

International Association of Aquatic and Marine
Science Libraries and Information Centers

newsletter

Number Forty
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IN THIS ISSUE

President's Message	3
Conference Program	4-6
Publications	8-9
CD-ROM	10-12
Computer News	13-14

17th Annual IAMS LIC Conference 7-11 October 1991 Galveston, Texas U.S.A.

For IAMS LIC, this is a period of dramatic changes. Expanded in scope to include all aquatic information and extended in structure to include regional groups, the decisions we make now may have effects far into the future. To date, 5 different regions have approached the Executive Board formally or informally with interest in regional recognition. Two have been accepted, another is imminent. These groups offer the promise of extending the practical regional-level utility of IAMS LIC membership to those not able to participate regularly at the level of international conferences.

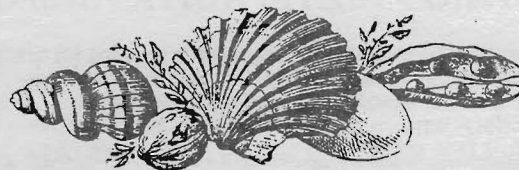
Continuing a strong recent trend, there will be representatives from regions not previously active at IAMS LIC conferences, including the Soviet Union and China. A colleague from the Polar Sciences Colloquy will be

presenting a paper, opening the possibility of exploring closer cooperation with kindred disciplines.

For the first time there will be a conference session devoted exclusively to "freshwater" topics. It is to be hoped that this session will be the precursor of far more extensive participation in the future by those with limnological or freshwater aquacultural orientations. All in all this promises to be an exciting conference which may set new directions for IAMS LIC. And don't miss what looks to be an outstanding pre-conference workshop on Geographic Information Systems ...!

See you in Galveston!

Tom Moritz
Conference Coordinator ☐



REMINDER FOR CONFERENCE ATTENDEES

We invite each and every person (who's interested) to bring a new SIZE LARGE T-shirt from your institution or country to the Galveston conference. Each person who brings a favorite T-shirt will go home with someone else's favorite T-shirt, wouldn't YOU like being the only person in Chile wearing a Hafrannastofnunin T-shirt from

Iceland? Would you like modelling the latest in WHOI fashion at your next library committee meeting? Not only is this a fun way to break the ice at our conference, it's a great way to advertize our institutions. Don't be square ... be there ... with your LARGE T-shirt to trade. ☘

Communications to IAMS LIC should be directed to:

Kristen L. Metzger

Harbor Branch Oceanographic Institution
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1990 / 1991

IAMSLIC OFFICERS

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544 Longspur Loop
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THIRD INTERNATIONAL SEMINAR ON MANAGEMENT OF INFORMATION RELATED TO WATER AND THE ENVIRONMENT

Organized in the framework of the UNESCO International Hydrological Programme (UNESCO-IHP) in collaboration with the Belgian National Committee for the International Hydrological Programme (BNCIHP) at the Royal Museum for Central-Africa Tervuren near Brussels, Belgium on 14-15 November 1991

(Attendance free of charge)

The UNESCO International Hydrological Programme (IHP) Phase IV Working Group for the projects M 2.1 and M 2.2 is dealing with water-related information in a broad sense and concentrates on:

Promoting, explaining, and using internationally available bibliographic data bases related to water and the environment. This includes the use of data bases on CD-ROM (Compact Disk Read Only Memory) and by on-line access.

Guiding those who are planning to set up their own (national) water-related information systems, perhaps in a later stage to be connected with international information systems. The use of Micro CDS/ISIS software plays a major role here, including the handling of factual data bases.

UNESCO-IHP offers a series of seminars to inform and/or train end-users or intermediaries, and to exchange information among people in the field of water and the environment. Previous seminars were organized in London, UK (1989), and in Dubrovnik, YU (1990).

This seminar will take place in

the period that the course Management of Information in Science and Technology (MIST) takes place in Brussels. This assures the presence of about 15 trainees from various countries.

Organizers:

W.W. de Mes (Rapporteur to UNESCO-IHP);

P. Nieuwenhuysen (Chief Rapporteur to UNESCO-IHP, VUB Free University of Brussels);

F. Provost (Rapporteur to UNESCO-IHP, VUB Free University of Brussels)

Contact:

Secretariat Seminar
W.W. de Mes
Rapporteur UNESCO-IHP
Loevestein 27
2403 JC Alphen a/d Rijn
The Netherlands

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Questions can also be sent to Paul Nieuwenhuysen by e-mail:

Internet address:

PNIEUWEN@RC1.VUB.AC.BE □

The IAMSLIC NEWSLETTER is published quarterly; in March, June, September and December.

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

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Omnet/Sciencenet: *SCRIPPS.LIBRARY*

**IAMSLIC '92
OCTOBER 5-9, 1991
BREMERHAVEN,
GERMANY**

IAMSLIC '92 will be the first IAMSLIC conference to be held outside North America. The theme of the conference has not yet been decided, but will be announced as soon as it is decided upon. How many people will attend is unknown but EURASLIC conferences have been attended by 40 to 70 people. Many EURASLIC members find the registration fee for the IAMSLIC conference (250-300 US\$) to be too high and feel that they could not get funded. A different pricing plan is being considered; a price could be put on each day of the meeting, or even each session so that attendees could select what they considered affordable and would not have to pay for the entire conference. There will be a package offer for the entire conference, but more options will be available. Lunches, banquets and field trips may be treated as extras. Any comments or suggestions for IAMSLIC '92 should be directed to Eirikur Einarsson. □

**TIME TO RENEW
YOUR IAMSLIC MEM-
BERSHIP**

Enclosed with this newsletter is your IAMSLIC renewal notice. Your dues expire on October 1st unless otherwise indicated on the notice. Please update the information provided and mail it along with your check before October 1st or bring your notice and check to the annual meeting in Galveston. There is now a place on the renewal form to indicate your affiliation with a regional group of IAMSLIC (eg. EURASLIC or CYAMUS). Also, if you have a FAX number or an e-mail address, please be sure to add these to your renewal notice so they can be included in the next edition of the Directory. Please save the organization money and don't wait for a second notice before you renew. □

FROM THE PRESIDENT ...

IAMSLIC has accepted two official Regional Groups since the last NEWSLETTER. The first was CYAMUS, the North American West Coast Group which includes Canada, the U.S., and Baja California in Mexico. Janet Webster from the Hatfield Marine Science Center in Newport, Oregon is Cyamid's member on the Executive Board. (By the way, CYAMUS is NOT an acronym - actually it's a kind of whale louse!) Just last week, SAIL, the Southeastern U.S., Bermuda, the Bahamas, and the Caribbean. (SAIL, by the way, IS an acronym - Southeastern Affiliate of IAMSLIC Libraries). Choosing an Executive Board representative is in progress. Welcome, welcome, CYAMUS and SAIL! Additionally, EURASLIC has just voted to become a regional group of IAMSLIC and this will be put to a vote of the executive board very quickly. May this new structure bring many benefits to both parent organization and regional offspring (or, should I say, to both host and parasite?).

