

TABLE 3  
ANCHOVY LANDINGS FOR REDUCTION  
IN THE SOUTHERN AND NORTHERN PERMIT AREAS  
1965-66 Through 1967-68

Season	Southern Permit Area	Northern Permit Area	Total
1965-66*	16,468	375	16,843
1966-67†	29,589	8,021	37,610
1967-68‡	852	5,651	6,503
Total	46,909	14,047	60,956

Seasons:  
\* October 15, 1965 through April 30, 1966.  
† October 1, 1966 through April 30, 1967.  
‡ September 15, 1967 through May 15, 1968.

TABLE 4  
COMMERCIAL LANDINGS AND LIVE BAIT CATCH  
OF ANCHOVIES IN TONS 1963 THROUGH 1967

Year	Reduction	Other Commercial	Live Bait	Total
1963	0	2,285	4,442	6,727
1964	0	2,488	5,191	7,679
1965	170	2,866	6,148	9,184
1966	27,335	3,705	6,691	37,731
1967	32,349	2,455	5,387	40,191

TABLE 5  
JACK AND PACIFIC MACKEREL CATCH IN TONS,  
1963-64 THROUGH 1965-66  
(Period May Through April)

Season	Jack Mackerel	Pacific Mackerel
1963-64	42,038	17,105
1964-65	39,557	12,437
1965-66	33,831	3,794
1966-67	22,889	2,037
1967-68	18,712	691

## PUBLICATIONS

### 1 July 1966-30 JUNE 1968

- Aasen, Kenneth D. 1967a. Review of the pelagic wet fisheries for the 1963-64, 1964-65, 1965-66 seasons. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11:21-22.
- 1967b. Summary of the 1963 and 1964 southern California inshore bait fishery. *Calif. Fish and Game*, 53(1): 28-34.
- Ahlstrom, Elbert H. 1967. Co-occurrences of sardine and anchovy larvae in the California Current region off California and Baja California. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11:117-135.
- Ahlstrom, Elbert H., J. L. Baxter, J. D. Isaacs and P. M. Roedel. 1967. Report of the CalCOFI Committee. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11:5-9.
- Allen, George H., and Patrick O'Brien. 1967. Preliminary experiments on the acclimatization of juvenile king salmon, *Oncorhynchus tshawytscha* to saline water mixed with sewage pond effluent. *Calif. Fish and Game*, 53(3): 180-184.
- Alvarino, A. 1965a. Distributional atlas of Chaetognatha in California Current region. CalCOFI monthly cruises of 1954 and 1958. *CalCOFI Atlas*, (3): 1-291.
- 1965b. Zoogeography of the Sea of Cortes: Chaetognatha, Siphonophorae and Medusae. *Second Mexican Cong. Oceanogr.* (In Spanish) (Abstr.)
- 1966. Zoogeography of California: Chaetognatha. *Soc. Mexicana Hist. Nat., Rev.*, 27(2): 236-240; also, *Univ. Calif. SIO Contrib.*, 1967 (2139).

