

PUBLICATIONS

FISH AND WILDLIFE SERVICE

These publications are available free from the Office of Information, U. S. Fish and Wildlife Service, Washington, D. C. 20240. Publications are designated:

- CFS --Current fishery statistics of the United States.
- FFL--Reprints of reports on foreign fisheries.
- FL --Fishery leaflets.
- Sep. --Separates (reprints) from Commercial Fisheries Review.
- SSR.--Fish.--Special Scientific Reports--Fisheries (limited distribution).

Number	Title
CFS-4193--	Rhode Island Landings, March 1966 (Revised), 3 pp.
CFS-4203--	Michigan, Ohio & Wisconsin Landings, June 1966, 4 pp.
CFS-4212--	New Jersey Landings, July 1966, 3 pp.
CFS-4220--	Frozen Fishery Products, Aug. 1966, 8 pp.
CFS-4221--	Maryland Landings, July 1966, 4 pp.
CFS-4222--	Michigan, Ohio & Wisconsin Landings, July 1966, 4 pp.
CFS-4223--	Shrimp Landings, Apr. 1966 (Revised), 6 pp.
CFS-4224--	Gulf Coast Shrimp Data, Apr. 1966, 16 pp.
CFS-4235--	Shrimp Landings, May 1966, 5 pp.
CFS-4239--	California Landings, June 1966, 4 pp.
CFS-4243--	New York Landings, July 1966, 4 pp.
CFS-4244--	Maryland Landings, Aug. 1966, 4 pp.
CFS-4245--	Rhode Island Landings, June 1966, 3 pp.
CFS-4249--	Mississippi Landings, June 1966, 3 pp.
CFS-4251--	Louisiana Landings, Aug. 1966, 3 pp.
CFS-4252--	Maine Landings, July 1966, 4 pp.
CFS-4259--	Massachusetts Landings, May 1966, 9 pp.
CFS-4263--	Florida Landings, Sept. 1966, 8 pp.
CFS-4264--	Maine Landings, Aug. 1966, 4 pp.
CFS-4265--	Massachusetts Landings, June 1966, 10 pp.

CFS-4269--Shrimp Landings, June 1966, 5 pp.

Sep. No. 776--Hard-Clam Explorations Off Southeastern United States.

Sep. No. 777--Trends in Gulf of Mexico Shrimp Trawling Fleet.

FL-593--Graduate Educational Grants, Academic Year 1967-68, 5 pp., illus., Oct. 1966. The purpose of this program is to increase the number of high-caliber scientists trained for research in fisheries or in other fields relevant to fisheries. Contains information on the fields of study; stipend and duration of grant; obligations of grant tenure; and who, where, when, and how to apply. The institutions receiving awards will be required to comply with Title VI of the Civil Rights Act of 1964. Gives instructions for submitting applications, and date of announcements of awards.

SSR-Fish. No. 538--Distribution of Spawning Pink Salmon in Sashin Creek, Southeastern Alaska, and Survival of Their Progeny, by William J. McNeil, 15 pp., illus., September 1966.

Field Guide to the Synodontidae (Lizardfishes) of the Western Atlantic Ocean, by William W. Anderson et al., Circular 245, 12 pp., illus., May 1966. Illustrated keys, designed primarily for use in the field, are presented for the 3 genera and 10 species of lizardfishes, family Synodontidae, occurring in the western Atlantic Ocean.

The following Foreign Fisheries Leaflets are available free from the Branch of Foreign Fisheries, Bureau of Commercial Fisheries, Room 8015, U. S. Department of the Interior, Washington, D. C. 20240:

FFL-7--"Mexican Fisheries, 1965," discusses the principal developments in the Mexican fishing industry and foreign trade in fishery products during 1965.

FFL-22--"Republic of South Africa and Territory of South-West Africa Fisheries, 1965," consists of tables showing the production of processed fishery products for the Republic of South Africa and Mandated Territory of South-West Africa.

FFL-90--"Belgian Fishing Industry, 1965," contains information on landings; fishing grounds; derrick fishing; minimum price stabilization system; imports; exports; government policy; Benelux Union Agreement; the fishing fleet; labor; deep-freezing; outlook for 1966; and tables giving detailed fishery statistics by species and year.

FFL-103--"Japan's Fisheries Catch, 1965," summarizes Japan's fishery catch for 1956-1965; the catch of sea fisheries by type for 1961-1965; culture production for 1961-1965; and whaling for 1961-1965.

FFL-105--"Tanzania Fisheries, 1966," summarizes observations based on discussions with government fisheries officials, industry members, and others.