Looks like Natalie Wiest and Tom Moritz are getting their respective Conference acts together. There are always last minute details to consider but, between the clear, precise local arrangements mailing and the new program schedule, Galveston promises to be another great IAMSLIC meeting. Aside from the professional stimulation of new ideas, methods, and technologies, meeting old friends and making new ones is always among the best features of these get-togethers. This year, again, we will be sharing the Conference events with information people from far away - from Russia, Fiji, the People's Republic of China. IAMSLIC must make another effort to provide financial assistance for institutional personnel who cannot join because of currency hardships. We would like to welcome more regional groups under our international umbrella.

Looking forward to Galveston. See you all there.

Kay Hale □

KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH

According to a RSMAS alumna from Kuwait who is visiting Miami after returning to her homeland after the Gulf War, the Kuwait Institute for Scientific Research was looted and vandalized. Her photographs of the damage are heartbreaking. The library has completely disappeared - all books, journals, documents are gone. KSIR is starting to rebuild and will need an experienced librarian to assist the Kuwaiti librarian in reestablishing resources and services. The Institute is looking for someone to work in Kuwait for a year or two. Living accommodations will be provided.

If anyone is interested in such a job, you are invited to send a letter, with resume and questions about salary and work conditions, to : Mrs. Feryal Al-Foraih, NSTIC Library. Fax no. (956) 4830432.

Kay Hale □

BIODIVERSITY RESOURCE CENTER AT CALIFORNIA ACADEMY OF SCIENCES

The California Academy of Sciences Library's Biodiversity Resource Center is featured in Pacific Discovery 44(3):53, Summer 1991. Entitled "A Natural Resource", the article presents the development of the Center by IAMSLIC member Tom Moritz, the Academy Librarian, who is quoted extensively in the article. The Center is located on the Academy's exhibits floor (separate from the Academy Library) and provides information on diversity and evolution of life and environments. Staffed by librarians and volunteers, the Center contains reference books, journals, brochures of environmental organizations, compact disc databases, and videotapes. More details on the Center can be found in the article. □

IAMSLIC 1991**17th Annual Conference of the International Association of Aquatic and Marine
Science Libraries and Information Centers****October 7-11, 1991
Galveston, Texas USA****MONDAY OCTOBER 7**

- 9:00 am -- 4:00 pm

PRE-CONFERENCE WORKSHOP: UNDERSTANDING GIS

Morning

Dr. Michael Goodchild, Director, National Center for Geographic Information Analysis, University of California, Santa Barbara, CA USA

Afternoon

Kenneth Haddad, Bureau of Marine Research, Florida Dept. of Marine Resources, St. Petersburg, FL USA

- 4:00 pm EXECUTIVE BOARD MEETING
- 7:00 pm WELCOMING RECEPTION

TUESDAY OCTOBER 8

- BREAKFAST
- MORNING SESSION

WELCOME/INTRODUCTION

Dr. William Evans,

President, Texas Institute of Oceanography and U.S. Representative to the International Whaling Commission (IWC)

INTERNATIONAL REPORTS

Dr. Ivan Bukhanevich (All-Union Research Institute of Marine Fisheries and Oceanography/VNIRO Moscow, USSR):*
MARINE SCIENCE INFORMATION AND NETWORKING IN THE USSR

Robyn McDowell (PIMRIS, Suva, Fiji)

INFORMATION CONTROL AND THE AQUATIC ENVIRONMENT OF THE SOUTH PACIFIC

Bridget Turner (ICOD, Halifax, Canada) [in absentia]

REPORT FROM OECD MEETING ON EXCHANGE OF DEVELOPMENT INFORMATION (Paris, June 19-21, 1991)

- BREAK

Martha Andrews (INSTAAR, Boulder, Colorado USA)

POLAR LIBRARIES COLLOQUY AND POLARPAC

Pan Xueliang (National Marine Data & Information Service, Tianjin, Peoples Republic of China)

THE PROGRESS OF ASFA WORK IN CHINA

Carol Watts (NOAA Libraries, Washington, D.C. USA)

ASFIS/ASFA: REPORT FROM ROME

- LUNCH
- AFTERNOON SESSION

MARINE INFORMATION MANAGEMENT: Moderator -- *Pauline Simpson* (IOS, Wormley, United Kingdom)

Li Shuhua (Guangxi Research Institute for Marine Science, Peoples Republic of China)

ENVIRONMENTAL/MARINE INFORMATION MANAGEMENT IN THE GUANGXI REGION, PEOPLES REPUBLIC OF CHINA

MARINE INFORMATION MANAGEMENT: NATIONAL AND INTERNATIONAL PERSPECTIVES (A PANEL DISCUSSION)

J. Beattie, P. Brueggeman, K. Hale, T. Moritz, P. Simpson, E. Marshall, C. Watts

- **BREAK**

- **BUSINESS MEETING**

Regional status in IAMS LIC: an introduction

Sharon Thomson (Institute of Ocean Sciences, Sidney, British Columbia, Canada)

Panel of available IAMS LIC Regional Representatives

Reports: general discussion of regional cooperation

- **OPEN COMMITTEE SESSIONS**

- **DINNER (on your own)**

WEDNESDAY OCTOBER 9

- **BREAKFAST**

- **MORNING SESSION**

GIS / SYSTEMS: Moderator -- *Janet Webster* (Oregon State University, Newport Lab, Newport, OR USA)

Pat Stiefer (Systems Applications International, San Rafael, CA USA)

GIS IN ENVIRONMENTAL SCIENCE

Jim Nance (US National Marine Fisheries Service, Galveston, TX USA)

CMAS: COMPUTER MAPPING AND ANALYSIS SYSTEM

Charley Alexander (National Oceanic and Atmospheric Administration, Washington, D.C. USA)

COMPAS: THE COASTAL OCEAN MANAGEMENT, PLANNING AND ANALYSIS SYSTEM

- **BREAK**

Steve Friedman & Fred Lohrer (Archbold Biological Laboratory, Lake Placid, Florida USA)

IMPLEMENTATION AND APPLICATION OF GIS AT THE ARCHBOLD BIOLOGICAL STATION

Barbara Butler (Biodiversity Center, California Academy of Sciences, San Francisco, CA USA)

THE BIODIVERSITY RESOURCE CENTER: A WORKING MODEL FOR BROAD DISSEMINATION OF BIODIVERSITY INFORMATION IN A PUBLIC SERVICE SETTING

Dave Coleman [presenter *Peter Brueggeman*] (University of Hawaii, Honolulu, HI USA)

REMOTE ACCESS TO CD-ROM DATABASES

- **LUNCH**

BIBLIOGRAPHIC CONTROL: Moderator -- *Jim Markham* (University of California, Santa Barbara, CA USA)

Jim Markham (University of California at Santa Barbara, Santa Barbara, CA USA)

