

PUBLICATIONS

January 1 through December 31, 1988

- Ambrose, D. A., and H. G. Moser. Rearing, development, and early history of the California needlefish, *Strongylura exilis*. *Revue fr. Aquariol.* 15(2):43-48.
- Ambrose, D. A., R. L. Charter, H. G. Moser, and B. S. Earhart. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1963. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-94, 209 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1967. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-98, 103 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1975. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-110, 229 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1981. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-112, 170 pp.
- Barlow, J. Harbor porpoise, *Phocoena phocoena*, abundance estimation for California, Oregon, and Washington: I. ship surveys. *Fish. Bull.*, U.S. 86(3):417-432.
- Barlow, J., C. W. Oliver, T. D. Jackson, and B. Taylor. Harbor porpoise, *Phocoena phocoena*, abundance estimation for California, Oregon, and Washington: II. aerial surveys. *Fish. Bull.*, U.S. 86(3):433-444.
- Bradford, J. M., M. D. Ohman, and J. B. Jillett. Larval morphology and development of *Neocalanus tonsus*, *Calanoides macrocarinatus*, and *Calanus australis* (Copepoda:Calanoida) in the laboratory. *New Zealand J. Marine and Freshwater Res.* 22:301-320.
- D'Asaro, E. A., and P. P. Niiler. Near-inertial waves generated by a strong midlatitude storm. *Trans. Am. Geophys. Union* 69:1272.
- Ebert, T. B., and E. E. Ebert. An innovative technique for seeding abalone and preliminary results of laboratory and field trials. *Calif. Fish Game* 74(2):68-81.
- Eppley, R. W., and E. H. Renger. Nanomolar increase in surface layer nitrate concentration following a small wind event. *Deep-Sea Res.* 35:1119-1125.
- Eppley, R. W., E. Swift, D. G. Redalje, and M. Landry. Sub-surface chlorophyll maximum in August-September 1985 in the CLIMAX area of the North Pacific. *Mar. Ecol. Prog. Ser.* 42:289-301.
- Froelich, P. N., M. N. Arthur, W. C. Burnett, M. Deakin, V. Hensley, R. Jahnke, L. Kaul, K-H Kim, K. Roe, A. Soutar, and C. Vathakanon. Early diagenesis of organic matter in Peru continental margin sediments: phosphorite precipitation. *Mar. Geol.* 80:309-343.
- Genin, A., L. R. Haury, and R. Rosenblatt. Interactions of migrating zooplankton with shallow topography: predation by rockfishes and intensification of patchiness. *Deep Sea Res.* 35:151-175.
- Haaker, P. L., J. M. Duffy, K. C. Henderson, and D. O. Parker. The speckled scallop, *Argopecten circularis*, in Agua Hedionda Lagoon, San Diego County, California. *Calif. Dep. Fish Game, Mar. Res. Tech. Rep. no. 57*, 32 pp.
- Hanan, D. A., J. P. Scholl, and S. L. Diamond. Harbor seal, *Phoca vitulina richardsi*, census in California, May-June 1987. NOAA/NMFS SWR Admin. Rep. SWR-88-2, 41 pp.
- Haury, L. R. Vertical distribution of *Pleuromamma* (Copepoda:Metridiidae) across the eastern North Pacific Ocean. *Hydrobiologia* 167/168:335-342.
- Haury, L. R., and R. E. Pieper. Zooplankton: scales of biological and physical events. In *Marine organisms as indicators*, Soule and Kleppel, eds., New York: Springer-Verlag, pp. 35-72.
- Hayward, T. L. Primary production in the coastal transition zone of northern California. *EOS* 69:1261. (Abstract)
- Hayward, T. L., R. W. Eppley, E. L. Venrick, J. H. Swift, and K. L. Smith. Seasonality in the North Pacific. *Pacific Planning Report*. U. S. Global Ocean Flux Study Planning Report 9:101-110.
