



## FISH AND WILDLIFE SERVICE PUBLICATIONS

THESE PROCESSED PUBLICATIONS ARE AVAILABLE FREE FROM THE DIVISION OF INFORMATION, U. S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C. TYPES OF PUBLICATIONS ARE DESIGNATED AS FOLLOWS:

- CFS - CURRENT FISHERY STATISTICS OF THE UNITED STATES AND ALASKA.  
 SL - STATISTICAL SECTION LISTS OF DEALERS IN AND PRODUCERS OF FISHERY PRODUCTS AND BYPRODUCTS.  
 MDL - MARKET DEVELOPMENT LISTS.  
 SSR.- FISH. - SPECIAL SCIENTIFIC REPORTS--FISHERIES (LIMITED DISTRIBUTION).  
 SEP.- SEPARATES (REPRINTS) FROM COMMERCIAL FISHERIES REVIEW.

Number	Title
CFS-1186	California Landings - May 1955, 4 pp.
CFS-1215	New York Landings - August 1955, 4 pp.
CFS-1216	Frozen Fish Report - September 1955, 8 pp.
CFS-1218	Fisheries of the United States and Alaska, 12 pp.
CFS-1221	Rhode Island Landings - August 1955, 3 pp.
CFS-1223	Fish Stick Report - July-Sept., 2 pp.
CFS-1224	Florida Landings - August 1955, 6 pp.
CFS-1227	Alabama Landings - August 1955, 2 pp.
CFS-1231	Mississippi Landings - August 1955, 2 pp.
CFS-1232	Fish Meal and Oil - September 1955, 2 pp.
CFS-1234	Manufactured Fishery Products - 1953, 7 pp.
CFS-1226	New York Landings - September 1955, 5 pp.

### Wholesale Dealers in Fishery Products (Revised):

- SL - 21 - California-1955, 11 pp.  
 SL - 27 - Indiana-1955, 1 p.  
 SL - 30 - Pennsylvania-1955 (Lake Erie) 1 p.  
 SL - 162 - List of Firms Producing Fish Sticks-1954, 2 pp.  
 SL - 31 - New York-1955 (Lakes Area), 1 p.

### Market Development Lists (Revised):

- MDL- 5 - Georgia Locker Plants, 3 pp.  
 MDL-33 - Arizona Locker Plants, 2 pp.  
 MDL-36 - Arkansas Locker Plants, 3 pp.  
 MDL-37 - Connecticut Locker Plants, 2 pp.  
 MDL-38 - Delaware Locker Plants, 1 p.  
 MDL-39 - Florida Locker Plants, 2 pp.  
 MDL-48 - Alabama Locker Plants, 2 pp.

Sep. No. 422 - Construction Details of Improved Tuna Long-Line Gear Used by Pacific Oceanic Fishery Investigations.

Sep. No. 423 - Research in Service Laboratories (December 1955):

- Cold Storage of Frozen Pacific Oysters (*Crasostrea Gigas*) - No. 1.  
 Oil Research Project at the Seattle Technological Laboratory.  
 Federal Specification for Canned Shrimp.

SSR-Fish. No. 162 - Size Frequencies and Growth of Central and Western Pacific Bigeye Tuna, by Edwin S. Iversen, 146 pp., illus., processed, September 1955.

THE FOLLOWING SERVICE PUBLICATIONS ARE AVAILABLE ONLY FROM THE SPECIFIC OFFICE MENTIONED:

Differences in Intensity of Setting of Oysters and Starfish, by V. L. Loosanoff, J. B. Engle, and C. A. Nomejko, 7 pp., illus., printed. (Reprinted from Biological Bulletin, vol. 109, no. 1, pp. 75-81, August 1955.) (Available from U. S. Fish and Wildlife Service, Milford, Conn.)