"Checklist of Reports issued by Branch of Foreign Fisheries (Sept. 1966)," a list of other Foreign Fishery Leaflets in this series.

Japanese Production and Exports of Marine Products, 1965. Translated excerpts from an article that appeared in the September 1966 issue of a Japanese periodical "The Canners Journal". The report gives summary data on the production and exportation of canned salmon, canned tuna, canned crab meat, and other canned fishery products. This report is available on loan only to firms in the United States from the Branch of Foreign Fisheries.

The following publications are available only from the specific office mentioned:

California Fishery Market News Monthly Summary, Part I - Fishery Products Production and Market Data, Sept. 1966, 16 pp. (Market News Service, U. S. Fish and Wildlife Service, Post Office Bldg., San Pedro, Calif. 90731.) California cannery receipts of tuna and tunalike fish and other species used for canning; pack of canned tuna, tunalike fish, sardines, mackerel, and anchovies; market fish receipts at San Pedro, Santa Monica, and Eureka areas; California and Arizona imports; canned fish and frozen shrimp prices; ex-vessel prices for cannery fish; prices for fish meal, oil, and solubles; for the month indicated.

California Fishery Market News Monthly Summary, Part II - Fishing Information,

Sept. 1966, 13 pp., illus. (U. S. Bureau of Commercial Fisheries, Tuna Resources Laboratory, P. O. Box 271, La Jolla, Calif. 92038.) Contains sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists; for the month indicated.

Dimensions and Shapes of Larvae of Some Marine Bivalve Mollusks, by Victor L. Loosanoff et al., 84 pp., illus., printed. (Reprinted from Malacologia, vol. 4, no. 2, 1966, pp. 351-435.) U. S. Bureau of Commercial Fisheries Biological Laboratory, Milford, Conn. 06460.

"Fish Farming--A Growing Industry", Fisheries Research and Services Newsletter. (U. S. Department of the Interior, BCF, 5 Research Drive, Ann Arbor, Mich. 48103.) Informs fish-farm producers, processors, buyers, and others interested in warm-water fish farming of research under way and planned by BCF and Bureau of Sport Fisheries & Wildlife. Answers queries from people now in production, those planning to enter catfish farming, and from legislators and government agencies.

(Seattle) Washington and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, Oct. 1966, 8 pp. (Market News Service, U. S. Fish and Wildlife Service, 706 New Federal Office Bldg., 909 First Ave., Seattle, Wash. 98104.) Includes landings by the halibut fleet reported by the Seattle Halibut Exchange; salmon landings reported by primary receivers; landings of halibut reported by the International Pacific Halibut Commission; landings and otter-trawl receipts reported by the Fishermen's Marketing Association of Washington; local landings by independent vessels; coastwise shipments from Alaska by scheduled and nonscheduled 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.

MISCELLANEOUS

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.

AMERICAN SAMOA:

"A Pago-Pago (Samoa)--L'Exploitation des thoniers palangriers Coreens" (At Pago-Pago (Samoa)--fishing by Korean tuna long-liners), article, France Pêche, no. 110, October 1966, pp. 36-43, illus., printed in French. A single copy 2.50 F. (about US\$0.50). France Pêche, Boîte Postale 179, Lorient, France.

AMINO ACIDS:

"Balancing of amino-acid mixtures and proteins," by A. E. Bender, article, Chemical Abstracts, vol. 64, Nov. 8, 1966, Abstract No. 7111d, printed. American Chemical Society, 1155 16th St. NW., Washington, D. C. 20006.

ANGOLA:

"La pêche maritime en Angola" (The marine fisheries of Angola), by Y. Gheno, article, La Pêche Maritime, vol. 45, no. 1062, September 1966, pp. 635-640, illus., printed in French. La Pêche Maritime, 190 Boulevard Haussmann, Paris 8^e, France.

AQUATIC WEEDS:

"Aquatic weed control in Louisiana, by Virgil T. Lapham, article, Louisiana Conservationist, vol. 18, nos. 11 & 12, Nov.-Dec. 1966, pp. 2, 19-23, illus., printed. Louisiana Conservationist, Wild Life & Fisheries Bldg., 400 Royal St., New Orleans, La. 70130.

BELGIUM:

Rapport Annuel sur L'Evolution de la Flotte de Peche (Annual Report on the Status of the Fishing Fleet in 1965), 43 pp., processed in French, 1965. Administration de la Marine et de la Navigation Interieure, Ministere des Communications et des Postes, Telegraphes et Telephones, Brussels, Belgium.

