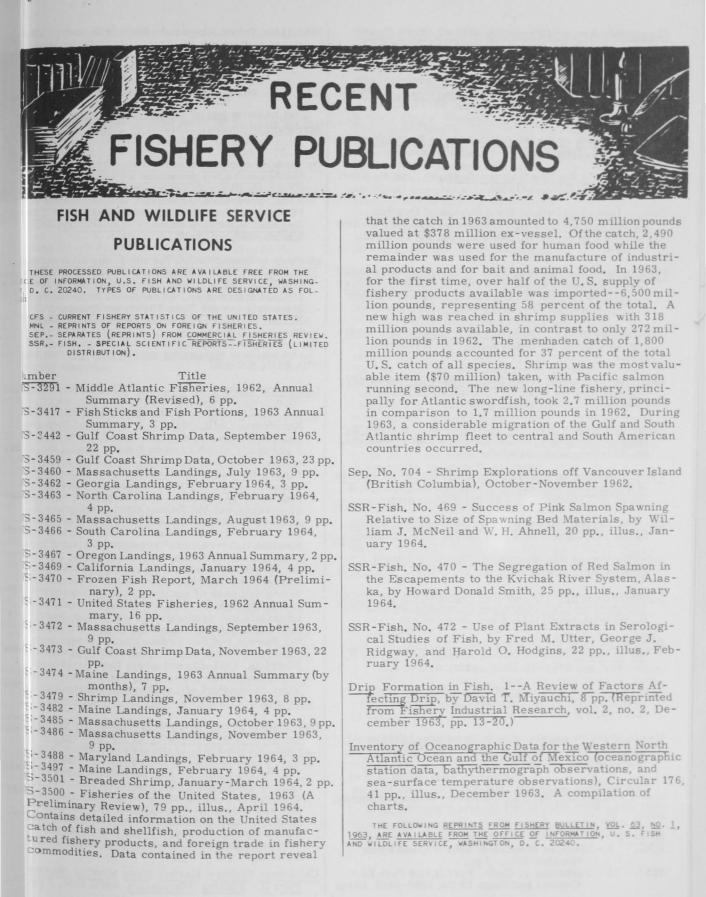
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- Abundance, Age, and Fecundity of Shad, York River, Va., 1953-59, by Paul R. Nichols and William H. Massmann, pp. 179-187, illus., printed.
- Age, Growth, and Maturity of Round Whitefish of the Apostle Islands and Isle Royale Regions, Lake Superior, by Merryll M. Bailey, pp. 63-75, illus., printed.
- Age and Growth of the Whitefish in Lake Superior, by William R. Dryer, pp. 77-95, illus., printed.
- Cod Groups in the New England Area, by John P. Wise, pp. 189-203, illus., printed.
- Comparison of Growth of Four Strains of Oysters Raised in Taylors Pond, Chatham, Mass., by William N. Shaw and James A. McCann, pp. 11-17, illus., printed.
- Development of a Mathematical Relationship between Electric-Field Parameters and the Electrical Characteristics of Fish, by Gerald E. Monan and Derek E. Engstrom, pp. 123-136, illus., printed.
- Distinguishing Tuna Species by Immunochemical Methods, by George J. Ridgway, pp. 205-211, illus., printed.
- Early Larval Stages of the Sea, XIPHOPENEUS KROY-ERI (Heller), by William C. Renfro and Harry L. Cook, pp. 165-177, illus., printed.
- Effect of Fishway Slope on Performance and Biochemistry of Salmonids, by Gerald B. Collins and others, pp. 221-253, illus., printed.
- Further Studies on Fishway Slope and Its Effect on Rate of Passage of Salmonids, by Joseph R. Gauley and Clark S. Thompson, pp. 45-62, illus., printed.
- Herring Tagging Experiments in Southeastern Alaska, by Bernard Einar Skud, pp. 19-32, illus., printed.
- Identification of New England Yellowtail Flounder Groups, by Fred E. Lux, pp. 1-10, illus., printed.
- Influence of Water Velocity upon Orientation and Performance of Adult Migrating Salmonids, by Charles R. Weaver, pp. 97-121, illus., printed.
- Some Aspects of the Oceanography of Little Port Walter Estuary, Baranof Island, Alaska, by Charles F. Powers, pp. 143-164, illus., printed.
- Theory on Development of Mounds Near Red Bluff, Calif., by Harold A. Gangmark and F. Bruce Sanford, pp. 213-220, illus., printed.
- Use of Plant Hemagglutinins in Serological Studies of Clupeoid Fishes, by Carl Sindermann, pp. 137-141, illus., printed.

THE FOLLOWING <u>MARKET NEWS LEAFLETS</u> ARE AVAILABLE FROM THE FISHERY MARKET NEWS SERVICE, U. S. BUREAU OF COMMERCIAL FISHERIES, WYATT BLDG., SUITE 611, 777 14TH ST. NW., WASHINGTON, D. C. 20005.

Number		Title	
MNL -	7	- Mexican Fisheries, 1961-63, and First	
		Quarter 1964, 6 pp.	

MNL - 23 - Fisheries of Chile, Part II and Part III -Central and South Chile, 1960-1962, 18 pp.

- MNL-14 United Kingdom's Fishing Industry, 1959-1963, 40 pp.
- MNL-32 Venezuelan Commercial Catch, Foreign Trade, and Major Developments for 1961 1962, 17 pp.
- 1962, 17 pp. MNL-89 - Peru: Fish Meal and Oil Report, 1963, 8

THE FOLLOWING ENGLISH TRANSLATIONS OF FOREIGN LANGUAGE ARE CLES ARE AVAILABLE ONLY FROM THE U.S. BUREAU OF COMMERCIAL FIL ERIES BIOLOGICAL LABORATORY, BOX 3830, HONOLULU, HAWAII 96812.

- On the hydrographic condition accelerating the skipjack's northward movement across the Kuroshio Front, by Hideo Kawai and Minoru Sasaki, 22 pp. illus., processed, June 1963, limited distribution. (Translated from the Japanese, Bulletin of Tohoku Regional Fisheries Research Laboratory, no. 20, March 1962, pp. 1-27.)
- Methods of identification for the young stages of tuna and spearfishes. II, by Shoji Ueyanagi and Hisaya Watanabe, 20 pp., illus., processed, April 1964, limited distribution. (Translated from the Japane Materials for the Tuna Fisheries Research Counc Nankai Regional Fisheries Research Laboratory, February 1964.)

THE FOLLOWING PUBLICATIONS ARE AVAILABLE ONLY FROM THE SE

- California Fisheries, 1963, by V.J. Samson, 47 pp., illus., April 1964. (Market News Service, U.S. Fi and Wildlife Service, Rm. 205, Post Office Bldg., San Pedro, Calif. 90731.) A review of 1963 trends and conditions in the California fisheries, includi a summary of the sardine fishery during the 1963 season when landings were the lowest on record. Among the subjects discussed are the tuna indust: and cannery receipts; ex-vessel tuna prices; cann tuna pack; and imports of canned and frozen tuna. so covered are the fishing fleet developments; the anchovy fishery; and fish meal prices and market Included in the statistical tables are data on tuna: tunalike fish--canners' receipts, domestic landing frozen imported tuna, and canned pack, 1961-63; sardine landings, pack, and meal and oil produce 1962/63 and 1963/64 seasons; and the canners' r ceipts and pack of mackerel and jack mackerel, 63. Also contains data on canners' receipts of r materials and production of anchovies, herring, squid, and pet food; landings of fish and shellfish the Eureka and San Pedro-Monica areas; import fishery products into Arizona and California Cus Districts, 1962-63; and whale fishery, 1961-63. attractive cover showing the fishermen's Fiesta Time at the Port of Los Angeles enhances this yes report.
- California Fishery Market News Monthly Summary, Part I - Fishery Products Production and Market. Data, March 1964, 14 pp. (Market News Service, U.S. Fish and Wildlife Service, Post Office Bldg. San Pedro, Calif. 90731.) California cannery rece of tuna and tunalike fish and other species used for canning; pack of canned tuna, tunalike fish, macket and anchovies; market fish receipts at San Pedro Santa Monica, and Eureka areas; California and & zona imports; canned fish and frozen shrimp pric ex-vessel prices for cannery fish; for the month i dicated.
- California Fishery Market News Monthly Summary Part II - Fishing Information, April 1964, 9 pp., 1

J.S. Bureau of Commercial Fisheries, Biological aboratory, P.O. Box 6121, Pt. Loma Station, San lego 6, Calif. 92100.) Contains sea-surface temeratures, fishing and research information of intrest to the West Coast tuna-fishing industry and marine scientists; for the month indicated.

ry Industrial Research, vol. 2, no. 2, December 63, 88 pp., illus., processed. (Branch of Reports, reau of Commercial Fisheries, U.S. Fish and Idlife Service, Washington, D. C. 20240.) This is third issue of a new periodical which is being blished irregularly and which presents papers deted to research on problems of the fishing indust. This issue has: "Economic Factors Related to ke Trout Quotas on Lake Superior, by Keith D. ouillard; "Effect of Storage in Refrigerated Sea ter on Amino Acids and Other Components of hiting (Merluccius bilinearis)," by Edward H. ohen and John A. Peters; "Drip Formation in Fish. A Review of Factors Affecting Drip," by David T. iyauchi; "Storage of Fish in Refrigerated Sea War," by Edward H. Cohen and John A. Peters; Technological Investigations of Pond-Reared Fish. --Product Development from Buffalofish," by Leo Sullivan and Harry L. Seagran; and "Bibliography Publications--Division of Industrial Research, by ranch, Year, and Author, 1955-1961 Inclusive," by rginia Whorley.

of Mexico Monthly Landings, Production and Shipents of Fishery Products, February and March 64, 12 pp. each. (Market News Service, U. S. Fish id Wildlife Service, Rm. 609, 600 South St., New tleans 12, La. 70130.) Gulf States shrimp, oyster, fish, and blue crab landings; crab meat producin; LCL express shipments from New Orleans; tolesale prices of fish and shellfish on the New tleans French Market; fishery imports at Port abel and Brownsville, Texas, from Mexico; Gulf enhaden Landings and Production of Meal, Solues, and Oil; and sponge sales; for the months indited.

