval for over 100 years of hydrologic and climatological data in the US and for Environment Canada surface water data.

Future Hydrosphere software updates will include statistical quality control techniques for flagging questionable data, improved search capability, graphical tools and data

integration from several sources, as well as a GIS interface system in which Hydrodata and Climatedata will be directly usable with ARC/INFO, ArcView, and ArcCAD software. Contact:

Hydrosphere Data Products
1002 Walnut
Suite 200
Boulder CO 80302 USA
Phone: (800) 949-4937
Fax (303) 442-0616

Regarding EarthInfo's version, contact:

EarthInfo
5541 Central Ave
Boulder CO 80301-2846 USA
Phone: (303) 938-1788
Fax: (303) 938-8183 □

ATMOSPHERIC DATA ON CD-ROM

EarthInfo has produced CD-ROMs of atmospheric data taken from the US National Climatic Data Center's Surface Airways Hourly file of observations at active, first order US weather stations. Observations are published for: weather, relative humidity, ceiling height, altimeter setting, solar radiation, wind direction and speed, sky cover, horizontal visibility, station and sea level pressure, dew point, and dry and wet bulb temperatures. The twelve CD-ROMs are grouped by three's into four larger regions: east, central, west1, and west2. Contact:

EarthInfo
5541 Central Ave
Boulder Colorado 80301 USA
Phone: (303) 938-1788
Fax: (303) 938-8138 □

USE OF CDS/ISIS

I would like to update the information that Allen Varley prepared some time ago on the use of CDS/ISIS in aquatic libraries and information centres around the world. I enclose below the information that I would like to include: Please copy the form, fill in the details and send the form to me by post or by E-mail:

Organization Name:

Organization Address:

Contact Name:

E-mail address(es):

Computers used:

Uses made:

Please send to:

David S Moulder
Head of Library and Information Services
Plymouth Marine Laboratory
Marine Biological Association Library
Citadel Hill
Plymouth PL1 2PB
United Kingdom □

U.S. FEDERAL GRANT INFORMATION AVAILABLE ON-LINE

FEDIX is an on-line information service that links the higher education community with the US federal government to facilitate research, education and services. The system provides accurate and timely federal agency information. It operates 24 hours a day, 7 days a week, and there are NO REGISTRATION FEES and NO ACCESS CHARGES. FEDIX provides daily information on:

- Federal EDUCATION and RESEARCH PROGRAMS (including descriptions, eligibility, funding, deadlines);
- SCHOLARSHIPS, FELLOWSHIPS, and GRANTS;
- Available used government RESEARCH EQUIPMENT;
- New funding for specific research and education activities from the COMMERCE BUSINESS DAILY, FEDERAL REGISTER, and other sources;
- MINORITY ASSISTANCE research and education programs;
- GENERAL INFORMATION such as agency history, budget, organizational structure, mission statement, etc.;
- NEWS & CURRENT EVENTS within 8 participating agencies (currently Dept. of Energy (DOE); Office of Naval Research (ONR); National Aeronautics and Space Administration (NASA); Air Force Office of Scientific Research (AFOSR); and Federal Aviation Administration (FAA) are providing comprehensive education and research-related agency information; while the National Science Foundation (NSF); Dept. of Housing and Urban Development (HUD); and the Dept. of Commerce (DOC) are providing ONLY minority assistance information.) Other government agencies are expected to join FEDIX in the future.

REQUIRED HARDWARE AND SOFTWARE

Any microcomputer with communications software and a modem operating at 1200, 2400, or 9600 baud can dial-in: 1-800-783-3349 or 1-301-258-0953.

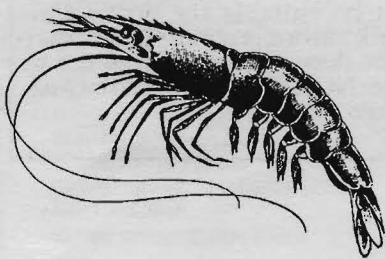
Internet access: FEDIX.FIE.COM or 192.111.128.33 login as "fedix".

HELPLINE (for technical assistance, problems or comments)

1-301-975-0103 (staffed from 8:30AM-4:30PM EST Mon-Fri, except federal holidays).