- 1967a. A new Siphonophorae, *Vogtia kuruae*, n. sp. *Pac. Sci.*, 21(2): 236-240; also, *Univ. Calif. SIO Contrib.*, 1967 (2109).
- 1967b. The Chaetognatha of the NAGA Expedition (1959-1961) in the South China Sea and the Gulf of Thailand. Pt. 1. Systematics. *Univ. Calif. SIO NAGA Rept.*, 4(2): 1-197.
- 1967c. Evolution in Chaetognatha. Distribution and morphology. *Third Mexican Cong. Oceanogr.* (In Spanish) (Abstr.)
- 1967d. Bathymetric distribution of Chaetognatha, Siphonophorae, Medusae and Ctenophorae off San Diego, California. *Pac. Sci.*, 21(4): 474-485; also, *Univ. Calif. SIO Contrib.*, 1967 (2171).
- 1967e. Chaetognatha, Siphonophorae and Medusae in the Equatorial Atlantic Ocean, off the Amazon Estuary. *Int. Symp. Coastal Lagoons, Mexico City, Nov., 1967.* (Abstr.)
- 1968. Two new Calycephorae, Siphonophorae. *Pac. Sci.*, 22(3): 340-346.
- Baxter, John L. 1966. Anchovy population size. *Calif. Dept. Fish and Game, MRO Ref.*, (66-21): 1-2.
- 1967. Summary of biological information on the northern anchovy *Engraulis mordax* Girard. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11:110-116.
- (Editor). 1967. Symposium on anchovies, genus *Engraulis*. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11:27-139.
- Beaman, Robert D., and John A. McGowan. 1968. Ophistobranch mollusks from California. Pt. 2. The Order Anaspidea; Thecosomata and Gymnosomata. *Veliger*, 3, Suppl.: 86-129.
- Benson, A. A. 1967a. On the orientation of lipids on chloroplasts and cell membranes. (Transl. from Japanese by I. Shibuya) *Kagaku to Seibutsu (Chem. and Biol.)*, 5:85-92.
- 1967b. Carbon reduction cycle (in photosynthesis), p. 187-189. In R. J. Williams and E. M. Lansford, Jr. (eds.) *Encyclopedia of biochemistry*. Reinhold Pub. Co., New York.
- 1967c. Lipid function in plant membranes. *Colloq. 10, Seventh Int. Cong. Biochem., Tokyo*, 3: 525-526. (Abstr.)
- Benson, A. A., and M. R. Atkinson. 1967. Choline sulfate and phosphate in salt excreting plants. *Fed. Proc.*, 26(1): 394. (Abstr. 772)
- Biale, J. B., S. F. Yang and A. A. Benson. 1966. Lipids in plant mitochondria. *Fed. Proc.*, 25(2): 405. (Abstr. 1214)
- Brinton, Edward. 1966. Remarks and euphausiacean phylogeny. *Mar. Biol. Ass., India, Symp. on Crustacea*, Pt. 1: 255-259.
- 1967a. Distributional atlas of Euphausiacea (Crustacea) in the California Current region, Part 1. *CalCOFI Atlas*, (5): 1-275.
- 1967b. Vertical migration and avoidance capability of Euphausiids in the California Current. *Limnol. Oceanogr.*, 12(3): 451-483.
- 1967c. On the naturalness of change in marine populations. *Ass. Fish. Technol. India, Bull.*
- Brinton, Edward, and K. Gopalakrishnan. 1968. Preliminary study of the distribution of Euphausiacea in the Indian Ocean. *Nat. Inst. Sci. India (Biol.), Proc.*
- Brown, Daniel M. 1967. Surface water temperatures at shore stations. U.S. West Coast, 1966. *Univ. Calif. SIO Ref.*, (67-9).
- Carlucci, A. F., and S. B. Silbernagel. 1966a. Bioassay of sea water. 2. Methods for the determination of concentrations of dissolved vitamin B<sub>1</sub> in sea water. *Can. J. Microbiol.*, 12: 1079-1089.
- 1966b. Bioassay of sea water. 3. Distribution of vitamin B<sub>12</sub> in the northeast Pacific Ocean. *Limnol. Oceanogr.*, 11: 642-646.
- 1967a. Bioassay of sea water. 4. The determination of dissolved biotin in sea water using <sup>14</sup>C uptake by cells of *Amphidinium carteri*. *Can. J. Microbiol.*, 13: 979-986.
- 1967b. Determination of vitamins in seawater. *I.B.P. Symp., Chemical environment in the aquatic habitat, N. V. Noord-Hollandsche Vitgevers Maatschappij, Amsterdam, Proc.*, 239-244.
- Carlucci, A. F., and J. D. H. Strickland. 1968. The isolation, purification and some kinetic studies of marine nitrifying bacteria. *J. Exper. Mar. Biol. Ecol.*, 2(2): 156-166.
- Cox, Charles S. 1966. Energy in semidiurnal internal waves. *Symp. Mathematical-Hydrodynamical Invest. of Physical*