Ly Summary of Fishery Products Production in lected Areas of Virginia, North Carolina, and ryland, April 1964, 4 pp. (Market News Service, 5. Fish and Wildlife Service, 18 S. King St., an pton, Va. 23369.) Landings of food fish and shellin and production of crab meat and shucked oyss for the Virginia areas of Hampton Roads, Chineague, Lower Northern Neck, and Lower Eastern ore; the Maryland areas of Crisfield, Cambridge, Ocean City; and the North Carolina areas of Attic, Beaufort, and Morehead City; together with mulative and comparative data on fishery prods and shrimp production; for the month indicated.

Ingland Fisheries--Monthly Summary, March 4, 22 pp. (Market News Service, U.S. Fish and dlife Service, 10 Commonwealth Pier, Boston 10, 455, 02210.) Review of the principal New England thery ports. Presents data on fishery landings by 575 and species; industrial fish landings and ex-585 prices; imports; cold-storage stocks of fish-7 products in New England warehouses; fishery 587 results (Boston, Gloucester, New Bedford, Prov-59 tetown, and Woods Hole), Maine (Portland and Rockland), Rhode Island (Point Judith), and Connecticut (Stonington); frozen fishery products prices to primary wholesalers at Boston, Gloucester, and New Bedford; and Boston Fish Pier and Atlantic Avenue fishery landings and ex-vessel prices by species; for the month indicated.

- New York City's Wholesale Fishery Trade--Monthly Summary--March 1964, 19 pp. (Market News Service, U. S. Fish and Wildlife Service, 155 John St., New York, N. Y. 10038.) Includes summaries and analyses of receipts and prices on wholesale Fulton Fish Market, including both the salt- and fresh-water sections; imports entered at New York customs district; primary wholesalers' selling prices for fresh, frozen, and selected canned fishery products; marketing trends; and landings at Fulton Fish Market docks and Stonington, Conn.; U. S. shrimp supply indicators; for the month indicated.
- (Seattle) Washington and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, April 1964, 7 pp. (Market News Service, U.S. Fish and Wildlife Service, 706 Federal Office Bldg., 909 First Ave., Seattle, Wash. 98104.) Includes Seattle's landings by the halibut and salmon fleets reported through the exchanges; landings of halibut reported by the International Pacific Halibut Commission; landings of otter-trawl vessels as reported by the Fishermen's Marketing Association of Washington; local landings by independent vessels; coastwise shipments from Alaska by scheduled and non-scheduled shipping lines and airways; imports from British Columbia via rail, motor truck, shipping lines, and ex-vessel landings; and imports from other countries through Washington customs district; for the month indicated.

THE FOLLOWING <u>SERVICE PUBLICATIONS ARE FOR SALE AND ARE</u> AVAILABLE ONLY FROM THE <u>SUPERINTENDENT OF DOCUMENTS</u>, U. S. GOV-ERENT PRINTING OFFICE, WASHINGTON, D. C. 20402.

- Anglers' Guide to Sharks of the Northeastern United States, Maine to Chesapeake Bay, by John G. Casey, Circular 179, 34 pp., illus., printed, April 1964, 25 cents.
- "Comparison of Various Methods of Hemoglobin Determination on Catfish Blood," by Howard N. Larsen, article, The Progressive Fish-Culturist, vol. 26, no. 1, January 1964, pp. 11-15, illus., processed, single copy 25 cents.
- "Dry Concentrates as Complete Trout Foods," by Arthur M. Phillips, Jr., Glen L. Hammer, and Earl A. Pyle, article, <u>The Progressive Fish-Culturist</u>, vol. 26, no. 1, January 1964, pp. 21-24, processed, single copy 25 cents.
- "An Experimental Sea Lamprey Barrier," by Thomas M. Stauffer, article, <u>The Progressive Fish-Culturist</u>, vol. 26, no. 2, April <u>1964</u>, <u>pp. 80-83</u>, illus., processed, single copy 25 cents.
- "A Modified Scoop Trap for Sampling Downstream-Migrant Salmon in Turbid Glacial Rivers," by William R. Meehan, article, <u>The Progressive Fish-Culturist</u>, vol. 26, no. 1, January <u>1964</u>, pp. 42-46, illus., processed, single copy 25 cents.

MISCELLANEOUS PUBLICATIONS

THESE PUBLICATIONS <u>ARE NOT AVAILABLE FROM THE FISH AND WILD-LIFE SERVICE, BUT USUALLY MAY BE OBTAINED FROM THE ORGANIZATION ISSUING THEM.</u> CORRESPONDENCE REGARDING PUBLICATIONS THAT FOLLOW SHOULD BE ADDRESSED TO THE RESPECTIVE ORGANIZATIONS OR PUBLISHER MENTIONED. DATA ON PRICES, IF READILY AVAILABLE, ARE SHOWN.

ALGAE:

"Algae, The Pondowners Scummy Scourge," by H.D. Kelly, article, <u>Alabama Conservation</u>, vol. XXXIV, no. 1, December 1963-January 1964, pp. 14-16, illus, printed. Alabama Department of Conservation, 64 N. Union St., Montgomery 4, Ala.

AMINO ACIDS:

'Fish and Fish Products. Part IV--Evaluation of Certain Important Types of Fish for Their Valuable Constituents and Essential Amino Acids," by M. Qudrat-I-Khuda, Kh. M. Quddusur Rahman, and N. A. Khan, article, <u>Scientific Researches</u>, vol. 1, no. 1, January 1964, pp. 49-56, illus., printed. East Regional Laboratories of P.C.S.I.R., Mirpur Rd., Dhamondi, Dacca-2, East Pakistan.

ANCHOVY:

"Experiencias sobre el Empleo de Anchoveta Fresca (Engraulis ringens) en la Alimentacion de Cerdos" (Research on the Use of Fresh Anchovy--Engraulis ringens--in the Feeding of Hogs), by A. Bacigalupo and others, article, Anales Cientificos, vol. 1, no. 1, April-May-June 1963, pp. 18-39, illus., printed in Spanish with English summary. Universidad Agraria, Departamento de Publicaciones, Apartado 456, Lima, Peru.

ANTIBIOTICS:

Problems in the Use of Antibiotic Dips for the Preservation of Fresh Atlantic Groundfish Fillets, by C. H. Castell and Jacqueline Dale, Bulletin No. 138, 70 pp., 1963, printed. Fisheries Research Board of Canada, Ottawa, Canada.

ANTIOXIDANTS:

'Nutritive Value of Marine Oils. II--Effects of in Vivo Antioxidants in Feeding of Menhaden Oil to Swine,'' by J. E. Oldfield, R. O. Sinnhuber, and A. A. Rasheed, article, Journal of the American Oil Chemists' Society, vol. 40, August 1963, pp. 357-360, printed. American Oil Chemists' Society, 35 East Wacker Dr., Chicago 1, Ill.

ARGENTINA:

Piscicultura del Pejerrey" (Pond Culture of the Pejerrey), article, <u>Asuntos Agrarios</u>, vol. XI, no. 125, January 1964, p. 5, illus., printed in Spanish. Ministerio de Asuntos Agrarios, Departamento de Publicaciones, Ava. 51, no. 774, La Plata, Argentina.

ARTIFICIAL REEFS:

Artificial Habitat in the Marine Environment, by John G. Carlisle, Jr., Charles H. Turner, and Earl E. Ebert, Fish Bulletin 124, 94 pp., illus., printed. Documents Section, Department of Fish and Game, P.O. Box 1612, Sacramento, Calif. 95807. A study of changes, caused by offshore drilling, in the habitat of marine fish dwelling in artificial reefs. Findings showed that those changes were generally beneficial to the fish and plants; and depositing washed drill cuttings on the bottom at those sites was neither deleterious nor beneficial to the marine life in the area.

BACTERIAL CONTAMINATION:

Coliform Contamination in Lobster Meat Traced to Cooler Construction, by John M. Graham, 3 pp., illus., printed. (Reprinted from Canadian Fisheriz Reports, no. 2, September 1963, pp. 25-27.) Fish Inspection Laboratory, Department of Fisheries of Canada, Shediac, N. B., Canada.

BACTERIOLOGY:

"Radiation-Resistant, Pigmented Coccus Isolated fr. Haddock Tissue," by Norman S. Davis, Gerald J. Silverman, and Edmund B. Masurovsky, article, Journal of Bacteriology, vol. 86, August 1963, pp. 294-298, printed. Williams and Wilkins Co., 428 I Preston St., Baltimore 2, Md.

BALTIC SEA:

Changes in Commercial Fish Stocks in Baltic Sea in der Influence of Oceanologic Factors, USSR, by 1 Dement'yeva, OTS 64-21653, 15 pp., illus., printer February 26, 1964, 50 cents. (Translated from the Russian, Okeanologiya, vol. 3, no. 5, 1963.) Office Technical Services, U.S. Department of Commerce Washington, D. C. 20235.

BARRACUDA:

Systematics and Life History of the Great Barracuc SPHYRAENA BARRACUDA (Walbaum), by Donald DeSylva, Studies in Tropical Oceanography No. 1, pp., illus., printed, October 1963, \$2.50. Institute Marine Science, University of Miami, 1 Rickenbad Causeway, Miami, Fla. 33149. The great barracu is found in all tropical seas, with the exception of eastern Pacific Ocean. Poisoning in humans who have eaten fresh barracuda is due to a toxin in the meat and not from bacterial poisoning. In the wes ern Atlantic, poisonings have occurred throughout the year. There seems to be no relation between tainment of maturity or the spawning cycle and the poisonous nature of the flesh. Evidence is present in this report for a food-chain origin of the toxin, mechanisms are discussed for the transmission d the toxin from planktonic and benthic algae to bar: cuda by way of intermediate organisms. A summi of the 29 attacks reputedly made by these fish on mans is presented and analyzed.