BIBLIOGRAPHIC DATABASE COMPARISONS: A REVIEW AND PROPOSED METHODOLOGY

Maggie Rioux (Woods Hole Oceanographic Institution, Woods Hole, MA USA)

The Virtual Library: Expanding the collection through Bibliographic control of institution desk references

Gai Mingju (IMSTI, Tianjin, Peoples Republic of China)

THE CHINESE MARINE THESAURUS AND ITS COMPILING TECHNIQUES

- BREAK

BIBLIOGRAPHIC CONTROL II

Pam Olson (Pacific Biological Station, Nanaimo, British Columbia, Canada) [Presenter *Eric Marshall*]

THE TRILINGUAL SPECIES LIST FOR THE WAVES/VAGUES DATABASE

Victoria Welborn (University of California, Santa Cruz, CA USA)

USER INSTRUCTION AND THE UNDERGRADUATE ASFA CD-ROM SEARCHER

Peter Brueggeman (Scripps Institution of Oceanography, La Jolla, CA USA)

LOCAL DATABASE MANAGEMENT USING ASKSAM

- DINNER

THURSDAY OCTOBER 10

- BREAKFAST
- MORNING SESSION

Janice Meadows (Scott Polar Research Institute, Cambridge, United Kingdom)

DESCRIPTION, MANAGEMENT AND CONSERVATION OF SOUTHERN OCEAN STOCKS

Susan Putnam (Woods Hole Oceanographic Institution, Woods Hole, MA USA)

PRESERVATION OF 'GREY LITERATURE' IN MARINE SCIENCES AND OCEAN ENGINEERING

Connie Cooke (University of Connecticut at Avery Point, Groton, CT USA)

THE LITERATURE OF THE VA MYCORRHIZAE

- BREAK 10:15am
- IAMSLIC BUSINESS MEETING (SECOND SESSION)
- LUNCH
- FIELD TRIP: NASA's Lyndon Johnson Space Center, Houston, TX USA
- DINNER/DANCING

FRIDAY OCTOBER 11

- BREAKFAST

FRESHWATER FORUM: Moderator - *Eric Marshall* (Freshwater Institute, DFO, Winnipeg, Manitoba, Canada)

Eric Marshall (Freshwater Institute, DFO, Winnipeg, Manitoba, Canada)

AQUAREF AND OTHER NEW WRINKLES ON WAVES

Stephanie Haas (University of Florida, Gainesville, FL USA)

FINDING FISH IN THE GITCHE GUMEE: INFORMATION PARTITIONING IN LIMNOLOGY

Jeff Humphrey (US Fish and Wildlife Service, Fort Collins, CO USA)

FISHERIES REVIEW ON CD-ROM

John T. Campbell (U.S. Geological Survey, Reston, VA USA)

WATER RESOURCES SCIENTIFIC INFORMATION CENTER

Janice Sieburth (University of Rhode Island, Narragansett, RI USA)

IDENTIFYING THE SCIENTIFIC LITERATURE OF ESTUARIES

- CONFERENCE ENDS
- AFTERNOON: IAMSLIC EXECUTIVE BOARD MEETING

* *Dr. Bukhanevich's attendance is supported in part by The Soros Foundation -- Soviet Union, New York USA*

FISHERIES AND FISH FARMING: LIVELIHOODS FOR FAMILIES DISPLACED BY DAMS

In 1985, The Indonesian government began damming West Java's Citarum River to provide electricity to the island of Java. The resulting Saguling and Cirata Reservoirs flooded over 12,000 hectares of productive farmland, displacing 44,000 residents, mostly poor farmers. Many refused to comply with the government policy which directed them to transmigrate to Indonesia's outer islands. They said these relocation sites were infertile and undeveloped.

The new reservoirs had indeed caused the loss of farmland; but project planners who were tasked to create new jobs to resettle the displaced families saw the new waters as a potential source of livelihood. Beginning in 1986, they developed appropriate fishing and fish farming methods through surveys and extensive research, eventually transferring the new technologies to the displaced families through extension and training.

Today, five years later, carp and tilapia farming is a thriving industry in Saguling and Cirata Reservoirs, that provides livelihood to more than 1,000 families and supplies fresh-water fish to nearby and even distant markets.

The fish farming systems developed are the results of collaborative pioneering work by the Indonesian State Electric Company; the Institute of Ecology, Padjad-jaran University, Bandung; the West Java Provincial Fisheries Agency and its Technical Management Unit for Saguling and Cirata; and the Philippine-based International Center for Living Aquatic Resources Management. The World Bank provided funding.

This team of collaborators recently published a book, **RESERVOIR FISHERIES AND AQUACULTURE DEVELOPMENT FOR RESETTLEMENT IN INDONESIA**, which includes a comprehensive

development plan and describes, in full detail, this success story in reservoir fish farming and fisheries research and development. The authors hope that the book will help in the planning and execution of similar endeavors in Indonesia and elsewhere.

The book is available from:

ICLARM MC
P.O. Box 1501
Makati Metro Manila
PHILIPPINES

Also available from its distributors:

ISBS
5602 N.E. Hassalo Street
Portland, Oregon 97213-3640 USA

S. Toeche-Mittler
GmbH Versandbuchhandlung
Hindenburgstrasse 33
D-6100 Darmstadt GERMANY □

OIL SPILL PUBLIC INFORMATION CENTER

The Oil Spill Public Information Center provides public access to information on the Exxon Valdez oil spill. Located in Anchorage, Alaska, the Center welcomes requests from patrons around the world.

THE CENTER'S ORIGIN. On March 24, 1989, the tanker Exxon Valdez spilled almost 11 million gallons of oil into Prince William Sound. During the massive cleanup effort that followed, large amounts of scientific and economic information related to the oil spill were generated.

Recognizing the value of this information to the public, the U.S. Department of Justice, on behalf of the U.S. Departments of Agriculture and the Interior, the National Oceanic and Atmospheric Administration, and the Environmental Protection Agency, established the Oil Spill Public Information Center. Information at the Center represents contributions from agencies of the Federal Government and other public and private organizations.

RESOURCES AND FACILITIES. The Center houses a variety of infor-

mation related to oil spills, with emphasis on the Exxon Valdez oil spill. The basic reference and research collection includes information for numerous disciplines of the natural and social sciences, economics, and law.

Visitors to the Center will find technical reports, newspaper and magazine articles, books, and other print materials in the reading room. They will have access to information stored on microfilm and microfiche, a growing library of audio and videotapes, photographs, and computerized data bases. Equipment on hand for accessing these resources includes microform reader-printers, personal computers, audio and video equipment, and photocopiers.

To serve users outside the Anchorage area, the Center has established systems for sharing information by telephone, facsimile transmission, mail, or interlibrary loans. The staff can prepare bibliographies of the Center's holdings for those users who wish to request documents. In addition, the Center is a contributing member of the Western library Net-

work (WLN). Through WLN, the Center's resources are made available to libraries throughout the United States, Canada, and other countries.