A detailed user guide is available from DOE. For ordering information call (615) 576-8401 ☐

OCEANOGRAPHIC AND MARINE RESOURCES CD-ROMS



Oceanography and Marine Resources Volumes One and Two (O&MR1 and O&MR2) are two new CD-ROM releases from NISC. O&MR1 and O&MR2 each merge several databases into a combined database searchable with NISC's ROMWright search software. These discs are for DOS microcomputers with 512K RAM available, monochrome or color monitors, and a CD-ROM drive running with MS-DOS CD-ROM Extensions. O&MR1 combines citations/abstracts from Oceanographic Literature Review (Deep-sea Research Part B, 1976 to present, over 110,000 items) with citations from databases (1985 to present, approx 240000 items) from Institute of Oceanographic Sciences Deacon Laboratory (oceanographic literature), Proudman Oceanographic Laboratory (estuaries and coastal waters of the British Isles), and Plymouth

Marine Laboratory (marine pollution).

O&MR1 costs US \$970 for an annual subscription with semiannual updates. Network pricing is available. O&MR2 combines 30,000 references from Sea Grant Abstracts (1968 to present) with 135,000 references constituting the NOAA Library catalog. O&MR2 costs US \$445 for an annual subscription with semiannual updates. Network pricing is available. Contact:

NISC
Suite 6
Wyman Towers
3100 St Paul St.
Baltimore MD 21218 USA

Phone: (410) 243-0797
Fax: (410) 243-0982

GLOBAL ENVIRONMENTAL DATASETS ON CD-ROM

The Global Ecosystems Data on CD-ROM (GEDOC) provides global environmental data produced by the Global Ecosystems Database Project, conducted by the U.S. National Geophysical Data Center and the U.S. Environmental Protection Agency's Environmental Research Laboratory, in Corvallis, Oregon. The GEDOC CD-ROM contains raster gridded map layers registered to a common latitude-longitude base. Parameters have been chosen for their potential use in integrated studies of the global environment.

The GEDOC CD-ROM includes selected data on the global environment, such as ecosystems, land use, wetlands, vegetation (including satellite-derived vegetation index), climate, topography, and soils. These data are on a range of compatible grids, from 2 degrees to 2 minutes. Vector data for coastlines and other features are also provided. This CD-ROM is readable on IBM-DOS compatible machines, Apple Macintoshes, UNIX workstations, and other computers that support the ISO 9660 standard. Software is provided to browse, visualize, and select appropriate portions of the data base for your work. Primarily, however, the data base is designed to interface with many statistical, image analysis, and geographic information systems. Data and sample setups are provided in two highly accessible geographic information systems, GRASS and IDRISI, to show how they can be used in other GISs. Available for US \$100 (product number 1016-A27-001).

Global Change Educational Diskette Project. Originally developed for the International Geosphere-Biosphere Programme, this is an integrated global change database for Africa, with accompanying documentation. The database includes selected data on ecosystems, vegetation including satellite-derived vegetation index, climate, topography, soils and other data for Africa. Vector data for coastlines and other features are also provided. The data are provided in compressed format on IBM-compatible diskettes and are decompressed to 41 megabytes of data. A 150-page workbook of exercises designed for schools, universities and self-instruction in using Geographic Information Systems is provided. The workbook exercises occupy another 20 megabytes of disk space if used all at once and were written by a series of people using IDRISI, a widespread, low-cost, education GIS. Available for US \$150 (product number 1085-A25-001). Experimental Calibrated Global Vegetation Index on CD-ROM providing an experimental Normalized Difference Vegetation Index (NDVI), based on Advanced Very High Resolution Radiometer (AVHRR) data from NOAA's polar orbiting environmental satellites. Biweekly data cover April 1985 through December 1991. NDVI data are an indication of the vigor of vegetative processes, such as chlorophyll production and has been used to analyze associations between climate and vegetation, and have helped predict future shortfalls in agricultural production due to drought. Available for US \$70 (product number 1084-A27-001).

