

New NMFS Scientific Reports Published

The publications listed below may be obtained from either the Superintendent of Documents (address given at end of title paragraph on affected publications) or from D822, User Services Branch, Environmental Science Information Center, NOAA, Rockville, MD 20852. Writing to the agency prior to ordering is advisable to determine availability and price, where appropriate (prices may change and prepayment is required).

NOAA Technical Report NMFS Circular 435. Russo, Joseph L. "Field guide to fishes commonly taken in longline operations in the western North Atlantic Ocean." January 1981. 51 p.

ABSTRACT

Keys and species accounts are provided for 43 species of fishes commonly or potentially taken during longline operations in the western North Atlantic Ocean, including the Gulf of Mexico and the Caribbean Sea. The groups of fishes discussed are sharks, lancetfishes, the opah, pomfrets, dolphins, the barracuda, jacks, snake mackerels, tuna and mackerel-like fishes, and billfishes.

NOAA Technical Report NMFS Circular 436. Uchida, Richard N. "Synopsis of biological data on frigate tuna, *Auxis thazard*, and bullet tuna, *A. rochei*." January 1981. 63 p.

ABSTRACT

This synopsis of biological and technical data on frigate tuna, *Auxis*

thazard, and bullet tuna, *A. rochei*, includes information on identity, distribution, bionomics, life history, population, and exploitation. Over 200 published and unpublished reports, up to and including those published in 1978, are covered.

NOAA Technical Report NMFS SSRF-744. Sund, Paul N. "Tunas, oceanography and meteorology of the Pacific, an annotated bibliography, 1950-78." March 1981. 123 p.

ABSTRACT

Annotated references are presented on papers published between 1950 and 1978 about Pacific tunas and about environmental subjects pertaining to tuna distributions and/or ecology. Key words are included and cross-referenced for each citation to aid in selecting specific topics of interest.

NOAA Technical Report NMFS SSRF-745. Lange, Anne M. T., and Karen L. Johnson. "Dorsal mantle length-total weight relationships of squids *Loligo pealei* and *Illex illecebrosus* from the Atlantic coast of the United States." March 1981. 17 p.

ABSTRACT

Length-weight data were collected from the Northwest Atlantic, for two commercially important species of squid, *Loligo pealei* and *Illex illecebrosus*, during nine research vessel cruises between 1975 and 1977. These data, in total and by year, sex, season, and area of capture, were fit to length-weight relationships of the form $W = aL^b$. Analyses of covariance indicate that for each species, differences exist

between relationships determined for each area. For *L. pealei*, differences also exist between sex and among years and seasons. However, comparisons of sums of total observed weight versus sums of total weight, predicted by equations obtained for all data within a given set, indicate that the net results of using a single equation for each species is about as precise as using separate equations for each sex, area, season, and year. These equations are: $W = 0.25662L^{2.15182}$ for *L. pealei* and $W = 0.04810L^{1.71990}$ for *I. illecebrosus*.

Marine Recreational Symposia Available

Annual marine recreational fisheries symposia, cosponsored for 6 years by the International Game Fish Association, National Coalition for Marine Conservation, National Marine Fisheries Service, National Oceanic and Atmospheric Administration, and the Sport Fishing Institute, have provided a sound record of progress, problems, research, and management in marine recreational fisheries. The fifth of these, "Marine Recreational Fisheries 5," edited by Henry Clepper, could have been titled "Striped Bass: Biology, Fisheries, and Management."

The program was developed around 2 sessions totalling five panels. Panel I, chaired by J. L. McHugh, reviewed the history of striped bass fisheries and harvests on the west coast, the production and harvest of northeast coastal striped bass produced in the Chesapeake Bay, and South Atlantic and Gulf coast striped bass fisheries and research. Panel II, chaired by Hobson Bryant, examined economic aspects of the commercial striped bass harvests, social and economic perspectives on striper anglers and angling, and "other" losses in striped bass stocks, outside fisheries. Panel III, chaired by Daniel Merriman, focused on the biology of the species. Chapters include "Striped bass spawning and egg and larval stages," "Biology of Hudson River

juvenile striped bass," and "Biology of adult striped bass."

