in more conventional books on boating, and its intended use is for those chance occasions when the more usual systems are inoperative. There are helpful tips on how to avoid trouble and in some cases how to get out of trouble in the 40-page paperbound booklet.

The author based this pamphlet on over 20 years of experience with the National Ocean Survey and Coast and Geodetic Survey. Single copies are free (multiple copies cost $1.50 each) from the Division of Marine Resources, University of Washington HG-30, Seattle, WA 98195.

The **Atlas of Physical and Chemical Properties of Puget Sound and Its Approaches** by Eugene E. Collias, Noel McGary, and Clifford A. Barnes was planned to provide useful information for anyone making decisions based on physical and chemical characteristics of Puget Sound, and for anyone doing research on estuaries. Ocean engineers, commercial fishermen, fish farmers, regulatory agency personnel, and legislators are among those who will be interested in the data portrayed in this atlas.

The first readily available graphic description of Puget Sound water quality data over a sustained time period (1952-1966), the 235-page atlas includes the oceanographic parameters for vertical profiles along eight major channels of the Sound. The paperbound volume is available from the University of Washington Press, Seattle, WA 98195 for $15.00.

Letter

Editor:

I found the paper "Some ABC's of Fo'c'sle Living" (Marine Fisheries Review, June 1974) most informative as well as entertaining. It was obvious that the authors had experienced both the hardships and rewards of life at sea, for only "someone there" could describe them with such vigor and color.

But while my "editorial greed" was aroused I wasn't able to overlook a few items to "nitpick" about. These may be small details or simple misconceptions in my mind, but if valid they are important to a seaman.

On several occasions the authors refer to the "dock" as the physical structure to which one secures his vessel. This structure may be called the pier or wharf, if open piered, or the bulkhead, if it is a solid structure. "Dock" would refer to the space alongside a wharf that a ship occupies when tied up; or more commonly to a basin or enclosure for the reception of vessels and subsequent control of the water level (i.e., a graving dock or floating dry dock); or to the act of berthing a vessel. The word "dock" should be used to describe a piece of water, or a particular act of shiphandling, or a specialized structure but not the good ol' pier.

A vessel is not necessarily "underway" when she is "in forward motion, running, steaming"; she is "making way." A vessel is underway when she is not at anchor, or made fast to the shore, or aground and may indeed be underway, but not making way. These definitions are provided for in the nautical rules of the road and accepted by most seamen.

Finally, with regard to an anchor watch, I cannot agree with the definition that a bearing "is a compass reading on a very close landmark." Bearings, whether radar or visual, are best observed to landmarks or land tangents a good distance from the observer but sufficiently close to avoid their obscurity by weather. Bearings on objects at close range may change substantially as a vessel swings about her anchor causing undue alarm, but a watchstander will soon get the feel for how much a distant bearing may allowably change. In the absence of radar, a good range, and at least one cross bearing, will enable one to detect anchor drag.

The above comments should not detract in any way from the excellent essay written by Larssen and Jaeger. The authors have been going to sea for a longer period of time than I have been alive and it is from men such as these, who have both loved the sea and learned how to live with her, that younger men acquire their best knowledge. Any seaman, fisherman or merchant, should be indebted to someone who takes the time to pass on his experience.

Roger Hewitt
Southwest Fisheries Center
National Marine Fisheries Service
NOAA
P.O. Box 271
La Jolla, CA 92037

INDEX, VOL. 36

Marine Fisheries Review

Vol. 36, 1974

NOTE: Indexed here by author, title, and subject are the 85 papers which appeared in *Marine Fisheries Review* in 1974. (A list of these papers, in numerical order, appears at the end of the Index.) Anonymous notes, news articles, and regular departments are not indexed, since they are often of preliminary or ephemeral nature. The entries are indexed by number and page (i.e., 7:12 indicates the July number, page 12).

