

PART III: PUBLICATIONS

(NOTE: This list comprises all formal publications arising from the California Cooperative Oceanic Fisheries Investigations to 31 December 1954. Processed reports which are not available for general distribution have been omitted, but those which appear in regular series and are generally available are included. In several instances, scientists from two or more of the cooperating agencies have written papers jointly. To avoid duplication, these papers appear in this list under the senior author's agency.)

MARINE RESEARCH COMMITTEE

- California, State of, Marine Research Committee
1950. California Cooperative Sardine Research Program, Progress Report, 1950. Sacramento. State Printer. 54 pp.
1952. California Cooperative Sardine Research Program, Progress Report, 1 January 1951 to 30 June 1952. Sacramento. State Printer. 51 pp.
1953. Progress Report, California Cooperative Oceanic Fisheries Investigations, 1 July 1952-30 June 1953. Sacramento. State Printer. 44 pp.

CALIFORNIA ACADEMY OF SCIENCES

- Groody, Tom, Anatole Loukashkin, and Norman Grant
1952. A preliminary report on the behavior of the Pacific sardine (*Sardinops caerulea*) in an electrical field. *Proc. Calif. Acad. Sci.*, vol. 27, pp. 311-323, 4 figs. in text.
- Loukashkin, Anatole, and Norman Grant
1954. Further studies of the behavior of the Pacific sardine (*Sardinops caerulea*) in an electrical field. *Proc. Calif. Acad. Sci.*, vol. 28, pp. 323-337, 5 figs. in text.
- Miller, R. C.
1946. Sardine industry faces disaster. *California, Magazine of the Pacific*. December 1946, pp. 14 and 38-41.
1948. Mystery of the disappearing sardine. *Pacific Discovery*. vol. 1, no. 1, pp. 20-25.
1949. Fisherman's luck: the story of the California sardine industry. *California, Magazine of the Pacific*. December 1949, pp. 13, 14, 27.
1951. The future of our ocean fisheries. *California, Magazine of the Pacific*. December 1951. pp. 13 and 31.
1953. Conservation aspects of Pacific marine fisheries. *Seventh Pac. Sci. Cong. Proc.*, vol. 4, pp. 536-537.

CALIFORNIA DEPARTMENT OF FISH AND GAME

- California Division of Fish and Game
1948. Landings of sardines along the Pacific coast. *Calif. Fish and Game*, vol. 34, no. 2, pp. 82-83.
- Clark, Frances N.
1948. Problems connected with the management of the sardine fishery. *Thirteenth No. Amer. Wildl. Conf., Trans.*, pp. 339-347.
1952. A review of the California sardine fishery. *Calif. Fish and Game*, vol. 38, no. 3, pp. 367-380
1953. Problems in fisheries management for pelagic schooling fish. *Seventh Pac. Sci. Cong. Proc.*, vol. 4, pp. 436-440.
- Clark, Frances N., and Anita E. Daugherty
1950. Average lunar month catch by California sardine fishermen, 1932-33 through 1948-49. *Calif. Div. Fish and Game, Fish Bull.* 76, 28 pp.
1952. Average lunar month catch by California sardine fishermen, 1949-50 and 1950-51. *Calif. Fish and Game*, vol. 38, no. 1, pp. 85-97.