BELGIUM-LUXEMBOURG:

Foreign Trade Regulations of Belgium-Luxemboula by Robert H. Walker, OBR 64-26, 12 pp., printed March 1964, 15 cents. Bureau of International C merce, U.S. Department of Commerce, Washing D.C. (For sale by the Superintendent of Docume U. S. Government Printing Office, Washington, D 20402.) The Belgium-Luxembourg Economic Un (BLEU) has followed a liberal, outward-looking t policy, reflecting its heavy dependency on foreign markets and suppliers. Imports have been almo completely liberalized; i.e. admitted without qua tive restrictions, and items still restricted or sul ject to licensing are for the most part liberally t ed. The report discusses trade policy, import ter system, sales and other internal taxes, document tion, and labeling and marking requirements. Als covers special customs provisions, nontariff imp trade controls, BLEU export controls, United Sta import and export controls, and diplomatic repres tation between the two countries.

BIOCHEMISTRY:

'Determination of Ammonia Nitrogen in Salted Sar dines," by C. Bibic, article, <u>Chemical</u> <u>Abstracts</u>,

58, April 29, 1963, 9558d, printed. American Chemical Society, 1155 16th St. NW., Washington 6, D. C.

troduction to the Biochemistry of Foods, by J.B.S. Braverman, 351 pp., printed, 1963, 70s. (about US\$9.80). Elsevier Publishing Company, 52 Vanderbilt Ave., New York, N.Y. 10017.

AZIL:

e latorio do Projeto de Pesca Exploratoria na Costa e Santa Catarina, Janeiro-Fevereiro, 1963 (Report n the Exploratory Fishing Project along the Santa 'atarina Coast, January-February 1963), 65 pp., lus., processed, 1964. Setor de Pesquisas, Deartamento Estadual de Caca e Pesca, Estado de anta Catarina, Florianopolis, Santa Catarina, Brail. This is a report on an exploratory fishing projct carried out by the State of Santa Catarina Fish nd Game Department, with technical assistance rom FAO, along the coast of that State in southern razil, between latitudes 26º S. and 29º20' S., durng January and February 1963. The vessel used as a small research vessel of 15 meters length. The otter trawl used was 12 meters long (with headine of 24 meters, and footrope of 30 meters), made f cotton, with internal stretched mesh sizes from O centimeters in the foreparts to 58 millimeters in he cod end. Species trawled included sea bob, white hrimp (Penaeus schmitti), sharks, and flatfish.

MADA:

e Commercial Fisheries of British Columbia, 100 p., illus., processed, December 1963. Bureau of conomics and Statistics, Department of Industrial evelopment, Trade, and Commerce, Victoria, B. C., anada. Provides a general survey of the fishing adustry and relates the industry's markets, producion, labor force, capital investment, and other exenditures to the provincial economy. The principal mphasis is on the following aspects of the industry ather than on species of fish, areas of catch, or Dnservation problems: markets; production; capi-11 investment and other expenditures; the labor rce; and other aspects of the industry (including ternational relations and the role of government the fisheries). While the most current statistics ad information available are presented, the princial years surveyed are 1960 and 1958. The general on clusion is that the industry is an important conbutor to the provincial economy in terms of embyment, production, and investment.

heries Statistics of British Columbia, 1963 (Preninary), 14 pp., processed, April 1964. Canadian partment of Fisheries, Pacific Area, Economics ranch, 1155 Robson St., Vancouver 5, B. C., Cana-Discusses the total value of fish and fish prodts produced in 1963 with an analysis of the deease in market value from the previous year; marting by species, and landed and market value, 50-63; canned pack, and production and utilization salmon; and landings and value of herring and byroducts, halibut, soles, crab and shrimp, and other lecies. Also covers fishing vessels, gear and equipent, and number of licensed fishermen. Includes atistical tables on landings and values by species id by years; landings and manufactured products; ilmon pack, 1963; and other similar data. Fisheries Statistics of Canada 1961 (Canada Summary), vol. 1, part 3A, March 1964, 60 pp., printed in French and English, 75 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada. This report provides a summary of the Canadian fisheries, arranged to show separately the three main fisheries--Atlantic, Pacific, and Inland. Also contains statistical tables on landings, quantity, and value by species and provinces; value of exports and imports of fish and fishery products; employment in the primary industry; Canadian lobster pack; British Columbia salmon pack; and fishing bounties paid to vessels and boats.

Journal of the Fisheries Research Board of Canada, vol. 21, no. 2, March 1964, 214 pp., illus., printed, single copy C\$2. Queen's Printer and Controller of Stationery, Ottawa, Canada. Contains, among others, these articles: "Winter Cod Taggings off Cape Breton and on Offshore Nova Scotia Banks, 1959-62," by W. R. Martin and Yves Jean; "Variability in Paper Electrophoretic Patterns of the Serum of Landlocked Sea Lamprey, Petromyzon marinus Linnaeus," by M. L. H. Thomas and H. R. McCrimmon; "Structural Homogeneity in Unsaturated Fatty Acids of Marine Lipids. A Review," by R. G. Ackman. "Changes in Glycogen and Lactate Levels in Migrating Salmonid Fishes Ascending Experimental 'Endless' Fishways," by Anne R. Connor and others; "Cod Liver Oil: Component Fatty Acids as Determined by Gas-Liquid Chromatography," by R. G. Ackman and R. D. Burgher; and "Observations on the Milky Condition in Some Pacific Coast Fishes," by Max Patashnik and Herman S. Groninger, Jr.

Statistics on Salmon Sport Fishing in the Tidal Waters of British Columbia, 1963, 26 pp., illus., processed, March 31, 1964. Department of Fisheries of Canada, Pacific Area, 1155 Robson St., Vancouver 5, B. C., Canada.

CANNING:

"Canning Fresh-Water Fish. Part 3," by A. W. Lantz, article, Progress Reports of the Biological Station and the Technological Unit, No. 2, May 1961, pp. 37-47, printed. Fisheries Research Board of Canada Technological Unit, Ontario, Canada.

CHESAPEAKE BAY:

Chesapeake Science, vol. 4, no. 4, December 1963, 62 pp., illus., printed, single copy 75 cents. Natural Resources Institute, University of Maryland, Chesapeake Biological Laboratory, Solomons, Md. Includes, among others, these articles: "Monogenetic Trematodes from Some Chesapeake Bay Fishes. Part I--The Superfamilies Capsaloidea Price, 1936 and Diclidophoroidia Price, 1936," by J. W. McMahon; "Summer Food of Juvenile American Shad in Virginia Waters," by W. H. Massmann; and "Sport Fishing Survey of the Lower Potomac Estuary, 1959-1961," by C. M. Frisbie and D. E. Ritchie, Jr.

CHILE:

Foreign Trade Regulations of Chile, by William E. Spruce, OBR 64-23, 8 pp., printed, March 1964, 15 cents. Bureau of International Commerce, U.S. Department of Commerce, Washington, D. C. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402.) A

report offering information to businessmen interested in export-import trade with Chile. Discusses Chile's trade policy, import tariff system, sales and other internal taxes, documentation and fees, and labeling and marking requirements. Also covers spe-cial customs provisions, nontariff import trade controls, Chile's export controls, United States foreign trade controls, and diplomatic representation between the two countries.

CHLORTETRACYCLINE:

"Method for Chlortetracycline Determination in Fish," by G.B. Dubrova and Yu. I. Rubinshtein, Chemical Abstracts, vol. 57, October 29, 1962, 11614e printed. American Chemical Society, 1155 16th St. NW., Washington 6, D.C.

CHOLESTEROL:

A Comparison of the Effects of the Polyunsaturated Fatty Acids of Cuttlefish Liver Oil and Cottonseed Oil on Cholesterol Metabolism," by T. Kaneda and R. B. Alfin-Slater, article, Journal of the American Oil Chemists' Society, vol. 40, August 1963, pp. 336-338, printed. American Oil Chemists' Society, 35 East Wacker Drive, Chicago 1, Ill.

COLOMBIA:

Cinco Especies de Peces se Han Escogido para una Campaña" (Five Species of Fish Have Been Selected for a Campaign), article, El Tiempo (Bogota), May 1, 1964, p. 34, printed in Spanish. El Tiempo, Bogota, Colombia. (A limited number of copies of a translation are available from Social Projects Department, American Institute for Free Labor Development, 1925 K St. NW., Suite 406, Washington, D. C. 20006.) Discusses the proposed fresh-water fishculture program in Colombia; the five species of both temperate zone and tropical-type fish chosen for culture; and the projected establishment of a Pisciculture Institute at Buga. The purpose of the program is the ultimate establishment of fish ponds throughout Colombia and their production of supplemental protein for the national diet.

CUBA:

World Trade with Cuba, 1961-62, OBR 64-41, 4 pp., processed, March 1964, 15 cents. Bureau of International Commerce, Washington, D.C. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402.) This special report presents statistics on free-world and Sino-Soviet bloc trade with Cuba. The statistical tables show: the value of this trade as reported by Cuba's trading partners, 1961-62; a historical series of data through 1960, based on Cuban statistics; and tabulations made from official foreign trade publications of the free-world countries.