Marine Fisheries Review Paper Numbers, 1974

1026. "Home freezing of seafoods," Melvin E. Waters, 1:1-6.
1027. "A vertical longline for red snapper fishing," David A. Olsen, Arthur E. Dammann, and Don Neal, 1:7-9.
1028. "Aspects of the distribution and abundance of the long-finned squid, *Loligo pealei*, between Cape Hatteras and Georges Bank," Fredric M. Serchuk and Warren F. Rathjen, 1:10-17.
1029. "Solubilized fish muscle as a food binding material," Frederick J. King, Fred Heiligman, and Eugen Wierbicki, 1:18-20.
1030. "A review of the Indonesian shrimp fishery and its present developments," M. Unar, 1:21-30.
1031. "Observations on distribution and abundance of red crabs in Norfolk Canyon and adjacent continental slope," Paul A. Haefner, Jr. and John A. Musick, 1:31-34.
1032. "Notes on the ecology of the oceanic insect *Halobates*," Lanna Cheng, 2:1-7.
1033. "Chemical and nutritive values of several fresh and canned finfish, crustaceans, and mollusks. Part II. Fatty acid composition," James C. Bonnet, Virginia D. Sidwell, and Elizabeth G. Zook, 2:8-14.
1034. "Using enzymes to make fish protein concentrates," Malcolm B. Hale, 2:15-18.
1035. "The Mexican marine sport fisheries," Aurelio Solórzano, 2:19-22.
1036. "Variable-mesh beach seine for sampling juvenile salmon in Columbia River estuary," Carl W. Sims and Richard H. Johnsen, 2:23-26.
1037. "Mushroom culture: A new potential for fishery products," John H. Green, 2:27-32.
1038. "Effect of draining method on the quality of fish stored in boxes," John A. Peters, Allan F. Bezanson, and John H. Green, 2:33-35.
1039. "Publications and services of the National Marine Fisheries Service," J. David Almand, 3:1-9.
1040. "Participation by Panamanian and U.S. seiners in 1972 tuna fishery of the eastern tropical Atlantic," Gary T. Sakagawa, 3:10-13.

