

## Authors, Titles, and Subjects in the *Marine Fisheries Review*, Vol. 47, No. 1-4, 1985

## A

- Alaska, southeastern  
Scarred pacific salmon at freshwater recovery sites, 1:39
- Albacore  
Commercial passenger fishing vessel industry, 3:48-53
- Allsup, M. G.—see Licciardello et al.
- Ammodytes*, Sand Lance, 1:78
- Ampola, Vincent G., and Cynthia L. Keller,  
"Shelf life extension of drawn whole cod and cod fillets by treatment with potassium sorbate," 3:26
- Anderson, Eric, "Economics of the Pacific whiting, *Merluccius productus*, fishery," 2:42
- Aquaculture  
Molluscan mariculture in the greater Caribbean 4:1

## B

- Bailey, K. M.—see Livingstone, P. A.
- Bailey, Kevin M., and Robert C. Francis, "Recruitment of Pacific whiting, *Merluccius productus*, and the ocean environment," 2:8
- Barnett, Harold J.—see Conrad et al.
- Barnett, Harold J.—see Nelson et al.
- Basham, Larry R.—see Slatick, Emil
- Beamish, Richard J.—see McFarlane, Gordon A.
- Beamish, Richard J., and Gordon A. McFarlane,  
"Pacific whiting, *Merluccius productus*, stocks off the west coast of Vancouver Island, Canada," 2:75
- "Behavioral factors influencing fish entrapment at offshore cooling-water intake structures in Southern California," by Mark Helvey, 1:18
- Behavioral studies  
Fish entrapment at cooling water intake structures, 1:18
- Salmonids at dams, 3:38-42
- "Biology and fishery of Pacific whiting, *Merluccius productus*, in the Strait of Georgia," by Gordon A. McFarlane and Richard J. Beamish, 2:23
- "Biology and life history of the coastal stock of Pacific whiting, *Merluccius productus*," Gary D. Stauffer, 2:2
- "Biology of the red sea urchin, *Strongylocentrotus franciscanus*, and its fishery in California," by Susumu Kato and Stephen C. Schroeter, 3:1
- Black Sands Mining Trawl Survey 1981-82, 3:23
- Boats, charter  
Business turnover in Texas charter boat industry 1975-80, 1:43
- Borderias, A. J., F. Jiménez-Colmenero, and M. Tejada, "Parameters affecting viscosity as a quality control for frozen fish," 4:43
- Brevoortia* spp., Menhaden, 3:30
- Brill, Richard—see Holland et al.
- Bronstein, M. N., R. J. Price, E. M. Strange, E. F. Melvin, C. M. Dewees, and B. B. Wyatt,  
"Storage of dressed chinook salmon, *Oncorhynchus tshawytscha*, in refrigerated freshwater, diluted seawater, seawater, and in ice," 1:68

- Brusher, Harold A., and Barbara J. Palko,  
"Charterboat catch and effort from southeastern U.S. waters, 1983," 3:54
- Bulk biomass model  
Fish food habits data base, 1:9

## C

- California Department of Fish and Game  
Dungeness Crab nursery studies, 3:21
- Canadian Formula  
Ice requirements for chilled seawater systems, 4:42-51
- Cancer magister* see Crab, Dungeness, 3:21
- Caranx ignobilis* see Ulua, white, 1:27
- Caribbean  
molluscan mariculture 4:1
- Cass, Virginia L., "Exploitation of California sea lions, *Zalophus californianus*, prior to 1972," 1:36
- Cetaceans  
food requirements of shelf cetaceans in Northeast U.S., 1:15-16
- role in ecosystem, 1:13-17
- Chang, Randolph—see Holland et al.
- "Charterboat catch and effort from southeastern U.S. waters, 1983," by Harold A. Brusher and Barbara J. Palko, 3:54
- Charterboat industry  
Catch and effort from Southeastern U.S. waters, 3:54-66
- biological information  
charterboat characteristics  
geographical and seasonal availability  
species catch data  
trolling
- Chilled seawater systems in preservation, 4:42
- Cod, Atlantic  
Shelf life extension using potassium sorbate, 3:26-29
- Viscosity as quality control for frozen fish, 3:52-54
- Columbia River Estuary  
Dungeness Crab nursery studies, 3:21
- Nursery habitat for Dungeness Crabs, 3:21-25
- "Columbia River Estuary: an important nursery for Dungeness crabs, *Cancer magister*," by Robert L. Emmett and Joseph T. Durkin, 3:21
- Columbia River Estuary Data Development Program, 3:21
- Columbia River salmonid fishery  
Stock identification methods for fishery management, 1:85
- Commercial passenger fishing vessel industry  
Albacore, 3:48-53
- Conrad, Jim W., Harold J. Barnett, Fuad M. Teeny, and Richard W. Nelson, "Observations from a preservation and processing study on Atka mackerel, *Pleurogrammus monopterygius*," 1:73
- Crabs, Dungeness  
Nursery habitat in the Columbia River Estuary, 3:21-25
- Crapo, C.—see Kolbe et al.