Prepayment required; make checks and money orders payable to COMMERCE/NOAA/NGDC. Do not send cash. All non-U.S.A. orders must be in U.S. dollars drawn on a USA bank. US \$10 handling fee for delivery outside the U.S.A. Orders may be charged to American express, MasterCard, or VISA by telephone, letter, or fax. Please include a credit card account number, expiration date, telephone number, and your signature with order. Address inquiries and orders to:

National Geophysical Data Center
NOAA, E/GC1, Dept. 891
325 Broadway
Boulder, CO 80303, U.S.A.
Phone: 303-497-6125
Fax: 303-497-6513
Internet: info@mail.ngdc.noaa.gov
Telex: 592811 NOAA MASC BDR □

INTERNET DOCUMENT TRANSMISSION PROJECT RESULTS

Tracy Casorso reports on the "NCSU Digitized Document Transmission Project: improving access to agricultural libraries" in THE ELECTRONIC LIBRARY 10(5): 271-273, October 1992. NCSU DDTP is a collaborative project between the North Carolina State University Libraries, the US National Agricultural Library, and 11 land grant university libraries. Electronic delivery of digital images of interlibrary loan documents were transmitted over the Internet; delivery of documents to the end-user's workstation was also tested.

The author points out the differences between the NCSU DDTP system and other current Internet transmission systems, CICnet and RLG ARIEL, and concludes (without sufficient documentation) "... that the research library community is not as well prepared to investigate networking issues as one might expect and that Internet reliability is questionable. The Internet, as it is presently constructed, may not be suitable for production work" in transmitting interlibrary loan documents. A final report from NCSU DDTP is due to be published. □

HURRICANE INVENTORIES VIA INTERNET

The U.S. National Climatic Data Center's hurricane inventories can be accessed via Internet. A NCDC workstation has a subdirectory called inventories containing the inventory files. The files can be FTP downloaded at any time. NCDC asks to be notified after this is accomplished because limited disk space is available for FTP requests for inventory information. If the number of requests for this information increases dramatically, this service may be expanded to cover additional inventories. The following instructions allow the user to login to the workstation over Internet via FTP. Enter commands in lower case letters. After engaging your FTP software, type "open 192.67.134.72" or "open hurricane.ncdc.noaa.gov". You can also connect directly by typing "ftp" followed by the network address. The login is "anonymous" and the password is "guest". Change to the subdirectory where inventory files reside by typing "cd /pub/upload/inventories". Read and/or FTP the README.TXT file giving a description of the individual inventory files (files listed below). To display the contents of the directory and locate files, type "dir". After files have been FTP transferred, logoff by typing "bye". After logoff, send an email to tross@ncdc.noaa.gov or nlott@ncdc.noaa.gov, notifying them that you have transferred files. These email addresses are contact ad-

resses (Tom Ross and Neal Lott, respectively) for assistance. Available files are:

- COOP.TXT [historical cooperative station index -elevations in tens of feet]
- COUNTY.TXT [cooperative station number -county name cross-reference]
- DATSV2.TXT [AWS DATSAV2 surface -worldwide observations inventory]
- DAT2USCN.TXT [same as 'DATSV2' but for US and Canada only]
- MSC-ABB.TXT [abbreviated AWS master station catalog - worldwide station list]
- TD3280.TXT [TD3280 - Navy, NWS first-order stations inventory];
- WBAN.TXT [historical WBAN index - elevations in meters]
- WBAN-MSCTXT [WBAN-AWSMSC-WMO cross-reference] □

ONLINE VERSION OF THE SCIENTIST

THE SCIENTIST: THE NEWSPAPER FOR THE SCIENCE PROFESSIONAL (ISSN 0890-3670) is now available on-line via NSFNet as files of about 3,000 lines in length. Only text is available; the online version leaves out job announcements, pictures, advertisements, the crossword puzzle, etc. To gain electronic access to this valuable biweekly information source:

Type: ftp nnsf.nsf.net
Login: anonymous
Password: enter your email id, like ucdbml@ucdavis.edu
Type: cd the-scientist

Files are added every two weeks, with file names corresponding to the date of publication. To access the February 8, 1993 issue, for example:

Type: get the-scientist-930208

To access the November 23, 1992 issue, for example,

Type: get the-scientist-921123

For a full listing of the issues of THE SCIENTIST in the NSFNet directory,

Type: ls *
or Type: get index-the-scientist

Try retrieving this: there is an interesting article by Joshua Lederberg (Nobel Laureate) entitled "Communication as the Root of Scientific Process" in the February 8, 1993 issue. The article begins at Line 1523 of the file or on Page 10 of the printed publication. □

INTERNET AND OMNET TELECOMMUNICATIONS

Effective 1 March 1993, Michael Gomez of Alfred-Wegener Institut will be IAMS LIC's official Internet to Omnet telecommunications transfer agent. Michael will move items appearing on our Internet discussion group IAMS LIC@UCSD.EDU to the Omnet bulletin board AMSLIC.NET established for this purpose.