1041. "Diversification means progress in the Gloucester fishing industry," Jon C. Rittgers, 3:14-17.
1042. "Marine recreational fishing in Alaska," Anonymous, 3:18-20.
1043. "Composition of the edible portion of raw (fresh or frozen) crustaceans, finfish, and mollusks. I. Protein, fat, moisture, ash, carbohydrate, energy value, and cholesterol," Virginia D. Sidwell, Pauline R. Foncannon, Nancy S. Moore, and James C. Bonnet, 3:21-35.
1044. "Fish meal: International market situation and the future," Jukka Kolhonen, 3:36-40.
1045. "Respiration and metabolism in two baleen whale calves," Eric A. Wahrenbrock, Gary F. Maruschak, Robert Elsner, and David W. Kenney, 4:3-8.
1046. "Ballistocardiography as a technique for comparative physiology," N. Ty Smith and Eric A. Wahrenbrock, 4:9-14.
1047. "Investigation of blubber thickness in a gray whale using ultrasonography," Michael P. Curran and William M. Asher, 4:15-20.
1048. "Surgical attachment of a telemetry device to the dorsal ridge of a yearling California gray whale, *Eschrichtius robustus*," John C. Sweeney and Joel L. Mattsson, 4:20-22.
1049. "Some hematologic observations on the California gray whale," Alfred Zettner, 4:22-24.
1050. "Some coagulation factors in plasma from a California gray whale, *Eschrichtius robustus*," W. Medway, 4:24-25.
1051. "Fluorescent karyotype of the California gray whale," Deborah A. Duffield, 4:25-28.
1052. "Some physiological parameters of the blood of the California gray whale," William G. Gilmartin, Richard W. Pierce, and George A. Antonelis, Jr., 4:28-31.
1053. "Feeding of a captive gray whale, *Eschrichtius robustus*," G. Carleton Ray and William E. Schevill, 4:31-38.
1054. "Sounds produced by the gray whale, *Eschrichtius robustus*," James F. Fish, James L. Sumich, and George L. Lingle, 4:38-45.
1055. "Aerial observations of migrating gray whales, *Eschrichtius robustus*, off southern California, 1969-72," J. S. Leatherwood, 4:45-49.
1056. "A note on gray whale behavioral interactions with other marine mammals," J. S. Leatherwood, 4:50-51.
1057. "Aerial observations of gray whales during 1973," Paul N. Sund and John L. O'Connor, 4:51-52.
1058. "Telemetering of temperature and depth data from a free ranging yearling California gray whale, *Eschrichtius robustus*," W. E. Evans, 4:52-58.
1059. "Capture and harnessing of young California gray whales, *Eschrichtius robustus*," Kenneth S. Norris and Roger L. Gentry, 4:58-64.
1060. "Some considerations of the problems associated with the use of live bait for catching tunas in the tropical Pacific Ocean," Frank J. Hester, 5:1-12.
1061. "Polyethylene trays for flounder fillets," Daniel W. Baker II, John A. Peters, and Allan F. Bezanson, 5:13-14.
1062. "Reduction of mercury in sablefish (*Anoplopoma fimbria*) and the use of the treated flesh in smoked products," F. M. Teeny, Alice S. Hall, and E. J. Gauglitz, Jr., 5:15-19.
1063. "Salmon—future harvest from the Antarctic Ocean?" Timothy Joyner, Conrad V. W. Mahnken, and Robert C. Clark, Jr., 5:20-28.
1064. "Ocean pout parasites," Daniel J. Sheehy, Michael P. Sissenwine, and Saul B. Saila, 5:29-33.
1065. "A report on the National Marine Fisheries Service comminuted fish cake survey," Bruce C. Morehead, 5:34-37.
1066. "Some ABC's of fo'c'sle living," A. K. Larssen and Sig Jaeger, 6:1-38.
1067. "Marking fishes and invertebrates. I. State of the art of fish branding," Howard L. Raymond, 7:1-6.
1068. "Marking fishes and invertebrates. II. Brand size and configuration in relation to long-term retention on steelhead trout and chinook salmon," Donn L. Park and Wesley J. Ebel, 7:7-9.
1069. "Marking fishes and invertebrates. III. Coded wire tags useful in automatic recovery of chinook salmon and steelhead trout," Wesley J. Ebel, 7:10-13.
1070. "Marking fishes and invertebrates. IV. A nonpermanent tag for king crabs, *Paralithodes camtschatica*, and tanner crabs, *Chionoecetes bairdi*," Robert M. Meyer, 7:14-16.
1071. "A survey of giant clams, Tridacnidae, on Helen Reef, a western Pacific atoll," Frank J. Hester and Everet C. Jones, 7:17-22.
1072. "Color changes in the ovaries of penaeid shrimp as a determinant of their maturity," Ausbon Brown, Jr. and Daniel Patlan, 7:23-26.