## D

- Dams  
Underwater separation methods for juvenile salmonids, 3:38-42
- Dark, Thomas A.—see Nelson, Martin O.
- Denil Fishway  
Passage of nonsalmonid fishes, 1:83
- Deweese, C. M.—see Bronstein et al.
- Ditton, Robert B., and David K. Loomis, "Examining business turnover in the Texas charter boat fishing industry: 1975-80," 1:43
- Dogfish, spiny  
Effects of processing on storage, 1:48-66
- Durkin, Joseph T.—see Emmett, Robert L.

## E

- Economics  
Business turnover in Texas charterboat industry 1975-80, 1:43
- Whiting, Pacific, fishery, 2:42
- "Economics of the Pacific whiting, *Merluccius productus*, fishery," by Eric Anderson, 2:42
- Ecosystem  
"An ecosystem model evaluation: the importance of fish food habits data," by Patricia A. Livingston, 1:9-12
- Role of marine mammals, 1:13-17
- "The Effect of Denil fishway length on passage of some nonsalmonid fishes," by Emil Slatick and Larry R. Basham, 1:83
- "The Effect of handling or processing treatments on storage characteristics of fresh Spiny Dogfish, *Squalus acanthias*," by Elinor M. Ravesi, Joseph J. Licciardello, Bette E. Tuhkunen, and Ronald C. Lundstrom, 1:48
- El Niño, 3:4,5
- Emmett, Robert L., and Joseph T. Durkin, "The Columbia River Estuary: An important nursery for Dungeness crabs, *Cancer magister*," 3:21
- Environmental studies  
Availability of Albacore, 3:48
- Marlin, striped  
sea surface temperature relationship to catch, 3:43-47
- Whiting, Pacific, 2:10-15
- Estuary  
Nursery habitat for Dungeness Crab in the Columbia River estuary 3:21-25
- "Examining business turnover in the Texas charter boat fishing industry: 1975-80," by Robert B. Ditton and David K. Loomis, 1:43
- "Exploitation of California Sea Lions, *Zalophus californianus*, prior to 1972," by Virginia L. Cass, 1:36

## F

- Farr, Winston E.—see Gessel et al.
- "Fatty acid composition of commercial menhaden, *Brevoortia* spp., oils, 1982 and 1983," by Jeanne D. Joseph, 3:30
- Ferguson, Scott—see Holland et al.
- Fish, pelagic  
A small vessel tracking technique, 35-41
- "Fisheries Resource assessment of the Mariana Archipelago, 1982-85," by Jeffery J. Polovina, Robert B. Moffitt, Stephen Ralston, Paul M. Shiota, and Happy A. Williams, 4:19
- Fishery  
Business turnover in Texas charterboat industry 1975-80, 1:43
- Dogfish, spiny  
processing and handling, 1:48
- Lobster, spiny  
predation of released trapped lobsters, 1:27
- Pink shrimp in Tortugas Sanctuary off South

Florida, 4:11-18  
 Puget Sound commercial fishery for Pacific whiting, 2:33  
 Sand Lance  
   keeping quality of fresh and frozen *Ammodytes* sp., 1:78-81  
 Scarred fish and high seas fisheries, 1:39  
 Sea urchin, red  
   harvesting, 3:9-11  
   marketing methods, 3:17-18  
   processing, 3:12-17  
 Whiting, Pacific  
   condition, 2:95  
   historical review of the fishery, 2:39-41  
   history, 2:95  
   management, 2:95-98  
 Fishery, commercial  
   Whiting, Pacific in the Canadian zone, 2:80  
 Fishery, management  
   Columbia River salmonid fishery, 1:5  
   Genetic stock identification, 1:1  
   Lobster industry, 1:27  
   Oceanic salmonid fishery, 1:5  
 Fishery, ocean troll  
   genetic stock identification methods, 1:1  
 Fishery, recreational  
   Commercial passenger fishing industry for albacore, 3:48-53  
 Fishery resources  
   Mariana archipelago, 4:19-25  
 Fishery statistics  
   Pink shrimp in Tortugas sanctuary off south Florida  
     catch and effort, 4:12, 16-18  
     fishing effort, 4:14  
     landing, 4:12, 13  
     relative abundance, 4:14, 15  
     size, 4:16  
   Yield estimates from the Mariana archipelago, 4:20-25  
 Fishes  
   Behavioral factors affecting entrapment at offshore cooling-water intake structures in Southern California, 1:18-26  
   Ecosystem model evaluation, 1:9-12  
   Food habits data base, 1:9-12.  
   Nonsalmonid  
     passage through Denil Fishway lengths, 1:83-85  
 Fishing, recreational  
   Charterboat catch and effort from Southeastern U.S. waters, 3:54-66  
 Fishways  
   The effect of Denil Fishway length on passage of nonsalmonid fishes, 1:83-85  
 Florida, south  
   Pink shrimp fishery in Tortugas Sanctuary, 4:11  
 Food habits  
   Food requirements of shelf edge cetaceans in the Northeastern U.S., 1:15-16  
   The importance of fish food habits data, 1:9-12  
   Whiting, Pacific, 2:13, 14; 16-18; 32.  
 Francis, Robert C., and Anne B. Hollowed, "History and management of the coastal fishery for Pacific whiting, *Merluccius productus*," 2:95  
 Francis, Robert C.—see Bailey, Kevin M.

