

## PUBLICATIONS

July 1, 1975 to June 30, 1976

- Ahlstrom, E. H. 1976. Maintenance of quality in fish eggs and larvae collected during plankton hauls. In H. F. Steedman (ed.), Zooplankton fixation and preservation. Mono. Oceanogr. Method., 4:313-318.
- Ahlstrom, Elbert H., and Elizabeth Stevens. 1976. Report of neuston (surface) collections made on an extended CalCOFI cruise during May 1972. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Rept., (18):167-180.
- Alvarez, Saul, and Richard A. Schwartzlose. 1976. El golfo de California: un laboratorio oceanológico de gran interés. Calafia 3(1):14-17.
- Brothers, Edward B., Christopher P. Mathews, and Reuben Lasker. 1976. Daily growth increments in otoliths from larval and adult fishes. Fish. Bull., U.S., 74(1):1-8.
- Brown, Daniel M. 1975. Four biological samplers: opening-closing midwater trawl, closing vertical tow net, pressure fish trap, free vehicle drop camera. Deep-Sea Res., 22(8):565-567.
- Butler, John L., and Elbert H. Ahlstrom. 1976. Review of the deep-sea fish genus *Scopelengys* (Neoscopelidae) with a description of a new species, *Scopelengys clarkei*, from the central Pacific. Fish. Bull., U.S., 74(1):142-150.
- Cheng, Lanna. 1973(74). The ocean-strider *Halobates* (Heteroptera: Gerridae). J. Mar. Biol. Ass. India, 15(1):386-390.
- . 1976. Insecta hemiptera: Heteroptera, Gerridae, genus *Halobates*. Fich. Ident. Zooplankton, 147:1-4.
- Cheng, Lanna, and Ralph A. Lewin. 1975. Flatworms afloat. Nature, 258(5535):518-519.
- . 1976. Goose barnacles (Cirripedia: Thoracica) on flotsam beached at La Jolla, California. Fish. Bull., U.S., 74(1):212-217.
- Costa, Steven L., and John D. Isaacs. 1975. Anisotropic sand transport in tidal inlets. Symposium on Modeling Techniques, Sept., 1975, San Francisco, Proc., Amer. Soc. Civil Eng., 254-273.
- Cox, Charles S., J. H. Filloux, and Dan Cayan. 1976. Electromagnetic observations during MODE-I; sea floor electric field and transport. Polymode News, (14).
- Fleminger, Abraham. 1975. Geographical distribution and morphological divergence in American coastal-zone planktonic copepods of the genus *Labidocera*, p. 392-419. In L. Eugene Cronin (ed.) Estuarine research: 1: Chemistry, biology and the estuarine system. Academic Press, N.Y. 738 p.
- Grassle, J. F., H. L. Sanders, Robert R. Hessler, G. T. Rowe, and T. McLellan. 1975. Pattern and zonation: a study of the bathyal megafauna using the research submersible *Alvin*. Deep-Sea Res., 22(7):457-481.
- Gregory, Paul A., and Tom Jow. 1976. The validity of otoliths as indicators of age of petrale sole from California. Calif. Fish and Game, 62(2):132-140.
- Griffiths, Brian, Abraham Fleminger, B. Komor and M. Vannucci. 1976. Shipboard and curating techniques, p. 17-31. In H. Steedman (ed.) UNESCO manual on laboratory methods in the study of marine zooplankton. UNESCO Press, Paris.
- Hemingway, George T. 1975. Functional morphology of feeding in the predatory whelk, *Acanthina spirata* (Gastropoda: Prosobranchia). Bull. Amer. Malacol. Union, :64-65.
- . 1976. A comment on thaisid "cannibalism". Veliger, 18(3):341.
- Hessler, Robert R. 1975. An eye for an eye. A review of trilobites by Riccardo Levi Setti. Paleobiology, 2:94-96.
- Hessler, Robert R., and William A. Newman. 1975. A trilobitomorph origin for the Crustacea. Fossils and Strata, (4):437-459.
- Hessler, Robert R., and D. Thistle. 1975. On the place of origin of deep-sea isopods. Mar. Biol., 32(2):155-165.
- Hewitt, Roger. 1976. Sonar mapping in the California Current area: A review of recent developments. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Rept., (18):149-154.
- Hewitt, Roger P., Paul E. Smith, and John C. Brown. 1976. Development and use of sonar mapping for pelagic stock assessment in the California Current area. Fish. Bull., U.S., 74(2):281-300.
- Hunter, John R. 1976. Culture and growth of northern anchovy, *Engraulis mordax*, larvae. Fish. Bull., U.S., 74(1):81-88.