The Oil Spill Public Information Center has assembled a talented staff to assist users. Director of Information Services Mary H. McGee leads the team. Ms. McGee is the former director of the Ketchikan Public Library. Assisting her are Public Services Librarian Carrie Holba, who comes to the Center from the Anchorage Municipal Libraries, and Catalog Information Specialist Peg Thompson, an experienced public librarian, archivist, and records management consultant.

Patrons can contact the Center through the following toll-free telephone numbers:

1-800-478-SPIL (Alaska residents) or
1-800-283-SPIL (outside Alaska)

OIL SPILL PUBLIC
INFORMATION CENTER
645 G Street
Anchorage, Alaska 99501 USA □

LAW OF THE SEA INSTITUTE NEW PUBLICATIONS

IMPLEMENTATION OF THE LAW OF THE SEA CONVENTION THROUGH INTERNATIONAL INSTITUTIONS, proceedings of the 23rd annual conference held in Noordwijk aan Zee, The Netherlands, 12-15 June 1989. (1990). US \$45.00. (Available Summer (1991).

The 1982 Convention on the Law of the Sea began as a concept conceived within the United Nations, its subsidiary organs and agencies, and in non-governmental organizations linked to the process. It is being implemented, as well, within these international organizations and in national organizations which work through international organizations. Any understanding of the function of modern international law of the sea requires familiarity with these political and administrative structures, which form and reform ocean law and policy on a continuous basis. The subject is undertaken under the following chapters:

- General Aspects of the Role of International Organizations
- Navigation (Sea and Air)
- Living Resources
- Protection of the Marine Environment

OCEANOGRAPHIC & METEOROLOGICAL TABLES

Applied Environmetrics Oceanographic Tables (Tom Beer, 1989, Applied Environmetrics, Balwyn, Victoria, Australia, ISBN 0-9590809-2-9, \$125) and Applied Environmetrics Meteorological Tables (Tom Beer, 1990, Applied Environmetrics, Balwyn, Victoria, Australia, ISBN 0-9590809-1-0, \$125) are both computer programs with accompanying manuals developed by Tom Beer of CSIRO Australia. The programs accompany his 1983 textbook Environmental Oceanography and provide oceanographic and meteorological data in tabular form. They are designed to provide oceanographers, hydrographers and meteorologists with electronic equivalents of the Handbook of Oceanographic Tables (Bialek, 1966) and the Smithsonian Meteorological Tables (List, 1951).

The oceanographic tables cover: density, viscosity and fall velocity for particulates; wavelength, period and celerity for ideal waves or wind wave properties; tidal prediction; density,

- Marine Scientific Research
- Settlement of Disputes

FISH AND FOREIGN POLICY: NORWAY'S FISHERIES POLICY TOWARDS OTHER COUNTRIES IN THE BARENT'S SEA, THE NORWEGIAN SEA, AND THE NORTH SEA. Brit Floistad (1991). 128 pages, includes maps and index. US \$22.00.

This analysis of Norwegian fisheries policy could serve as the pattern for similar studies in many other coastal states, for it explains how such policy depends on many factors other than those directly linked to fish harvesting, processing, and marketing. Covers general foreign policy aspects, security policy, and economic policy. A must for those who would predict the development of foreign policy in this region.

To order, or to request a list of publications, write to:

Law of the Sea Institute
University of Hawaii
Richardson School of Law
2515 Dole Street, Room 208
Honolulu HI 96822 USA □

freezing temperature, specific heat, sound speed and conductivity ration of seawater; solubility of oxygen, nitrogen and argon at saturation in seawater; latitude-dependent quantities; wind speed conversion; saturation vapor pressure and latent heats for pure water, seawater and ice; solar values; and more.

The meteorological tables cover: temperature and pressure conversions; density and pressure with height; geodetic information, geostrophy and the reference atmosphere; solar position and sunrise/sunset times; moisture parameters from dry bulb and wet or ice bulb readings; meteorologically relevant temperature for moist air; speed of sound, density, molar mass, and specific heats of moist air; wind speed converter; fire weather tables; and more. Both are published by and available from Applied Environmetrics, 118 Gordon St, Balwyn, Victoria 3103 Australia. CRC Press just announced the oceanographic tables title for US \$195 - US \$70 more. □

DIGITAL EEZ BATHYMETRIC DATA

NOAA is now disseminating multibeam digital bathymetric data for the U.S. Exclusive Economic Zone (EEZ). The data is in the form of depth grids covering single map areas. Each area generally measures 0.5 degrees in latitude by 1 degree in longitude. Currently there are 12 sets of data corresponding to NOAA's 12 published EEZ maps. The data for each map area are distributed on a 1.2 or 1.44 megabyte floppy diskette. These can be read by an IBM PC using DOS. Each disk contains two grids for a map area: (1) a 250-m UTM grid is used for drawing the contours on the published map, and (2) a less dense geographic grid covering the same map area but containing only about one-third the number of depths as the UTM grid.

The geographic grid has depth values at every 15 seconds of latitude and longitude and is derived from the UTM grid. Each disk contains additional files including a README file, needed to interpret the grid data. All files are in an ASCII format. The 12 map areas for which gridded data are presently available are located in the following regions: Gulf of Mexico (4), Central California (6), Hawaii (1), and Oregon (1). The grids can be used to make black and white or color contour maps, three-dimensional plots, and other data products with suitable software (NOAA does not supply the software).

The cost of each disk is US \$20. For additional information on these digital data as well as on EEZ maps and catalogues contact:

Graphic Mapping Unit (N/CG224)
NOAA/National Ocean Service
6001 Executive Boulevard
Rockville, Maryland 20852 USA
(301) 443-8855 □

EXPAND YOUR SEARCH SERVICE TO OFFER NUCLEIC ACID SEQUENCES

Nucleic acid sequence information may be referenced but not given in biotechnology journal articles; sequences may be noted by a GenBank accession number. Gregory F. Pratt writes about "online retrieval of nucleic acid sequences from GenBank" [DATABASE 14(2): 102-104, April 1991].

GenBank can be accessed free with an automatic disconnect after twenty minutes. Sequences can be retrieved by telnetting to the GenBank computer through the Internet; sequences can also be retrieved through electronic mail. For those not on a network, direct dial access is available at long distance rates to San Francisco, California USA. □

MICROCOMPUTER ATLAS OF WORLD OCEAN

ATLAST, an interactive microcomputer world-ocean atlas of hydrographic and chemical tracer sections, is available from NASA Ocean Data System. ATLAST makes close and intuitive examination of ocean sections possible for a wider group of oceanographers and their students. ATLAST allows you to browse through color sections, plotting profiles, property-property plots and map-view (x-y) structure of the data. It has interpolation, filtering and contouring routines to develop isopycnal analyses. Version 3 of ATLAST, for IBM-compatible microcomputers, includes users' manual and five 1.44 Mbyte diskettes (with a translator for converting ASCII data files into the format used by the atlas, and about 6 megabytes of data). Available without charge from:

Ruby Lassanyi
JPL User Support Office
MS 300-320
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena CA 91109 USA
(818-354-0906)
OMNET: NODS.JPL □

FREE !!!