## G

*Gadus morhus*, see Cod, Atlantic, 3:52  
 Genetic stock identification methods  
   Pacific salmon, 1:1  
 "A Genetic method of stock identification in mixed populations of Pacific Salmon, *Oncorhynchus* spp.," George B. Milner, David J. Teel, Fred M. Utter, and Gary A. Winans, 1:1  
 Gessel, Michael H., Winston E. Farr, and Clifford W. Long, "Underwater separation of

juvenile salmonids by size," 3:38  
 Gooding, Reginald M., "Predation on released spiny lobster, *Panulirus marginatus*, during tests in the northwestern Hawaiian Islands," 1:27  
 Grouper  
   Resource assessment at the Mariana archipelago, 4:19-25

## H

Hain, James H. W., Martin A. M. Hyman, Robert D. Kenney, and Howard E. Winn, "The Role of cetaceans in the shelf-edge region of the northeastern United States," 1:13  
 Hake, see Whiting, Pacific, 2:1  
 Harvesting technology  
   Whiting, Pacific, 2:47-54  
 "Harvesting technology in the Pacific whiting, *Merluccius productus*, fishery," by Charles W. West, 2:47  
 Hawaiian Islands, northwestern  
   Predation on released spiny lobsters, 1:27  
 Helvey, Mark, "Behavioral factors influencing fish entrapment at offshore cooling-water intake structures in Southern California," 1:18  
*Heterocarpus* spp., see shrimp, 3:19  
 Hilderbrand, K.—see Kolbe et al.  
 Historical review of the coastal Pacific whiting, *Merluccius productus*, fishery," by R. E. Nelson, Jr., 2:39  
 History and management of the coastal fishery for Pacific whiting, *Merluccius productus*, by Robert C. Francis and Anne B. Hollowed, 2:95  
 Holland, Kim, Richard Brill, Scott Ferguson, Randolph Chang, and Reuben Yost, "A small vessel technique for tracking pelagic fish," 4:26  
 Hollowed, Anne B.—see Francis, Robert C.  
 Holts, Dave, "Recreational albacore, *Thunnus alalunga*, fishery by west coast U.S. commercial passenger fishing vessels," 3:48  
 Hyman, Martin A. M.—see Hain et al.

## I-J

"Ice requirements for chilled seawater systems," by E. Kolbe, C. Crapo, and K. Hilderbrand, 4:33  
 Iversen, Edwin S.—see Jory, Darryl E.  
 Jiménez-Colmenero, F.—see Borderías, et al.  
 Jory, Darryl E., and Edwin S. Iversen, "Molluscan Mariculture in the greater Caribbean: An overview," 4:1  
 Joseph, Jeanne D., "Fatty acid composition of commercial Menhaden, *Brevoortia* spp., oils: 1982 and 1983," 3:30

## K

Kabata, Z., and D. J. Whitaker, "Parasites as a limiting factor in exploitation of Pacific whiting, *Merluccius productus*," 2:55  
 Kato, Susumu and Stephen C. Schroeter, "Biology of the red sea urchin, *Strongylocentrotus franciscanus*, and its fishery in California," 3:1  
 "Keeping quality of fresh and frozen sand lance, *Ammodytes* sp.," by J. J. Licciardello, E. M. Ravesi, and M. G. Allsup, 1:78  
 Keller, Cynthia L.—see Ampola, Vincent G.  
 Kenney, Robert D.—see Hain et al.  
 Klima, Edward F., and Frank J. Patella, "A synopsis of the Tortugas Pink Shrimp, *Penaeus duorarum*, fishery, 1981-84, and the impact of the Tortugas Sanctuary," 4:11  
 Kolbe, E., C. Crapo, and K. Hilderbrand, "Ice requirements for chilled seawater systems," 4:33  
 Kudo, George—see Nelson et al.  
*Kudoa* spp., Parasites, *Myxosporean*, 2:55

## L

Licciardello, J. J., E. M. Ravesi, and M. G. Allsup, "Keeping quality of fresh and frozen sand lance, *Ammodytes* sp.," 1:78  
 Licciardello, Joseph J.—see Ravesi et al.  
 Life history studies  
   Dungeness Crab, 3:21-25  
   Whiting, Pacific, 2:1  
 Literature review  
   Exploitation of California Sea Lion, 1:36  
 Livingston, Patricia A., "An ecosystem model evaluation: The importance of fish food habits data," 1:9  
 Livingston, P. A., and K. M. Bailey, "Trophic role of the Pacific whiting, *Merluccius productus*," 2:16  
 Lobster, spiny  
   Predation during testing in the Northwestern Hawaiian Islands, 1:27-35  
 Long, Clifford W.—see Gessel et al.  
 Loomis, David K.—see Ditton, Robert B.  
 Lundstrom, Ronald C.—see Ravesi et al.

