



NEWS & ANNOUNCEMENTS

AFS REPORT DOCUMENTS DECLINE OF FISH FAUNA

The American Fisheries Society (AFS) recently released a report on the status of the North American fish fauna. The report details the continuing decline of the health of our continent's lakes, rivers, and spring systems.

In the United States alone, the study documents 62 fishes that qualify for endangered status and another 84 that are threatened. In the U.S., Canada, and Mexico the number of fishes warranting special protection because of their rarity rose from 251 in 1979 to 364 in 1989. This represents an increase of 45% in the number of rare fishes during the past decade.

The increasing threat to our fishes and aquatic habitats is most notable in the west and Southwest, where competition for water often is fierce. California and Nevada have the worst record, with more than 40 rare fishes documented from each state.

Even more seriously, 40 fishes from North America have become extinct as a result of expanding human pressures on our aquatic resources. Extinct fishes include the blue pike from the Great Lakes (killed off by pollution and overfishing), the Raycraft Ranch poolfish from Nevada (extirpated when its only remaining habitat was bulldozed and covered over for agricultural expansion), the Avord cutthroat trout from streams of Oregon and Nevada (lost because of hybridization with stocked trout from hatcheries), the Snake River sucker from Wyoming (lost because of dams and water diversions on the Snake River), and the Monkey Spring pupfish from Arizona (lost from a combination of wetland draining and the introduction of non-native predators into its remaining habitat).

Despite a strong Endangered Species Act, agencies were not able to keep pace with the growing list of endangered and threatened

fishes. The report found that during the past decade, for every fish whose status improved, 25 fishes declined significantly in range and number. "The extent of the problem and our lack of success during the past 10 years in dealing with the growing list of threatened and endangered fishes clearly indicates that our present conservation efforts are not getting the job done," said Jack Williams, chairman of the Society's Endangered Species Committee and chief author of the report.

Carl Sullivan, executive director of AFS, stated that "we need an increased commitment from the political leaders of our country, more funding for recovery and habitat protection programs, and a new strategy for protection of overall biodiversity, including protection of communities and ecosystems before their species reach the critical endangered stage."

The report concludes with the recommendation that government agencies manage for conservation of entire ecosystems rather than the recovery of individual species. "If we keep waiting until species become endangered before trying to protect their habitat, we will see more and more species lost forever," Sullivan remarked.

The American Fisheries Society, founded in 1870, is the world's oldest and largest organization of fisheries science professionals. The Society's 8,700 members represent the private sector, academia, and all levels of government throughout the U.S., Canada, and 70 other countries.

American Fisheries Society
5410 Grosvenor Lane, Suite 110
Bethesda, MD 20814

LUMCON 1990 SUMMER SCHOOL PROGRAM

Summer courses available for credit through Louisiana's state universities are offered at the

LUMCOM Student Grants	Application Due Date	Announcement of Award	Commencement of Award
Bill Burke Memorial Research Grant	October 15	November 15	December 15
LUMCON Foundation Research Grant	January 15	February 15	March 15
LUMCON Foundation Research Grant	May 15	June 15	July 15

Louisiana Universities Marine Consortium. The LUMCON Marine Center in Cocodrie is the center for summer program courses, with additional use made of the Port Fourchon Field Laboratory near Grand Isle. Excellent opportunities exist for field work, oceanographic research training cruises, and laboratory experiments in LUMCON's new facility which features a large seawater system. Five-week courses to be taught in the summer of 1990 are Introduction to Marine Science, Marine Ecology, Marine Invertebrate Zoology, and Marine Science for Teachers. In addition, shorter, one or two-week courses will be carried under Topics in Marine Science, specifically in Wetland Vegetation, Wetland Loss, Mariculture, Sediment Geochemistry, and Louisiana Coastal Field Geology. Directed undergraduate or graduate research and study are available by arrangement with a member of the senior scientific staff. For further information call 504/851-2800, or write to Summer Program, LUMCON, Chauvin, LA 70344.

LUMCON STUDENT GRANTS

The Louisiana Universities Marine Consortium (LUMCON) Foundation, Inc. has available several graduate student research grants. One of the awards is offered in memory of Bill Burke, a Foundation member and state employee dedicated to the preservation of a quality environment for the State of Louisiana. The awards consist of up to \$2,000 in research funds to defray expenses of a research program in the Marine Sciences. The proposed research may be part of a M.S. or Ph.D. program.

Application is open to outstanding graduate students enrolled in any university. The award is to be used for research in the marine sciences

and be interactive with a research program or in some way make significant use of the LUMCON facilities. The research grant may be used to defray room and board expenses, supplies, vessel rental, travel or other approved expenses.

Dates of application submission, announcement, and commencement of awards are given below. Grants are for one (1) year.

For further information, write Louisiana Universities Marine Consortium, Chauvin, Louisiana 70344, or call 504/851-2800.

UNITED STATES TSUNAMIS 1690-1988

Tsunamis, commonly called seismic sea waves, have been responsible for at least 470 fatalities and several hundred million dollars in property damage in the United States and its territories. *United States Tsunamis 1690-1988*, a publication compiled by James F. Lander and Patricia A. Lockridge, brings together in one volume the historical records of tsunamis that have been observed or recorded in United States coastal waters and possessions in the Pacific; Puerto Rico; and the Virgin Islands. It contains descriptive data about each reported tsunami event and details the effects of the waves. Tables summarizing events and effects are included for each area.