1073. "The bay scallop makes its bed of seagrass," Gordon W. Thayer and Harvey H. Stuart, 7:27-30.
1074. "Effects of Prudhoe Bay crude oil on molting tanner crabs, *Chionoectes bairdi*," John F. Karinen and Stanley D. Rice, 7:31-37.
1075. "Soviet fisheries: A review," T. S. Sealy, 8:5-22.
1076. "Japan's frozen shrimp imports: 1973," William B. Folsom, 8:23-25.
1077. "The skipjack tuna, *Katsuwonus pelamis*, an underutilized resource," Walter M. Matsumoto, 8:26-33.
1078. "Minced fish in a new form," Joseph M. Mendelsohn, 8:34-36.
1079. "Controlling bone particle content in minced fish muscle," Max Patashnik, David Miyauchi, and George Kudo, 8:37-38.
1080. "Seabed drifters used to study bottom currents off Kodiak Island," W. James Ingraham, Jr. and James R. Hastings, 8:39-41.
1081. "Distribution of seaward-migrating chinook salmon and steelhead trout in the Snake River above Lower Monumental Dam," Jim Ross Smith, 8:42-45.
1082. "Exploratory fishing activities of the UNDP/FAO Caribbean Fishery Development Project, 1965-1971: A summary," Robert S. Wolf and Warren F. Rathjen, 9:1-8.
1083. "Handline and longline fishing explorations for snapper and related species in the Caribbean and adjacent waters," Kyotaro Kawaguchi, 9:8-31.
1084. "Results of live bait and pole and line fishing explorations for pelagic fishes in the Caribbean," Donald P. Wagner, 9:31-35.
1085. "Results of troll fishing explorations in the Caribbean," Donald P. Wagner and Robert S. Wolf, 9:35-43.
1086. "Spiny lobster fishing explorations in the Caribbean," Geoffrey R. Chislett and Mitsuo Yesaki, 9:43-48.
1087. "Trap fishing explorations for snapper and related species in the Caribbean and adjacent waters," Robert S. Wolf and Geoffrey R. Chislett, 9:49-61.
1088. "Exploratory tuna longline fishing in the Caribbean and adjacent waters," Kyotaro Kawaguchi, 9:61-66.
1089. "Results of experimental and exploratory shark fishing off northeastern South America," L. J. K. Kleijn, 9:67-77.
1090. "Minor miscellaneous exploratory/experimental fishing activities in the Caribbean and adjacent waters," Robert S. Wolf, 9:78-87.
1091. "Development of the pelagic red crab (Galatheidae, *Pleuroncodes planipes*) fishery in the eastern Pacific Ocean," Susumu Kato, 10:1-9.
1092. "Introducing new products into seafood markets," Morton Miller, 10:10-13.
1093. "The recreational fishery on three piers near St. Petersburg, Florida during 1971," William A. Fable, Jr. and Carl H. Saloman, 10:14-18.
1094. "Menhaden and power plants—a growing concern," James S. Young, 10:19-23.
1095. "Deepwater shrimp trapping in the Hawaiian Islands," Paul Struhsaker and Donald C. Aasted, 10:24-30.
1096. "Attitudinal and demographic characteristics for regular and irregular users of fresh finfish," Peter M. Sanchez and Leonard J. Konopa, 10:31-34.
1097. "Plastic turf substitute for gravel in salmon incubators," Jack E. Bailey and Sidney G. Taylor, 10:35-38.
1098. "Fisheries of the Republic of Korea," William B. Folsom, 11:1-19.
1099. "Thermal bleaching of red algal pigment in shucked oysters," V. G. Burrell, Jr., 11:19-22.
1100. "New England Fisheries Development Program," Warren F. Rathjen, 11:23-30.
1101. "Riddle of Bering Sea soundings resolved," Felix Favorite, 11:30-32.
1102. "Effects of artificial reefs on a marine sport fishery off South Carolina," Chester C. Buchanan, Richard B. Stone, and R. O. Parker, Jr., 11:32-38.
1103. "Economics of Gulf of Mexico industrial and foodfish trawlers," Rolf Juhl, 11:39-42.
1104. "Estimated costs, returns, and financial analysis: Gulf of Mexico shrimp vessels," Wade L. Griffin, Ronald D. Lacewell, and Wayne A. Hayenga, 12:1-4.
1105. "Puget Sound drum seining," William L. High, 12:5-11.
1106. "Japanese skipjack tuna fishery development in foreign areas (Katsuo Kaihatsu—Kaigar Katsuozuri Gyogyo)," Anonymous, 12:12-17.
1107. "Some marketing considerations with respect to minced fish products," Joshua John, 12:18-20.
1108. "Names of fishes," Daniel M. Cohen, 12:21-23.
1109. "The potential for an offshore squid fishery in New England," F. E. Lux, W. D. Handwork, and W. F. Rathjen, 12:24-27.
1110. "Squid—its potential and status as a U.S. food resource," Vincent G. Ampola, 12:28-32.

☆ GPO 697-678