- Process in the Sea, Inst. Meeresk. Univ. Hamburg, Proc.*, 69-80.
- 1967a. Internal waves. U.S. National Report, 1963-1967, 14th General Assembly. Amer. Geophys. Union, Trans., 48(2) : 588-591.
- 1967b. The relation of backscattered radiation to wind-stress at the sea surface. *Univ. Calif. SIO Ref.*, (67-28).
- Duffy, J. M. 1968. Jack mackerel yield per area from California waters, 1955-56 through 1963-64. *Calif. Fish and Game*, 54(3) : 195-202.
- Evans, Martha W., Richard A. Schwartzlose and John D. Isaacs. 1968. Data from deep moored instrument stations, *Univ. Calif. SIO Ref.*, (68-17) :
- Fager, E. W. 1968. The community of invertebrates in decaying oak wood. *J. Animal Ecol.*, 37(1) : 121-142.
- Fager, E. W., A. O. Flechsig, R. F. Ford, R. I. Clutter and R. J. Ghelardi. 1966. Equipment for use in ecological studies using SCUBA. *Limnol. Oceanogr.*, 11(4) : 503-509.
- Feder, Howard M., and Reuben Lasker. 1968. A radula muscle preparation from the gastropod, *Kelletia kelletii*, for biochemical assays. *Veliger*, 10 : 283-285.
- Fitch, John E. 1967. Fish remains recovered from a Corona del Mar, California, Indian midden (ORA-190). *Calif. Fish and Game*, 53(3) : 185-191.
- Fleminger, Abraham. 1967. Taxonomy, distribution, and polymorphism in the *Labidocera jollae* group with remarks on evolution within the group (Copepoda: Calanoida). *U.S. Nat. Mus., Proc.*, 120(3567) : 1-61.
- Fleminger, Abraham, and Engchow Tan. 1966. The *Labidocera mirabilis* species group (Copepoda, Calanoida) with description of a new Bahamian species. *Crustaceana*, 11(3) : 291-301.
- Frost, B., and A. Fleminger. 1968. A revision of the genus *Clausocalanus* (Copepoda: Calanoida) with remarks on distributional patterns in diagnostic characters. *Univ. Calif. SIO, Bull.*, 12 : 1-99.
- Green, Roger E. 1967. Relationship of the thermocline to success of purse seining for tuna. *Amer. Fish. Soc., Trans.*, 96 : 126-130.
- Hanson, Jack A., and Russell H. Wickwire. 1967. Fecundity and age at maturity of lake trout, *Salvelinus namaycush* (Walbaum), in Lake Tahoe. *Calif. Fish and Game*, 53(3) : 154-164.
- Hayasi, Sigeiti. 1968. Preliminary analysis of the catch curve of Pacific sardine *Sardinops caerulea* Girard. *U.S. Fish Wild. Serv., Fish. Bull.*, 66 : 587-598.
- Heimann, Richard F. G., (Comp.). 1967. California Dept. of Fish and Game Sea Survey cruises 1961. *Calif. Coop. Ocean. Fish. Invest., Data Rept.*, (11) : 1-56.
- Hester, Frank J. 1967. Identification of biological sonar targets from body-motion Doppler shifts. *Second Symp. Mar. Bio-Acoustics, Proc.*, 2 : 59-74.
- Hubbs, Carl L. 1967. Occurrence of the Pacific lamprey, *Entosphenus tridentatus*, off Baja California and in streams of southern California; with remarks on its nomenclature. *San Diego Soc. Nat. Hist., Trans.*, 14(21) : 301-312.
- 1968. Black-footed albatross, banded at Midway Island, recovered off Baja California in first year. *Condor*, 70(1) : 92.
- Hubbs, Carl L., and Richard C. Banks. 1966. Wandering onto the eastern Pacific Ocean of an eastern North American land bird, the Bay-breasted Warbler. *Auk*, 83(4) : 680-682.
- Hubbs, Carl L., Tamotsu Iwai and Kiyomatsu Matsubara. 1967. External and internal characters, horizontal and vertical distribution, luminescence, and food of the dwarf pelagic shark, *Euprotomicrus bispinatus*. *Univ. Calif. SIO, Bull.*, 10 : 1-81.
- Hunter, John R. 1967. Color changes of pelagic prejuvenile goatfish, *Pseudupeneus grandisquamis*, after confinement in a shipboard aquarium. *Copeia*, (4) : 850-852.
- 1968. Effects of light on schooling and feeding of jack mackerel, *Trachurus symmetricus*. *Fish. Res. Board Can.*, J., 25 : 393-407.
- Hunter, John R., and Charles T. Mitchell. 1967. Association of fishes with flotsam in the offshore waters of central America. *U.S. Fish Wild. Serv., Fish. Bull.*, 66 : 13-29.