- Clark, Frances N., and Julius B. Phillips
1952. The northern anchovy (*Engraulis mordax mordax*) in the California fishery. *Calif. Fish and Game*, vol. 38, no. 2, pp. 189-207.
- Crocker, Richard S.
1954. Loss of California's sardine fishery may become permanent. *Outdoor California*, vol. 15, no. 1, pp. 1, 6-8.
- Eberhardt, Robert L.
1954. Observations on the saury (*Cololabis saira*) seen near the California coast during 1950-52. *Calif. Fish and Game*, vol. 40, no. 1, pp. 39-46.
- Fields, W. Gordon
1950. A preliminary report on the fishery and on the biology of the squid, *Loligo opalescens*. *Calif. Fish and Game*, vol. 36, no. 4, pp. 336-377.
- Fitch, John E.
1951. Age composition of the Southern California catch of Pacific mackerel 1939-40 through 1950-51. *Calif. Dept. Fish and Game, Fish Bull.* 83, 73 pp.
1952. The decline of the Pacific mackerel fishery. *Calif. Fish and Game*, vol. 38, no. 3, pp. 381-389.
- 1953a. Age composition of the Southern California catch of Pacific mackerel for the 1951-52 season. *Calif. Fish and Game*, vol. 39, no. 1, pp. 141-146.
- 1953b. Age composition of the Southern California catch of Pacific mackerel for the 1952-53 season. *Calif. Fish and Game*, vol. 39, no. 4, pp. 553-558.
- 1953c. The decline in yield of Pacific mackerel. *Eighteenth No. Amer. Wildl. Conf., Trans.*, pp. 450-457.
- Fitch, John E., and A. O. Flechsig
1949. A brief account of the Monterey Spanish mackerel (*Scomberomorus concolor*). *Calif. Fish and Game*, vol. 35, no. 4, pp. 275-280.
- Fry, Donald H., Jr., and Phil M. Roedel
1949. Tagging experiments on the Pacific mackerel, *Pneumatophorus diego*. *Calif. Div. Fish and Game, Fish Bull.* 73, 64 pp.
- Godsil, H. C.
1953. An evaluation of the existing anchovy case pack requirements. *Calif. Dept. Fish and Game, Fish Bull.* 89, pp. 9-20.
- Janssen, J. F., Jr.
1948. Summary of recovery of California sardine tags on the Pacific coast. *Calif. Fish and Game*, vol. 34, no. 1, pp. 3-10.
- Miller, Daniel J.
1952. Development through the prolarval stage of artificially fertilized eggs of the Pacific sardine (*Sardinops caerulea*). *Calif. Fish and Game*, vol. 38, no. 4, pp. 587-595.
- Phillips, Julius B.
- 1948a. Comparison of calculated fish lengths based on scales from different body areas of the sardine, *Sardinops caerulea*. *Copeia*, 1948, no. 2, pp. 99-106.
- 1948b. Growth of the sardine, *Sardinops caerulea*, 1941-42 through 1946-47. *Calif. Div. Fish and Game, Fish Bull.* 71, 33 pp.