ECUADOR:

Foreign Trade Regulations of Ecuador, by Gary D. Adams, OBR 64-28, 8 pp., printed, March 1964, 15 cents. Bureau of International Commerce, U.S. De-partment of Commerce, Washington, D.C. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.) Current import policy, although still largely oriented toward revenue collection, is also designed to help stimulate Ecuadoran industry and agriculture, to discourage contraband imports, and to preserve foreign exchange for the importation of items considered essential for national economic well-being. The

report includes information on Ecuador's import tariff system, sales and other internal taxes, documentation and fees, and labeling and marking requirements. Also covers special customs provision nontariff import trade controls, Ecuador's export controls, United States foreign trade controls, and diplomatic representation between the two countries

EDUCATION:

Bulletin, Institute of Marine Science, University of Miami, 1964-1965, vol. 38, no. 7, February 1964. pp., illus., printed. University of Miami, Coral Gables, Fla. Describes graduate degrees and cour offered in fisheries, marine biology, and oceanogr phy under the Department of Marine Science.

ENZYMES: "Glycolytic Enzymes in the Tissues of a Salmonoid Fish (Salmo gairdnerii gairdnerii), by Robert A. MacLeod, R. E. E. Jonas, and E. Roberts, article, Canadian Journal of Biochemistry and Physiology vol. 41, September 1963, pp. 1971-1981, printed. tional Research Council, Ottawa 2, Canada.

"Studies on Proteolytic Enzyme of Liver of King Cr. Paralithodes camtschatica (Tilesius). I--Isolation of the Crystalline Enzyme," by Tsuneyuki Saito, an others. Bulletin of the Japanese Society of Scientif Fisheries, vol. 28, October 1962, pp. 1015-1019, printed. Japanese Society of Scientific Fisheries, Shiba-Kaigandori 6, Minato-ku, Tokyo, Japan.

EUROPEAN FREE TRADE ASSOCIATION:

The European Free Trade Association -- Today and Tomorrow, 49 pp., illus., printed, January 1964, \$ McGraw-Hill, Inc., TMIS Annex, 351 W. 41st St., New York, N.Y. In 5 main sections this report ex amines the development of EFTA; organizational matters; policy; markets and trade patterns in the EFTA area; EFTA and the 1964 Kennedy Round of tariff negotiations; and other matters essential to: understanding of the Association.

FARM PONDS: "Use and Value of Farm Ponds," article, The Tenny see Conservationist, vol. XXX, no. 4, April 1964, The Tennessee Conserva 14, 22, illus., printed. The Tennessee Conserva tionist, 264 Cordell Hull Bldg., 436 Sixth Ave. N Nashville Tenn. A fishpond can be a delightful pa of a farm, according to the author. A good pond makes use of the land; provides water for livesto fire protection, and recreation; and when proper. managed it can be an extra source of income to th owners.

FATTY ACIDS:

Incorporation of Linolenic-1_c14 Acid into Eicosa pentaenoic and Docosahexaenoic Acids in Fish, Mitsu Kayama, and others, article, Journal of the American Oil Chemists' Society, vol. 40, Septem 1963, pp. 499-502, printed. American Oil Chemis Society, 35 East Wacker Dr., Chicago 1, Ill.

"A Study of the Hypocholesterolemic Activity of the Ethel Esters of the Polyunsaturated Fatty Acids Cod Liver Oil in the Chicken. I--Effect on Total Serum Cholesterol; II--Effect on Serum and Tiss Cholesterol and Aortic and Coronary Atheroscle I sis," by Samuel G. Kahn and others, article, Jou J of Nutrition, vol. 80, August 1963, pp. 403-413,

rinted. American Institute of Nutrition, 36th St. t Spruce, Philadelphia 4, Pa.

DERAL REGULATIONS:

mulative Pocket Supplement to Code of Federal regulations, Title 50, Wildlife and Fisheries (as of anuary 1, 1964), 126 pp., printed, 1964, 50 cents. rederal Register Office, General Services Adminisration, Washington, D. C. (For sale by the Superinendent of Documents, U.S. Government Printing Ofice, Washington, D. C. 20402.)

BEHAVIOR:

e Schooling of Fishes," by E. Shaw, article, <u>Scien-</u> ic <u>American</u>, vol. 206, no. 6, 1962, pp. 128-134, 7-138, printed. Scientific American Inc. 415 idison Ave., New York 17, N.Y.

BLOOD:

dies on the Auto-Oxidation Velocity of Fish Myoobin," by Fumio Matsuura, and others, Bulletin of e Japanese Society of Scientific Fisheries, vol. 28, abruary 1962, pp. 201-216, printed. Japanese Soety of Scientific Fisheries, Shiba-Kaigandori, inato-Ku, Tokyo, Japan.

ERY REGULATION:

timization and Suboptimization in Fishery Regulaby Ralph Turvey, article, The American Ecomic Review, vol. LIV, no. 2, Part 1, March 1964, . 64-76, illus., printed, single copy \$2. The Ameran Economic Review, Stanford University, Stanrd, Calif. 94305. The purpose of this article is to ow that fishery regulation is one of those spheres economic policy where what is the best thing to depends on what can be done. This is usually istrated by the analogy that, if one wants to climb high as possible but cannot climb all the way up highest mountain, the best thing to do may be to 1k in the opposite direction and climb to the top a lower one. If the highest mountain is to be mbed, then regulation must extend not only to the ope of the problem but to the mode of operation as 11.

CRY RESEARCH:

arch in Fisheries, <u>1963</u>, edited by Ted S. Y. Koo, tribution No. 166, 79 pp., illus., printed, March 4. Research in Fisheries, University of Washton, Fisheries Center, Seattle, Wash. 98105. Prets papers on Alaska salmon studies, other fish jects, ecology and taxonomy, shellfish, food sci-3, and related subjects.

F'AT:

the Structure of the Depot Fats of Marine Fish Mammals," by H. Brockerhoff and R. J. Hoyle, icle, <u>Archives of Biochemistry and Biophysics</u>, 102, September 1963, pp. 452-455, printed, Acanic Press Inc. 111 Fifth Ave., New York 3, N.Y.

II FOOD:

olution in Fish Diets," by Keen Buss, article, <u>The</u> <u>tarium</u>, vol. 33, no. 5, May 1964, pp. 16-17, printsingle copy 40 cents. The Aquarium Publishing Box 832, Norristown, Pa. 19404.

EI IEAL:

S. Davydova, OTS 64-21691, 10 pp., printed, Feb-

ruary 29, 1964, 50 cents. (Translated from the Russian, <u>Trudy Vsesoyuznogo Nauchno-Issledovatel'-</u> <u>skogo Instituta Morsgoko Rybgono Khozyastva i Okea-</u> <u>nografii, vol. 45, 1962.)</u> Office of Technical Services, U.S. Department of Commerce, Washington, D. C. 20235.

FISH MUSCLE:

Studies on Bound Water in Fish Muscle," by Minoru Akiba, article, <u>Memoirs of the Faculty of Fisheries</u>, vol. 9, no. 2, 1961, pp. 85-179, printed. Faculty of Fisheries, Hokkaido University, Kameda-Machi, Hakodate, Japan.

FISH OILS:

"The Oxidation of a Highly Unsaturated Herring Oil," by Harald Astrup, article, <u>Chemistry and Industry</u>, January 18, 1964, pp. 107-108, printed. Society of the Chemical Industry, 14 Belgrave Sq., London SW1, England.

FREEZING:

"Air Blast Freezing of Kippers," by J. Graham and J. H. Merritt, article, Modern Refrigeration, vol. 66, September 1963, pp. 837-840, 862, printed. Refrigeration Press Ltd. Maclaren House, 131 Great Suffolk Street, London, SE1, England.

FUR SEALS:

"The Return of the Antarctic Fur Seal," by Fergus O'Gorman, article, New Scientist, vol. 20, no. 365, November 14, 1963, pp. 374-376, illus., printed, single copy 1s. (about 15 U.S. cents). Cromwell House, Fulwood Pl., High Holborn, London WC1, England. The Antarctic fur seal's reappearance on the South Georgia, South Orkney, South Shetland, and South Sandwich Islands provides an example of a population recovery, since the species was almost wiped out by sealers in the last century. Today, there are at least 20,000 individuals on one island and they will doubtless be harvested again--after scientific study.

GAR:

"The Longnose Gar," by Norvel Netsch, article, <u>The</u> <u>Tennessee Conservationist</u>, vol. XXX, no. 4, April <u>1964</u>, pp. 14, 22, illus., printed. The Tennessee Conservationist, 264 Cordell Hull Bldg., 436 Sixth Ave. N., Nashville, Tenn.

GEAR:

'Shock Absorber for Driftnet Warp," by V. B. Fershtman, article, <u>Rybnoe Khoziaistvo</u>, vol. 38, no. 2, 1962, pp. 36-42, printed in Russian. V. Krasnosel'skaia 17, Moscow, U.S.S.R.

GERMAN FEDERAL REPUBLIC:

Informationen fur die Fischwirtschaft, vol. 10, no. 6, 1963, 39 pp., illus., processed in German. Bundesforschungsanstalt fur Fischerei, Hamburg-Altona 1, Palmaille 9, Germany. Contains, among others, these articles: "FFS 'Walther Herwig' von Erster Forschungsfahrt Zuruck" (The Walther Herwig Has Just Returned from Her First Research Trip); "Fischerei auf den Bankhering in der Nordsee 1963" (Fisheries of Bank-Herring in the North Sea in 1963); "Heringsfischerei der USSR in der Nordsee" (Herring Fisheries of the U.S.S.R. in the North Sea); and "Die Thunfischerei in Deutscher Sicht" (German Outlook on Tuna Fishery).

GHANA:

Establishing a Business in Ghana, by Evelyn M. Schwartztrauber, OBR 64-12, 8 pp., printed, February 1964, 15 cents. Bureau of International Commerce, U.S. Department of Commerce, Washington, D.C. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402.) A report of help to businessmen considering an investment in Ghanaian industry. The Capital Investments Act 1963 aims to encourage foreign private investment by providing incentives, such as tax exemptions, and by guaranteeing the repatriation of profits and capital. The report discusses government policy on private foreign investment; entry, remittance, and repatriation of capital; and trade factors -- tariff and trade concessions, and advantage of location in Ghana. Also covers business organization, laws and regulations affecting employment, and cost factors.