Panel IV, Existing Institutions and Management, presented a review of striped bass management, state by state, as well as a discussion of regional management. Panel V, "Legal Framework, Monitoring, Restoration and Implementation," chaired by Christopher Weld, examined environmental quality for striped bass, striped bass management, and artificial propagation and enhancement of the species. Questions and comments from other participants are presented for each panel.

Well written, the chapters provide a good review of the problems and prospects for an important anadromous species. The book is available from the International Game Fish Association, 3000 E. Las Olas Blvd., Ft. Lauderdale, FL 33316 for \$15.00.

The previous volume in the series, "**Marine Recreational Fisheries 4**," also edited by Henry Clepper, provides a wide-ranging examination of the management of marine recreational fisheries and specifically deals with proposed saltwater recreational fishing licenses, a proposal of considerable controversy, in panel presentation and discussions.

Panel I, chaired by John Negro-ponte, contains three chapters addressing the legal right of anglers to fish and access to fishing waters, a state-federal overview of marine recreational fisheries management, and a discussion of international fisheries management.

Panel II, deals with special problems, including the marine recreational fishing license issue in Florida, coastwide management of marine fisheries, and the conservation and management of highly migratory fishes. Panel III presented discussions of the promise and performance of the Fishery Conservation and Management Act, recreational responsibilities and commercial concerns under the FCMA, and concepts and ecological relationships of underutilized

species. Finally, Panel IV explored the controversial marine recreational angling license. Views of anglers, governmental units, and fishery managers were presented as were types of licensing systems and financial issues related to the license. The volume is also available from the IGFA for \$15.00.

Colombian Fishery Opportunities Noted

The National Marine Fisheries Service (NMFS) has sponsored a survey of opportunities in Colombia for U.S. fishermen and seafood exporters. A copy of a report on the NMFS mission has been prepared by the U.S. Regional Fisheries Attache for Latin America, Charles Finan. A copy of his 5-page report can be obtained by requesting IFR-80/189, "Colombian Fishery Opportunities, 1980" from your local NMFS Statistics and Market News Office, enclosing a self-addressed and stamped envelope.

In addition, the NMFS Southeastern Regional Office has also prepared a report on the Colombian seafood market. The report contains price information and additional local contacts. A copy can be obtained by requesting "Colombian Market Assessment" from: William Antozzi, Fishery Market Specialist, NMFS, NOAA, Duval Bldg., 9450 Koger Blvd., St. Petersburg, FL 33702. Please enclose a self-addressed mailing label and \$0.36 in postage to facilitate handling your request.

Panamanian, Mexican, and Argentinian Fish Reports

The U.S. Embassy in Panama City, Panama, has prepared a 27-page report on the Panamanian fishing industry. The report describes the shrimp fishery, the fish

meal industry, artisanal fishing, aquaculture, and the Vacamonte fishing port. It also contains detailed statistical tables and a list of Panamanian Government fisheries agencies, international organizations, fishing industry associations, fishery companies, shipyards, and marine equipment suppliers. A copy of the report can be purchased for \$6.50 by ordering report number DIB-81-01-008 from NTIS, Springfield, VA 22161.

Mexican fishermen landed a record 1 million metric tons (t) in 1979. Government officials are still projecting a 2.4 million t catch by 1982. An ambitious fisheries development program is creating trade opportunities for U.S. exporters of vessels, electronic instruments, refrigeration equipment, processing machinery, etc.

The U.S. Regional Fisheries Attache for Latin American, Charles Finan, stationed at the U.S. Embassy in Mexico City, has prepared a 6-page report on the Mexican fishing industry. The report contains information on catch, new vessels, tuna, fish meal, abalone, shrimp, squid, the new National Ports and Fisheries Bank, and Mexico's new nutrition program. A copy of the report can be purchased for \$5.00 by ordering report number DIB-80-10-009 from NTIS, Springfield, VA 22161.

Argentina's rapidly growing fishing industry has reportedly experienced a severe financial crisis. The most serious problem is the unfavorable exchange rate maintained by the Government. Argentine companies export 80 to 90 percent of their production and have thus been particularly affected. Company profits began to decline in late 1978 and several companies faced bankruptcy in 1980.

The U.S. Embassy in Buenos Aires has prepared a 7-page report on Argentine fishery developments. A copy can be purchased for \$5.00 by ordering report number DIB-80-11-002 from NTIS, Springfield, VA 22161.