- Phillips, Julius B., and John Radovich
1952. Surveys through 1951 of the distribution and abundance of young sardines (*Sardinops caerulea*). *Calif. Dept. Fish and Game, Fish Bull.* 87, 63 pp.
- Pinkas, Leo
1951. Yield per area of the California sardine fishing grounds 1937-1949. *Calif. Div. Fish and Game, Fish Bull.* 80, pp. 9-14.
- Radovich, John
1952a. Food of the Pacific sardine, *Sardinops caerulea*, from Central Baja California and Southern California. *Calif. Fish and Game*, vol. 38, no. 4, pp. 575-585.
1952b. Report on the young sardine, *Sardinops caerulea*, survey in California and Mexican waters, 1950 and 1951. *Calif. Dept. Fish and Game, Fish Bull.* 87, pp. 31-63. 13 figs.
- Roedel, Phil M.
1948. Pacific mackerel in the Gulf of California. *Copeia*, 1948, no. 3, pp. 224-225.
1949a. Movements of Pacific mackerel as demonstrated by tag recoveries. *Calif. Fish and Game*, vol. 35, no. 4, pp. 281-291.
1949b. Notes on the spawning grounds and early life history of the Pacific mackerel. *Calif. Fish and Game*, vol. 35, no. 3, pp. 147-153.
1952a. A racial study of the Pacific mackerel, *Pneumatophorus diego*. *Calif. Dept. Fish and Game, Fish Bull.* 84, 53 pp.
1952b. A review of the Pacific mackerel (*Pneumatophorus diego*) fishery of the Los Angeles region with special reference to the years 1939-1951. *Calif. Fish and Game*, vol. 38, no. 2, pp. 253-273.
1953. The jack mackerel, *Trachurus symmetricus*: a review of the California fishery and of current biological knowledge. *Calif. Fish and Game*, vol. 39, no. 1, pp. 45-68.
- Roedel, Phil M., and John E. Fitch
1952. The status of the carangid fishes, *Trachurus* and *Decapturus* on the Pacific coast of Canada and the United States. *Copeia*, 1952, no. 1, pp. 4-6.
- Roedel, Phil M., and David C. Joseph
1954. The Pacific mackerel fishery in the 1951-52 and 1952-53 seasons. *Calif. Fish and Game*, vol. 40, no. 1, pp. 55-59.
- STANFORD UNIVERSITY, HOPKINS MARINE STATION**
No publications arising from California Cooperative Fisheries Investigations projects have as yet appeared.
- U. S. FISH AND WILDLIFE SERVICE, SOUTH PACIFIC FISHERY INVESTIGATIONS**
- Ahlstrom, Elbert H.
1948. A record of pilchard eggs and larvae collected during surveys made in 1939 to 1941. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.*, no. 54, pp. 1-76.
1952. Pilchard eggs and larvae and other fish larvae, Pacific Coast, 1950. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 80, pp. 1-58.
1953. Pilchard eggs and larvae and other fish larvae, Pacific Coast, 1951. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 102, pp. 1-55.
1954a. Pacific sardine (Pilchard). Eggs and larvae and other fish larvae, Pacific Coast—1952. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 123, pp. 1-76.
1954b. Distribution and abundance of egg and larval populations of the Pacific sardine. *U. S. Fish and Wildl. Serv., Fish. Bull.*, no. 93, vol. 56, pp. 84-140.
- Ahlstrom, Elbert H., and others
1950. The sardine in its environment. A popular account of the objectives of the Pacific Coast Sardine Research Program. *Pan-American Fisherman*, Dec. 1950, pp. 15.
- Ahlstrom, Elbert H., and Orville P. Ball
1954. A description of the eggs and larvae of the jack mackerel (*Trachurus symmetricus*), and a discussion of the distribution and abundance of jack mackerel larvae off western North America during 1950 and 1951. *U. S. Fish and Wildl. Serv., Fish. Bull.*, no. 97, vol. 56, pp. 209-245.
- Calderwood, Margaret M.
1953. Length composition of California commercial catch of pilchard, 1919-51. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 105, pp. 1-81.
- Cushing, D. H., Finn Devold, John C. Marr, and H. Kristjansson
1951. Some modern methods of fish detection. Echo sounding, echo ranging and aerial scouting. *FAO Fish. Bull.*, vol. 5, no. 3-4, 27 pp.
- Felin, Frances E.
1951. Growth characteristics of the poeciliid fish *Platypleocilus maculatus*. *Copeia*, 1951, no. 1, pp. 15-28.
1954. Population heterogeneity in Pacific pilchard. *U. S. Fish and Wildl. Serv., Fish. Bull.* no. 86, vol. 54, pp. 201-225.
- Felin, Frances E., Ray Anas, Anita E. Daugherty, and Leo Pinkas
1952. Age and length composition of the sardine catch off the Pacific Coast of the United States in 1951-52. *Calif. Fish and Game*, vol. 38, no. 3, pp. 427-435.
- Felin, Frances E., Anita E. Daugherty, and Leo Pinkas
1950. Age and length composition of the sardine catch off the Pacific Coast of the United States and Canada in 1949-50. *Calif. Fish and Game*, vol. 36, no. 3, pp. 241-249.
1951. Age and length composition of the sardine catch off the Pacific Coast of the United States and Canada in 1950-51. *Calif. Fish and Game*, vol. 37, no. 3, pp. 339-349.
- Felin, Frances E., and John C. Marr
1951. The possible importance of other vertebrates in sardine investigations. *Sixteenth No. Amer. Wildl. Conf., Trans.*, pp. 431-436.
- Felin, Frances E., John MacGregor, Anita E. Daugherty, and Daniel J. Miller.
1953. Age and length composition of the sardine catch off the Pacific Coast of the United States and Mexico in 1952-53. *Calif. Fish and Game*, vol. 39, no. 3, pp. 409-417.
- Felin, Frances E., J. S. MacGregor, Anita E. Daugherty, and Daniel J. Miller.
1954. Age and length composition of the sardine catch off the Pacific Coast of the United States and Mexico in 1953-54. *Calif. Fish and Game*, vol. 40, no. 4, pp. 423-431.
- Felin, Frances E., and Julius B. Phillips
1948. Age and length composition of the sardine catch off the Pacific Coast of the United States and Canada, 1941-42 through 1946-47. *Calif. Div. Fish and Game, Fish Bull.* 69, 122 pp.
- Felin, Frances E., Julius B. Phillips, and Anita E. Daugherty
1949. Age and length composition of the sardine catch off the Pacific Coast of the United States and Canada in 1948-49. *Calif. Fish and Game*, vol. 35, no. 3, pp. 165-183.
- Landa, Antonio
1953. The relationship between body length and scale length in five year-classes of the Pacific pilchard or sardine, *Sardinops caerulea* (Girard, 1854). *Pac. Sci.*, vol. VII, no. 2, pp. 169-174.