BRAZIL:

Informações à Indústria de Pesca (Information on the Fishing Industry), 1966, 79 pp., printed in Spanish. Grupo Coordenador do Desenvolvimento da Pesca/SUDENE, Documentação de Pesca, Edif. Entrepósito Federal de Pesca - 8^o Andar, Cais de Santa Rita, Recife, PE., Brasil.

CANADA:

Fisheries Research Board of Canada, vol. 23, no. 10, October 1966, pp. 1475-1634, illus., printed; single copy for Canada, U. S., and Mexico C\$1.00, other countries \$1.25. Fisheries Research Board of Canada, Sir Charles Tupper Building, Ottawa 8, Canada. Contains, among others, these articles: "Muscular fatigue and mortality in haddock, Melanogrammus aeglefinus, caught by otter trawl," by F.W.H. Beamish, pp. 1507-1521; "Some methods for estimating exploited populations," by K. Radway Allen, pp. 1553-1574; "Adjustment of buoyance in Atlantic salmon parr in relation to changing water velocity," by Nancy M. Neave, Carole L. Dilworth, J. G. Eales, and R. L. Saunders, pp. 1617-1620; "Feeding and growth of redfish (genus Sebastes) in captivity," by A. C. Kohler, pp. 1621-1623.

International Pacific Salmon Fisheries Commission Annual Report 1965, 42 pp., illus., printed, 1966. International Pacific Salmon Fisheries Commission, New Westminster, B. C., Canada.

CANNING:

"Fluorine content in canned fish," by Jozef Wierzchowski and Barbara Wituszynska, article, Chemical Abstracts, vol. 63, Oct. 25, 1965, Abstract No. 12231b, printed. American Chemical Society, 1155 16th St. NW., Washington, D. C. 20006.

CARIBBEAN:

"La pesca del bonito en el Caribe" (Caribbean bonito fishery), by Vicente Cubillas, article, Puntal, vol. XIII, no. 148, July 1966, pp. 12-15, illus., printed in Spanish, single issue 20 pesetas (about US\$0.33). Puntal, Apartado do Correos 316, Alicante, Spain.

CHARTS:

The following charts are sold by Coast and Geodetic Survey Sales agents, district offices, and the Washington office. New editions contain information essential to safe navigation--and cancel former editions. Mariners are warned against using obsolete charts.

ALASKA--Southeast Coast--Dixon Entrance to Cape St. Elias, 9th edition of Chart No. 8002 issued Aug. 22, 1966, scale of 1:969,756. Price: \$1.75 a copy.

These publications are not available from the Fish and Wildlife Service, but usually may be obtained from the organization issuing them.

ALASKA AND ALEUTIAN ISLANDS

Nautical Chart Catalog, vol. III, lists all available nautical charts for Alaska, including the Aleutian Islands, completes the conversion of Nautical Chart Catalog to new format. Similar catalogs issued this year are: Volume I--covers the Atlantic and Gulf Coasts, including Puerto Rico and the Virgin Islands; Volume II--covers the Pacific Coast, from the Mexican to the Canadian borders, and Hawaii, Guam, and American Samoa. Catalogs are accordion-folded, lists the number of all charts, areas covered, chart prices, and scale of each chart. Both small craft and conventional charts are listed. Includes list of tide tables, coast pilots (sailing directions), current tables, and tidal current charts. Authorized nautical chart sales agents are listed in the catalog.

CALIFORNIA

San Miguel Passage, 3rd edition of Chart No. 5116 issued Sept. 12, 1966, scale of 1:40,000. Price: 75 cents a copy.

San Pedro Bay, 10th edition of Chart No. 5148 issued Sept. 26, 1966, scale of 1:18,000. Price: \$1.00 a copy.

San Francisco Bay--Southern Part, 17th edition of Chart No. 5531 issued Sept. 19, 1966, scale of 1:40,000. Price: \$1.00 a copy.

San Pablo Bay, 15th edition of Chart No. 5533 issued Oct. 3, 1966, scale of 1:40,000. Price: \$1.00 a copy.

Suisun Bay, 29th edition of Chart No. 5534 issued Sept. 19, 1966, scale of 1:40,000. Price: 75 cents a copy.

FLORIDA

Crystal River to Horseshoe Point--Suwannee River, 4th edition of Chart No. 1259 issued Aug. 1, 1966, scale of 1:80,000 and 1:20,000. Price \$1.00 a copy.