GULF AND CARIBBEAN:

Bulletin of Marine Science of the Gulf and Caribbean, vol. 14, no. 1, March 1964, 187 pp., illus., printed, single copy \$2. University of Miami Press, Coral Gables, Fla. Includes, among others, article on: "Observations on Burrowing Behavior of the Pink Shrimp, Penaeus duorarum, Burkenroad," by Charles M. Fuss; "Single File Migration of the Spiny Lobster, Panulirus argus (Latreille)," by William F. Herrnkind and William C. Cummings; and "Enoploteuthis anapsis, a New Species of Enoploteuthid Squid (Cephalopoda: Oegopsida) from the Atlantic Ocean," by Clyde F. E. Roper.

HONDURAS:

Foreign Trade Regulations of Honduras, OBR 64-21, 8 pp., printed, February 1964, 15 cents. Bureau of International Commerce, U.S. Department of Commerce, Washington, D.C. (For sale by the Superin-tendent of Documents, U.S. Government Printing Of-fice, Washington, D.C.) Present Honduran trade policy is intended to implement the Central American Čommon Market agreements. Although these agreements tend to be restrictive compared to past Honduran trade policy, simplified procedures and an expanding Central American market may make the overall trade picture favorable for U.S. exports. The report includes information on the Honduran system, sales and other internal taxes, documentation and fees, and labeling and marking requirements. Also covers special customs provisions, nontariff import trade controls, Honduras' export controls, United States foreign trade controls, and diplomatic representation between the two countries.

INDIA:

The Wealth of India. Raw <u>Materials</u> 4, <u>Supplement:</u> Fish and Fisheries, 132 pp., printed, 1962. Council of Scientific and Industrial Research, New Delhi, India.

INTERNATIONAL FISHERIES CONVENTION: International Fisheries Convention of 1946, The Permanent Commission, Report by the President on the Eleventh Meeting, 29 pp., processed in French and English, 1964. Office of the Permanent Commission, Rm. 620, East Block, Whitehall Pl., London SW1, England. Includes a report by the President on the Eleventh Meeting of the Permanent Commission, held in London, May 1963; a list of names of delegates, advisors, and observers attending the meet and the agenda. Also presents a report by the Fina Committee; and a press notice issued after the Ele enth Meeting.

ISRAEL:

Foreign Trade Regulations of Israel, OBR 64-30, 8: printed, March 1964, 15 cents. Bureau of International Commerce, U.S. Department of Commerce Washington, D. C. (For sale by the Superintenden Documents, U.S. Government Printing Office, Wa ington, D. C. 20402.) Israel uses its trade policy further its developing economy by assigning the 1 est priority to imports of foods, industrial raw m terials, machinery, and such other products as a considered economic necessities. The report di cusses Israel's import tariff system, sales and c internal taxes, documentation and fees, and label and marking requirements. Also covers special toms provisions, nontariff import trade controls Israel's export controls, United States foreign tra controls, and diplomatic representation between two countries.

ITALY:

Bolletino di Pesca, Piscicoltura e Idrobiologia, vol XVII, no. 2, July-December 1962, 133 pp., illus., printed in Italian with French and English summi single copy L. 600 (about 95 U.S. cents). Labora rio Centrale di Idrobiologia, Piazza Borghese, 9 Rome, Italy. Contains, among others, article on "Studi sulla Biologio e Pesca di Xiphias gladius I (Study on Biology and Fishery of Swordfish, Xiph gladius L.), by Antonino Gavaliere; "Osservazio sul Ritmo di Accrescimento e sullo Sviluppo di F lazioni di Trote (Salmo trutta fario L.)" (Observ tion on the Rate of Increase and Its Influence on Population of Trout-Salmo trutta fario L.) and "Esperimenti di Allevamento di Trota Marmorati (Salmo marmoratus Cuv.)" (Experiment in Reari Marmorata Trout--Salmo marmoratus Cuv.).

JAPAN:

- Bulletin of the Faculty of Fisheries, Hokkaido Uni sity, vol. 14, no. 2, August 1963, 86 pp., illus., p in Japanese with English abstracts and tables. ulty of Fisheries, Hokkaido University, Hakoda Japan. Includes, among others, articles on: "L and Young of the Whiting, <u>Theragra chalcogram</u> (Pallas) from the North Pacific," by K. Kobayas "Freeze Vacuum Drying of Marine Products. I K. Kobayashi and S. Igarashi; "Studies on Air Sh in Water. II-(1)," by S. Igarashi; "Lipids of Flo der. III; IV," by H. Igarashi and others; "Studies Spoilage of Fish Sausage. I; II," by E. Tanika wa Motohiro, and M. Akiba.
- Bulletin of the Faculty of Fisheries, Hokkaido U sity, vol. 14, no. 3, November 1963, 76 pp., illi printed in English except as noted. Faculty of eries, Hokkaido University, Hakodate, Japan. 7 sents, among others, article on: "The Normal velopmental Stages of the Pond Smelt, Hypomes olidus (Pallas)," by Juro Yamada; "Photosynthe of a Natural Phytoplankton Population Mainly C posed of a Cold Diatom, Thalassiosira hyalina, Hakodate Harbor, March 1962," by Shigeru Mor and others; "On the Effects of Environmental F upon the Reproduction of Fishes," by Hiroshi S hioka; "Devices of Simple Plankton Apparatus.

Sigeru Motoda; "Freeze Vacuum Drying of Mae Products. II," by Kiichiro Kobayashi and Shuzo rashi (in Japanese with English abstract); "Studies Complete Utilization of Squid (Ommastrephes ani pacificus). XIX," by Eiichi Tanikawa, Akiba noru, and Terushige Motohiro (Japanese with Engh abstract); "Likes and Dislikes of Fish Meat. rt 1-By Some Americans," by Keiichi Oishi and ko Okumura (Japanese with English abstract).

Gyogyo (Overseas Fisheries), no. 16, 1964, 51 Thus., printed in Japanese. International Fishtes Co-Operative Organization, 3 Banchi, 2 Chome, wai-cho, Chiyoda-ku, Tokyo, Japan. Includes the owing articles: "Establishment of an Overseas heries Policy," by K. Nakatani; "International blems Facing the Tuna Industry," by A. Takaba; "A Visit to the Cook Islands," by N. Sumida; resent Condition of Overseas Fisheries;" "Overs Advancement of the Japanese Coastal and Offre Fisheries," by Y. Ikeda; "Foreign Private sital Investment Structure of Developing Nations;" "Tanganyika Fisheries Survey Report."

book of Fisheries--1963, No. 10, 910 pp., illus., nted in Japanese, May 15, 1963, 1,700 yen (about 12.) Suisan Sha, 8, San'ei-cho, Shinjuku-ku, Tokyo, an. This report covers the period July 1961 ough December 1962. Includes sections on fishlegislation and administration; fishery products duction -- whaling, salmon and trout industries, hership crab operations, bonito and tuna fishing, saury fishery, and other important fisheries; and nomics of the fishery industries -- prices, transtation, consumption, foreign trade, labor, and ints issued. Also covers management -- capitalion, cooperatives, unions, and trade associations; international relations -- commissions and contions, Japan's overseas fisheries, and world fishindustries. Presents many statistical tables wing data on landings of whales, marine and h-water fish, and processed products; number shermen; quantity of fishery products purchased family in rural and in urban areas; quantity of orts of fresh and frozen, dried and smoked, and ed fish; amount of capital invested in the fishing stries; and other related information.

in of Fisheries College, Pusan National Univervol. V, no. 1, September 1963, 76 pp., illus., ed in Korean with English abstracts. Fisheries ge, Pusan National University, Pusan, Korea. hins, among others, these articles: "On Some hatodes Whose Intermediate Hosts are Brackish r Fishes. II--The Life History of Pygidiopsis nus, the Intermediate Host of Which is Mugil illus." by Seh Kyu Chun; "On the Development Freshwater Snail, Parafossaralus manchouricus guigant;" "Food Preservation by Ionizing Radiand Smoking on Fish Meat Preservation, and Preservation of the Dried Laver," by Byung Sun g: "On the Preservative Effects by Food lervatives," by Wi Kyung Choi; and "An Example a ising Korean Catfish Parasilurus asotus (Linne) Small Pond," by In Bae Kim. LOUISIANA:

Louisiana Fishery: The Coastal Marshes, by Larry H. Ogren, Wildlife Education Bulletin No. 35, 7 pp., illus., printed. (Reprinted from Louisiana Conservationist, April 1962.) Louisiana Wild Life and Fisheries Commission, Wild Life and Fisheries Bldg., 400 Royal St., New Orleans 16, La. Discusses estuarine biology and the fishery for brackish-water fish in Louisiana.

MARINE ALGAE:

Evaluation of Certain Marine Algal Flagellates for Mass Culture, by Richard W. Eppley, OTS 63-10364, 15 pp., processed, November 1963, \$1,60. Office of Technical Services, U. S. Department of Commerce, Washington, D. C. 20230.

Research on the Chemical Composition and Digestibility of Algal Cell Walls, by Milton J. Becker and Alan M. Shefner, OTS 63-10066, 28 pp., processed, November 1963, \$1. Office of Technical Services, U. S. Department of Commerce, Washington, D. C. 20230.

MECHANICAL DRYING:

"Drying Fish Quickly Without Cooking It," article, New Scientist, vol. 19, September 5, 1963, p. 490, printed. Cromwell House, Fulwood Pl., High Holborn, London WC1, England.

MISCELLANEOUS:

Fisheries as a Profession, 5 pp., processed, September 1, 1963. Division of Salt Water Fisheries, Florida Board of Conservation, W. V. Knott Bldg., Tallahassee, Fla. Discusses briefly the importance of the fishery resource, educational requirements for work in fisheries biology and related fields, and types of work in those fields. Also covers personal requirements, salaries, benefits, and opportunities for employment.