- Hunter, John R. (ed.). 1976. Report of a colloquium on larval fish mortality studies and their relation to fishery research, January 1975. NOAA Tech. Rept., NMFS Circ., (395):1-5.
- Isaacs, John D. 1975a. Assessment of man's impact on marine biological resources, p. 329-340. In Pearson and Frangipane (ed.) 2nd International Study Congr. on Marine Waste Disposal. Pergamon Press.
- . 1975b. Southern California Coastal Water Research Project findings, p. 463-471. In Pearson and Frangipane (ed.) 2nd International Study Congr. on Marine Waste Disposal. Pergamon Press.
- Isaacs, John D., and Richard A. Schwartzlose. 1975a. Active animals of the deep-sea floor. Sci. Amer., 233(4):85-91.
- . 1975b. Biological applications of underwater photography. Oceanus, 18(3): 24-30.
- Johnson, Martin W. 1975. The postlarvae of *Scyllarides astori* and *Eubiacus princeps* of the eastern tropical Pacific (Decapoda, Scyllaridae). Crustaceana, 28(2):139-144.
- Johnson, Martin W., and Margaret Knight. 1975. A supplementary note on the larvae of *Scyllarides astori* Holthuis (Decapoda, Scyllaridae). Crustaceana, 28(1):109-112.
- Kiefer, Dale A., and Reuben Lasker. 1975. Two blooms of *Gymnodinium splendens*, an unarmored dinoflagellate. Fish. Bull., U.S., 73(3):675-678.
- Kling, Stanley A. 1975. A lagoonal coccolithophore flora from Belize (British Honduras). Micropaleontology, 21(1):1-13.
- Klingbeil, Richard, and Eric H. Knaggs. 1976. Southern range extension of the blue rockfish, *Sebastodes mystinus*; the flag rockfish, *S. rubrivinctus*; and the shortbelly rockfish, *S. jordani*. Calif. Fish and Game, 62(2):160.
- Knaggs, Eric H., and Patricia A. Barnett. 1975. The southern California jack mackerel fishery and age composition of the catch for the 1962-63 through 1966-67 seasons. Calif. Dept. Fish and Game, Mar. Res. Tech. Rept., (28):1-28.
- Lasker, Reuben. 1975. Field criteria for survival of anchovy larvae: the relation between inshore chlorophyll maximum layers and successful first feeding. Fish Bull., U.S., 73(3):453-462.
- Lee, Richard F., and Lanna Cheng. 1974. A comparative study of the lipids of water-striders from marine, estuarine and freshwater environments: *Halobates*, *Rheumatobates*, *Gerris* (Heteroptera: Gerridae). Limnol. Oceanogr., 19(6):958-965.
- Lewin, Ralph A. and Lanna Cheng. 1975. Associations of microscopic algae with didemnid ascidians. Phycologia, 14(3):149-152.
- Loukashkin, Anatole S. 1976. On biology of the market squid, *Loligo opalescens*, a contribution toward the knowledge of its food habits and feeding behavior. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Rept., (18):109-111.
- MacCall, Alec D. 1976. Density dependence of catchability coefficient in the California Pacific sardine *Sardinops sagax caerulea*, purse seine fishery. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Rept., (18):136-148.
- MacCall, Alec D., Gary D. Stauffer, and Jean-Paul Troadec. 1976. Southern California recreational and commercial marine fisheries. Mar. Fish. Rev., 38(1):1-32.

- MacGregor, John S. 1976. DDT and its metabolites in the sediments off southern California. Fish. Bull., U.S., 74(1):27-35.
- Mais, K. F. (comp.) 1975. California Department of Fish and Game fisheries resources sea survey cruises, 1974. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Data Rept., (24):1-86.
- 1976. California Department of Fish and Game assessment of commercial fisheries resources cruises, 1975. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Data Rept., (25):1-122.
- Mantyla, Arnold W. 1975. On the potential temperature in the abyssal Pacific Ocean. J. Mar. Res., 33(3):341-354.
- Omori, Makoto, and Abraham Fleminger. 1976. Laboratory methods for processing crustacean zooplankton, p. 281-286. In H. Steedman (ed.) UNESCO manual on the study of marine zooplankton. UNESCO Press, Paris.
- Patzert, William C. 1976. El Niño watch. Intern. Un. Geodesy Geophys., XVI Gen. Ass., Proc., :230 (Abstr.)
- 1976. El Niño Expedition—A step towards ocean prediction. Program of Second Conference on Ocean-Atmosphere Interactions of the AMS. Bull. Amer. Met. Soc., 57(1):132. (Abstr.)