MARINE TECHNOLOGY SOCIETY PROCEEDINGS

The following conference proceedings from the Marine Technology Society are available for free; numerous copies are available. Please respond immediately; this offer will conclude in two months due to limited warehouse space. Send a list of items wanted and your mailing address to: Peter Brueggeman, Scripps Institution of Oceanography Library, UCSD 0175C, 9500 Gilman Dr, La Jolla CA 92093-0175, USA. Omnet: SCRIPPS.LIBRARY. Fax (619)534-5269. Internet e-mail: pbrueggeman@ucsd.edu. Bitnet email: pbrueggeman@ucsd.bitnet.

ROV '90. Intervention '90 conference and exposition / Sponsored by the Marine Technology Society, June 25-27, 1990, Vancouver, British Columbia. San Diego, Calif: Marine Technology Society, 1990.

ROV '89. Intervention '89 conference and exposition / Sponsored by the Marine Technology Society, March 14-16, 1989, San Diego, California. San Diego, Calif: Marine Technology Society, 1989.

ROV '87. Intervention '87 conference and exposition / sponsored by the Marine Technology Society, March 10-12 1987, San Diego, California. San Diego, Calif: Marine Technology Society, 1987.

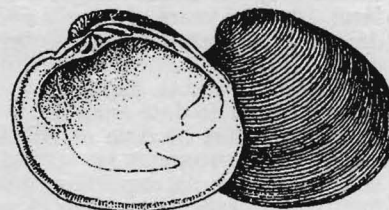
STD '84. Conference and Workshop / sponsored by Marine Technology Society, San Diego Section & Oceanic Instrumentation Committee, 27-29 February 1984, La Jolla, California. San Diego, Calif: San Diego Section, Marine Technology Society, 1984.

STD '82. International STD Conference and Workshop / sponsored by Marine Technology Society, San Diego Section and Marine Technology Society Oceanic Instrumentation Committee, 8-11 February 1982, San Diego, California. San Diego, Calif: Marine Technology Society San Diego Section, 1982. □

NATIONAL OCEANOGRAPHIC DATA CENTER USERS GUIDE

The second edition of the National Oceanographic Data Center Users Guide has been released. The second edition completely updates the 1984 first edition. The Guide provides detailed information on the data holdings, data record layouts, geographic distribution of data, data products, publications, and services of the NODC. NODC was established in 1961 as the US national repository and dissemination facility for global ocean data and is one of the national data centers within NOAA. Available for free from:

National Oceanographic
Data Center
User Services Branch
NOAA/NESDIS E/OC21
Universal South Building, Room 406
1825 Connecticut Avenue NW
Washington DC 20235 □



PROCEEDINGS OF THE FIRST AUSTRALIAN AQUACULTURE CONFERENCE. 1988.

Available from:
Dr. Louis H. Evans
School of Biomedical Sciences
Curtin University of Technology
GPO Box U 1987
Perth Western Australia 6001
09-351-7374
Fax - 09-351-2342

price - \$105 (Aus.)
Will ship on receipt of payment. □

MORE WEATHER INFORMATION ON DISC

INTERNATIONAL STATION METEOROLOGICAL CLIMATE SUMMARY

The International Station Meteorological Climate Summary, Version 1.0, reports on detailed climate summaries for 640 worldwide weather observation stations and less detailed airfield summaries for 5434 secondary sites. Based on a color map of the world, the CD-ROM is designed for easy use with everything the reader needs to know onscreen. Using the map and the World Meteorological Organization (WMO) number for each site, the user can zoom in on any part of the world in the WMO grid via menu driven graphic selection procedures. Ways of access include geographic area, country, elevation, latitude/longitude, and call site. The data includes surface air temperature, humidity, winds and precipitation and comes from the US Navy (Summary of Meteorological Observations Surface & World Wide Airfield Summaries) and Air Force (Surface Observation Climatic Summary), and from NOAA (Summary of Meteorological Observations Surface). 10 to 80 years of hourly and daily data are summarized on this disc. Help and documentation screens are available. Although this disc provides no data analysis, the user can export its data as ASCII files to other programs i.e. spreadsheets. The minimal required equipment configuration is an IBM/PC or compatible microcomputer, a CD-ROM drive with MS/DOS extensions, a hard and floppy drive, EGA or better graphics card, 400K of available RAM, and MS-DOS 3.0 or higher. Update plans are annually for two years. The 1991 fall update will add 240 Navy and Air Force sites, more comprehensive NOAA data, and daily precipitation data. Order for US \$50 plus handling from:

National Climatic Data Center
Customer Services
Federal Building
Asheville, North Carolina 28801-
2696 USA
Phone (704) 259-0682 ☐

The Department of Atmospheric Sciences at the University of Washington has released the following weather CD-ROM titles. Each are mastered to ISO 9660 standards and have been used on SUN and VAX workstations as well as IBM PC and Macintosh microcomputers. They are available for US \$150 each from:

Department of Atmospheric Sciences, AK-40
University of Washington
Seattle, WA 98185 USA
FAX:(206)543-0308.

Prepayment required or purchase orders accepted from large institutions. Send checks or purchase orders to attention of C.E. Rice. For further information, contact Clifford Mass (206) 685-0910.

1: The National Meteorological Center (NMC) Grid Point Data Set: Version II.

Contains gridded (approximately 380 km horizontal resolution) atmospheric data (eg height, pressure, temperature and wind) at six tropospheric levels for nearly the entire Northern Hemisphere. These data are generally available twice daily and cover the years 1946-1989 at some levels and 1963-1989 for most of the remainder. Access and compositing software for DOS and UNIX (SUN) computer systems are provided.

2: The GALE Experiment.

Contains the non-imagery data (e.g. surface and upper air reports) collected during Genesis of Atlantic Lows Experiment (GALE) for January-March 1986. GALE was centered over the coast of the southeast US and attempted to better understand the cyclones developing in that region. DOS access software is provided.

3: North American Observational Data for July-December 1987.

