

Angling, Angling Records, and Game Fish Conservation

The 1982 edition of "**World Record Game Fishes**," published by the International Game Fish Association, 3000 East Las Olas Boulevard, Fort Lauderdale, FL 33316, continues to grow as an important reference work for the serious angler-conservationist.

New articles in Section 2 of this edition include an excellent review of the threat to marine fishes from pollution caused by continued coastal development by Jack Pearce, Chief, Division of Environmental Assessment, NMFS Northeast Fisheries Center.

Problems with ciguatoxic fishes are also discussed in detail by Donald P. de Sylva and Mark Poli, of the University of Miami's Rosenstiel School of Marine and Atmospheric Science. They cover the occurrence of ciguatera, its symptoms and causes, affected fishes, which ones might be safe to eat, and how to minimize the chances of getting ciguatera.

And, DeWitt O. and Evelyn Myatt review the effects of midwater fish attractors established in a variety of settings around the world by state agencies, the NMFS, and by private companies. These devices, including midwater fish attractors, and trolling alleys, have had proven success in enhancing both recreational and commercial fisheries.

Advice for anglers on how to "pursue world records" is given by Steve Zuckerman, holder of 11 IGFA records, and Rick Gaffney, associate editor of *Hawaii Fishing News* tells how to rig lures like professional Hawaiian fishing guides. J. Leon Chandler describes the manufacture of braided lines and the reasons for their popularity.

Of course the volume is built around Section 4, the latest world sportfishing

records (as of 1 January 1982) for over 140 species of freshwater, marine, and anadromous fish. This includes 97 pages of records in all-tackle, line class, and tippet class categories. These are accompanied by international angling regulations, world record requirements, and the IGFA's annual fishing contest rules and winners in Section 3.

Anglers will appreciate the inclusion this year of the descriptions and illustrations for more than 70 freshwater species in the "Guide to Fishes," Section 5. Data on saltwater species has also been revised and updated.

Venoms and Venomous Species

"**Venomous Animals and Their Toxins**," by G. G. Habermehl, published by Springer-Verlag, Berlin, West Germany, and based on the translation of the second German edition of "Gift-Tiere und ihre Waffen," is intended to introduce biologists, chemists, physicians, etc., to the animal toxins. It provides a good review of the chemistry, toxic effects, and treatments of them. A significant portion of the handbook deals with toxins of marine species.

The author, president elect of the International Society of Toxinology, has done much chemical research on toxins, especially in elucidating the structure of the venoms. While directed at biologists and chemists, the volume would also be useful to and mostly understood by a more general audience. It provides useful insights into the modes of action and constituents of the different venoms. A short final section reviews the significance of the venoms for humans and therapeutic

uses of several of the venoms. Section 1 provides data on the IGFA itself, its goals, services, etc. The book also includes a glossary of scientific and descriptive words and terms, and a multilingual list of the names of fishes. Specific data on the salmonid family and on the tunas is also included.

The appendices, another section themselves, list game fish records of other nations and continents, a directory of state fisheries agencies, a guide to game fish tag and release programs, and illustrated instructions for fishing knots. Finally, an index to common and scientific names of fishes is provided.

The volume has become the standard reference on gamefish angling records and provides much good, authoritative reading. Amply illustrated with excellent black and white and color photography, the 328-page paperbound book costs \$6.95 postpaid (\$8.75 outside the U.S.) and is available from the publisher.

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A brief introduction reviews historical misconceptions about venomous animals and the generally low chances of being injured by one. Chapters 1 and 2 then review toxins associated with coelenterates (cnidarians and the venomous polyps, jellyfish, sea wasps, sea nettles, sea anemones, and corals) and mollusks (certain mussels, clams, snails, slugs, coneshells, and an Australian octopus).

Chapter 3 reviews toxins in arthropoda (arachnids, centipedes and millipedes, earwigs, beetles, moths, bees, wasps, and ants). Chapter 4 reviews the toxins of the echinodermata (sea cucumbers, sea urchins, starfishes, brittle and serpent stars). Chapter 5 reports data on poisonous fishes, mentioning ciguatera, tetrodotoxin, and fishes whose gonads or blood may be toxic. Numerous actively venomous fishes are also listed, along with the type of poisoning, treatment, and chemistry of the venoms where known. Chapters 6 and 7 are devoted

to the toxins of the amphibia and reptilia.