NERVOUS SYSTEM:

The following processed reports are for sale by the Office of Technical Services, U.S. Department of Commerce, Washington, D.C. 20230, at 50 cents a copy.

- Chemoreception in Crustaceans. Report No. 1: Variability in the Chemoreception of Amphipods (GAM-MARUS LOCUSTA and G. LACUSTRIS), by A. N. Zubov, OTS 63-11164, 8 pp. illus., 1963. (Translated from the Russian, Akademiya Nauk SSSR, Trudy Murmanskogo Morskogo Biologicheskogo Instituta, vol. 6, no. 2, 1960, pp. 245-252.)
- Role of the Receptors of the Body Surface in the Mechanism of the Reaction of Fish to Electric Currents, by N. V. Bodrova and B. V. Krayukhin, OTS 63-1111, 8 pp., 1963. (Translated from the Russian, Trudy Instituta Biologii Vodokhranilishch, vol. 6, no. 3, 1960, pp. 266-272.)

NETHERLANDS:

Foreign Trade Regulations of the Netherlands, by Ann P. Brosnan, OBR 64-31, 8 pp., printed, March 1964, 15 cents, Bureau of International Commerce, U.S. Department of Commerce, Washington, D. C. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402.)

Because of the importance of foreign trade to the country's economy, the Netherlands has been traditionally in favor of the greatest possible elimination of trade barriers. This report discusses the import tariff system, sales and other internal tax, documentation and fees, and special customs provisions. Also covers nontariff import trade controls, Netherlands' export controls, United States foreign trade controls, and government representation between the two countries.

NEVADA:

Fishes and Fisheries of Nevada, by Ira La Rivers, 782 pp., illus., printed, 1962, distribution limited. Nevada Fish and Game Commission, Box 678, Reno, Nev.

NORWAY:

Fiskeriene i Norge; Okonomi og Politikk (The Fisheries in Norway; Economics and Politics), by Gerhard Meidell Gerhardsen, 192 pp., illus., printed, 1964, Kr. 38.50 (about US\$5.40). Olso University Press, Universitetsforlaget, Oslo, Norway. The early chapters of this book cover the background and problems of the Norwegian fisheries; natural resources; fishermen and their equipment; and profitability and regulation of the industry. Later chapters discuss landings and ex-vessel prices; processing and exporting of fish; government fishery institutions and administration; ard related information.

NUTRITION:

Let the Sea Nourish Your Health, by Earl Ubell, 4pp., illus., printed. (Reprinted from House Beautiful, June 1963.) Hearts Corp., 572 Madison Ave., New York, N.Y. 10022.

OCEANOGRAPHY:

Explorers of the Sea. Famous Oceanographic Expeditions, by Muriel L. Guberlet, 234 pp., illus., printed, 1964, \$4.50. Ronald Press, 15 E. 26th St., New York 10, N.Y.

International Indian Ocean Expedition Newsletter, India, no. 3, December 1963, 12 pp., printed. The Indian National Committee on Oceanic Research, Council of Scientific and Industrial Research, B-7, Hauz Khas Enclave, New Delhi-16, India.

National Oceanographic Program, Fiscal Year 1965, ICO Pamphlet No. 15, 54 pp., printed, March 1964. Interagency Committee on Oceanography, Federal Council for Science and Technology, Office of Naval Research, Rm. 1818, 17th St. and Constitution Ave. NW., Washington, D.C. 20360. Outlines a coordinated plan for the accomplishment of national goals while pursuing individual agency missions. Part I, a summary of the Fiscal Year 1965 National Oceanographic Program, discusses oceanic research to meet National goals; 1965 plans and budgets; interpretation of the 1965 budget; program management; problems and emerging issues; and other related topics. Part II, a review of the Program and its cost, covers oceanographic effort -- international oceanographic programs, and National services and facilities in oceanographic sciences; oceanographic resources--ships, instrumentation, and manpower and training; and the National budget for oceanography in detail.

- Progress in Oceanography, vol. 1, edited by Mary Sears, 391 pp., illus., printed, 1963, \$15. Pergamo Press, 122 E. 55th St., New York 22, N.Y. Include 5 papers: "Geological investigation of near-shore sand-transport," by E. Seibold; "Electrification of the atmosphere," by D. C. Blanchard; "Suspended of ganic matter in sea water," by T.R. Parsons; "The salinity problem," by R. A. Cox; and "Gulf stream '60," by F. C. Fuglister.
- Recent Oceanographic Expeditions, USSR, OTS 64-21588, 59 pp., illus., printed, February 18, 1964, \$1.50. (Translated from the Russian, Okeanologie vol. 3, no. 3, 1963.) Office of Technical Services U.S. Department of Commerce, Washington, D. C. 20235.)
- <u>Kole of Marine Fungi in the Biochemistry of the Ocea</u> <u>II--Effect of Glucose, Inorganic Nitrogen, and Tris</u> (Hydroxymethyl) Aminomethane on Growth and pl Changes in Synthetic Media, by Peter L. Sguros at Jacqueline Simms, Contribution No. 491, 14 pp., il printed. (Reprinted from Mycologia, vol. LV, no. November-December 1963, pp. 728-741.) Marine Laboratory, Institute of Marine Science, Universit of Miami, 1 Rickenbacker Causeway, Miami 49, F

PERU

"Contribucion al Conocimiento de la Zona de Littor en la Costa Peruana" (Contribution to the Knowlei of the Shallow-Water Zone of the Peruvian Coast by M. Vegas V., article, <u>Anales Científicos</u>, vol. no. 2, July-August-September 1963, pp. 174-193, illus., printed in Spanish with English summary, s gle copy \$2. Universidad Agraria, Departament of Publicaciones, Apartado 456, Lima, Peru.

PHYSIOLOGY:

- Investigation into the Mode of Action of the Lateral Line System of Fish, by E. E. Sucklin and J.A. Su lin, OTS 64-11018, 11 pp., processed, January 8, \$1.10. Office of Technical Services, U.S. Depart ment of Commerce, Washington, D. C. 20230.
- Studies in Gas Metabolism of Cold-Blooded Anima and Migrations and Radioactivity of Certain Mar Animals, USSR, OTS 64-21592, 56 pp., illus., pr February 18, 1964, \$1.50. (Translated from the sian, Zoologicheskiy Zhurnal, November 1963.) fice of Technical Services, U.S. Department of (merce, Washington, D. C. 20235.

PLANKTON:

Feeding of Zooplankton, with Special Reference to Some Experiments with SAGITTA, by M.R. Ree Contribution No. 510, 4 pp., printed. (Reprinted from Nature, vol. 201, no. 4915, January 11, 196 pp. 211-213.) Marine Laboratory, Institute of M rine Science, University of Miami, 1 Rickenback Causeway, Miami 49, Fla.

PRESERVATIVES:

"Effect of Preservatives on Ripening and Keeping Qualities," by L. S. Levieva and S. I. Ivanova, ar <u>Chemical Abstracts</u>, vol. 59, July 22, 1963, 2091 printed. American Chemical Society, 1155 16th NW., Washington 6, D. C.

PROCESSING:

"Recent Advances in Fish Processing Technology R. Spencer and R. B. Hughes, article, Food Mar J 1964

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re, vol. 38, August 1963, pp. 407-412, printed. Fonard Hill, Ltd., Stratford House, 9 Eden Street, andon NW1, England.

FATION:

istosomiasis: Age of Snails and Susceptibility to irradiation," by Alina Perlowagora Szumlewicz, ticle, <u>Science</u>, vol. 144, no. 3616, April 17, 1964, 302-303, printed, single copy 35 cents. Ameri-Association for the Advancement of Science, 15 Massachusetts Ave. NW., Washington, D. C. 105.

IEARCH VESSEL:

port on the Conversion of U.S. Army T-Boat to an Oceanographic Research Vessel, by James bons, OTS 63-10043, 25 pp., processed, Novem-1963, \$2.60. Office of Technical Services, U.S. partment of Commerce, Washington, D. C. 20230.

IR H FISH:

erimental Crappie <u>Removal</u>; Final Report, by nes P. Carter, 18 pp., printed, 1963. Division of sheries, Department of Fish and Wildlife Rearces, New State Office Bldg., Frankfort, Ky.

SELON:

ntic Salmon Journal, no. 1, March 1964, 39 pp., is., printed. Atlantic Salmon Association, 1559 Gregor St., Montreal 25, Canada. Contains, among ers, articles on: "Salmon Spawning Channel," by I. Quigley; "The Atlantic Salmon Commercial hery;" and "Moving Forward in Salmon Conserton," by H. J. Robichaud.

C Dominance in Adams River Sockeye Salmon, F. J. Ward and P. A. Larkin, Progress Report No. 120 pp., illus., processed, 1964. International ific Salmon Fisheries Commission, New Westster, B. C., Canada.

Atlantic salmon frequently survive, return to water, and come back again to fresh-water ning grounds. Halifax, Nova Scotia researchers rying to provide an answer.

of Chinook Salmon Spawning Grounds in the Upalmon River Drainage, 1962, by Ted Bjornn, Corley, and Jerry Mallet, 41 pp., illus., printed, Fisheries Division, Idaho Fish and Game, mission, 518 Front St., Boise, Idaho.

ing for Pacific Salmon," article, <u>Trade News</u>, 16, no. 9, March 1964, pp. 7-9, illus., processed. In ation and Consumer Service, Department of eries, Ottawa, Canada. A pictorial story of the ish Columbia salmon industry.