Production of Fishery Products in Selected Areas of Virginia, Maryland, and North Carolina, 1954 (As Reported to Hampton Fishery Market News Office), by Lester A. Keilman, 18 pp., processed, December 1955. (Available free from the Market News Service, U. S. Fish and Wildlife Service, 18 S. King St., Hampton, Va.) A summary of commercial landings of fish and shellfish and the production of crab meat and shucked oysters as reported by producers and wholesalers from selected principal fishing localities of Virginia, Maryland, and North Carolina. The statistics contained in this annual summary represent the approximate commercial fisheries production only and do not represent complete commercial landings or production for a given area, individual State, or the Chesapeake Bay area as a whole. However, the statistics do give an indication as to the trend in fisheries production for the specific areas designated and do reflect the over-all production trend by species, localities, and by States.

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Distribution and Food Habits of the Fur Seals of the North Pacific Ocean (Report of Cooperative Investigations by the Governments of Canada, Japan, and the United States of America, Feb. - July 1952), by F. H. C. Taylor, M. Fujinaga, and Ford Wilke, 86 pp., illus., printed, 50 cents, 1955.

Fish and Shellfish Preferences of Household Consumers, by W. H. Stolting, M. J. Garfield, and D. R. Alexander, Research Report 41, 118 pp.,

illus., printed, 65 cents, 1955. This report is an analysis of a nationwide survey in October 1951 of household consumers' preferences for fresh and frozen fishery products. The survey was conducted under the auspices of the U. S. Fish and Wildlife Service to aid the Nation's fishing industry, which is composed largely of small firms and individuals that find it difficult to make adequate contacts with consumers. Of the 2,473 persons interviewed in the survey, 94.4 percent indicated that their households had used some kind of fishery product in the 12-months period preceding the interview, and only 5.6 percent had used none. Detailed information on the specific likes and dislikes relative to the various fishery products also was obtained.

The Seals, Sea-Lions, and Sea Otter of the Pacific Coast, by Karl W. Kenyon and Victor B. Scheffer, Circular 32, 34 pp., illus., printed, 20 cents, April 1955. Brief identification key (including drawings and photographs) for seals, sea lions, walrus, and sea otter of the Pacific from Mexico to Point Barrow and the Hawaiian Islands.

## MISCELLANEOUS PUBLICATIONS

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

"Adson Casey, Commercial Fisherman," article, Michigan Conservation, vol. XXIV, no. 4, July-August 1955, pp. 15-18, illus., printed. Michigan Department of Conservation, Lansing, Mich. Describes and illustrates with a group of pictures the activities of a commercial fisherman in the Great Lakes fisheries.

La Anchoveta y la Harina de Pescado (The Anchovy and Fish Meal), 57 pp., illus., printed in Spanish. Sociedad Nacional de Pesqueria, Avenida Wilson 911, Lima, Peru, 1954. One section of this report discusses the fish meal industry of Peru.

Arsmelding 1953 fra Fiskeridirektoratets Kjemisk-Tekniske Forsknings-institutt (Annual Report of the Norwegian Fisheries Research Institute for 1953), by E. Heen, 52 pp., printed in Norwegian. A. S. John Griegs Boktrykkeri, Bergen, Norway, 1955. A summary of the research work carried out at the Norwegian Fisheries Research Laboratory during 1953 covering the following subjects: preservation of herring for reduction purposes by means of NaNO<sub>2</sub>; packaging materials; fresh and frozen fish; herring products; fish meal; fish oils; and chemical composition of fish and fish products. The report ends with a summary of the work on vitamins and a description of different machines and production methods in the manufacture of meal from herring and other fish.

Australian Journal of Marine and Freshwater Research, vol. 6, no. 3, October 1955, 174 pp., illus., printed, single copy 7s. 6d. (85 U. S. cents). Australian Journal of Marine and Freshwater Research, Commonwealth Scientific and

Industrial Research Organization, East Melbourne, C. 2, Victoria. Includes, among others, the following article: "Underwater Studies on the Tasmanian Commercial Scallop, Notovola meridionalis (Tate) (Lamellibranchiata: Pectinidae)," by A. M. Olsen.