St. Andrew Bay, 6th edition of Chart No. 489 issued Sept. 19, 1966, scale of 1:25,000. Price: 75 cents a copy.

Everglades National Park--Whitewater Bay, 2nd edition of Chart No. 598SC issued Oct. 8, 1966, scale of 1:50,000. Price: \$1.00 a copy.

Everglades National Park--Shark River to Lostmans River, 2nd edition of Chart No. 599SC issued Oct. 8, 1966, scale of 1:50,000. Price: \$1.00 a copy.

Intracoastal Waterway Tolomato River to Eau Gallie, 4th edition of Chart No.

843SC issued Sept. 24, 1966, scale of 1:40,000. Price: \$1.00 a copy.

Intracoastal Waterway West Palm Beach to Miami, 5th edition of Chart No. 847SC issued Sept. 10, 1966, scale of 1:40,000. Price: \$1.00 a copy.

FLORIDA--ALABAMA--Santa Rosa Sound to Dauphine Island, 2nd edition of Chart No. 872SC issued Sept. 17, 1966, scale of 1:40,000. Price: \$1.00 a copy.

GEORGIA--St. Simons Sound Brunswick Harbor and Turtle Sound, 22nd edition of Chart No. 447 issued July 18, 1966, scale of 1:40,000. Price: 50 cents a copy.

LOUISIANA

Mississippi River Delta, 18th edition of Chart No. 1272 issued Aug. 1, 1966, scale of 1:80,000. Price: \$1.00 a copy.

Chandeleur and Breton Sounds, 6th edition of Chart No. 1270 issued Sept. 12, 1966, scale of 1:80,000. Price: \$1.00 a copy.

MAINE--Calais to West Quoddy Head, 5th edition of Chart No. 801 issued Sept. 12, 1966, scale of 1:40,000. Price: \$1.00 a copy.

MAINE-NEW HAMPSHIRE--Portsmouth Harbor Cape Neddick Harbor to Isles of Shoals, 4th edition of Chart No. 211 issued Aug. 1, 1966, scale of 1:20,000 and 1:10,000. Price: \$1.00 a copy.

NORTH CAROLINA--Cape Hatteras--Wimble Shoals to Ocracoke Inlet, 12th edition of Chart No. 1232 issued Aug. 29, 1966, scale of 1:80,000. Price: \$1.00 a copy.

TEXAS--Corpus Christi Bay, 8th edition of Chart No. 523 issued July 25, 1966, scale of 1:40,000. Price: \$1.00 a copy.

WEST INDIES--Puerto Rico--East Coast--Pasaje De Vieques and Radas Roosevelt, 3rd edition of Chart No. 940 issued July 25, 1966, scale of 1:25,000. Price: \$1.00 a copy.

CRAB(S):

"Canadian Atlantic crab resources," by D. G. Wilder, article, *Fisheries of Canada*, vol. 19, no. 3, September 1966, pp. 11-16,

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illus., printed. Information and Consumer Service, Department of Fisheries, Ottawa, Canada. Summarizes available information on the fisheries for rock crab and spider crab in the Gulf of St. Lawrence and other crab species. Also discusses needs for further research, and examines possibilities for expanding the existing fisheries or developing new ones.

"Strong ships and hardy men harvest delicate king crab," article, Pacific Fisherman, vol. 63, June 1965, pp. 11-15, printed. Miller Freeman Publications, 71 Columbia St., Seattle, Wash. 98104.

DENMARK:

Fiskeriundersøgelser i 1963 ved Danmark, Faerøerne og Grønland; 1964; 1965 (Marine Fishery Research in Denmark, the Faroes and Greenland: Reports for 1963, 1964, and 1965); by E. Bertelsen and Paul M. Hansen, Skrifter fra Danmarks Fiskeri - og Havundersøgelser no. 24, no. 25, and no. 26; 113, 84, 112 pp., respectively, illus., printed in Danish; 1964, 1965, and 1966, respectively; Kr. 9.75 (US\$1.50) each. I Kommission Hos Andr. Fr. Høst & Son, J. Jørgensen & Co. Bogtrykkeri, Copenhagen, Denmark. The 1965 report includes sections on possible protection for the dogfish; fluctuations in the yield of the North European tuna fisheries. The 1964 report discusses fish traps in Greenland; prevention of disease in trout ponds; and bubble-curtain research. Reports contain summaries of the fisheries in the Faroe Islands; and the 1964 and 1965 reports review research on cod, salmon, and shrimp in Greenland waters.