Peter Brueggeman of Scripps Institution of Oceanography will continue to move items appearing on our original Omnet bulletin board AMSLIC to the Internet discussion group AMSLIC@UCSD.EDU.

This will allow IAMS LIC to have parallel online bulletin boards on different platforms. Items posted on IAMS LIC.NET will NOT duplicate those items posted on IAMS LIC.

The Internet discussion group, like our Omnet bulletin board, is open to anyone. Both are monitored and receive comments from IAMS LIC and non-IAMS LIC members.

You may contact Michael or Peter at the addresses below:

MICHAEL GOMEZ

Internet: gomez@vax.awi-bremerhaven.dbp.de

Omnet: M.GOMEZ

PETER BRUEGGE MAN

Internet: pbrueggeman@ucsd.edu

Omnet: SCRIPPS.LIBRARY □

iamslic

A COOKBOOK FOR USING THE ARCHIE SERVER ON THE INTERNET

by Joe Wible, Stanford University

What does ARCHIE do? ARCHIE provides a mean for locating files on the Internet that are available for "downloading" using anonymous FTP. The ARCHIE program goes out and polls all the FTP sites for their list of available files. These are then compiled and indexed so you can do one-stop-shopping to locate a file you want to obtain. For example, I used it to locate a copy of the documentation for Eudora, a public domain software package for handling email on the Internet. Below are the steps I took to identify where I could obtain the Eudora documentation.

<u>SYSTEM PROMPT</u>	<u>WHAT I TYPED</u>	<u>COMMENTS</u>
[local system prompt]	telnet archie.ans.net	other ARCHIE servers worldwide are listed when you logon; pick the closest server next time
login:	archie	
archie>	set search sub	to search substring or truncation instead of exact match (the default)
archie>	prog eudora	substitute your term for eudora; you will get a long listing showing FTP host addresses, each host's directory with the software, and file information
archie>	exit	to logoff the host

Below is one of many listings retrieved from the above search:

Host orion.oac.uci.edu (128.200.15.20)

Last updated 06:00 14 Oct 1992

Location: /ntslib/mac/mail

DIRECTORY rwxr-xr-x 512 Aug 23 1991 eudora.1.2
DIRECTORY rwxr-xr-x 512 Jul 20 1991 eudora.1.2b50

Location: /ntslib/mac/mail/eudora.1.2/NTS.dist

FILE rw-r--r-- 799875 Aug 26 1991 Eudora1.2.Doc.sit.hqx
FILE rw-r--r-- 859343 Aug 26 1991 EudoraComm1.2.sit.hqx
FILE rw-r--r-- 476104 Aug 26 1991

EudoraProgram1.2.sit.hqx Location: /ntslib/mac/mail/eudora.1.2b50

FILE rw-r--r-- 523264 Jul 20 1991 Eudora1.2.Doc.sit
FILE rw-r--r-- 231808 Jul 19 1991 Eudora1.2b50

This let me know I could use anonymous FTP (use the word "anonymous" when prompted for the login) to download a file called Eudora1.2.Doc.sit.hqx from the host computer orion.oac.uci.edu. The inclusion of the word "Doc" within the long file name notes that it is a documentation file for the Eudora program. The file was located in the /ntslib/mac/mail/eudora.1.2/NTS.dist directory so I first changed to that directory. I then used a program called Fetch to obtain this file via FTP from my Macintosh connected to the network. Fetch is an FTP program for the Macintosh, written at Dartmouth, and available for free to educational and non-profit organizations (for-profit organizations are charged \$25). A similar program for DOS microcomputers that will FTP is NCSA Telnet. □