Bremerhaven, Der Fuhrende Fischereihafen (Bremerhaven, the Leading Fish Harbor), 224 pp., illus., printed in German. Internationale Verlags-Gesellschaft, Robert Bargmann (publisher), Bremen, W. Germany, 1953. Deals with the fishing activities at Bremerhaven. Discusses the economic aspects of the fishing industry and fishing enterprise; reconstruction of the Bremerhaven fish harbor; development and duties of the Bremerhaven Port Trust; and Bremerhaven, the most important of German fish harbors; and gives a description and plan of the harbor. Describes the various species of fish landed, and discusses echo sounders, the wholesale handling of coastal fish, marketing, and processing of fish.

Bulletin of the International Oceanographic Foundation, vol. 1, no. 3, November 1955, 65 pp., illus., printed. The Marine Laboratory, University of Miami, Coral Gables, Fla. Includes, among others, the following articles: "Radioactivity in Ocean Science," by T. C. Helvey; "Scripps in the Present Tense," by Thomas A. Manar; "Measuring the Ocean," by Lansing Wagner; "Set a Fish to Catch a Fish."

Les Crustaces Comestibles des Mers Tunisiennes et Leur Peche (The Crustaceans of the Tunisian Waters and Their Fisheries), by Henri Heldt and Jeanne H. Heldt, Annales No. IX, 26 pp., illus., printed in French. Station Oceanographique de Salamambo, Tunis, Tunisia, March 1954. The purpose of this report is to indicate the species of edible crustaceans which are found in Tunisian waters, furnish some basic data on their biology, indicate the type of bottom where they are found, and the types of gear used to catch them.

Enlatado, Curado y Otros Metodos de Preservacion del Pescado y Elaboracion de Sub-productos (Canning, Curing and Other Methods of Fish Preservation and Utilization of Byproducts), by A. Lopez Matas, 182 pp., illus., printed in Spanish. Food and Agriculture Organization of the United Nations, Rome, Italy, 1954. Contains the text of lectures on fisheries technology given at the First FAO Latin American Fisheries Training Center in Valparaiso, Chile, in 1952. The booklet is divided into two parts and the following chapters: Part I--(1) Historical Outline and Basic Principles; (2) Spoilage of Canned Food; (3) Sterilization of Canned Foods; (4) Fish Canning; (5) Operations Involved in Canning of Fish; (6) Containers and Packages; (7) Fish Canning Machinery; (8) Canning Methods; (9) Canning of Shellfish; (10) Special Canned Products; (11) Products Packed in Hermetically Sealed Containers without Sterilization; (12) Analysis and Inspection of Canned Fisheries Products; (13) Nutritive Value of Canned Fisheries Products; (14) Products from Dried Fish; (15) Drying of Fish without Salting; (16) Salting of Fish; (17) Brined and Pickled Fish; (18) Smoking of Fish; (19) Caviar and Other Products from Fish Roe; and (20) Products from Fermented Fish.