## M

Mackerel, Atka  
   Preservation and processing study, 1:73-77  
 Mariana archipelago  
   Fishery resource assessment, 4:19-25  
 Mariculture  
   Mollusks in the greater Caribbean 4:1  
     Extensive culture, 4:5  
     Pilot project and research, 4:6  
     Semi-intensive culture, 4:2  
 Market news  
   Future, 2:104  
   Goals, 2:101, 103  
   History, 2:102  
   Purpose, 2:100  
 Marlin, striped  
   Relationship of sea surface temperatures to catch off Southern California, 3:43-47  
 McFarlane, Gordon A.—see Beamish, Richard J.  
 McFarlane, Gordon A., and Richard J. Beamish, "Biology and fishery of Pacific whiting, *Merluccius productus*, in the Strait of Georgia," 2:23  
 Melvin, E. F.—see Bronstein et al.  
 Menhaden, Atlantic  
   Fatty acid composition of, 3:30-37  
   *Merluccius productus*, see Whiting, Pacific, 2:1  
 Migration  
   Albacore, 3:48  
   Sea Urchin, 3:4,5  
   Tracking techniques for pelagic fish, 4:35  
   Whiting, Pacific, 2:2,3;75,76  
 Milner, George B., David J. Teel, Fred M. Utter, and Gary A. Winans, "A genetic method of stock identification in mixed populations of Pacific Salmon, *Oncorhynchus* spp.," 1:1  
 Moffitt, Robert B.—see Polovina et al.  
 "Molluscan mariculture in the greater Caribbean: An overview," by Darryl E. Jory and Edwin S. Iversen, 4:1  
 Mollusks  
   mariculture in the Caribbean, 4:1

## N

Nelson, Martin O., and Thomas A. Dark, "Results of the coastal Pacific whiting, *Merluccius productus*, surveys in 1977 and 1980," 2:82  
 Nelson, R. E. Jr., "Historical review of the coastal Pacific whiting, *Merluccius productus*, fishery," 2:39  
 Nelson, Richard W.—see Conrad et al.

Nelson, Richard W., Harold J. Barnett, and George Kudo, "Preservation and processing characteristics of Pacific whiting, *Merluccius productus*," 2:60  
 Nursery habitats  
 Dungeness crab in Columbia River Estuary, 3:21  
 Pink shrimp fishery in Tortugas Sanctuary off south Florida, 4:11-18  
 Nutritional studies  
 Fatty acid composition of commercial Menhaden, 3:30-37

## O

"Observations from preservation and processing study on Atka Mackerel, *Pleurogrammus monopterygius*," by Conrad, Jim W., Harold J. Barnett, Fuad M. Teeny, and Richard W. Nelson, 1:73  
 Oceanic salmonid fishery  
 Genetic stock identification methods for use in fishery management, 1:1  
*Oncorhynchus tshawytscha*, see Salmon, chinook, 1:68  
*Oncorhynchus* spp., see Salmon, 1:1

## P

"Pacific whiting, *Merluccius productus*, stocks off the west coast of Vancouver Island, Canada," by Richard J. Beamish and Gordon A. McFarlane, 2:75  
 Palko, Barbara J.—see Brusher, Harold A.  
*Panulirus marginatus*, see Lobster, spiny, 1:27  
 "Parameters affecting viscosity as a quality control for frozen fish," by A. J. Borderías, F. Jiménez-Colmenero, and M. Tejada, 4:43  
 "Parasites as a limiting factor in exploitation of Pacific whiting, *Merluccius productus*," by Z. Kabata and D. J. Whitaker, 2:55  
 Parasites, *myxosporean*  
 Effects of exploitation on Pacific whiting, 2:56, 57  
 Patella, Frank J.—see Klima, Edward F.  
 Pedersen, Mark, "Puget Sound Pacific whiting, *Merluccius productus*, resource and industry: An overview," 2:35  
*Penaeus duorarum*, see Shrimp, pink, 4:11  
*Pleurogrammus monopterygius*, Mackerel, Atka, 1:73  
 Polovina, Jeffrey, J., Robert B. Moffitt, Stephen Ralston, Paul M. Shiota, and Happy A. Williams, "Fisheries resource assessment of the Mariana Archipelago, 1982-85," 4:19  
 Potassium sorbate  
 Preservation studies using Atlantic Cod, 3:26-29  
 "Predation on released spiny lobster, *Panulirus marginatus*, during tests in the northwestern Hawaiian Islands," by Reginald M. Gooding, 1:27  
 "Preservation and processing characteristics of Pacific whiting, *Merluccius productus*," by Richard E. Nelson, Harold J. Barnett and George Kudo, 2:60  
 Preservation studies  
 Cod, Atlantic, shelf life extension, 3:26-29  
 Dogfish, spiny, 1:48  
 Ice requirements for chilled sea water systems, 4:33-42  
 Mackerel, atka, 1:73  
 Viscosity as quality control for fish, 4:43-45  
 Price, R. J.—see Bronstein et al.  
 Processing studies  
 Sand Lance, 1:78  
 "Providing service to the seafood industry through Market News," by Donald R. Whitaker, 1:100  
 "Puget Sound Pacific whiting, *Merluccius produc-*