- Marr, John C.
 1948. Two additions to the known fish fauna of California. *Copeia*, 1948, no. 2, p. 140.
 1950. Apparent abundance of the pilchard (*Sardinops caerulea*) off the coasts of Oregon and Washington, 1935-1943, as measured by catch per boat. *U. S. Fish and Wildl. Serv., Fish. Bull.*, no. 52, vol. 51, pp. 385-394.
 1951. On the use of the terms *abundance*, *availability* and *apparent abundance* in fishery biology. *Copeia*, 1951, no. 2, pp. 163-169.
- Marr, John C., and Elbert H. Ahlstrom
 1948. Observations on the horizontal distribution and the numbers of eggs and larvae of the northern anchovy (*Engraulis mordax*) off California in 1940 and 1941. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.*, no. 56, pp. 1-13.
- Mosher, Kenneth H., Frances E. Felin, and Julius B. Phillips
 1949. Age and length composition of the sardine catch off the Pacific Coast of the United States and Canada in 1947-48. *Calif. Fish and Game*, vol. 35, no. 1, pp. 15-40.
- Schaefer, Milner B., Oscar E. Sette, and John C. Marr
 1951. Growth of Pacific Coast pilchard fishery to 1942. *U. S. Fish and Wildl. Serv., Res. Rept.*, no. 29, pp. 1-31.
- Sette, Oscar E., and Elbert H. Ahlstrom
 1948. Estimations of abundance of the eggs of the Pacific pilchard (*Sardinops caerulea*) off southern California during 1940 and 1941. *J. Mar. Res.*, vol. VII, no. 3, pp. 511-542.
- Smith, Osgood R.
 1947. The location of sardine schools by super-sonic echo-ranging. *U. S. Fish and Wildl. Serv., Com. Fish. Rev.*, vol. 9, no. 1, pp. 1-6.
- Smith, Osgood R., and Elbert H. Ahlstrom
 1948. Echo-ranging for fish schools and observations on temperature and plankton in waters off central California in the spring of 1946. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.*, no. 44, pp. 1-30.
- South Pacific Fishery Investigations
 1947. The Pacific sardine fishery. *U. S. Fish and Wildl. Serv., Fishery Leaflet 129*, rev. 1947, pp. 1-6.
 1952. Zooplankton volumes off the Pacific Coast, 1951. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 73, pp. 1-37.
 1953. Zooplankton volumes off the Pacific Coast, 1952. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 100, pp. 1-41.
 1954a. Zooplankton volumes off the Pacific Coast, 1949-50. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 125, pp. 1-54.
 1954b. Zooplankton volumes off the Pacific Coast, 1953. *U. S. Fish and Wildl. Serv., Spec. Sci. Rept.: Fisheries*, no. 132, pp. 1-38.
- Widrig, Theodore M.
 1951. Abstract: Estimating tolerance limits for the age composition of a population of fish, as derived from random samples within length strata. *Biometrics*, vol. 7, no. 3, pp. 301.
 1954. Definitions and derivations of various common measures of mortality rates relevant to population dynamics of fishes. *Copeia*, 1954, no. 1, pp. 29-31.
 1954. A method of estimating the size of fish populations, with an application to the Pacific pilchard, *Sardinops caerulea*. *U. S. Fish and Wildl. Serv., Fish. Bull.*, no. 94, vol. 56, pp. 141-66.
- UNIVERSITY OF CALIFORNIA,
 SCRIPPS INSTITUTION OF OCEANOGRAPHY
- Bartholomew, George A., Jr., and Carl L. Hubbs