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- Part II--(1) Production of Fish Meal and Oil; (2) Fish Oils; (3) Fish Liver Oils; (4) Production of Albumen from Fish; (5) Manufacture of Adhesives from Fish; and (6) Products from Seaweeds.
- (FAO) Bacterial Fish Spoilage and its Control, by Ernest Hess, FAO Fisheries Papers No. 4, 11 pp., processed. (Reprinted from Food Technology, vol. IV, no. 12, pp. 477-480, 1950.) Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, May 1955.
- (FAO) Economic Influence on Design of Fishing Craft, by C. Beever, FAO Fisheries Papers No. 3, 8 pp., processed. (Reprinted from Fishing Boats of the World, Fishing News, Arthur Heighway Publications Limited, Ludgate House, 110 Fleet St., London E. C. 4) Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, April 1955.
- (FAO) Fishing Boat Tank Tests, Part I, compiled by Jan-Olof Traung, 168 pp., illus., processed. Food and Agriculture Organization of the United Nations, Rome, Italy, November 1955. A catalogue of fishing-boat tank-test results intended for naval architects to enable them to predict, with few calculations, the required power for new designs and, at the same time, allow them to study influence of varying proportions, coefficients, etc., upon resistance and power requirements. At the 1953 FAO International Fishing Boat Congress a paper entitled "Outline to a Catalogue of Fishing Boat Tank Tests" was presented in which the results from a number of resistance tests were given. The general opinion of the participants at the Congress was that a continued publication of such fishing-boat tank-test results would be a useful service to naval architects. The "Outline" catalogue contained 46 data sheets. The first part of the present catalogue contains an additional 104 sheets, and it is presented in looseleaf form so that additional sheets may be added at any time. The data sheets cover models with both high and low specific resistance and a wide variety of types.
- (FAO) The Food Technologist and the World Food Crises, by Mogens Jul, FAO Fisheries Papers No. 5, 10 pp., processed. (Reprinted from Food Technology, vol. 3, no. 9, pp. 279-283, 1949.) Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, May 1955.
- (FAO) Improving the Fisheries Contribution to World Food Supplies, FAO Fisheries Papers No. 1, 25 pp., illus., printed. (Reprinted from FAO Fisheries Bulletin, vol. VI, no. 5, Sept.-Oct. 1953) Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, April 1955.
- (FAO) Index to FAO Fisheries Bulletin Vol. VII, 4 pp., printed. (Reprinted from FAO Fisheries Bulletin, vol. VII, no. 4, October-December 1954.) Food and Agriculture Organization of the United Nations, Rome, Italy.
- (FAO) Lists of (A) Manufacturers of Nylon Yarn and Other Artificial Fibers; (B) Manufacturers and/or Suppliers of Nets, Nettings and Twines made of Nylon or Other Synthetic Fibers; and (C) Manufacturers and/or Suppliers of Fishing Lines made of Nylon or Other Synthetic Fiber Materials, FAO/55/11/7294, 14 pp., processed. Food and Agriculture Organization of the United Nations, Rome, Italy, November 1955.
- (FAO) A Note on the Fisheries Resources of the North West Atlantic, by G. L. Kesteven and S. J. Holt, FAO Fisheries Papers No. 7, 12 pp., illus., processed. A paper submitted at the Fifth (1955) Session of the International Commission for the Northwest Atlantic. Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, June 1955.
- (FAO) The Problem of the Introduction of Foreign Species into Inland Waters--Both Natural and Cultivated Species, FAO Fisheries Papers No. 2, 12 pp., processed. Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, March 1955. Combines three papers entitled "Some Notes on the Principles of Inland Fisheries Management and Development, with Special Reference to the Problem of Introduction;" "Notes on the Freshwater Fish Fauna of Middle Central America, with Especial Reference to Pond Culture of Tilapia," by George S. Myers; and "Destroying a Myth."
- (FAO) Report to the Government of Pakistan on the Mechanization of West Pakistan Fishing Boats, FAO Report No. 403, 128 pp., illus., processed. Food and Agriculture Organization of the United Nations, Rome, Italy, September 1955. It is generally agreed that West Pakistan fishing boats were well built and manned by enterprising fishermen who go far out to sea and land good catches. However, it was questioned by the Pakistan government whether or not certain European or American fishing boats were more efficient than those used in Pakistan. A survey made by FAO's naval architect in 1951 indicated that the Pakistan boats were of an unusually advanced design, complying with modern laws of naval architecture, and it was felt that the mere introduction of boats from abroad would not necessarily result in a more efficient fleet than could be obtained by mechanizing the local boat types and modifying them slightly, so as to make them more suitable for fishing with modern gear and methods. This report includes general observations on West Pakistan fishing boats and discussions of the mechanization of available boats and construction of new boats. It also includes a reprint of the article entitled "West Pakistan Fishing Craft," by M. Rahimullah Qureshi, Henry Magnusson, and Jan-Olof Traung; and "A Note on Financial Assistance Schemes for the Purchase and Improvement of Fishing Craft," by C. Beever, FAO Fisheries Economist.

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(FAO) Some Basic Economic Problems of Fishery Development in South and East Asia, FAO Fisheries Papers No. 6, 12 pp., illus., processed. Discusses problems of fishery expansion and fish marketing. Based on papers presented at the FAO Regional Consultation on the Selective Expansion of Agricultural Production and Consumption, Ceylon, June 20-25, 1955. Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, June 1955.