*tus* resource and industry: An overview," by Mark Pedersen, 2:35

## R

Ralston, Stephen—see Polovina et al.  
 Ravesi, E. M.—see Licciardello et al.  
 Ravesi, Elinor M., Joseph J. Licciardello, Bette E. Tuhkunen, and Ronald C. Lundstrom, "The effect of handling or processing treatments on storage characteristics of fresh spiny dogfish, *Squalus acanthias*," 1:48  
 "Recreational albacore, *Thunnus alalunga*, fishery by west coast U.S. commercial passenger fishing vessels," by Dave Holts, 3:48  
 "Recruitment of Pacific whiting, *Merluccius productus*, and the ocean environment," by Kevin M. Bailey and Robert C. Francis, 2:8  
 "Relationship of sea surface temperature isotherm patterns off northwestern Mexico to the catch of striped marlin, *Tetrapturus audax*, off southern California," by James L. Squire, Jr., 3:43  
 Reproductive biology  
 Sea Urchin, red, 3:56  
 Whiting, Pacific, 2:31;35;76-79;12;3,4  
 Resource Assessment Investigation of the Mariana Archipelago, 4:19  
 "Results of the coastal Pacific whiting, *Merluccius productus*, surveys in 1977 and 1980," by Martin O. Nelson and Robert A. Dark, 2:82  
 Roe  
 Sea urchin, red, fishery, 3:1-20  
 "The role of cetaceans in the shelf-edge region of the northeastern United States," by James H. W. Hain, Martin A. M. Hyman, Robert D. Kenney, and Howard E. Winn, 1:13

## S

Salmon  
 Underwater separation methods for juvenile salmonids at hydroelectric dams, 3:38-42  
 Salmon, chinook  
 Genetic stock identification methods, 1:4,5  
 Storage in water systems, 1:68  
 bacteriological measurements, 1:69  
 NaCl analysis, 1:69  
 sensory analysis, 1:69  
 statistical analysis, 1:69  
 Salmon, Pacific  
 Scarred salmon at freshwater recovery sites in Southeastern Alaska, 1:39-42  
 Salmon, Pacific  
 Genetic stock identification methods, 1:8  
 Sand Lance  
 Keeping quality of fresh and frozen *Ammodytes* sp., 1:78  
 chemical composition, 1:78  
 fresh study, 1:79  
 frozen study, 1:80  
 Scad, bigeye  
 Resource assessment at the Mariana archipelago, 4:19-25  
 "Scarred Pacific salmon, *Oncorhynchus* spp., at freshwater recovery sites in southeastern Alaska," by Sidney G. Taylor, 1:39  
 Schroeter, Stephen C.—see Kato, Susumu  
 Sea Lions, California  
 exploitation prior to 1972, 1:36-38  
 Sea urchin, red  
 Biology  
 abundance, 3:2-5  
 development, 3:6,7  
 distribution, 3:2-5  
 ecology, 3:7,8  
 food habits, 3:7  
 growth, 3:6,7  
 life history, 3:2-5

management, 3:7,8  
 reproduction, 3:5,6  
 Fishery  
 harvesting, 3:9-11  
 history, 3:8,9  
 processing, 3:12-17  
 shipping, 3:17,18  
 Shark, Galapagos  
 Predation on released spiny lobsters in the Northwestern Hawaiian Islands, 1:33  
 "Shelf life extension of drawn whole cod and cod fillets by treatment with potassium sorbate," by Vincent G. Ampola and Cynthia L. Keller, 3:26  
 Shiota, Paul M.—see Polovina et al.  
 Shrimp  
 Resource assessment at the Mariana archipelago, 4:19-25  
 Shrimp, pink  
 Fishery in Tortugas Sanctuary off south Florida, 4:11-18  
 Slatick, Emil, and Larry R. Basham, "The effect of Denil fishway length on passage of some non-salmonid fishes," 1:83  
 "A small vessel technique for tracking pelagic fish," by Kim Holland, Richard Brill, Scott Ferguson, Randolph Chang, and Reuben Yost, 4:26  
 Snapper  
 Resource assessment at the Mariana archipelago, 4:19-25  
*Squalus acanthias*, Dogfish, spiny, 1:48  
 Squire, James L. Jr., "Relationship of sea surface temperature isotherm patterns off northwestern Mexico to catch of striped marlin, *Tetrapturus audax*, off southern California," 3:43  
 Stauffer, Gary D., "Biology and life history of the coastal stock of Pacific whiting, *Merluccius productus*," 2:2  
 "Storage of dressed chinook salmon, *Oncorhynchus tshawytscha*, in refrigerated freshwater, diluted seawater, and ice," by M. N. Bronstein, R. J. Prince, E. M. Strange, E. T. Melvin, C. M. Dewees, and B. B. Wyatt, 1:68  
 Strange, E. M.—see Bronstein et al.  
*Strongylocentrotus franciscanus*, Sea urchin, red, 3:1  
 Survey  
 Fishery experiments, 4:20  
 Resource assessments at the Mariana archipelago, 4:19-25  
 "A synopsis of the Tortugas pink shrimp, *Penaeus duorarum*, fishery, 1981-84, and the impact of the Tortugas Sanctuary," by Edward F. Klima and Frank J. Patella, 4:11

