Publications

Reviews

Marine Invertebrate Fisheries: Their Assessment and Management. *Edited by John F. Caddy. Wiley Interscience, New York. 1989. 752 pages. $79.95.* **AVAILABLE FROM AFS AT 5% DISCOUNT.**

The population biology of fishes and fisheries management practices are relatively well understood and, not surprisingly, invertebrate fisheries have often been managed based on principles previously applied to finfish populations. Unfortunately, invertebrate fisheries are represented by a diverse range of species and present unique problems associated with the management of these various species. The techniques and practices used to study and manage finfish populations often confuse and/or complicate the situation when applied to invertebrate species. In many invertebrate species, for example, the basic tasks of obtaining age and growth data are often quite difficult and require methods sharply different from those employed in finfish biology.

In this book, Caddy has drawn upon the expertise of 41 different authors as well as his own wealth of experience to present a comprehensive and unified coverage of current methods and procedures used to assess commercially important marine invertebrate species. The book is divided into two sections: crustacean fisheries and molluscan and other invertebrate harvests. While these titles are quite broad, each of the sections contains both case studies and chapters of general interest. The topics have been carefully chosen to provide an even-handed presentation of current knowledge of management techniques associated with various invertebrate species. In-depth reviews of both crustaceans (krill, shrimps, prawns, lobsters, and snow, dungeness, and stone crabs) and molluscs (abalone, conch, oysters, scallops, and clams) are provided along with reviews of some lesser-studied groups such as cephalopods and echinoderms. Chapters on blue crabs and mussels would have been useful.

The individual chapters are well written, and the coverage of each topic is thorough and current. References as recent as 1987 are common, and many others are listed as being in press. Authors have drawn heavily on the gray literature, often one of the best sources of information on commercially important invertebrates. In addition, the book contains a good deal of new information and thought-provoking reviews on such topics as "forecasting yield and abundance of exploited invertebrates" and "managing an international multispecies fishery." The editor has provided an overview at the beginning of each section which serves as an introduction as well as a short review and ties the sections together.

The major focus of the book, as stated by Caddy, is to "outline, through case studies and reviews, the current practices in management and assessment of 'wild' stocks of marine invertebrates, as well as what seem to be the most promising approaches for the future." The editor has achieved his goal of providing a book that "will be useful to marine biologists, fisheries economists and managers, and to others who have an interest in what is commonly referred to nowadays as oceanology." The book will serve as a broad reference tool and is a welcome addition to the literature.

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New Titles

The following publications should be ordered directly from the publisher unless noted otherwise.

Analysis of Messy Data. Volume 2: Nonreplicated Experiments. By G. A. Milliken and D. E. Johnson. Van Nostrand Reinhold, New York. 1988. 199 pages. $51.95. Sequel to Volume 1: *Designed Experiments*, published in 1984. *Wealth of statistical methods for analyzing experiments with no independent replications of the treatments being studied. Topics covered in the 11 chapters include two-way and three-way treatments, interaction models, half-normal plots, factorial treatments, polynomial models, and others. Describes computations using existing statistical software; useful reference for researchers.*

Channelized Rivers: Perspectives for Environmental Management. By Andrew Brookes. John Wiley and Sons, New York. 1988. 326 pages. $79.95. **AVAILABLE FROM AFS AT 5% DISCOUNT.** *Description of the role of fluvial geomorphology in the design of river channels, with thoughts to reduce environmental impact and enhance channelization schemes. Organized into nine chapters that address conventional river engineering, legislative framework, physical effects, biological impacts, downstream consequences, revised construction procedures, mitigation and restoration techniques, and future prospects. Of greatest use to biologists, geomorphologists, and civil engineers working in rivers.*

Clam Mariculture in North America. Edited by J. J. Manzi and M. Castagna. Elsevier, New York. 1989. 461 pages. $118.50. **AVAILABLE FROM AFS AT 5% DISCOUNT.** *Up-to-date review of the history and development of clam culture for the researcher and culturist. Eighteen chapters by recognized experts cover basic biology and applied science, from gametogenesis to depuration. Species coverage is mainly the quahog, manila clam, and surf clam, with enough detail to warm the cockles of anyone's heart.*

Coral Reefs of Florida. By Gilbert L. Voss. Pineapple Press, Sarasota, Florida. 1988. 80 pages. $9.95 (paper). *Readable introduction to the history and biology of reefs. Color photo-*