- Henderson, K. C., D. O. Parker, and P. L. Haaker. The survival and growth of transplanted adult pink abalone, *Haliotis corrugata*, at Santa Catalina Island. *Calif. Fish Game* 74(2):82-86.
- Herrick, S. F., Jr., and D. Hanan. A review of California entangling net fisheries, 1981-1986. U.S. Dep. Commer., NOAA Tech. Memo, NOAA-TM-NMFS-SWFC-108, 38 pp.
- Holts, D. B. Review of U. S. West Coast commercial shark fisheries. *Mar. Fish. Rev.* 50(1):1-8.
- Imawaki, S., P. P. Niiler, C. H. Gautier, D. Halpern, R. A. Knox, W. L. Large, D. S. Luther, J. C. McWilliams, J. N. Moum, and C. A. Paulson. A new method for estimating the turbulent heat flux at the bottom of the daily mixed layer. *J. Geophys. Res.* 93:14,005-14,012.
- Lasker, R. Food chains and fisheries: an assessment after 20 years. In *Toward a theory on biological-physical interactions in the world ocean*, B. J. Rothschild, ed. Kluwer Academic Publishers, pp. 173-182.
- . Studies on the northern anchovy: biology, recruitment and fishery oceanography. *Studies on Fisheries Oceanography*. Edited by the Japanese Society of Fisheries Oceanography. pp. 23-42.
- Lea, R. N. Family Himantolophidae added to the ichthyofauna of the temperate eastern North Pacific. *Calif. Fish Game* 74(3):180-182.
- Lea, R. N., and W. N. Eschmeyer. *Scorpaenichtys marmoratus* Girard, 1854. (Osteichthyes, Scorpaeniformes): proposed conservation of the specific name and confirmation of authorship. *Bull. Zool. Nomenclature* 45(2):132-134.
- Lea, R. N., C. C. Swift, and R. J. Lavenberg. Records of *Mugil curema* Valenciennes, the white mullet, from southern California. *Bull. South. Calif. Acad. Sci.* 87(1):31-34.
- Lee, D. K. A numerical study of the nonlinear stability of the eastern ocean circulation. *J. Geophys. Res.* 93:10,630-10,644.
- Liu, H. -T., J. J. Simpson, and J. C. Schedvin. A preliminary laboratory study of the lateral entrainment of non-local waters by a subsurface mesoscale eddy. *Exp. Fluids* 6:217-227.
- Lu, W. T., and P. P. Niiler. Evaluation latent heat flux approximations used in ocean general circulation models. *Trans. Am. Geophys. Union* 69:1232.

- Lynn, R. J., and J. J. Simpson. The offshore transport of California Undercurrent waters. EOS 69(44):1249. (Abstract)
- MacCall, A. D., T. L. Dickerson, J. R. Hunter, B. J. Macewicz, and M. H. Prager. Review of the spawning biology of *Scomber japonicus* in southern California. In International Council for the Exploration of the Sea. Mackerel Egg and Recruitment Workshop. Aberdeen, 25–29 Jan. 1988.
- Mullin, M. M. Production and distribution of nauplii and recruitment variability—putting the pieces together. In Toward a theory on biological-physical interactions in the world ocean, B. J. Rothschild, ed. Kluwer Academic Publ., pp. 297–320.
- Mullin, M. M., and E. R. Brooks. Extractable lipofuscin in larval marine fish. Fish. Bull., U.S. 86:407–415.
- Munk, W. H., W. C. O'Reilly, and J. L. Reid. Australia-Bermuda sound transmission experiment (1960) revisited. J. Phys. Oceanogr. 18(12):1876–1898.
- Niiler, P. P., and K. H. Brink. Lagrangian description of coastal transition jets off northern California. Trans. Am. Geophys. Union 69:1260.
- Niiler, P. P., R. E. Davis, and M. M. Hall. Low frequency eddy variability at 28°N, 152°W in the eastern North Pacific subtropical gyre. J. Phys. Oceanogr. 18:1670–1685.