(FAO) Yearbook of Fishery Statistics, 1952-53 (Annuaire Statistique des Peches, Anuario Estadístico de Pesca), vol. IV, Part 1, 1954 Supplement, 76 pp., processed, in English and French with table of contents and introduction in Spanish. Food and Agriculture Organization of the United Nations, Rome, Italy, 1955. This 1954 Supplement brings up to date Section I (Catch and Landings) of Volume IV, Part I of the Yearbook of Fishery Statistics, except for table 2 and tables 16-19. Since the issue of the Yearbook, 1954 landing statistics have been received from many countries including most of the principal producers (among them, for the first time, the U.S.S.R.), as well as revisions of earlier data, particularly for the year 1953. The supplement contains summaries of catch and landings of fishery products, and quantity and value of landings by countries and by species for 1938, 1947-54.

(FAO) Yearbook of Fishery Statistics, 1952-53 (Annuaire Statistique des Peches, Anuario Estadístico de Pesca), vol. IV, Part 2 (International Trade; Commerce International: Comercio Internacional), 342 pp., printed in English and French with introduction, table of contents, and general notes in Spanish, US\$3. Food and Agriculture Organization of the United Nations, Rome, Italy, 1955. (Also available from Columbia University Press, International Documents Service, New York 27, N. Y.) Part 2 (International Trade) completes the Yearbook of Fishery Statistics, 1952-53. Part I (Production and Craft) appeared earlier in 1955. The time series in Part 2 is confined generally to the 5 postwar years, 1949-53, which, wherever possible, are compared with a single prewar year, usually 1938. For most of the countries, figures for other years may be found in preceding editions of the Yearbook, particularly the third issue (1950-51). Section I contains 3 summaries showing world trade in fishery products by continent and commodity. Twelve summary tables are presented in Section II--one for each of the commodity groups. These show country totals and continental and world aggregates of quantities and values. The 5 tables appearing in Section III present imports and exports of certain fishery products which, although included in the tables of Section II as components of the respective commodity groups, are shown individually because of their relative international significance. The last 6 Sections, IV-IX (one for each continent), present, for each of the 110 customs territories, listed in the English alphabetical order, a table showing the imports and exports of fishery products. These country tables give the quantities and values

for the detailed items appearing in the national publications. These items, broken down for the quantities by country of origin and destination are arranged by commodity groups.

Fish and Wildlife, The Story of the Work of the U. S. Fish and Wildlife Service, C. B. Colby, 48 pp., illus., printed, \$1.25. Coward-McCann, Inc., New York, N. Y., 1955.

Fishes of the Family Percophididae from the Coasts of Eastern United States and the West Indies, with Descriptions of Four New Species, by Isaac Ginsburg, 17 pp., illus., printed. (Reprinted from Proceedings of the United States National Museum, vol. 104, no. 3347, pp. 623-639.) Smithsonian Institution, U. S. National Museum, Washington, D. C., 1955.

Fishes of the Gilbert Islands, by John E. Randall, Atoll Research Bulletin No. 47, 258 pp., illus., processed. The Pacific Science Board, National Academy of Sciences, National Research Council, Washington, D. C., August 31, 1955.

Florida's Commercial Fisheries, by Carter C. Osterbind with the assistance of Elise C. Jones, State Economic Studies No. 7, 175 pp., illus., printed, \$3. Bureau of Economic and Business Research, College of Business Administration, University of Florida, Gainesville, Fla., 1955. A study in four parts of the marketing practices of Florida's commercial fisheries, the location of markets, production and production methods, economic developments, and economic importance. Part I discusses Florida's out-of-state seafood markets, covering the important markets, the scope of the consumer market, consumer preferences and practices influencing seafood markets, and role and influence of buyers in central wholesale markets. Part II discusses commercial fishing operations: practices, production, and costs; and points out the characteristics of the fishing operations and of the individual firms involved in these operations. It also illustrates the extent to which these characteristics are responsible for the problems under discussion and suggests adaptations necessary to meet the need for better marketing practices. Part III discusses the economic developments of the fisheries of Florida, showing (1) the broad outlines of the development from 1880 (the earliest date for which statistics are available) to 1953; (2) certain regional characteristics of the early and more recent developments; and (3) annual characteristics of the landings for the 15-year period from 1939 to 1953. Part IV discusses the economic importance of Florida's fisheries and the outlook for the future. Appendix I summarizes the replies to questions raised in interviews with Atlanta and Birmingham seafood wholesalers and chain-store buyers. Appendix II describes the survey of the Florida fisheries and the sampling procedure. Appendices III and IV give statistical data on the production and value of Florida's fisheries.