United States Tsunamis 1690-1988 may be ordered from NOAA/National Geophysical Data Center in either hard or soft cover. The cost is \$15.00 for soft cover, \$30.00 for hardcover; plus a \$10.00 handling fee. Orders should be prepaid and may be made by check, money order Visa, MasterCard, or American Express.

National Geophysical Data Center
NOAA/NESDIS E/GC4

325 Broadway, Department 826
Boulder, CO 80303
or call (303) 497-6958

**RESEARCH FELLOWSHIPS IN MARINE
POLICY AND OCEAN MANAGEMENT
WOODS HOLE OCEANOGRAPHIC
INSTITUTION 1990-91**

Qualified individuals in the social sciences are invited to apply their training and expertise to the economic, legal and political issues that arise from uses of the world's oceans. At the Institution's Marine Policy Center emphasis is placed on the economics of ocean space and on the role of science in governmental and industrial ocean policy. Topics of special current interest include advanced ocean technology, policy affecting undersea uses, marine biological diversity, the quality of marine habitats and marine reserves, and the impacts of sea-level change. Other research interests may also be appropriate.

Applicants must have completed a doctoral level degree or possess equivalent professional qualifications through career experience. The Center also welcomes experienced professionals who can arrange a leave or sabbatical. Recent doctorates will receive a stipend of \$30,500 for a period of one year and are eligible for group health insurance. In addition, modest research and travel funds will be made available.

A complete application to the Marine Policy and Ocean Management Fellowships Program consists of a completed application form, transcripts of college and university records, and at least three personal references. Application should be made to the Dean of Graduate Studies, Woods Hole Oceanographic Institution, no later than January 15, 1990. Applicants will be notified of decisions by March 31. Direct inquiries to: Dean of Graduate Studies, Education Office—Clark Laboratory, Woods Hole Oceanographic Institution, Woods Hole, MA 02543.

**INTERNATIONAL GEOGRAPHICAL
UNION
COMMISSION ON THE COASTAL
ENVIRONMENT**

**IGU-CCE Coastal Field Symposium
August 5-10, 1990, Shanghai, China**

Invitation The Coastal Field Symposium

sponsored by IGU-CCE will be held in the region around Shanghai, China, from 5 to 10 August, 1990. Professor Chen Jiyu from the Institute of Estuarine & Coastal Research, East China Normal University will organize this Symposium. You are cordially invited to participate in it. Please return the provisional reply Form included no later than 31 December, 1989. The Second Circular will be sent to those who have returned the Form.

Programme

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| August 5 | Arrival and registration. |
| August 6 | Opening ceremony, introductions and city tour. |
| August 7 | Field trip, Putuo Island (coastal geomorphology and its dynamical environments). |
| August 8 | Field trip, Putuo Island-Zhenhai-Luchaogang, through Zhoushan Archipelago and Hangzhou Bay (contrasted sedimentary environments, geomorphological zonation of tidal flats, former bankments, coastal harbour). |
| August 9 | Field trip, Luchaogang-Jinhui-gang-Jinshan (tidal flats, chenier, polder dike, coastal projects). |
| August 10 | Field trip, Jinshan-Pushan Bay-Haiyan-Shanghai (sandy beaches, erosion geomorphology). |

Registration Fee for the Coastal Field Symposium

The Coastal Field Symposium registration fee is US\$ 450 for each participant, including travel, lodging and board.

All correspondence and requests for information should be addressed to:

Professor Chen Jiyu (for CFS)
Institute of Estuarine & Coastal Research
East China Normal University
Shanghai 200062
The People's Republic of China

Telex, 33328 ECNU CN Cable, Shanghai 0187

**CALL FOR PAPERS
SEPM—SPECIAL PUBLICATION
QUATERNARY COASTAL SYSTEMS OF
THE UNITED STATES**

The Society For Sedimentary Geology (SEPM) and the International Geological Cor-

relation Program (IGCP) Project #274 (Coastal Evolution in the Quaternary) invite proposals for papers to be included in an SEPM Special Publication volume entitled *Quaternary Coastal Systems of the United States*. Topics include any aspect of U.S. coastal system occurrence during the Pleistocene and/or Holocene epochs, such as: modern sedimentary systems; Holocene stratigraphy; Pleistocene stratigraphy; general geologic frameworks of coastal systems; local relative sea-level history; eustatic, isostatic, and neotectonic studies; Pleistocene and Holocene geomorphology; and other terrestrial and marine records of Quaternary coastal systems.

In an effort to achieve maximum coverage of representative U.S. coastal systems, the editors encourage the submission of synoptic papers which are broad in scope and regional in scale, as well as those which describe specific local instances of U.S. Quaternary coastal systems.

Interested authors should submit the title and abstract of a proposed contribution to the editors before April 1, 1990. Selection of final contributions will be based on geographic and topical coverage. Authors will be notified of selection by May 15, 1990. Please submit proposals to either of the following addresses.

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(302) 451-2926

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