EUROPEAN ECONOMIC COMMUNITY:

"La Commission de la C.E.E. a publié son rapport sur les principes de base pour une politique commune des pêches" (EEC publishes its report on the basic principles for a common fishery policy), by P. Schmitz, article, La Pêche Maritime, vol. 45, no. 1062, September 1966, pp. 623-629, printed in French. La Pêche Maritime, 190 Boulevard Haussmann, Paris 8^e, France.

ENZYMES:

"Enzymic curing of drawn fish," by Jaroslav Albrecht et al., article, Chemical Abstracts, vol. 60, Feb. 3, 1964, Abstract No. 3424c, printed. American Chemical Society, 1155 16th St. NW., Washington, D. C. 20006.

FATTY ACIDS:

"Fatty acid changes in beef, pork, and fish after deep-fat frying in different oils," by R. A. Chung, J. A. McKay, and C. L. Ramey, article, Food Technology, vol. 20, May 1966, pp. 123-125, printed. The Garrard Press, 510 N. Hickory St., Champaign, Ill. 61820.

FISHERY RESEARCH:

"Fish population studies are important," by Otho D. May, Jr., article, South Carolina Wildlife, vol. 13, no. 4, Fall 1966, pp. 4-5, illus., printed. South Carolina Wildlife Resources Department, Box 167, Columbia, S. C. 29202.

FLORIDA:

A Field Key to the Batoid Fishes (Sawfishes, Guitarfishes, Skates and Rays) of Florida and Adjacent Waters, by Harold Wahlquist, Technical Series No. 50, 26 pp., illus., printed, July 1966. Marine Laboratory, Florida State Board of Conservation, Maritime Base, Bayboro Harbor, St. Petersburg, Fla. 33731.

FOOD AND AGRICULTURE ORGANIZATION:

Yearbook of Fishery Statistics, 1965 (Catches and Landings), vol. 20, 396 pp., illus., printed in French, Spanish, and English, 1966, US\$5.50. Food and Agriculture Organization of the United Nations, Rome, Italy. (Sold in United States by Columbia University Press, International Documents Service, 2960 Broadway, New York, N. Y. 10027.) The present issue brings up to date the world's annual statistics on fishery catches and landings by country, by species, and by major fishing areas previously published in volume 18. Data for 1965 have been added in all tables. Tables cover the catches or landings of all fish, crustaceans, molluscs, and other aquatic animals, residues and plants, made by commercial and subsistence fishermen operating in fresh-water and marine areas. Mainland China remains the only fishing country with a significant catch that has not been reported since 1960.

Indo-Pacific Fisheries Council Proceedings, 11th Session, Kuala Lumpur, Malaysia, Oct. 16-31, 1964, Section II, Technical Papers, 331 pp., illus., processed in English, 1966, US\$1 (5s.). Indo-Pacific Fish-

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eries Council, FAO Regional Office for Asia and the Far East, Bangkok, Thailand. Full proceedings of the meeting consist of three sections. Section I is a "Report of the Proceedings" and Section III contains the papers read at the symposium. This section contains the technical papers on marine biology, fresh-water fish biology, fish culture, shellfish culture, craft, trawling, other fishing gear, fish processing, cooperatives, and statistics.

FREEZE-DRYING:

"Surface areas and densities of freeze-dried foods," by E. P. Berlin et al., article, Journal of Agricultural and Food Chemistry, vol. 14, January-February 1966, pp. 15-17, printed. Association of Agricultural Chemists, Box 450, Benjamin Franklin Station, Washington, D. C. 20044.

FREEZING:

"Alaskan fish freezing boom projected; could replenish U. S. fisheries," article, Quick Frozen Foods, vol. 28, Dec. 1965, pp. 131-132, 134, printed. E. W. Williams Publications, Inc., 1776 Broadway, New York, N. Y. 10019.

FROZEN FISH:

"Improvements in the thawing of frozen fish," article, Abstracts from Current Scientific and Technical Literature, vol. 18, abstract no. 1718, July 1965, p. 326, and vol. 18, abstract no. 2020, August 1965, p. 382, printed. British Food Manufacturing Research Assoc., Randalls Road, Leatherhead, Surrey, England.

FUNGI:

Observations on the Growth of the Marine Hyphomycete Varicosporina Ramulosa, by Samuel P. Meyers and Lydia Hoyo, Contribution No. 711, 7 pp., illus., printed. (Reprinted from Canadian Journal of Botany, vol. 44, 1966, pp. 1133-1140.) Institute of Marine Science, 1 Rickenbacker Causeway, Virginia Key, Miami, Fla. 33219.