- 1968. Field experiments on the attraction of pelagic fish to floating objects. *Cons. Perm. Int. Explor. Mer*, J., 31 : 427-434.
- Isaacs, John D. 1966. The sea and man. *Portal*, (1st ed.) : 18-28.
- 1967a. Food from the sea. *International Science and Technology Special Survey* : 61-68.
- 1967b. Remarks on some present and future buoy developments. *Mar. Tech. Soc., 2nd Int. Buoy Tech. Symp., Sept. 18-20, 1967, Washington, D.C., Trans.*
- 1968a. The North Pacific study. *3rd Marine Systems and ASW Meeting, San Diego, California, April 30, 1968, AIAA Pap.* (68-475).
- 1968b. General features of the ocean, p. 157-201. In John F. Braatz (ed.) Ocean engineering. Univ. Calif. Engineer. and Physical Sci. Ext. Ser., John Wiley and Sons, New York.
- Isaacs, John D., and D. M. Brown. 1966. Isaacs-Brown opening closing trawl. *Univ. Calif. SIO Ref.*, (68-18).
- 1968. "Bootstrap" corer. *J. Sedimen. Petrol.*, 38(1) : 159-162.
- Isaacs, John D., Joseph L. Reid, Jr., George B. Schick and Richard A. Schwartzlose. 1966. Near-bottom currents measured in 4-kilometers depth off the Baja California coast. *J. Geophys. Res.*, 71(18) : 4297-4303.
- Ji, Tae H., John L. Hess and A. A. Benson. 1968. The nature of B-Carotene association in chloroplast lamellae, p. 36-49. In K. Shibata, A. Takamiya, A. T. Jagandorf and R. C. Fuller (eds.) Comparative biochemistry and biophysics of photosynthesis. Univ. Tokyo Press.
- Johnson, Martin W. 1966. The nauplius larvae of *Eurytemora herdmani* Thompson and Scott, 1897 (Copepoda, Calanoida). *Crustaceana*, 11(3) : 307-313.
- 1967. Some observations on the hatching of *Tortanus discaudatus* eggs subjected to low temperatures. *Limnol. Oceanogr.*, 12(3) : 405-410.
- Katayama, Masayuki, and A. A. Benson. 1967. Alinolenate and photosynthetic activity in *Chlorella protothecoides*. *Plant Physiol.*, 42(3) : 308-313.
- Kato, Susumu. 1968. *Triakis acutipinna* (Galeoidea, Triakidae), a new species of shark from Ecuador. *Copeia*, (2) : 319-325.
- Kato, Susumu, and Anatolio Hernandez Carvallo. 1967. Shark tagging in the eastern Pacific Ocean, 1962-65, p. 93-109. In P. W. Gilbert (ed.) Sharks, skates and rays. John Hopkins Press, Baltimore.
- Kato, Susumu, Stewart Springer and Mary H. Wagner. 1967. Field guide to eastern Pacific and Hawaiian sharks. *U.S. Fish Wild. Serv., Circ.*, (271) : 1-47.
- Kimura, Makoto, and C. E. Blunt, Jr. 1967. Age, length composition, and catch localities of sardine landings on the Pacific coast of the United States and Mexico in 1962-63. *Calif. Fish and Game*, 53(2) : 105-124.
- Knight, Margaret D. 1967. The larval development of the sand crab *Emerita rathbunae* Schmitt (Decapoda, Hippidae). *Pac. Sci.*, 21(1) : 58-76.
- 1968. The larval development of *Blepharipoda occidentalis* Randall and *B. spinimana* (Philippi) (Decapoda, Alpheidae). *Calif. Acad. Sci., Proc.*, 35(16) : 337-370.
- Kramer, David, and Elbert H. Ahlstrom. 1968. Distributional atlas of fish larvae in the California Current region: northern anchovy, *Engraulis mordax* Girard, 1951 through 1965. CalCOFI Atlas, (9) : 1-269.
- Lea, Robert N. 1967. Observations on the food habits of adult black crappie in a California lake. *Ichthyol., The Aquarium Jour.*, 39(2) : 93-94.
- Leong, Roderick. 1967. Evaluation of a pump and reeled hose system for studying the vertical distribution of small plankton. *U.S. Fish Wild. Serv., Spec. Sci. Rept.-Fish.*, (545) : 1-9.
- Lynn, Ronald J. 1967. Seasonal variation of temperature and salinity at 10 meters in the California Current. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11 : 157-186.
- Lynn, Ronald J., and Joseph L. Reid. 1967. Potential density in the western Atlantic Ocean. (Presented at the 48th Annual Meeting of the American Geophysical Union, 17-20 April, 1967, Washington, D. C.). *Amer. Geophys. Union, Trans.*, 48(1) : 131. (Abstr.)