"Fluctuations in Abundance of the Giant Scallop, Placopecten magellanicus (Gmelin), in the Digby Area of the Bay of Fundy," by L. M. Dickie,

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article, Journal of the Fisheries Research Board of Canada, vol. XII, no. 6, 1955, pp. 797-857, illus., printed. Fisheries Research Board of Canada, Ottawa, Canada. Fluctuations in total landings and in catch per boat have characterized the Digby scallop fishery since it began in 1920. An analysis of records of the fishery indicates that, although changes in fishing methods have been partly responsible for early changes in catch, their influence in recent years has been small and changes in abundance have been primarily responsible for fluctuations in the fishery since it reached its full development in the mid-thirties. Changes in abundance are assessed from analyses of catch records, special "census fishing" techniques, submarine photography, and marking experiments. Estimates from the different methods correspond. Scallops are recruited into the catchable population as six-year-old year-classes. Abundance is high when these recruited year-classes are strong, but is low when they are weak. Abundance in any year is correlated with water temperature six years previously. Both abundance and the strength of individual year-classes are correlated with water temperatures which prevailed at the time the scallops were present as pelagic larvae. It is concluded that changes in the abundance of the catchable scallop stocks result from the combined action of temperature and circulation on the pelagic larvae. Low temperatures retard larval development, and are indicative of the great exchange of water in the Bay of Fundy with outside water masses. This apparently leads to heavy losses of the larvae from the Bay, poor sets on the parent beds, weak year-classes, and low abundance of the catchable stocks of six years later. High temperatures speed larval development and are indicative of a closed Fundy circulation which holds the larvae in the vicinity of the parent beds. This leads to good sets, strong year-classes, and high abundance of the catchable stocks six years later.

Frogs of Southeastern Brazil, by Doris M. Cochran, Bulletin 206, 423 pp., illus., printed, \$2. Smithsonian Institution, Washington 25, D. C., 1955.

The General Agreement on Tariffs and Trade, Negotiations Under the Trade Agreement Act of 1934 as Amended and Extended (Supplemental Notice of U. S. Intention to Negotiate; Supplemental List of Products to be Considered; Notice of Supplemental Public Hearings by Committee for Reciprocity Information), Department of State Publication 6183, Commercial Policy Series 153, 19 pp., processed, 15 cents. Department of State, Washington, D. C., December 1955. (For sale by the Superintendent of Documents, Government Printing Office, Washington 25, D. C.)

Highway to the North, by Frank Illingworth, 293 pp., illus., printed, \$7.50. Philosophical Library, Inc., 15 E. 40th St., New York 16, N. Y. The author, a Briton, details his experiences in this travelog of his journey (in reality, a report of 2 separate journeys) from his London home to the Arctic wasteland of North America.

Although the book purports to be an account of people and places, the author admits of "inaccuracies which can creep into a book," and they do. From Dawson Creek in British Columbia, Canada, the author's journeys take him 1,500 miles via the Alaska Highway to Whitehorse in Yukon Territory, and to Fairbanks, Alaska. By air, visits are made to other places in Alaska, notably Kotzebue, a picturesque Eskimo village, headquarters for several "white" traders. Like numerous others who have journeyed to Alaska and the Arctic to see and learn for himself, Frank Illingworth tells of numerous old timers and their colorful recollections. Little mention is made of fish or fisheries or the resources of the northern seas. Some mention is made of fishing through the ice for tomcod, a small species of codfish commonly used as food for both the Eskimos and their dogs.