GEAR:

"West coast fishermen swear by stabilizers," by Tom H. Inkster, article, National Fisherman, vol. 46, Feb. 1966, pp. 47-51, printed. Journal Publishing Co., 66 High St., Belfast, Maine 04915.

GENERAL:

Fishes of the Western North Atlantic, by William W. Anderson et al., Memoir I, Part 5, 662 pp., illus., printed, 1966, \$27.50. Sears Foundation for Marine Research, Yale University, New Haven, Conn. 06520. This book is the fifth in a series. Deals with marine fish in the North Atlantic that extends from Hudson Bay to the Amazon. The fish described in this volume are not normally encountered by the inshore fisherman or the general public and since the material presented is purely taxonomic in nature, this book is not for laymen's use. To the professional ichthyologist and other students of marine zoology, however, it will be an indispensable reference.

GRANTS:

"Sea-grant college benefits to U.S. fishery compared to agriculture's gains under land-grant act," article, Fishing Gazette, vol. 83, Apr. 1966, pp. 38, 40, 64, printed. Fishing Gazette Publishing Corp., 461 Eighth Ave., New York, N. Y. 10001.

INDIAN OCEAN:

International Indian Ocean Expedition. Collected reprints III, 993 pp., illus., printed, mostly in English with some Dutch and Russian, 1966. United Nations Educational, Scientific and Cultural Organization, Place de Fontenoy, Paris-7^e, France. Comprises reprints received by UNESCO during the second half of 1964 and throughout 1965. The papers presented in the volume are roughly grouped into four major parts: I - Marine biology; II - Marine chemistry; III - Physical oceanography; IV - Marine geology and geophysics.

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES:

Statistical Bulletin for the Year 1964, vol. 14, 84 pp., printed, 1966. International Commission for the Northwest Atlantic Fisheries, Dartmouth, Nova Scotia, Canada. Volume 14 of the ICNAF Statistical Bulletin series presents statistical data on the fisheries carried out in 1964 in the Convention Area. In 1964, all member countries, except Italy, fished in the Convention Area and reported statistical data to the Secretariat. The statistics cover the nominal catch data (landings converted from landed weight to live weight) on an annual calendar

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year of capture basis. Part I presents revised summaries of the catch statistics for all species and for major species for the years 1952-64.

INTERNATIONAL COMMISSION ON WHALING:

Sixteenth Report of the Commission (covering the sixteenth fiscal year 1st June, 1964 to 31st May, 1965), 73 pp., illus., processed, 1966. Office of the International Whaling Commission, Whitehall Place, London, S.W. 1, England. The report refers to the Sixteenth Meeting of the Commission held in Sandefjord, Norway, June 1964, Special Meeting of the Commission held in London May 1965, and meeting of the Scientific Committee held in London June 1965, to assess the results of the 1964/65 (Antarctic) and 1964 (outside Antarctic) whaling seasons.

IRRADIATION:

"Commercialization of irradiated foods," by Robert J. McClusky, article, Food Processing/Marketing, vol. 26, Oct. 1965, pp. 53-57, printed. Putnam Publishing Co., 111 East Delaware Place, Chicago, Ill. 60611.

IRRADIATION PRESERVATION:

"Food irradiation," by David M. Varner, article, Food Engineering, vol. 37, Nov. 1965, pp. 53-57, printed. Chilton Co., Chestnut and 56th Sts., Philadelphia, Pa. 19139.

LOBSTERS:

"Easily built trap delivery device completes lobstering automation," article, National Maine Coast Fisherman, vol. 46, Dec. 1965, p. 27, printed. National Maine Coast Fisherman, 22 Main St., Camden, Maine 04843.

MARINE BIOLOGY:

The Scorpionfish Subfamily Setarchinae, Including the Genus Ectreposebastes, by William N. Eschmeyer and Bruce B. Collette, Contribution No. 677, 26 pp., illus., printed. (Reprinted from Bulletin of Marine Science, vol. 16, no. 2, June 1966, pp. 349-375.) Institute of Marine Science, 1 Rickenbacker Causeway, Virginia Key, Miami, Fla. 33219.

MARINE OILS:

"Oxidation of oils in marine products and its prevention," by Kenzo Toyama, article, Chemical Abstracts, vol. 64, Feb. 28, 1966, Abstract No. 7279e, printed. American Chemical Society, 1155 16th St. NW., Washington, D. C. 20006.