Contains aviation hourly, synoptic reports, upper air observations, and marine reports for July-December 1987. Also contains time series of hourly observations (generally 1948-1982) for Los Angeles, North Bend (Oregon), and Seattle-Tacoma Airport. This is a prototype disc for a series that will be produced and distributed every six months. DOS and UNIDATA Local Data Manager access software is provided. ☐

COVERAGE OF ARCTIC & ANTARCTIC REGIONS CD-ROM EXPANDED

Arctic & Antarctic Regions CD-ROM (AAR) has been expanded to include more component databases. AAR CD-ROM is the foremost resource for polar information; there is no online or print equivalent encompassing the component databases. Currently over 615,000 references (most with abstracts) are provided through a merger of six databases into the AAR CD-ROM database: SPRI (Scott Polar Research Institute), ASTIS (Arctic Institute of North America), Cold Regions Bibliography/Antarctic Bibliography (US Army Corps of Engineers Cold Regions Research and Engineering Laboratory), Citation (University of Colorado World Data Center A for Glaciology [Snow & Ice]), C-CORE (Memorial University of Newfoundland Centre for Cold Ocean Resources Engineering), and Antarctic Place Names (US Geological Survey). Also available on the same CD-ROM disc is AORIS, the Arctic and Offshore Research Information System, produced by the US Department of Energy. Two additional databases will be added in an upcoming AAR release: BOREAL and BOREAL NORTHERN TITLES (University of Alberta Canadian Circumpolar Library). AAR was reviewed in CD-ROM LIBRARIAN 5(11):39-43. Due to the modest market for polar information, AAR has a small subscriber base; those needing polar information are invited to subscribe to assure continued production of this important polar information resource. AAR costs US \$795/year and is available from:

NISC
Wyman Towers Suite 6
3100 St Paul St
Baltimore MD 21218 USA
(301)243-0797 ☐

GEOSAT GDRs ON CD-ROM

An improved version of the GEOSAT altimeter geophysical data records (GDR) has been prepared by NOAA's National Ocean Service and will be redistributed on seven CD-ROMs. GDRs for the first year of the exact repeat mission will be available in October 1991 followed shortly by the remaining two years of data. The original NOAA GDRs, covering the period November 1986 to October 1989, were based on operational satellite orbits computed by the Naval Astronautics Group (NAG), and referred to as the "NAGGDRs." A new satellite ephemeris, more precise by an order of magnitude, has since been computed by NASA's Goddard Space Flight Center. These orbits are incorporated in the new "T2 GDRs" (the orbits are based on the GEM-T2 gravity model). The T2 GDRs contain other new fields which significantly increase the overall accuracy of the GEOSAT data.

The CD-ROMs will be accompanied by a new user handbook which documents all of the various GEOSAT GDRs: T2 GDRs, NAG GDRs (both ocean and ice/land versions), and the recently declassified Southern Ocean GDRs extracted from the Geosat geodetic mission (April 1985 to September 1986). The Geosat CD-ROMS will be distributed both by the US National Ocean Service Satellite and Ocean Dynamics branch (Omnet: NOAA.GEOSAT) and the US National Oceanographic Data Center, User Services Branch, NOAA/NES-DIS E/OC21, Universal South Building, Room 406, 1825 Connecticut Avenue NW, Washington, DC 20235 USA. (Omnet: NODC.WDCA). □



GEOREF CD-ROM REVIEWED

Barbara Defelice reviewed the GeoRef CD-ROM in "CD-ROM revolutionizes GeoRef" [GEOTIMES 36(7):22-24, July 1991]. □

CD-ROM MASTERING AND REPLICATION FACILITIES

A detailed directory to eight CD-ROM mastering and replication facilities appeared on pages 20-21 in the midst of an article by Christopher Andrews entitled "Mastering the CD-ROM Mastering and Replication Process" in CD-ROM PROFESSIONAL 4(4):17-22. The directory detailed costs for turnaround, replication per disc, packaging, and other items. Ten other CD-ROM mastering and replication companies that did not respond to the author's inquiry are listed on page 22. □

DIGITAL LINE GRAPH DATA

In June 1990, the U.S. Geological Survey (USGS) began distributing the 1:2,000,000-scale Digital Line Graph (DLG) data on CD-ROM. The CD-ROM contains data for all 50 states, organized into 21 geographical regions. It also contains software to assist the user in selecting data of interest and in displaying the data. The data was collected from the 1:2,000,000 scale sectional maps of The National Atlas of the United States of America, updated to late 1979. Up to eight categories of data available for each geographic region are listed along with examples in the chart below. The CD-ROM contains data in all three formats distributed at this scale: the DLG-Standard format, the DLG-Optional format, and the Graphic Data format.

The software provides a menu-driven system to assist the user in transferring data from the CD-ROM to a hard disk. The user may select data by geographic region, data category, and data format. The software is designed to run on any class of DOS-based (version 3.1 or later) microcomputer (8088/8086, 80286, or 80386) with 512K of free memory and a hard disk. At the minimum, an EGA monitor and display card are required to select the data. The user must have a CD-ROM reader using Microsoft Extensions version 2.0 or later. The CD-ROM also includes software to display the data. The software displays a preprocessed version of the DLG data. A user may display one of the preselected combinations of data or may customize the display. The software allows the user to display these data using up to 16 different colors. It is recommended that this software be run on a system with a VGA monitor. The software may also be used to process the DLG data on the CD-ROM to produce customized maps. The software allows the users to display the selected data using different colors and line thicknesses in five common map projections.

The CD-ROM is sold at an interim price of US \$28. The Government Printing Office is placing the CD-ROM in 800 Federal Depository Map Libraries throughout the U.S. for review by the public. The data will continue to be available on nine-track computer-compatible magnetic tape. For distribution on magnetic tape, different combinations of data may be ordered by region, category, and data format. To obtain additional information or to order the CD-ROM, contact Earth Science Information Center, U.S. Geological Survey, 507 National Center, Reston VA 22092, 703-648-6045 or 1-800-USA-MAPS.

Category	Geographic Region
Political Boundaries	States and Counties
Administrative Boundaries	Federally administered forests, parks and wildlife refuges
Streams	Perennial and intermittent streams and canals
Water bodies	Perennial, intermittent and dry lakes; swamps; glaciers
Hypsography	Continental divide
Roads and trails	Interstate, U.S. and primary state highways
Railroads	Mainline and branchline railroads
Cultural features	Airports and the Alaska pipeline □

NEW TEMPERATURE/SALINITY DATA ON CD-ROM

The National Oceanographic Data Center (NODC) released a set of two CD-ROMs containing global temperature and salinity profiles taken between 1900 and 1990. Volume 1 (designated as CD-ROM NODC-02) contains 1.62 million profiles from the Atlantic, Indian, and Polar Oceans totaling 451 MB of data. Volume 2 (CD-ROM NODC-03) contains 1.57 million profiles from the Pacific Ocean totaling 474 MB of data. These two CD-ROMs contain temperature and salinity profile data (as of January 1991) from six NODC archive data files: (1) Oceanographic Station Data, (2) CTD/STD Data, (3) Expendable Bathythermograph Data, (4) Mechanical Bathythermograph Data, (5) Radio Message Bathythermograph Data, and (6) Selected Level Bathythermograph Data. The data are stored in ASCII character format.