--N. B. Wigutoff

How to Collect Shells, 75 pp., printed, \$1. American Malacological Union, Marinette, Wis., 1955.

(ICA) Operations Report, November 16, 1955, FY 1955, Issue No. 4, 114 pp., illus., processed. Statistics and Reports Division, Office of Research, Statistics and Reports, International Cooperation Administration, Washington 25, D. C. In addition to the usual tables and data, discusses The Mutual Security Program for Fiscal Year 1956.

Mammals, A Guide to Familiar American Species, by Herbert S. Zim and Donald F. Hoffmeister, (A Golden Nature Guide), 160 pp., illustrated by James Gordon Irving in color, printed, \$1.95. Simon and Schuster, New York, N. Y. Consists principally of illustrations with descriptive text and includes among the many mammals, sea mammals such as porpoises, dolphins, and whales.

Memoirs of the Faculty of Fisheries, Hokkaido University, vol. 3, no. 1, 93 pp., illus., printed. Contains this paper: "Studies on the Proteins of the Meat of Sea Cucumber (*Stichopus japonicus* Selenka)" by E. Tanikawa. The Faculty of Fisheries, Hokkaido University, Hakodate, Japan, 1955.

Mesa Redonda Sobre la Industrializacion de los Recursos Marinos Cubanos (Round Table on the Industrialization of the Marine Resources of Cuba), Mayo 27, 28 y 29, 1955, processed in Spanish. Departamento de Publicidad y Actividades Sociales, Universidad de Oriente, Santiago, Cuba. Includes, among others, the following articles: "Sugerencias para el Mejoramiento de las Artes y los Metodos de Pesca en Cuba," by Jose A. Suarez Caabro; "Los Factores Geograficos en la Produccion Pesquera," by Dr. Gerardo A. Canet; "Peces Comestibles y Comerciables de Cuba," by Luis Howell Rivero; "Biologia y Tecnologia en la Industria del Ostion," by Isabel Perez Farfante; "Informe Sobre las Investigaciones Realizadas con Algas Marinas Cubanas Industrializables," by Felix Solonis; "Resultados de la Primera Investigacion Sobre Posibilidades Industriales

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con Algas Marinas de las Costas de la Provincia de Oriente," by M. Diaz-Piferrer; "Necesidad de Incluir en los Programas de Estudios de las Escuelas Cubanas los Temarios Sobre Biología Marina," by Dr. Manuel W. Aguilera Barciela; and "Importaciones Cubanas de Pescado," by Dr. Byron White.

Peces Comunes de la Costa Peruana (Common Fish of the Peruvian Coast) Serie de Divulgacion Cientifica no. 6, 123 pp., illus., processed in Spanish. Ministerio de Agricultura, Direccion de Pesqueria y Caza, Lima, Peru, 1955. Shows a sketch, the common English and Spanish names, scientific name, and a short description of each species included.

Philippine Fisheries Yearbook, 1953, 343 pp., illus., printed. Bureau of Fisheries, Manila, Philippines. This is the initial number of the Philippine Fisheries Yearbook. It is intended to help bring about greater expansion and improvement in the fishing industry and thus increase its usefulness by increasing opportunities for employment and making the Philippines--a fish-consuming country--self-sufficient in fish. The Yearbook contains many interesting articles, some of which are: "The Economic Significance of the Introduction of Tilapia in the Philippines;" "Culture Tilapia--for Food and Profit;" "A New Opportunity for Filipinos: Trawling in Oceanic Waters;" "Conversion of LCM's for Otter Trawl and Basnig Fishing;" "Electronic Fish Finder;" "Handling and Processing of Some Fisheries Products in Southern Philippines;" "Know the Food Value in Your Favorite Fish;" "Fisheries Statistics of the Philippines, 1952;" "Philippine Commercial Fishing Craft & Gear;" and "Common Philippine Market Fish." A directory of the Philippine fishing industry, containing the names of manufacturers and dealers, etc., is also included.

