



# Fisheries Biology, Assessment and Management

*By Michael King*



## **Fisheries Biology, Assessment and Management** By Michael King

This excellent second edition of Fisheries Biology, Assessment and Management, has been fully updated and expanded, providing a book which is an essential purchase for students and scientists studying, working or researching in fisheries and aquatic sciences.

In the same way that excessive hunting on land has threatened terrestrial species, excessive fishing in the sea has reduced stocks of marine species to dangerously low levels. In addition, the ecosystems that support coastal marine species are threatened by habitat destruction, development and pollution. Open access policies and subsidised fishing are placing seafood in danger of becoming a scarce and very expensive commodity for which there is an insatiable demand.

Positive trends include actions being taken to decrease the incidental catches of non-target species, consumer preferences for seafood from sustainable fisheries, and the establishment of no-take areas that provide refuges for marine species. But there is an urgent need to do more.

Because there is an increasing recognition of the need to manage ecosystems as well as fish stocks, this second edition of this bestselling text book includes an additional chapter on marine ecology. Chapters on parameter estimation and stock assessment now include step-by-step instructions on building computer spreadsheet models, including simulations with random variations that realistically emulate the vagaries of nature. Sections on ecosystem management, co-management, community-based management and marine protected areas have been expanded to match the increased interest in these areas.

Containing many worked examples, computer programs and numerous high quality illustrations, Fisheries Biology, Assessment and Management, second edition, is a comprehensive and essential text for students worldwide studying fisheries, fish biology, aquatic and biological sciences. As well as serving as a core text for students, the book is a superb reference for fisheries and aquatic researchers, scientists and managers across the globe, in both temperate and tropical regions. Libraries in all universities where fish biology, fisheries, aquatic sciences and biological sciences are studied and taught will need copies of this most useful new edition on their shelves.

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### Editorial Review

#### Review

"A well-constructed synthesis of biological, ecological, assessment, and management information, and an overall improvement to the first edition...King makes a sometime difficult subject clear to understand."

(*Reviews in Fish Biology and Fisheries*, November 2008)

"A very up-to-date and substantially improved second edition of this important book. It now incorporates a significant focus in ecosystem management." (*Ausmarine*)

#### Review

"The main differences between the first and second editions relate to an updating of the text in the light of recent developments in fisheries technology, stock assessment methods and management practices, along with the addition of a chapter covering general aspects of marine ecology. King's book is most suitable for undergraduate courses in fisheries biology/science, and caters for the needs of students who may have little prior knowledge of aquatic biology."

–Malcolm Jobling, NFH, University of Tromsø

#### From the Back Cover

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