- Niiler, P. P., D. K. Lee, and A. Warn Varnas. Comments on evanescent pressure gradient response in the upper ocean to subinertial wind stress forcing of finite wave length. J. Phys. Oceanogr. 18:1060–1061.
- Ohman, M. D. Behavioral responses of zooplankton to predation. Proceedings of the Zooplankton Behavior Symposium, G. -A. Paffenhofer and H. J. Price, eds. Bull. Mar. Sci. 43:530–550.
- . Sources of variability in measurement of copepod lipids and gut fluorescence in the California Current coastal zone. Mar. Ecol. Prog. Ser. 42:143–153.
- Paduan, J. D., and P. P. Niiler. Analysis of drifter trajectories during the Coastal Transition Zone Experiment, May 1987. Trans. Am. Geophys. Union 69: 1260.
- Parker, D. O., P. L. Haaker, and K. C. Henderson. Densities and size compositions of red abalone, *Haliotis rufescens*, at five locations on the Mendocino and Sonoma county coasts, September 1986. Calif. Dep. Fish Game, Mar. Res. Admin. Rep. 88–5, 65 pp.
- Peterman, R. M., M. J. Bradford, N. C. H. Lo, and R. D. Methot. Contribution of early life stages to interannual variability in recruitment of northern anchovy (*Engraulis mordax*). Can. J. Fish. Aquat. Sci. 45:8–16.
- Reilly, P. N. Growth of young-of-the-year and juvenile Pacific herring from San Francisco Bay, California. Calif. Dep. Fish Game 74(1):38–48.
- Reilly, P. N., and T. O. Moore. Pacific herring, *Clupea harengus pallasii*, studies in San Francisco and Tomales bays, April 1987 to March 1988. Calif. Dep. Fish Game Mar. Res. Admin. Rep. 88–20:1–62.
- Sandknop, E. M., R. L. Charter, H. G. Moser, C. A. Meyer, and A. E. Hays. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1961. U. S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-92, 167 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1964. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-95, 222 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1968. U. S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-99, 112 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1978. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-111, 216 pp.
- Simpson, J. J., and R. J. Lynn. Eddy structure in the transition zone of the California Current system. EOS 69(44):1249. (Abstract)
- Spratt, J. D. Biomass estimates of Pacific herring, *Clupea harengus pallasii*, in California from the 1987–88 spawning-ground surveys. Calif. Dep. Fish Game Mar. Res. Admin. Rep. 88–6.
- . Biological characteristics of the gill net catch from the 1987–88 Pacific herring, *Clupea harengus pallasii*, roe fishery in California. Calif. Dep. Fish Game, Mar. Res. Admin. Rep. 88–7.
- Stevens, E. G., R. L. Charter, H. G. Moser, and Larry R. Zins. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1965. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-96, 220 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1969. U. S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-100, 265 pp.
- Sumida, B. Y., R. L. Charter, H. G. Moser, and D. L. Snow. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1962. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-93, 179 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1966. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-97, 287 pp.
- . Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1972. U.S. Dep. Commer., NOAA Tech. Memo., NOAA-TM-NMFS-SWFC-109, 219 pp.
- Theilacker, G. H. Euphausiid predation on larval anchovy at two contrasting sites off California determined with an ELISPOT immunoassay. In Lecture notes on coastal and estuarine studies, vol. 25: immunochemical approaches to coastal, estuarine and oceanographic questions, C. M. Yentsch, F. C. Mague, and P. K. Horan, eds. Springer-Verlag, pp. 304–311.
- Venrick, E. L. The vertical distributions of chlorophyll and phytoplankton species in the North Pacific central environment. J. Plankton Res. 10(5):987–998.
- Watanabe, Y., J. L. Butler, and T. Mori. Growth of the Pacific saury, *Cololabis saira*, in the northeastern and northwestern Pacific Ocean. Fish. Bull., U.S. 86(3):489–498.