- Patzert, William C., and R. Bernstein. 1976. Eddy structure in the central South Pacific Ocean. J. Phys. Oceanogr., 6(3):392-394.
- Radovich, John. 1976. Catch-per-unit-of-effort: fact, fiction, or dogma. Mar. Res. Comm., Calif. Coop. Ocean. Fish. Invest., Rept., (18):31-33.
- Radwin, George E., and George T. Hemingway. 1976. *Muricanthus radix* and *Eupleura triquetra* (Gastropoda: Muricidae): new range records from western Baja California. Veliger, 18(3):339-340.
- Reid, Joseph L. 1975. A review of the physical oceanography of the southern California offshore region, p. 91. In Robert J. Lavenberg, and Sylvia A. Earle (eds.) Proc., Recommendations for Baseline Research in Southern California Relative to Offshore Resource Development. So. Calif. Acad. Sci., Proc., Spec. Pub., Los Angeles. 258 p. (Abstr.)
- Reid, Joseph L. and Robert S. Arthur. 1975. Interpretation of maps of geopotential anomaly for the deep Pacific Ocean. J. Mar. Res., 33 (Suppl.):37-52.
- Reid, Joseph L., and Arnold W. Mantyla. 1976. The effect of the geostrophic flow upon coastal sea elevations in the northern North Pacific Ocean. J. Geophys. Res., 81(18):3100-3110.
- Reid, Joseph L., W. D. Nowlin, and William C. Patzert. 1975. Circulation and distribution of characteristics in the Southwestern Atlantic Ocean. Intern. Un. Geodesy and Geophys., XVI Gen. Ass., Proc., :238-239. (Abstr.)
- Sakagawa, Gary T., and Makoto Kimura. 1976. Growth of laboratory-reared northern anchovy, *Engraulis mordax*, from southern California. Fish. Bull., U.S., 74(2):271-279.
- Schmitt, Walter R. 1975. Marine research opens new vistas for water management. Western Water (Nov-Dec. 1975):3-4.
- Schmitt, Walter, and J. D. Isaacs. 1975. Environmental effects of ocean thermal power plant operation. EOS, Trans. Amer. Geophys. Un., 56(12):1002. (Abstr.)
- Scura, Edward D., and Vance E. McClure. 1975. Chlorinated hydrocarbons in sea water: analytical method and levels in the northeastern Pacific. Mar. Chem., 3(4):337-346.
- Sessions, Meredith. 1975. Improved free vehicle current meter system. Exposure, 3(4):1-3.
- Soutar, Andrew. 1975. Historical fluctuations of climatic and bioclimatic factors as recorded in a varved sediment deposit in a coastal sea. WMO/IAMAP Symposium on Long-Term Climatic Fluctuations, Proc., (21):147-158.
- Spratt, Jerome D. 1975a. Anomalous otoliths from the northern anchovy, *Engraulis mordax*. Calif. Fish and Game, 61(4):235-236.
- 1975b. Growth rate of the northern anchovy, *Engraulis mordax*, in southern California waters, calculated from otoliths. Calif. Fish and Game, 61(3):116-126.
- 1976. The Pacific herring resource of Tomales and San Francisco Bays: its size and structure. Calif. Dept. Fish and Game, Mar. Res. Tech. Rept., (33):1-44.
- Stauffer, Gary, Alec MacCall, and Bruce Wahlen. 1975. Fish prices: historical trends in southern California commercial fisheries. Mar. Fish. Rev., 37(11):22-30.
- Sunada, John S. 1975. Age and length composition of northern anchovies, *Engraulis mordax*, in the 1972-73 season California anchovy reduction fishery. Calif. Fish and Game, 61(3):133-143.
- Tont, Sargun A. 1975. The effect of upwelling on solar irradiance near the coast of southern California. J. Geophys. Res., 80:5031-5034.
- Wick, Gerald L., and John D. Isaacs. 1975. Salinity power. Univ. of Calif., Inst. Mar. Res., IMR Ref., 75-9.1-33.
- Wine, Vickie L. and Eric H. Knaggs. 1975. Maturation and growth of jack mackerel, *Trachurus symmetricus*. Calif. Dept. Fish and Game, Mar. Res. Tech. Rept., (32):1-26.
- Wyrki, Klaus, and William C. Patzert. 1975. Predicting and observing El Niño. Intern. Un. of Geodesy Geophys., XVI Gen. Ass., Proc., :239. (Abstr.)
- Wyrki, Klaus, Edward Stroup, William C. Patzert, Robert Williams and William Quinn. 1976. Predicting and observing El Niño. Science, 191(4225):343-346.