- McClelland, Robert J. 1968. Fish school occurrence as determined by sonar: eastern tropical Pacific, July-November 1967. *Comm. Fish. Rev.*, 30(4) : 26-29.
- McCormick, J. Michael, R. Michael Laurs and James E. McCauley. 1967. A hydroid epizoic on myctophid fishes. *Fish. Res. Board Can.*, J., 24 : 1985-1989.
- McGowan, John A. 1967. Distributional atlas of pelagic molluses in the California Current region. *CalCOFI Atlas*, (6) : 1-218.
- McGowan, J. A., and D. M. Brown. 1966. A new opening-closing paired zooplankton net. *Univ. Calif. SIO Ref.*, (66-23) : 1-56.
- McGowan, J. A., and V. J. Fraundorf. 1966. The relationship between size of net used and estimates of zooplankton diversity. *Limnol. Oceanogr.*, 11(4) : 456-469.
- McGowan, J. A., and Takashi Okatani. 1968. A new species of enopoteuthid squid, *Abraulopsis* (Watasesia) *felis*, from the California Current. *Veliger*, 11(1) : 72-79.
- Messersmith, J. D. 1967. Tagged anchovies move from southern California to Monterey Bay. *Calif. Fish and Game*, 53(3) : 209.
- Miyachi, Shigetoh, Shizuko Miyachi and A. A. Benson. 1966. Sulfolipid in *Ochromonas danica*. *J. Protozool.*, 13 : 76-78.
- Moser, H. Geoffrey. 1967a. Reproduction and development of *Sebastodes paucispinis* and comparison with other rockfishes off southern California. *Copeia*, (4) : 773-797.
- 1967b. Seasonal histological changes in the gonads of *Sebastodes paucispinis* Ayres, an ovoviparous teleost (family Scorpaenidae). *J. Morphol.*, 123 : 329-354.
- Owen, Robert W., Jr. 1967. Atlas of July oceanographic conditions in the northeast Pacific Ocean, 1961-64. *U.S. Fish Wild. Serv., Spec. Sci. Rept.-Fish.*, (549) : 1-85.
- 1968. Oceanographic conditions in the northeast Pacific Ocean and their relation to the albacore fishery. *U.S. Fish Wild. Serv., Fish Bull.*, 66 : 503-526.
- Patton, Stuart, and A. A. Benson. 1966a. Phytol metabolism in the bouvine. *Biochim. Biophys. Acta*, 125 : 22-32.
- 1966b. Synthesis of phytanic acid. *J. Lipid Res.*, 7 : 452-453.
- Patton, Stuart, G. Fuller, A. R. Loeblich, III and A. A. Benson. 1966. Fatty acids of the "red tide" organism, *Gonyaulax polyedra*. *Biochim. Biophys. Acta*, 116 : 577-579.
- Patton, Stuart, P. T. Chandler, E. B. Kalan, A. R. Loeblich, III, G. Fuller and A. A. Benson. 1967. Food value of red tide (*Gonyaulax polyedra*). *Science*, 158(3802) : 789-790.
- Radok, Rainer, Walter Munk and John D. Isaacs. 1967. A note on mid-ocean internal tides. *Deep-Sea Res.*, 14 : 121-124.
- Reid, Joseph L. 1966a. Zetes Expedition. *Amer. Geophys. Union, Trans.*, 47(4) : 555-561.
- 1966b. California Current, p. 154-157. In Rhodes W. Fairbridge (ed.) Encyclopedia of oceanography. Encyclopedia of Earth Sci. Ser., vol. 1. Reinhold Pub. Corp., New York.
- 1966c. Physical oceanography, Pacific Ocean, p. 660-665. In Rhodes W. Fairbridge (ed.) Encyclopedia of oceanography. Encyclopedia of Earth Sci. Ser., vol. 1. Reinhold Pub. Corp., New York.
- 1967a. Oceanography, p. 512-513. In The Americana Annual, 1967. Americana Corp., New York.
- 1967b. Intermediate and deep circulation. *Amer. Geophys. Union, Trans.*, 48(2) : 572-575.
- 1967c. Oceanic environments of the genus *Engraulis* around the world. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11 : 29-33.
- 1967d. Upwelling, p. 1638-1640. In S. K. Runcorn (ed.) International dictionary of geophysics. Pergamon Press, London.
- Reid, Joseph L., and Ronald J. Lynn. 1967a. Salinity, potential temperature, and potential density of the abyssal waters of the world ocean. (Presented at the 48th Annual Meeting of the American Geophysical Union, 17-20 April, 1967, Washington, D.C.) *Amer. Geophys. Union, Trans.*, 48(1) : 131. (Abstr.)