## T-V

Taylor, Sidney G., "Scarred Pacific salmon, *Oncorhynchus* spp., at freshwater recovery sites in southeastern Alaska," 1:39  
 Teel, David J.—see Milner et al.  
 Teeny, Fuad M.—see Conrad et al.  
 Tejada, M.—see Borderías et al.  
 Temperature, sea surface  
 Relationship to Striped Marlin catch off Southern California, 3:43-47  
*Tetrapturus audax*, Marlin, striped, 3:43  
 Texas  
 Turnover in charterboat industry 1975-80, 1:43  
*Thunnus alalunga*, Albacore, 3:48  
 Tracking  
 Small vessel techniques for pelagic fish, 4:35-41  
 Trolling  
 Charterboat industry, 3:57,58  
 Ocean, 1:1  
 "Trophic role of the Pacific whiting, *Merluccius productus*," by P. A. Livingston and K. M. Bailey, 2:16  
 Tuhkunen, Bette E.—see Ravesi et al.

Tuna  
 Resource assessment at Mariana archipelago, 4:19-25  
 Ultrasonic telemetry techniques, 4:35  
 Ulua  
 Predation on released spiny lobsters in the Hawaiian Islands, 1:28,29,30,31,32  
 "Underwater separation of juvenile salmonids by size," by Michael H. Gessel, Winston E. Farr, and Clifford W. Long, 3:38  
 Utter, Fred M.—see Milner et al.

## W-Z

Waterways experiment station 1974-76, 3:21,23  
 West, Charles W., "Harvesting Technology in the Pacific whiting, *Merluccius productus*, fishery," 2:47  
 Whitaker, D. J.—see Kabata, Z.  
 Whitaker, Donald R., "Providing service to the seafood industry through Market News," 1:100  
 Whiting, Pacific  
 Abundance  
 Biomass estimates, 2:83,84;87,88;90;93,94  
 Canadian zone, 2:80  
 Ocean environment, 2:8-15  
 Pacific coastal stock, 2:6,7  
 Puget Sound, 2:37  
 Strait of Georgia, 2:28,32  
 Trawl Surveys, 2:83,88,89  
 Biology and life history  
 Canadian zone, 2:75  
 Pacific coastal stock, 2:2-7  
 Puget Sound, 2:35-38  
 Strait of Georgia, 2:23  
 Biomass estimates, see Abundance  
 Canadian zone  
 Age composition of strong year class, 2:78,79  
 Biology and fishery of offshore stocks, 2:75  
 Commercial fishery, 2:80  
 Migration, 2:75,76  
 Size and sex composition, 2:76-79  
 Stock abundance and management, 2:80  
 Distribution  
 Pacific coastal stock, 2:2,3  
 Puget Sound, 2:35  
 Strait of Georgia, 2:24,25  
 Trawl surveys, 2:83,88,89  
 Economic studies  
 marketing, 2:42-46;33;72-73  
 product quality, 2:42-46  
 Feeding habits, 2:13,14;16-18  
 Strait of Georgia, 2:32

Fishery  
 Biomass estimates, 2:83-94;97  
 Canadian zone, 2:80  
 Condition, 2:95  
 Economics, 2:42-46  
 Environmental factors, 2:10-15  
 Foreign, 2:42-46;40,41;49,50  
 Harvesting technologies, 2:47-54  
 History, 2:39-41;95  
 Joint venture, 2:42-46;40,41;49,50  
 Management, 2:33;37,38;95-98  
 Markets, 2:42-46;33;72,73  
 Processing, 2:42-46;33;69  
 Product quality, 2:42-46  
 Puget Sound population, 2:35-38  
 Shore-based, 2:39  
 Strait of Georgia, 2:23  
 U.S. domestic, 2:39  
 Growth  
 Canadian zone, 2:76-79  
 Oceanic environment, 2:13  
 Pacific coastal stock, 2:4  
 Strait of Georgia, 2:28  
 Harvesting technologies  
 Foreign fishing fleets, 2:49,50  
 Gear types, 2:47-50  
 Joint venture, 2:49,50  
 Management  
 see Whiting, Pacific fishery  
 Markets, see Whiting, Pacific economics  
 Migration  
 Canadian zone, 2:75,76  
 Pacific coastal stock, 2:2,3  
 Mortality  
 Pacific coastal stock, 2:4,5  
 Strait of Georgia, 2:33  
 Ocean environment and recruitment  
 Environmental factors, 2:10-15  
 Growth, 2:13  
 Population fluctuation, 2:8-10  
 Predation, 2:13,14  
 Spawning, 2:12  
 Pacific Coastal stock  
 abundance, 2:6,7  
 biology and life history, 2:2-7  
 distribution, 2:2,3  
 growth, 2:4  
 migration, 2:2,3  
 mortality, 2:4,5  
 reproduction, 2:3,4  
 Parasites  
 Effect of infestation, 2:56,57  
*Myxosporean*, *Kudoa* spp., 2:55