 1952. Winter populations of pinnipeds about Guadalupe, San Benito, and Cedros Islands, Baja California. *J. Mam.*, vol. 33, no. 2, pp. 160-171.
- Berner, Leo D.
 1954. On the previously undescribed aggregate form of the pelagic tunicate *Ritteriella picteti*. *Pac. Sci.*, vol. 8, no. 2, pp. 121-124.
- Brinton, Edward
 1953. *Thysanopoda spinicaudata*, a new bathypelagic giant euphausiid crustacean, with comparative notes on *T. cornuta* and *T. egregia*. *Wash. Acad. of Sci. J.*, vol. 43, no. 12, pp. 408-412.
- Buzzati-Traverso, Adriano, and Andreas Rechnitzer
 1953. Paper partition chromatography in taxonomic studies. *Science*, vol. 117, no. 3029, pp. 58-59.
- Defant, Albert
 1950. Reality and illusion in oceanographic surveys. *J. Mar. Res.*, vol. 9, no. 2, pp. 120-138.
- Fox, Denis L.
 1950. Comparative metabolism of organic detritus by inshore animals. *Ecology*, vol. 31, pp. 100-108.
- Fox, Denis L., John Isaacs, and Eugene Corcoran
 1952. Marine leptoel, its recovery, measurement and distribution. *J. Mar. Res.*, vol. 11, no. 1, pp. 29-46.
- Fox, D. L., C. H. Oppenheimer, and J. S. Kittredge
 1954. Microfiltration in oceanographic research. II. Retention of colloidal micelles by adsorptive filters and by filter-feeding invertebrates: proportions of organic to inorganic dispersoids and to organic solutes. *J. Mar. Res.*, vol. 12, no. 2, pp. 233-243.
- Goldberg, Edward D.
 1952. Iron assimilation by marine diatoms. *Biol. Bull.*, vol. 102, no. 3, pp. 243-248.
- Goldberg, Edward D., Marjorie Baker, and Denis L. Fox
 1952. Microfiltration in ocean research. I. Marine sampling with the molecular filter. *J. Mar. Res.*, vol. 11, no. 2, pp. 194-204.
- Goldberg, Edward D., Theodore J. Walker, and Alice Whisenand
 1951. Phosphate utilization by diatoms. *Biol. Bull.*, vol. 101, pp. 274-284, 1951.
- Hand, Cadet
 1954. Three Pacific species of "Lar" (including a new species), their hosts, medusae and relationships. (Coelenterata, Hydrozoa). *Pac. Sci.*, vol. 8, no. 1, pp. 51-67.
- Hubbs, Carl L.
 1947. Science of the sea (review of) *This great and wide sea*. R. E. Coker, *Sci. Mon.*, vol. 55, no. 5, pp. 345-346.
 1948a. "Leapfrogging" by topmelt and shark. *Copeia*, 1948, no. 1, p. 298.
 1948b. Changes in the fish fauna of western North America correlated with changes in ocean temperature. *J. Mar. Res.*, vol. 7, no. 3, pp. 459-482.
 1951. Record of the shark, *Carcharhinus longimanus*, accompanied by *Naukrates* and *Remora*, from the east-central Pacific. *Pac. Sci.*, vol. 5, no. 1, pp. 78-81.
 1952. Antitropical distribution of fishes and other organisms. *Seventh Pac. Sci. Cong. Proc.* 3, pp. 324-329.
 1953a. Identification and relationships of the anchovy described from California as *Anchovia scitula*. *Copeia*, 1953, no. 3, pp. 193-194.
 1953b. Synonymy of the bathypelagic fish genus *Rhynchohyalus*, referred to the expanded family Argentinidae. *Copeia*, 1953, no. 2, pp. 96-97.
- Hubbs, Carl L., and Wilbert M. Chapman
 1951. Identification as osmerids of two fishes described from the North Pacific as paralepidids. *Copeia*, 1951, no. 4, pp. 296.
- Hubbs, Carl L., and Clark Hubbs
 1953. An improved graphical analysis and comparison of series of samples. *Syst. Zool.*, vol. 2, no. 2, pp. 49-56, 92.