- 1967b. Properties and circulation of deep and abyssal waters. *Symposium on General Circulation of the Oceans, I.U.G.G., I.A.P.O., General Assembly at Berne, Sept.-Oct., 1967. Abstr. of Papers* : 22.
- Reid, Joseph L., Henry Stommel, E. Dixon Stroup and Bruce A. Warren. 1968. Detection of a deep boundary current in the western South Pacific. *Nature*, 217 : 937.
- Robinson, Margaret K. 1966. Bathythermograph analysis and processing. *Univ. Calif. SIO Ref.*, (66-5) : 18-23.
- 1967. Comparison of M. Koizumi and M. K. Robinson computations of seasonal variation of mean sea surface temperatures in the East China Sea. *Oceanogr. Soc. Japan, J.*, 23(1) : 29-38.
- Roedel, Philip M. 1967. The role of the CalCOFI Committee in relation to the California anchovy fishery. *Calif. Dept. Fish and Game, MRO Ref.*, (67-9) : 1-8.
- Roedel, Philip M., and Herbert W. Frey. 1968. California-based fisheries off the west coast of Mexico for temperate tunas, market fish, and sport fish. *Calif. Dept. Fish and Game, Fish Bull.*, (138) : 49-76.
- Roedel, Philip M., and P. D. Petrich. 1968. Design of a new fisheries research vessel for California. *Second FAO Tech. Conf. on Fish. Res. Craft.*, Seattle, 1(1/I) : 1-8.
- Roedel, Philip M., John L. Baxter and J. D. Messersmith. 1967. Report on the anchovy fishery. *Calif. Dept. Fish and Game, MRO Ref.*, (67-21) : 1-10.
- Schick, G. B. 1966. Mooring line cutter. *Geo-Marine Technol.*, 2(7) : 23-25.
- 1967. Plastics in experimental oceanographic instrumentation. *Soc. Plastics Indust. West. Sec., 24th Ann. Conf.*, 7-1, 7-8.
- Schick, G. B., and P. M. Marshall. 1966. Jacketed deep-sea mooring line. *Geo-Marine Technol.*, 2(8) : 16-19.
- Schick, G. B., J. D. Isaacs and M. H. Sessions. 1968. Autonomous instrument in oceanographic research. *Fourth National ISA Marine Sciences Instrumentation Symp.*, Jan. 23, Cocoa Beach, Florida.
- Sessions, M. H., J. D. Isaacs and R. A. Schwartzlose. 1968. A camera system for the observation of deep-sea marine life. *Soc. Photo-Optical Instrumentation Engineers, Underwater Photo-Optical Instrumentation Applications Seminar*, Feb. 5-6, 1968, San Diego.
- Shively, J. M., and A. A. Benson. 1967. Phospholipids of *Thiobacillus thiooxidans*. *J. Bact.*, 94 : 1679-1683.
- Soutar, A. 1967. Accumulation of fish debris in certain California coastal sediments. *Calif. Coop. Ocean. Fish. Invest., Rept.*, 11 : 136-139.
- 1968. A preliminary investigation into the serial occurrence of fish debris in the Santa Barbara Basin sediments. Master's Thesis, Univ. Calif., San Diego.
- Soutar, A., and W. H. Berger. 1967. Planktonic foraminifera: field experiment on production rate. *Science*, 156(3781) : 1495-1497.
- Thomas, William H., and Anne N. Dodson. 1968. Effects of phosphate concentration on cell division rates and yield of a tropical oceanic diatom. *Biol. Bull.*, 134(1) : 199-208.
- Threadgold, L. T., and Reuben Lasker. 1967. Mitochondriogenesis in integumentary cells of the larval sardine (*Sardinops caerulea*). *J. Ultrastruct. Res.*, 19 : 238-239.
- Vrooman, A., P. Paloma and R. Jordan. 1966. Experimental tagging of northern anchovy, *Engraulis mordax*. *Calif. Fish and Game*, 52(4) : 228-239.
- Warren, Bruce A., E. D. Stroup, Henry Stommel and Joseph L. Reid. 1968. Detection of a deep boundary current in the western South Pacific. *Amer. Geophys. Union, Trans.*, 49(1) : 200. (Abstr.)
- Weier, T. Elliot, and A. A. Benson. 1966. The molecular nature of chloroplast membranes, p. 91-112. In T. W. Goodwin (ed.) Biochemistry of chloroplasts, vol. 1. Academic Press, London.
- Weier, T. Elliot, and Andrew Benson. 1967. The molecular organization of chloroplast membranes. *Amer. J. Bot.*, 54(4) : 389-402.