Reptiles and Amphibians, A Guide to Familiar American Species, by Herbert S. Zim and Herbert M. Smith. (A Golden Nature Guide), 157 pp., illustrated by James Gordon Irving in color, printed, \$1.50. Simon and Schuster, New York, N. Y. Consists chiefly of illustrations with descriptive text and includes turtles, frogs, alligators, and crocodiles.

"Småtrålnernes lønnsomhet, 1954," by Arthur Holm, article, Fiskets Gang, vol. 41, no. 45, November 10, 1955, pp. 598-603, printed in Norwegian with summary in English. Fiskeridirektøren, Postgjørd nr. 661 81, Bergen, Norway. The cost investigations of Norwegian trawlers of less than 300 gross tons are based on samples of accounts collected from the shipowners.

A Technique for the Spectral Analysis of Sound in the Ocean, by Paul Ferris Smith, Joseph D. Richard, and Frank H. Stephens, Contribution No. 143, 6 pp., illus., printed. (Reprinted from Transactions, American Geophysical Union, vol. 36, no. 3, June 1955, pp. 413-418) Marine Laboratory, University of Miami, Coral Gables, Fla. A method is given for presenting a continuous quantitative spectrum of sound in the ocean. A more detailed spectrum is obtained

than from previous methods with the advantage of convenient and rapid operation. The technique has proved useful in the analysis of sub-surface oceanic sounds, examples of which are given, and will facilitate the analysis of oceanographic noise spectra of meteorological, biological, or volcanic origin. The method is based upon a modification and adaptation of a commercially-available heterodyne type sonic analyzer with cathode ray tube presentation. Provisions for photographic recording have been added.

The Tohoku Journal of Agricultural Research, vol. 5, no. 4, 111 pp., illus., printed, March 1955. Faculty of Agriculture, Tohoku University, Sendai, Japan. Contains, among others, the following articles: "Studies on the Protein Hydrolysis for the Lysine Estimation in Feed," by F. Kondo and T. Hatano; "Ecology of Oyster Bed. I. On the Decline of Productivity Due to Repeated Cultures," by S. Ito and T. Imai; and "Fatty Acids Composition of Sauri Oil by Spectrophotometric Method," by Y. Tsuchiya and M. Kayama.

(Union of South Africa) Twenty-Fifth Annual Report of the Division of Fisheries, Department of Commerce and Industries (For the Period 1st April, 1953--31st March, 1954), by Dr. J. M. Marchand, 162 pp., printed. (Reprint from Commerce & Industry, July 1955.) The Government Printer, Pretoria, South Africa, 1955. A review of the deep-sea and inshore fisheries of South Africa, with special reference to trawling; whaling; and the pilchard, rock lobster, and line fisheries. Contains also chapters on research at sea and ashore, fishing harbors, and the pilchard research program.

Water, The Yearbook of Agriculture 1955, 751 pp., illus., printed, \$2.00. U. S. Department of Agriculture, Washington 25, D. C. (For sale by Superintendent of Documents, Washington 25, D. C.). The purpose of this Yearbook is to supply as much information as possible about water in a practical, useful way for farmers and others who use and are interested in water and its resources. The committee that planned the scope of the book set forth this aim at the start for the guidance of the men who wrote the chapters: "Our primary aim is to explain the nature, behavior, and conservation of water in agriculture. . . ." Although some of the broad problems are forecast, the main emphasis is on the facts and basic principles that will help people in reaching the best decisions regarding water resources. Hydroelectric power, navigation, industrial use, pollution, and other aspects are touched on, but this book is concerned principally with water in agriculture. However, incidentally throughout the book there are references to fish, fisheries, fishing, fertility of fishing waters, and the work of the U. S. Fish and Wildlife Service in relation to water. The principal subjects covered by the book include our need for water, where we get our water, water and our soil, caring for our watersheds, and the relationship between water and our forests, irrigation, our crops, our ranges and pastures, wildlife, farms, and cities. A section of the book is devoted to a look to the future on water problems and their solution.