NODC-02 and NODC-03 are accompanied by data access and display software provided on a 5.25-inch or 3.5-inch MS-DOS compatible, high density floppy disk. The software enables users to selectively retrieve data and to plot and compare temperature-depth, salinity-depth, and

temperature-salinity profiles. Among other options users may specify the speed with which profiles are plotted and whether or not to overplot profiles. Additional modules allow users to run simple data inventories (counts of observations by one-degree squares) and to determine names of ships and institutions from which data were submitted. These two CD-ROMs are an enhancement and extension of NODC-01, a prototype CD-ROM released in 1989 and covering Pacific Ocean temperature-depth and salinity-depth profiles from 1900 to 1988 (see IAMSLIC Newsletter 35:4). These CD-ROMs are priced at US \$80 each or US \$124 for the two CD-ROM set. To receive an order form, contact:

National Oceanographic Data Center
 NOAA/NESDIS E/OC21
 1825 Connecticut Avenue NW
 Washington DC 20235 USA
 (202) 606-4549
 Omnet: NODC.WDCA □

DISABLE "ERASE" AND "DEL" ON YOUR CD-ROM WORKSTATION

CD-ROM workstations may allow access to the DOS prompt and ASFA CD-ROM may allow it if so configured. Allowing access to the DOS prompt assists users in copying CD-ROM references to their own floppy disk but opens the door to accidental or deliberate sabotage of the hard disk. One safety tip is to delete DOS' FORMAT program or rename it in order to avoid an accidental reformat of the hard disk. Another tip is outlined in "Changing Commands" in the User-to-User column of PC MAGAZINE [10(8):409-411, April 30, 1991]. Dangerous DOS commands can be disabled by renaming them. DOS' COMMAND.COM program can be edited to rename any of the DOS commands like ERASE, DELete, and MD (make directory). Rename them to something cryptic that no one else can guess. □

ASFA CD-ROM & REFERENCE MANAGER BIBLIOGRAPHIC DATABASE SOFTWARE

In order to recognize the new format of ASFA CD-ROM's references, Research Information Systems has released an updated Capture module for its Reference Manager bibliographic database software. The Capture module processes references from ASFA CD-ROM and many other online and CD-ROM databases so that they can be imported into a Reference Manager bibliographic database. The new Capture module is available for US \$20 from:

Research Information Systems
 2355 Camino Vida Roble
 Carlsbad CA 92009 USA
 (619)438-5526
 Fax: (619)438-5573 □

ACCESS THE UNITED KINGDOM'S 'JANET' AND LIBRARY CATALOGS THROUGH THE INTERNET

JANET is similar to the US Internet in offering network connection among United Kingdom university, government, and corporate computing systems. The NSFNET-Relay at London University supports access to the United Kingdom's JANET for a person coming from an Internet location. Through this linkage, US libraries can access many UK library catalogs. Guides to network-accessible library catalogs are available (see IAMSLIC Newsletter #39:10) with logon details.

For example, the Oxford University Libraries catalog can be accessed from Internet sites in the US. Telnet to the NSFNET-Relay at its computer address "sun.nsf.ac.uk" or "128.86.8.7"; for example, type "telnet sun.nsf.ac.uk". Login with the word "janet" in lower-case. When prompted, enter the NRS name of the desired UK library catalog computer. NRS names are noted in guides to network-accessible library catalogs; the prefix "uk.ac" may be needed. The NRS name of Oxford's library catalog is "uk.ac.oxford.gandalf-pacx". When connected, press the enter/return key and type "LIBRARY" when prompted for "service". Select terminal type (usually VT100), press the the enter/return key, and you are in! When finished, type "//stop" to logoff.

In addition to library catalog access, the JANET and Internet linkage can be used for electronic mail between JANET, Internet, and Bitnet addresses. A guide to JANET produced by NSFNET-Relay is available by mailing "info-server@nsfnet-relay.ac.uk" with the following text in the message:

Request:janetpad
 Topic:userguide

Telnetting over the Internet can usually be executed from institutional computer accounts and also directly from microcomputers with capable network connections. Check with your computing center personnel if you are uncertain of your situation. □

DOCUMENT TRANSMISSION OVER THE INTERNET

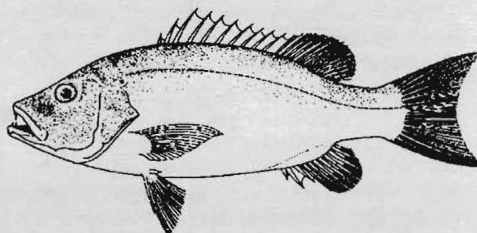
Academic Computing Services of Ohio State University is researching and developing the capability to transmit fax images over the Internet. The initiative is developing an Internet/fax gateway for use as a library document delivery mechanism. Cost advantage would be considerable since telephone charges are avoided. Goals include the usage of low cost equipment operable by non-technical personnel and the development of support software for control and the user interface. The implications of this project for speedy document delivery among IAMSLIC libraries or from a central library to a remote library are obvious. Telephone costs are avoided and the Internet reaches out beyond North America and those not on the Internet could have delivery mediated by someone on the Internet.

Images are scanned with a fax machine and transmitted to a microcomputer equipped with fax and ethernet interface cards (the ethernet card is the link to the campus network and thus to the Internet). The fax images are stored as files on the microcomputer's hard disk. FTP (file transfer protocol) software then transmits the fax image files from the microcomputer through Internet linkage to a distant microcomputer where the fax image files are stored on hard disk. The received fax image files are then transmitted from the fax interface card of the second microcomputer to a nearby fax machine. The fax machines on both ends are connected to each microcomputer's fax interface card through a null telephone adapter.

The control and interface software developed will be placed in the public domain and distributed via anonymous FTP, in other words, freely accessible to all over the Internet. Further information is available from Academic Computing Services, The Ohio State University, 1971 Neil Ave, Columbus, Ohio 43210, USA. Phone (614)292-4843. Fax (614)292-7081. Internet electronic mail contacts are Bob

Dixon (bob_dixon@osu.edu), Bob DeBula (bobd@osu.edu), Doug Karl (dkarl+@osu.edu), Mike Fidler (mlf+@osu.edu), and Bob Kalal (bob_kalal@osu.edu).

The Research Libraries Group (RLG) is also developing document transmission over the Internet. RLG's system is entitled ARIEL and, in its inception, differs from the Ohio State University project. ARIEL uses a scanner and laser printer attached to a microcomputer with an ethernet card; a fax card is not used. For scanning in documents, the Ohio State University project uses a fax machine linked to a microcomputer while ARIEL uses a scanner linked to a microcomputer. Similarly, for printing documents, the Ohio State University project uses a fax machine and ARIEL uses a laser printer. Scanners and laserprinting offer higher resolution in scanning and printing than many fax machines currently in use. Laserprinters print on plain paper while some fax machines may use the less-desirable thermal paper. Scanners can also scan from the original item; fax transmission requires producing a photocopy first. Using ARIEL's configuration of scanner and laserprinter will involve higher equipment cost. However equipment cost can be reduced by setting up workstations for specific needs; workstations can scan/transmit only or can receive/print only by deleting a laserprinter or scanner respectively. Scanners may require more skilled interaction to scan images properly. ARIEL uses proprietary interface software whereas the Ohio State University project will be sharing its software in the public domain. Interestingly, the Ohio State University project is expanding to encompass scanners and laserprinters. For further information about ARIEL, contact Marilyn Roche, Research Libraries Group, 1200 Villa St, Mountain View, California 94041-1100 USA. Phone (415)691-2284. Bitnet electronic mail address: bl.mxr@RLG.bitnet. □