- Whitney, Richard R. 1967. Introduction of commercially important species into inland mineral waters, a review. *Univ. Miami, Contrib. Mar. Sci.*, 12: 262-280.
- Wood, Richard, and Robson A. Collins. 1967. A portable receiver for holding live fish. *Calif. Fish and Game*, 53(4): 286-288.
- Wooster, W. S. 1966. Peru (Humboldt) Current, p. 695-698. In Fairbridge, R. W. (ed.) *The Encyclopedia of oceanography*. Reinhold Pub. Co., New York.
- . 1967. Further observations on the secondary nitrite maximum in the northern Equatorial Pacific. *J. Mar. Res.*, 25(2): 154-161.
- Wooster, W. S., and J. W. Hedgepeth. 1966. The oceanographic setting of the Galapagos, p. 100-107. In R. I. Bowman (ed.) *The Galapagos. Symposia of the Galapagos International Scientific Project*, Proc. Univ. Calif. Press, Berkeley.
- Wooster, Warren S., Milner B. Schaefer and Margaret K. Robinson. 1967. Atlas of the Arabian Sea for fishery oceanography. *Univ. Calif. IMR Ref.*, (67-12): 1-35.
- Yang, S. F., Sofia Freer and A. A. Benson. 1967. Transphosphatidylation by phospholipase D. *J. Biol. Chem.*, 242: 477-484.