Each chapter suggests helpful references. The volume is indexed and also provides a list of institutes which provide antivenins. Paperbound, the small format (6×9"), 195-page volume is available from the publisher at DM34 (about \$15.90, subject to change).

Fishing Vessel Stability

Publication of "**Stability and Trim of Fishing Vessels**" by J. Anthony Hind has been announced by Fishing News Books Ltd., 1 Long Garden Walk, Farnham, Surrey, England. The author, a naval architect, has updated his 1967 edition, which was written primarily as a textbook. As such it gives a good basic knowledge of the subjects, through keeping explanations and mathematics relatively simple and clear.

Topics include first principles (i.e., tonnage, displacement, centers of gravity and buoyancy, equilibrium), initial or metacentric stability, inclining experiment, inertia and free surfaces, stability, trim, docking and grounding, dynamic stability and motion in a seaway, stability after damage. Pertinent formulae are given in Appendices. Indexed, the 132-page small format (5½×6¾"), hardbound volume is available from the publisher for £7.50 plus 75 p postage.

Canadian Pacific Herring

The Canadian Department of Fisheries and Oceans has published a 22-page booklet titled "**Herring on Canada's Pacific Coast.**" The publication describes the life history of herring, pointing out that the center of abundance of this species in the eastern Pacific occurs in the waters off British Columbia. A history of the British Columbia herring fishery shows that the catch increased to a peak of 250,000 t in the late 1960's and then collapsed to a point where the fishery had to be closed to preserve the resource. Following the recovery of the stock, a lucrative roe fishery began in 1972, mostly for export to Japan. The pamphlet also describes the four current

Canadian Pacific fisheries: The roe fishery, the spawn on kelp fishery, the herring bait fishery, and finally the fishery for herring used for human consumption. A short paragraph describes the management of the resource and the principles of stock identification, stock assessment, and "in season" management. This booklet is available from: Department of Fisheries and Oceans, Resource Services Branch, Pacific Biological Station, Nanaimo, B.C. V9R 5K6.

The Panamanian Fishing Industry

Panamanian fishermen reported landings of 193,000 t in 1980, a 35 percent increase over 143,000 t landed in 1979. The U.S. Embassy in Panama City has prepared a 24-page report describing the country's 1980 fishing industry. A copy of the report can be purchased for \$5.00 by ordering report number ITA-82-01-012 from: National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

MTN Business Guide

A special Multilateral Trade Negotiation (MTN) business guide published by the International Trade Administration is now available from the Department of Commerce. This guide, on a country basis, reports on the eight MTN codes (Government procurement, product standards, industrial tariffs, customs valuation, import licensing procedures, trade in civil aircraft, subsidies/countervailing measures, and anti-dumping).

Extensive coverage is given to the government procurement code, including details on important government procurement entities, methods of bidding on contracts, and the need for local representation. Copies of "Business Guide to MTN: Results of the Tokyo Round of the Multilateral Trade Negotiations" (OBR 81=32), can be purchased from: U.S. Department of Commerce, Publications Distribution, Room 1617, Washington, DC 20230. The fee is \$2.50, paid to the

order of U.S. Department of Commerce/TOP.

Governing the Resources of the Puget Sound Region

Publication of "**Governing Puget Sound**" by Robert L. Bish, announced by the University of Washington Press, is the second book in a series on the region's marine resources, physical properties, and uses. Supported by NOAA's Office of Marine Pollution Assessment and Washington Sea Grant Program and the Environmental Protection Agency, the series continues to provide well written and authoritative documentation. This volume stands out with its clear, readable treatment of the legal and institutional framework encompassing Puget Sound resource decision-making processes.

The volume begins with a very brief review of the Sound, its resources, and the decision-making processes that impinge upon them, and then details the history of the constitutional web governing these processes and resource management decisions. The author further examines the exercise of Federal authority in commerce, navigation, fisheries, water quality management, etc. Much of this is relevant far beyond the region.

The role and interaction of Washington's State courts, agencies, and local governments are described. Indian reservations and tribal governments, shoreline management, regulatory systems are also reviewed and, finally, the author gives a short evaluation of the governance system. Indexed, the volume provides a bibliography and a list of legal cases cited.

The author, professor of Public Administration at the University of Victoria, British Columbia, and a research associate at the Institute for Public Policy Management at the University of Washington, Seattle, has provided an excellent and lucid account of the region's regulation, from the European historical and constitutional origins to present regulation. The volume, 137 pages, paperbound, small format (6×9"), is available from the University of Washington Press, Seattle, WA 98105 for \$8.95.