MARINE STUDIES/SHIPBOARD EDUCATION BITNET CONFERENCE

MARINE-L is an ambitious electronic discussion group for marine studies and shipboard education getting underway via Bitnet and Internet networking. MARINE-L is an open forum for the discussion and development of marine-related studies, and semester-at-sea/education-at-sea programs. Conference interests encompass a wide spectrum including coastal and marine databases; marine parks; coastal and marine ecosystems; aquaculture; marine sciences research stations and marine museums; maritime academies and sail-training; navigation; marine publishing and publications; funding, grants and awards; international shipboard/port relations; weather information transmission. Within this broadbased marine studies format, it is the direction of the MARINE-L forum to co-develop a multi-campus international program and to charter/purchase a large oceangoing vessel (tall-ship) to sail the Oceans, offering academics, researchers and students a diverse program of ongoing Marine Studies, together with the opportunity to visit international ports, attend foreign campus programs, both in conjunction with brief visits to ports, and full-credit courses during prolonged visits/full semester programs. The MARINE-L conference will discuss the needs for shipboard LAN communications, plus ship-to-MARINE-L e-mail connectivity, general ship-to-mainland and international communications services, and the development of video telecourses for presentation via satellite, around the planet. It is hoped that broad cooperation will enable this program to be able to offer a truly international selection of credit courses for a wide group of campuses, academics, researchers and students.

To subscribe to MARINE-L, send a message to LISTSERV@UOGUELPH.BITNET or LISTSERV@VM.UOGUELPH.CA. As the body of the message, type:

Sub MARINE-L your name/interests. □

REMOTE SENSING DATABASE AVAILABLE

Maxwell Online's Orbit Search Service has made the RESORS database available for online searching. RESORS covers the remote sensing literature and is produced by the Canada Centre for Remote Sensing. RESORS contains almost 80,000 references with 5,000 new references added each year. Another excellent database for coverage of the remote sensing literature is the Aerospace Database (produced by AIAA and NASA) available on Dialog and on compact disc. Those with a long memory may recall that RESORS was available on compact disc several years ago and ceased production. For further information on RESORS, contact:

Orbit Search Service
8000 Westpark Dr. Suite 400
McLean VA 22102 USA
(800)456-7248
Fax: (703)893-4632 □

TELECOMMUNICATIONS SOFTWARE REVIEWED, PART TWO

PC MAGAZINE [10(8):101-198] weighed in with its review of telecommunications software. PC WORLD's review was abstracted in IAMS LIC Newsletter 39:11; these two magazines are considered the most authoritative for IBM compatibles. Entitled "Improving Information Access", PC MAGAZINE reviewed seventeen software and focused on each software's ability to transfer files with a range of protocols like Zmodem. This focus is less applicable to library environments and more applicable to those downloading and uploading files onto bulletin board systems. Crosstalk Mark4, Smartcom Exec, and DynaComm Asynchronous Edition were selected as editors' choice. Crosstalk Mark4 was selected for its wide range of features and capabilities. For those needing less power or lower cost, Smartcom Exec was selected. Crosstalk Communicator received special notice as being a fast and flexible alternative for the budget conscious. Windows users were advised to consider DynaComm. PC World's review recommended Crosstalk Mark4, Crosstalk Communicator, Procomm Plus, and HyperAccess/5. □

CONTROVERSY OVER CITATION CHARGES FOR BIOSIS TITLES

An editorial by Nancy Garman in ONLINE ["Free and not-so-free title formats", ONLINE 15(5):6-9, September 1991] outlines the issues and controversy over BIOSIS' title-only pricing policy for the online BIOSIS/Biological Abstracts database. Biological Abstracts is the premier database for information in the biological sciences with strong coverage of marine biology, marine microbiology, and biological oceanography. BIOSIS' policy charges the online searcher for titles viewed even if no other bibliographic information is displayed. Garman notes that the pricing policy contradicts the interactive benefit of on-

line searching by penalizing the online searcher trying to narrow down a search by reviewing titles for relevance. For those with access to the printed Biological Abstracts, the editorial notes that title-only pricing limits the usefulness of the online database as an index to the printed version. Databanks differ in their implementation of BIOSIS' pricing policy; only Dialog and Data-Star do not pass along the title-only charge by making up the difference from overall revenue for the BIOSIS database. Garman's editorial is a "must read" for BIOSIS/Biological Abstracts database searchers. □

GLOBAL SEA LEVEL OBSERVING SYSTEM HANDBOOK ON DISKETTE

The Global Sea Level Observing System (GLOSS) is based on an international network of sea level measuring stations, coordinated by the Intergovernmental Oceanographic Commission. GLOSS provides high quality standardized data from which sea level data products can be produced. The GLOSS Handbook compiles detailed information about the approximately 300 sea level gauges in the GLOSS network. A full description of each gauge in the network is provided including tide gauge details, benchmark information, data delivery systems and the GLOSS national contact point. The GLOSS Handbook is available on any size or density of IBM floppy disk and runs on IBM PC or compatible with DOS version 3.0 or later, minimum 512K RAM, and any display. To obtain a copy of the Handbook, contact GLOSS Handbook Coordinator, Permanent Service for Mean Sea Level, Proudman Oceanographic Laboratory, Bidston Observatory, Birkenhead, Merseyside. L43 7RA, United Kingdom. Fax: +44 (51)653-6269. Telemail: PMSML.POL (Omnet). State your floppy disk preference (5.25 inch or 3.5 inch, high or low density). □

GIS SOFTWARE REVIEW

Three relatively low-cost Geographic Information Systems (GIS) computer mapping software were reviewed by Robert Kendall in "Mapping software, analyzing a world of data" [PC MAGAZINE 10(13):249-299, July 1991]. The 3 mapping programs reviewed cost under \$3000 and produced maps from database information and executed address-matching and spatial-analysis functions common to a GIS. The programs reviewed were Atlas*GIS, GisPlus, and MapInfo for Windows; all used true latitude and longitude coordinates for mapping. The article functions as a primer to GIS features. More expensive PC-based programs like PC ARC/INFO, SPANS, and MGE PC-1 were not reviewed. None of the three reviewed programs received a clear recommendation; strengths and weaknesses were detailed. □

MICROCOMPUTING NEWSWATCH

Susan Jurist, the Technical Services Librarian at Scripps Institution of Oceanography Library, compiles and distributes an electronic newswatch on microcomputing technology for the UC San Diego library staff. Called HOTT, this newswatch is now available for distribution over the Internet and Bitnet. To subscribe to HOTT, send an e-mail message to listserv@ucsd.edu with the message:

subscribe email address HOTT-LIST .

For example: subscribe pbrueggeman@ucsd.edu HOTT-LIST. Be sure to include your full e-mail address including the .bitnet or .edu or .gov or whatever ending is appropriate for your address. □