SHIERS :

of the Family Lamnidae, by G. Brooke Farqu-Translation No. 157, 16 pp., printed, April 1963, ints. U.S. Naval Oceanographic Office, Washn, D.C. 20390. SHRIMP:

"Los Camarones Comerciales de la Familia Penaeidae de la Costa Atlantica de America del Sur: Clave para el Reconocimiento de las Especies y Datos Bioecologicos" (The Commercial Shrimp of the Family Penaeidae of the Atlantic Coast of South America: Key to the Recognition of the Species and Bioecological Data), by Enrique E. Boschi, article, Boletin del Instituto de Biologia Marina, no. 3, February 1963, pp. 1-39, Illus., printed in Spanish. Instituto de Bioiogia Marina, Universidades Nacionales de Buenos Aires, La Plata y del Sur, Mar del Plata, Argentina.

"Greatest Shrimping Grounds in Western Hemisphere," article, The Fish Boat, vol. 9, no. 3, March 1964, pp. 69-139, illus., printed, single copy 50 cents. H. L. Peace Publications, 624 Gravier St., New Orleans 12, La. A group of articles devoted to the new shrimping grounds off northern South America -- Barbados, Paramaribo, St. Laurent, Cayenne, and Georgetown. Includes individual articles on: "U.S. 'Know-How' is Building Greatest Shrimp Fishery in the Western Hemisphere--75,000 Square Miles;" "Deep-Water Harbor, Modern Facilities Aid Newest Bid for Shrimp Business;" "Top Builder: Mr. Standardized Fleet;" and "British Guiana: Marketing 'Know-How,' Standardization Are Major Keys to Continuing Growth." Also presents articles about: "Dutch Guiana: Pioneer in New Fisheries Has Outstanding Plant and Facilities;" "Surinam and French Guiana Plants Boast Modern Freezing Equipment;" "French Guiana: New Plants and Fleets Being Readied in Expansion Program; Henderson Goes from Tangled Jungle to Elab-orate Plant in Single Year;" "Will Fisheries Provide the Basis for Economic Revolution to the South?" by David B. Lord; "Trawlers with Many Novel Fea-tures Joins French Guiana Shrimp Fleet;" and others.

"Management of Marine Resources: Hydrography," by T. B. Ford, article, Louisiana Conservationist, vol. 16, nos. 5 and 6, May-June 1964, pp. 20-22, illus., printed. Louisiana Wild Life and Fisheries Commission, Wild Life and Fisheries Bldg., 400 Royal St., New Orleans, La. 70130. With an understanding of various water conditions in the coastal areas, Louisiana researchers expect to be able to predict in advance production trends for the shrimp industry, determine causes of erratic changes in populations, and develop sound management practices for the commercially important shrimp species.

"Succulent Shrimp," by George Allen, article, <u>Alabama</u> <u>Conservation</u>, vol. XXXIV, no. 1, December 1963-January 1964, pp. 17-19, illus., printed, Alabama Department of Conservation, 64 N. Union St., Montgomery 4, Ala.

SMALL BUSINESS MANAGEMENT:

Accounting and Financial Data for Small Retailers, by Homer A. Brown and Alva A. Cummings, Management Research Summary, 2 pp., processed, 1964. Small Business Administration, Washington, D. C. 20416. An accounting system for small retailers should provide, among other things, a means of: recording all transactions of the business; safeguarding the business from errors and fraud; and controlling operations. Good accounting records are the basis for many analyses that can be helpful in interpreting the results of past opertations and in planning for the

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future. The value of the analyses, however, depends on proper application of their results.

- Export Marketing for Smaller Firms, 101 pp., processed, May 1963, 50 cents. Small Business Admin-istration, Washington, D.C. 20416. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.) With the owner or manager of a small firm lies the ultimate responsibility for the decision to commit his firm's resources toward the search for profits in foreign markets. The successful exploitation of overseas opportunities requires good business planning and judgment coupled with accurate and up-to-date facts about the overseas environment. This report covers these topics: "Measuring Your Export Potential;" "Selection of an Attractive Market for Detailed Analysis;" "Detailed Evaluation of Markets and Requirements for Successful Exporting;" and "Channels of Distribution."
- Financial Facts which Lenders Require, by Selwin E. Price, Management Aids for Small Manufacturers 164, 4 pp., processed, May 1964. Small Business Administration, Washington, D. C. 20416. This leaflet discusses the various kinds of financial facts which lenders require of prospective borrowers when considering a loan. The lending officer bases his judgment upon: (1) The type and nature of business collateral such as accounts receivable and inventory; (2) the company's audited financial statements; (3) the company's sales and cash projections; and (4) the company's operating and financial ratios. He also needs additional information so he can keep abreast of the company's progress during the life of the loan.
- Financing Problems of Small Manufacturers, by Sey-mour Friedland, William A. Dymaza, and Thomas Moranian, Management Research Summary, 2 pp., processed, 1963. Small Business Administration, Washington, D. C. 20416. A summary of a report on financing problems of small producers. Findings of the report identify the basic problem of small-business financing as low net worth resulting from low profitability. The report suggests that more of the resources available for helping small business be applied to this problem. Areas recommended for consideration include counseling of small-business managers, redesigning of some control techniques for small-scale operations, and a mutual fund to facilitate stock financing by small firms.
- Keeping Machines and Operators Productive, by How-Pyle, Management Aid for Small Manufacturers 162, 4 pp., processed, April 1964. Small Business Administration, Washington, D.C. 20416. Plant safety pointers for owner-operators are offered in this leaflet. Points out that false attitudes of supervisors and employers can hamper the owner-manager's accident prevention efforts. Describes the kinds of moving parts of machinery which should be guarded and suggests kinds of guards that can be used to prevent injuries. Sources of help which the owner-manager may find useful in setting up a machine guarding program are also listed.

SMOKING:

"Pretreatment for Smoking Oily Fish," by Minoru Fujii and others, article, Chemical Abstracts, vol. 58, May 27, 1963, 11899b, printed. American

Chemical Society, 1155 16th St. NW., Washington 6. D. C.

SPAIN:

- "Asturias y el Mar en la Estadistica de 1963" (Asturias and the Sea in the 1963 Statistics), by Danie Arbesu, article, Puntal, vol. XI, no. 119, Februar 1964, pp. 23-24, printed in Spanish, Puntal, Apart do de Correos 316, Alicante, Spain.
- "Espana, Primer Pais Pesquero de Europa" (Spain First Fishery Country of Europe), by Fandino, ar cle, Puntal, vol. XI, no. 119, February 1964, pp. 2 illus., printed in Spanish. Puntal, Apartado de Co reos 316, Alicante, Spain.
- "La Industria Espanola de Conservas de Pescado"! (The Spanish Fish Canning Industry), by Antonio A fageme del Busto, article, Informacion Conserver vol. XI, no. 111-112, March-April 1964, pp. 67-7() printed in Spanish, single copy 60 Ptas. (US\$1). I formacion Conservera, Colon, 62, Valencia, Spain

SPINY LOBSTER:

"Spiny Lobster Industry in Southern Africa (An Eco nomic Survey)," by D. J. Soares-Rebelo, article, South African Journal of Science, vol. 60, no. 3, March 1964, pp. 81-87, printed, single copy 50 cen (about 70 U.S. cents). The South African Associa tion for the Advancement of Science, P.O. Box 68 Johannesburg, South Africa Republic. Detailed in formation is given on the thriving spiny lobster in dustry of the Republic of South Africa and of the I dated territory of South-West Africa. Spiny lobst fishing, production, exports, consumption, canning and processing, regulation, conservation measure and economic significance in both those countries are discussed at length.

STANDARDS:

Standards and Requirements for Fish Handling, Pro essing, Distribution, and Quality, by D. D. Tapiad and J. E. Carroz, Fisheries Report No. 9, 255 pp processed, 1963. Fisheries Division, Food and A riculture Organization of the United Nations, Via delle Terme di Caracalla, Rome, Italy. The 11th FAO Conference endorsed under the regular pro gram of the Fish Processing Section, Technology Branch, the preparation of a document on laws a regulations concerning fish handling, processin distribution, and quality control. In addition, it the aim of FAO, in launching the Freedom from ger Campaign, to encourage increased fish proch tion; promote its greater availability; and wider tribution by building up trade in fishery product ensuring improvements in their quality. This r is essentially a study and digest of governmenta codes, laws, and regulations.

ST. PIERRE AND MIQUELON: "St. Pierre et Miquelon Peut Produire du Poisso Surgele au Prix Internationale" (St. Pierre and I quelon are Able to Produce Frozen Fish at the I ternational Price), by H. Clarieaux, article, Frz <u>Peche</u>, no. 81, February 1964, pp. 19, 21-22, ill printed in French. France Peche, Boite Postale Lorient, France.

TRAWLERS:

Some Fundamentals for the Calculation of the M tion of a Trawler with Trawl Gear," by H. Steng

ticle, Fischereiforschung, vol. 5, no. 3, 1962, pp. 14, printed in German. Institut fur Hochseefisrei und Fischverarbeitung, Rostock-Marienehe, Germany.

eterminazione dell'Istamina nei Tonni del Golfo uinea" (The Determination of the Histamine in Tuna of the Gulf of Guinea), by H. Plagnol and Aldrin, article, Industria Conserve, vol. VIII, no. 4, October-December 1963, pp. 321-

illus., printed in Italian, single copy L. 1,500 ut US\$2.40). Industria Conserve, Viale Tanara Parma, Italy.

MIEY: ve Balikcilik (Fish and Fishery), vol. XII, no. 3, The balance of the set of the first and the set of the eries Production in the Food Economy of the

ve Balikcilik (Fish and Fishery), vol. XII, no. 4, 1964, 33 pp., illus., printed in Turkish with ish table of contents and abstracts. Et ve Balik "In table of contents and abstracts, Brive Bark nmu G.M., Balikcilik Mudurlugu, Besiktas, Is-ul, Turkey. Includes articles on: "The Sponge. rt III);" "Fish Pump;" "Basic Researches on the elopment of Fishery in Turkish Fresh Waters, es, and Dams. Part III;" "Used Materials in ing and New Products;" "Israel's Sea Fisheries;" "The New Activities of Processing for the Aim Ore Stability and Situation of High Fish Meal bre Stability and Situation of High Fish Meal uction in the World.