MARINE RESEARCH:

Current Status of Marine Research, edited by Robert M. Ingle, Special Scientific Report No. 12, 21 pp., illus., printed, Sept. 1966. Marine Laboratory, Florida State Board of Conservation, Maritime Base, Bayboro Harbor, St. Petersburg, Fla. 33731.

MARINE RESOURCES:

Marine Resources of the Atlantic Coast leaflet series, illus., printed, Oct. 1966. Ernest Mitts, Executive Director, Atlantic States Marine Fisheries Commission, 336 East College Ave., Tallahassee, Fla. 32301:

The American Lobster, Leaflet No. 5, 6 pp.

Summer Flounder--The Middle Atlantic Flatfish, Leaflet No. 6, 4 pp.

American Shad--A Springtime Delicacy, Leaflet No. 7, 4 pp.

Striped Bass, Leaflet No. 8, 4 pp.

MEDITERRANEAN SEA:

Catalogue of Names of Fishes, Molluscs and Crustaceans of Commercial Importance in the Mediterranean, compiled by Giorgio Bini, 422 pp., printed in English, 1965. Single copy 3,000 lira (US\$4.32). Vito Bianco Editore S.p.A., via in Arcione, 71, Rome, Italy. (Published by arrangement with the Food and Agriculture Organization of the United Nations). Contains over 400 illustrations of fish and marine animals with a listing of each specimen's scientific and common names in general use in each Mediterranean country. The aim is to simplify and clarify the designation of commercial fish in the Mediterranean basin.

MEXICO:

"The fishing industry--Mexico moves ahead," by Jaime H. Plenn, article, Mexican-American Review, vol. 34, no. 10, October 1966, pp. 10-14, illus., printed, single issue 5 pesos (US\$0.40). The American Chamber of Commerce of Mexico, A. C., Lucerna 78, Mexico 6, D. F.

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NORWAY:

Articles in Fiskets Gang, vol. 52, printed in Norwegian. Fiskeridirektoratet, Radstuplass 10, Bergen, Norway:

No. 24, June 16, 1966, "Forekomst av egg og yngel av fish i vest- og nordnorske kyst- og bankfarvann våren 1965" (Occurrence of fish eggs and young in the western and northern coastal and bank areas during spring of 1965), by Olav Dragesund and Per T. Hogenstad, pp. 467-472, illus.

No. 29, July 21, 1966, "Rapport om prøvefiske etter hummer i Nordland fylke I 1964 og 1965" (A report on experimental fishing for lobsters in Nordland Province in 1964 and 1965), by Kaare R. Gundersen, pp. 562-565, illus.

No. 32, August 11, 1966, "Fiskeflaten 1965" (The fishing fleet in 1965), pp. 602-607.

No. 38, Sept. 22, 1966, "Trekking fra den teknologiske utvikling i fiskerinaeringen" (Feature on technological development in the fishery industry), by Einar Sola, pp. 695-702.

"Skjebnen til Marokko's fiskehermetikkindustri bestemmes av størrelsene på de avgiftsfrie skipningene til Frankrike" (Fate of Morocco's fish canning industry is determined by duty-free shipments to France), article, Tidsskrift for Hermetikkindustri, vol. 52, no. 9, September 1966, p. 365, printed in Norwegian. Norwegian Cannery Export Journal, Norske Hermetikfabrikers Landsforening, Stavanger, Norway.

OCEANOGRAPHY:

"Oceanography" consists of two reports: "Probing the ocean," by R. H. Charlier and "Our deep and wide ocean," by R. S. Dietz, article, Science, vol. 153, no. 3742, September 16, 1966, pp. 1421-1428, illus., printed, single copy US\$0.35, Canada US\$0.75 and other foreign US\$1.50. American Association for the Advancement of Science, 1515 Massachusetts Avenue NW., Washington, D. C. 20005. Two reports discuss the 2nd International Oceanographic Congress, Moscow, May 30-June 9, 1966.

ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT:

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Abstracts from Chemical Abstracts. American Chemical Society, 1155 16th St. NW., Washington, D. C. 20006:

"Determination of potassium in various fish products for radioactivity determination," by Jean Morre and Jean Barret, vol. 63, Dec. 20, 1965, Abstract No. 18937e, printed.

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These publications are not available from the Fish and Wildlife Service, but usually may be obtained from the organization issuing them.

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"Co-operative Crayfish Industry" (Kairuku, Territory of Papua and New Guinea), by I. W. Wiseman, article, South Pacific Bulletin, vol. 16, no. 1, 1966, pp. 26-28, illus., printed. South Pacific Commission Publications Bureau, G.P.O. Box 5254, Sydney, Australia.