Prevalence and intensity of infection, 2:58  
 Population estimates, see Whiting, Pacific abundance  
 Preservation and Processing  
 Chemical composition, 2:60  
 Markets, 2:72,73  
 Parasites, 2:56,57;60,73  
 Processing, 2:42-46; 69  
 Production, 2:71  
 Product quality, 2:42-46  
 Protein content, 2:60  
 Sensory properties, 2:62  
 Strait of Georgia, 2:33  
 Predation, 2:13,14;16;19-21  
 see also Whiting, Pacific feeding habits  
 Puget Sound population  
 Distribution, 2:35  
 Fishery, 2:36  
 Management, 2:37,38  
 Population estimates, 2:37  
 Spawning, 2:35  
 Reproductive biology  
 Canadian zone, 2:76-79  
 Ocean environment, 2:12  
 Pacific coastal stock, 2:3,4  
 Puget Sound population, 2:35  
 Strait of Georgia, 2:31  
 Strait of Georgia  
 Abundance, 2:28,32  
 Aging, 2:23;26,27  
 Biology, 2:23  
 Distribution, 2:24,25  
 Feeding habits, 2:32  
 Fishery, 2:23  
 Growth, 2:28  
 Management, 2:33  
 Markets, 2:33  
 Mortality, 2:33  
 Population, 2:28  
 Processing, 2:33  
 Reproductive biology, 2:31  
 Trawling surveys  
 Biomass estimates, 2:83;94  
 Bottom trawling surveys, 2:82,83  
 Midwater trawl surveys, 2:83,87,88  
 Trophic role, 2:16-22  
 Williams, Happy A.—see Polovina et al.  
 Winans, Gary A.—see Milner et al.  
 Winn, Howard E.—see Hain et al.  
 Wyatt, B. B.—see Bronstein et al.  
 Yost, Reuben—see Holland et al.  
*Zalophus californianus*, see sea lion, California, 1:36

## Papers in the Marine Fisheries Review in 1985

## 47(1)

- "A Genetic Method of Stock Identification in Mixed Populations of Pacific Salmon, *Oncorhynchus* spp.," George B. Milner, David J. Teel, Fred M. Utter, and Gary A. Winans, 1:1-8.
- "An Ecosystem Model Evaluation: The Importance of Fish Food Habits Data," Patricia A. Livingston, 1:9-12.
- "The Role of Cetaceans in the Shelf-Edge Region of the Northeastern United States," James H. W. Hain, Martin A. M. Hyman, Robert D. Kenney, and Howard E. Winn, 1:13-17.
- "Behavioral Factors Influencing Fish Entrapment at Offshore Cooling-Water Intake Structure in Southern California," Mark Helvey, 1:18-26.
- "Predation on Released Spiny Lobster, *Panulirus marginatus*, During Tests in the Northwestern Hawaiian Islands," Reginald M. Gooding, 1:27-35.
- "Exploitation of California Sea Lions, *Zalophus californianus*, Prior to 1972," Virginia L. Cass, 1:36-38.
- "Scarred Pacific Salmon, *Oncorhynchus* spp., at Freshwater Recovery Sites in Southeastern Alaska," Sidney G. Taylor, 1:39-42.
- "Examining Business Turnover in the Texas Charter Boat Fishing Industry: 1975-80," Robert B. Ditton and David K. Loomis, 1:43-47.
- "The Effects of Handling or Processing Treatments on Storage Characteristics of Fresh Spiny Dogfish, *Squalus acanthias*," Elinor M. Ravesi, Joseph J. Licciardello, Bette E. Tuhkunen, and Ronald C. Lundstrom, 1:48-67.
- "Storage of Dressed Chinook Salmon, *Oncorhynchus tshawytscha*, in Refrigerated Freshwater, Diluted Seawater, Seawater, and in Ice," M. N. Bronstein, R. J. Price, E. M. Strange, E. F. Melvin, C. M. Dewees, and B. B. Wyatt, 1:68-72.
- "Observations From a Preservation and Processing Study on Atka Mackerel, *Pleurogrammus monopterygius*," Jim W. Conrad, Harold J. Barnett, Fuad M. Teeny, and Richard W. Nelson, 1:73-77.
- "Keeping Quality of Fresh and Frozen Sand Lance, *Ammodytes* sp.," J. J. Licciardello, E. M. Ravesi, and M. G. Allsup, 1:78-82.