- Hubbs, Carl L., and John L. McHugh
1950. Pacific sharpnose shark (*Scoliodon longurio*) in California and Baja California. *Calif. Fish and Game*, vol. 36, no. 1, pp. 7-11.
1951. Relationships of the pelagic shark *Euprotomicrus bispinatus*, with description of a specimen from off California. *Calif. Acad. Sci. Proc.*, vol. 27, ser. 4, no. 6, pp. 159-176.
- Hubbs, Carl L., Giles W. Mead, and Norman J. Wilimovsky
1953. The widespread, probably antitropical distribution and the relationship of the bathypelagic inious fish *Anotopterus pharao*. *Scripps Inst. of Oceanog., Bull.*, vol. 6, no. 5, pp. 173-198.
- Hubbs, Carl L., and Andreas B. Rehnitzer
1952. Report on experiments designed to determine effects of underwater explosions of fish life. *Calif. Fish and Game*, vol. 38, no. 3, pp. 333-366.
- Hubbs, Carl L., and Robert L. Wisner
1953. Food of marlin in 1951 off San Diego, California. *Calif. Fish and Game*, vol. 39, no. 1, pp. 127-131.
- Isaacs, John D., and A. E. Maxwell.
1952. The ball-breaker, a deep-water bottom signalling device. *J. Mar. Res.*, vol. 11, no. 1, pp. 63-68.
- Johnson, Martin W.
1949. The postembryonic development of the copepod *Pseudodiaptomus euryhalinus* Johnson, and its phylogenetic significance. *Amer. Micros. Soc., Trans.*, vol. 67, pp. 319-330.
1954. Some outlines of plankton concentration in the eastern and tropical Pacific. *Eighth Pac. Sci. Cong. Proc.*
- Johnson, Martin W., and J. B. Olson.
1948. The life history and biology of a marine harpacticoid copepod, *Tisbe furcata* (Barid). *Biol. Bull.*, vol. 95, pp. 320-332.
- Jørgensen, C. Barker, and Edward D. Goldberg.
1953. Particle filtration in some ascidians and lamellibranchs. *Biol. Bull.*, vol. 105, no. 3, pp. 477-489.
- Lewis, George J., and Edward D. Goldberg.
1954. Iron in marine waters. *J. Mar. Res.*, vol. 13, no. 2, pp. 183-197.
- McEwen, George F., Martin W. Johnson, and Theodore R. Folsom.
1954. A statistical analysis of the performance of the Folsom plankton sample splitter, based upon test observations. *Archiv. für Meteorologie, Geophysik und Bioklimatologie*, series A, vol. 7.
- McGowan, John A.
1954. Observations on the sexual behavior and spawning of the squid, *Loligo opalescens*, at La Jolla, California. *Calif. Fish and Game*, vol. 40, no. 1, pp. 47-54.
- McHugh, John L.
1950. Increasing abundance of albatrosses off the coast of California. *Condor*, vol. 52, no. 4, pp. 153-156.
1951. Meristic variations and populations of northern anchovy (*Engraulis mordax mordax*). *Scripps Inst. of Oceanog., Bull.*, vol. 6, no. 3, pp. 123-160.
- 1952a. The food of the albacore (*Germo alalunga*) off California and Baja California. *Scripps Inst. of Oceanog., Bull.*, vol. 6, no. 4, pp. 161-172.
- 1952b. Fur seals preying on black-footed albatross. *J. Wildl. Man.*, vol. 16, no. 2, pp. 226.
1954. Distribution and abundance of the diatom *Ethmodiscus rex* off the west coast of North America. *Deep-Sea Res.*, vol. 1, pp. 216-223.
1954. Geographic variation in the Pacific Herring. *Copeia*, 1954, no. 2, pp. 139-151.
- McHugh, John L., and Elbert H. Ahlstrom
1951. Is the Pacific sardine disappearing? *Sci. Mon.*, vol. 62, no. 6, pp. 377-384.
- McHugh, John L., and John E. Fitch.
1951. An annotated list of the clupeoid fishes of the Pacific coast, from Alaska to Cape San Lucas, Baja California. *Calif. Fish and Game*, vol. 37, no. 4, pp. 491-495.
- Oppenheimer, Carl H.
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1954. The effect of marine bacteria on the development and hatching of pelagic fish eggs and the control of such bacteria by antibiotics. *Copeia*, 1954, no. 1, pp. 43-49.
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1953a. Development and migration of pigment cells in some teleost fishes. *J. Morphol.*, vol. 93, no. 1, pp. 69-99.
- 1953b. Systematics of vertebrate larvae. *Syst. Zool.*, vol. 2, no. 2, pp. 63-75.
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1953. Occurrence of an oil globule in eggs of Pleuronectid flatfishes. *Copeia*, 1953, no. 2, pp. 114-115.
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1949. The conception of alkalinity or excess base of sea water. *J. Mar. Res.*, vol. 8, pp. 14-20.
- Revelle, Roger.
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