TAGGING:

Tagging Fishes in Florida Offshore Waters, by Martin A. Moe, Jr., Technical Series No. 49, 47 pp., illus., printed, June 1966. Marine Laboratory, Florida State Board of Conservation, Maritime Base, Bayboro Harbor, St. Petersburg, Fla. 33731.

TRANSPORTATION:

Air Shipment of Perishables, Seafoods - General, Index No. 7, the Boeing Company Air Cargo Market Development Unit, Commercial Airplane Division, Renton, Wash. This is one in a series on the total perishable market and its adaptability to mass marketing via air transportation.

The study of the perishable section of the air cargo market is designed to show that the domestic and international markets can

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be expanded. The report examines certain key areas of the seafood industry--size, characteristics, markets, and problems--to evaluate their potential. It also evaluates possible profit to airlines if this cargo increases.

The report considers seafood a new air-cargo market that should be penetrated. It is oriented 2 to 5 years ahead--not to present situation.

The report is based on information from persons in the commercial fishing, airline, and container industries. It shows fishery production data from BCF reports.

The Oregon Fisheries Commission, Rt. 2, Box 31A, Clackamas, Oreg. 97015.

UNITED KINGDOM:

Fisheries of Scotland Report for 1965, 135 pp., illus., printed, July 1966, 10s. 6d. (US\$1.50) net. Department of Agriculture and Fisheries for Scotland, Edinburgh, Scotland. (Sold by Her Majesty's Stationery Office, 13A Castle St., Edinburgh 3, Scotland.) Included, among others, are chapters on means of capture and persons engaged in the fisheries, herring, whitefish, shellfish, salmon fisheries, fisheries research, and ports.

Fisheries Year Book and Directory 1966-67

(International Reference Book and Directory of the Fishing and Fish Processing Industries), edited by Harry F. Tysser, 467 pp., illus., printed, 1966, £2 (US\$5.60) including postage. British Continental Trade Press Ltd., 222 Strand, London W. C. 2, England. An excellent reference to the world's fishing industries and fish trade. First chapter surveys world's fisheries and industries of major countries. Other chapters discuss progress in selling, freezing, processing, and marketing; fisheries research; preservation of fish; and the fish meal and oil industries. There is an interesting chapter on fish varieties on the market, describing 100 varieties of fish. The reference chapters include fishing vessels built last year and their equipment; fish supply calendar giving type of fish, month, and country of availability; dictionary of fish terms in eight languages; a fish supply calendar; and list of periodicals or journals of interest to the fishing industry. The directory section includes lists of exporters, producers, and trawler owners; importers and wholesalers; fish canners and bottlers, also firms handling machinery and equipment for fish processing and refrigeration; packing machinery and materials; supplies for fisheries (ship builders and repairers, ship chandlers, nets and cordage, instruments, etc.); fish byproducts (meal, oil, vitamins, etc.); cold storage and transport. A list of trade marks and brands, a classified list of advertisers, and a number of pages showing postage stamps with fish designs.

TUNA:

"Australia sets record tuna haul," by Don Campbell, article, Commercial Fishing, vol. 5, no. 1, Sept. 1966, pp. 11-13, illus., printed. Trade Publications Ltd., 26 Albert St., Auckland, C.1, New Zealand.

"Las migraciones del atun rojo" (The migrations of bluefin tuna), by Sheree Narian Dwivedi, article, Puntal, vol. XIII, no. 146, May 1966, pp. 16-21, illus., printed in Spanish, single issue 20 ptas. (about US\$0.35). Puntal, Apartado do Correos 316, Alicante, Spain.

Report from the Bluefin Tuna Working Group, by J. Hamre, F. Lozano, J. Rodreguez-Roda, and K. Tiews, Statistical News Letters, no. 26, 34 pp., illus., printed, Feb. 1966. International Council for the Exploration of the Sea, Charlottenlund Slot, Denmark. This second report by this working group discusses the development of the bluefin tuna fisheries from 1950-1964 and presents further observations on the size composition of bluefin tuna catches.

"Tuna muscle aldolase. I--Purification and properties," by T. W. Kwon and H. S. Olcott, article, Chemical Abstracts, vol. 63, July 5, 1965, Abstract No. 853g, printed. American Chemical Society, 1155 16th St. NW., Washington, D. C. 20006.

"Wind, nearshore ocean temperature, and the albacore tuna catch off Oregon," by Robert K. Lane, article, Research Briefs, vol. 11, no. 1, June 1965, pp. 25-28, printed.