- "The Effect of Denil Fishway Length on Passage of Some Nonsalmonid Fishes," Emil Slatick and Larry R. Basham, 1:83-85.

## 47(2)

- "Pacific Whiting, *Merluccius productus*: The Resource, the Industry, and a Management History: Introduction," Thomas A. Dark, 2:1.
- "Biology and Life History of the Coastal Stock of Pacific Whiting, *Merluccius productus*," Gary D. Stauffer, 2:2-7.
- "Recruitment of Pacific Whiting, *Merluccius productus*, and the Ocean Environment," Kevin M. Bailey and Robert C. Francis, 2:8-15.
- "Trophic Role of the Pacific Whiting, *Merluccius productus*," P. A. Livingston and K. M. Bailey, 2:16-22.
- "Biology and Fishery of the Pacific Whiting, *Merluccius productus*, in the Strait of Georgia," Gordon A. McFarlane and Richard J. Beamish, 2:23-34.
- "Puget Sound Pacific Whiting, *Merluccius productus*, Resource and Industry: An Overview," Mark Pedersen, 2:35-38.
- "Historical Review of the Coastal Pacific Whiting, *Merluccius productus*, Fishery," R. E. Nelson, Jr., 2:39-41.
- "Economics of the Pacific Whiting, *Merluccius productus*, Fishery," Eric Anderson, 2:42-46.
- "Harvesting Technology in the Pacific Whiting, *Merluccius productus*, Fishery," Charles W. West, 2:47-54.
- "Parasites as a Limiting Factor in Exploitation of Pacific Whiting, *Merluccius productus*," Z. Kabata and D. J. Whitaker, 2:55-59.
- "Preservation and Processing Characteristics of Pacific Whiting, *Merluccius productus*," Richard W. Nelson, Harold J. Barnett, and George Kudo, 2:60-74.
- "Pacific Whiting, *Merluccius productus*, Stocks off the West Coast of Vancouver Island, Canada," Richard J. Beamish and Gordon A. McFarlane, 2:75-81.
- "Results of the Coastal Pacific Whiting, *Merluccius productus*, Survey in 1977 and 1980," Martin O. Nelson and Thomas A. Dark, 2:82-94.

## 47(3)

- "History and Management of the Coastal Fishery for Pacific Whiting, *Merluccius productus*," Robert C. Francis and Anne B. Hollowed, 2:95-99.
- "Biology of the Red Sea Urchin, *Strongylocentrotus franciscanus*, and Its Fishery in California," Susumu Kato and Stephen C. Schroeter, 3:1-20.
- "The Columbia River Estuary: An Important Nursery for Dungeness Crabs, *Cancer magister*," Robert L. Emmett and Joseph T. Durkin, 3:21-25.
- "Shelf Life Extension of Drawn Whole Atlantic Cod, *Gadus morhua*, and Cod Fillets by Treatment With Potassium Sorbate," Vincent G. Ampola and Cynthia L. Keller, 3:26-29.
- "Fatty Acid Composition of Commercial Menhaden, *Brevoortia* spp., Oils, 1982 and 1983," Jeanne D. Joseph, 3:30-37.
- "Underwater Separation of Juvenile Salmonids by Size," Michael H. Gessel, Winston E. Farr, and Clifford W. Long, 3:38-42.
- "Relationship of Sea Surface Temperature Isotherm Patterns off Northwestern Mexico to the Catch of Striped Marlin, *Tetrapturus audax*, off Southern California," James L. Squire, Jr., 3:43-47.
- "Recreational Albacore, *Thunnus alalunga*, Fishery by U.S. West Coast Commercial Passenger Fishing Vessels," Dave Holts, 3:48-53.
- "Charterboat Catch and Effort from Southeastern U.S. Waters, 1983," Harold A. Brusher and Barbara J. Palko, 3:54-66.

## 47(4)

- "Molluscan Mariculture in the Greater Caribbean: An Overview," Darryl E. Jory and Edwin S. Iversen, 4:1-10.
- "A Synopsis of the Tortugas Pink Shrimp, *Penaeus duorarum*, Fishery, 1981-84, and the Impact of the Tortugas Sanctuary," Edward F. Klima and Frank J. Patella, 4:11-18.
- "Fisheries Resource Assessment of the Mariana Archipelago, 1982-85," Jeffrey J. Polovina, Robert B. Moffitt, Stephen Ralston, Paul M. Shiota, and Happy A. Williams, 4:19-25.
- "A Small Vessel Technique for Tracking Pelagic Fish," Kim Holland, Richard Brill, Scott Ferguson, Randolph Chang, and Reuben Yost, 4:26-32.
- "Ice Requirements for Chilled Seawater System," E. Kolbe, C. Crapo, and K. Hilderbrand, 4:33-42.
- "Parameters Affecting Viscosity as a Quality Control for Frozen Fish," A. J. Borderias, F. Jiménez-Colmenero, and M. Tejada, 4:43-45.