1. A.: 11 be Khoziaistvo, vol. 40, no. 3, March 1964, 96 pp., printed in Russian, single copy 50 Kopecks a, printed in Russian, Single copy of Repetito t 56 U.S. cents). Rybnoe Khoziaistvo, B-140, rasnosel'skaia 17, Moscow, U.S.S.R. Includes, ig others, article on: "The Abundance of Herring a Caspian Sea," by N. I. Kozhin; "Optimal Dos-ed Patienal Use of Second during Incomination nd Rational Use of Sperm during Insemination mon Eggs," by V. Z. Trusov and L. M. Pash-Arsenic as an Indicator of Sanitary and Hyological Conditions of Reservoirs in the Uk-an Steppe," by C. P. Fedii; "Improvement on the Production and Transport Refrigerator ngrad," by A.G. Ionov; "Production of Proc-Herring on the Floating Base Iokhannes "by L. G. Visk; "Vibration Conveyers and ransportation of Fish," by L. M. Stolin and Umantsev; "Mechanization of the Moving Cages oking Houses," by G. E. Akhalkov and E. A. 'ian; "New Types of Canned Fish Products: and Vegetables Canned with Georgian-Type s," by L.E. Tsuladze; "The Determination of evel of Mechanization of the Basic Production shery Plants," by I. Mogilevskii and M. Shuva-and "The Profile of a Mechanical Engineer alized in the Fishing Industry," by Iu. B. Iudo-

--Milan A. Kravanja

Sin Fishermen Initiate Socialist Competition to Fish Catches, USSR, OTS 64-21597, 6 pp.,

illus., printed, February 19, 1964, 50 cents. (Translated from the Russian, Pravda, January 25, 1964.) Office of Technical Services, U.S. Department of Commerce, Washington, D.C. 20235.

- "Sovjets Fiske i Stark Utveckling; Systematisk Forskning Visar Vagen" (Strong Development in Soviet Fisheries; Systematic Research Finds its Way), article, Svenska Vastkust Fiskaren, vol. 34, no. 5, March 1964, pp. 96-97, illus., printed in Swedish. Svenska Vastkustfiskarnas, Ekonomiutskottet Postbox 1014, Goteborg 4, Sweden.
- The following processed reports are for sale by the Office of Technical Services, U.S. Department of Com-merce, Washington, D.C. 20230, at 50 cents a copy.
- Age of the Ob Whitefish (COREGONUS MUKSUN) and Some Problems in Theory, by V.V. Barsukov, OTS 63-1110, 7 pp., 1963. (Translated from the Russian, Zoologicheskii Zhurnal, vol. 39, no. 10, 1960, pp. 1525-1530.)
- Feeding and Food Relationships of Predatory Fishes in the Northern Part of the Rybinsk Reservoir, by E. S. Zadul'skaya, OTS 63-11127, 57 pp., 1963. (Translated from the Russian, Trudy Darvinskogo Gosudarstvennogo Zapovednika, no. 6, 1960, pp. 345-405.)

Effect of Temperature on the Embryonic Development of the Pike, the Blue Bream (ABRAMIS BALLERUS L.) and the White Bream (BLICCA BJOERKNA L.), by V. M. Volodin, OTS 63-11124, 7 pp., illus., 1963. (Translated from the Russian, <u>Trudy</u> Instituta Bio-logii Vodokhranilishch, vol. 3, no. 6, 1960, pp. 231-237.)

- Sanitation Bacteriological Control Analyses in the Fish Preserving Industry, by Yu. A. Ravich-Shcherbo, OTS 63-11119, 4 pp., 1963. (Translated from the Russian, Voprosy Pitaniya (Morskva), vol. 19, no. 5, 1960, pp. 79-82.)
- Symposium on Problems Related to the Population Dy-namics of Commercial Animals, by G. B. Nikol'skii, OTS 63-11117, 4 pp., 1963. (Translated from the Russian, Zoologicheskii Zhurnal, vol. 36, no. 11, 1960, pp. 1747-1750.)

VIRGINIA:

64th and 65th Annual Reports of the Commission of Fisheries of Virginia (for the Fiscal Years Ending June 30, 1962 and June 30, 1963), 32 pp., illus., printed. Commission of Fisheries, Newport News, Va. Discusses enforcement and personnel, work of the engineering Department, Potomac River activities, fishery statistical collection, and oyster research. Also covers accomplishments by the commission in conservation and rehabilitation, pollution control, fishery legislation, and other areas. Statistical tables present data showing receipts from the fish and oyster industry, by districts; recorded oyster planting grounds; and other related information.

VITAMIN A:

'Vitamin A Enriched Fish Sausage, I--A Determination of Vitamin A Enrichment in Fish Sausage, and Loss of Vitamin A during Manufacturing and Storage," by Masao Hasegawa and Tomiyo Nishimura, article,

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Chemical Abstracts, vol. 58, May 27, 1963, 1189d, printed. American Chemical Society, 1155 16th St., NW., Washington 6, D.C.

WHALING:

International Whaling Statistics, no. LII, 48 pp., printed, 1964. Det Norske Hvalrads Statistiske Publikasjoner, Oslo, Norway. Results of the whaling operations in the Antarctic during the season 1962/63. Includes statistical tables on whaling operations of Japan, the Netherlands, Norway, United Kingdom, and the U.S.S.R.; average size of whales caught; and number of whales caught, by species, sex, and size. Also includes data on average production of oil per blue-whale unit.

"Whale Marking Cruises in New Zealand Waters Made between August and December 1963," by D. E. Gaskin, article, <u>Norsk Hvalfangst-Tidende</u> (The Norwegian Whaling Gazette), vol. 53, no. 2, February 1964, pp. 29-41, illus., printed. Hvalfangerforeningen, Sandefjord, Norway. Whaling: Amendments to the Schedule to the Intern tional Whaling Convention Signed at Washington on December 2, 1946 (Adopted at the Fifteenth Meet ir of the International Whaling Commission, London, July 5, 1963), Treaties and Other International Acts Series 5472, 3 pp., printed, 1964, 5 cents. D partment of State, Washington D. C. (For sale by t Superintendent of Documents, U.S. Government Pp ing Office, Washington, D. C. 20402.)

CORRECTION

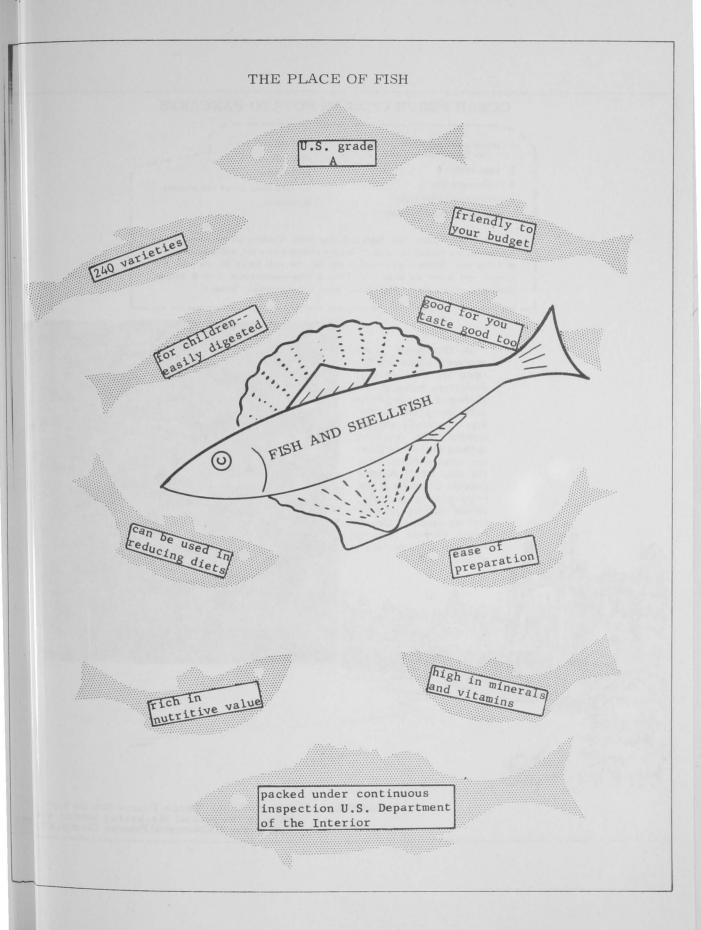
In the February 1964 issue, page 99, article, "A Study of Redfish, <u>Sciaenops ocellata</u> (Linnaeus) and Black Drum, <u>Pogonias cromis</u> (Linnaeus)," the address of the publisher of the <u>Publications of the In-</u> <u>stitute of Marine Science</u>, was given in error. The correct address is Institute of Marine Science, University of Texas, Port Aransas, Texas.

FISHERIES IMPORTANT TO UNITED STATES

The fisheries of America have played a unique part in this country's economy since its founding. John Cabot, returning to England in 1498 from North America, stated that "the sea there is swarming with fish which can be taken not only with the net, but in baskets let down with a stone." Historians record that the founders of the Plymouth Colony came to America to serve God and to catch fish.

The colorful New Bedford and Nantucket whaling fleets ranging the oceans of the world in the 19th century were a large factor in forming the bonds which eventually joined Hawaii to the United States. The great salmonfisheries have been a principal support of Alaska through the years and have been a greater source of wealth than all the gold produced there since the Alaska gold rushes began. During World War II, the spectacular tuna clipper fleet furnished the ships and the men which maintained contact with our beleaguered troops during their initial days of perilously slight foothold on the Solomon Islands, and these same fishing boats helped supply small island garrisons throughout the vast reaches of the Pacific during the entire war. U. S. trawlers and purse seiners also went to war as minesweepers and patrol vessels.

> --Excerpt from Trident--A Long Range Report of the Bureau of Commercial Fisheries, Circular 149.



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