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This book focuses on latest information on the biology and ecology of the three bluefin tuna species: the Pacific (*Thunnus orientalis*), Atlantic (*T. thynnus*), and southern bluefin tuna (*T. maccoyii*). In the book, the phylogeny and basic ecological information such as early life history, age and growth, and food habits are covered. Information related to migratory ecology, and important biological aspects such as metabolism and energetics, swimming performance, schooling, visual physiology, and reproductive physiology are also included. Furthermore, new research insights about various kinds of mathematical models for bluefin tuna ecology are introduced. All the chapters are contributed by active scientists engaged in bluefin tuna research. The intent of this book is to contribute to a better understanding of the biology and ecology of bluefin tuna, and encourage undergraduate and graduate students who read this book to become bluefin tuna scientists who can contribute to further understanding of the biology and ecology of bluefin tuna. 'The litany of world fishery failures shows that reform of fisheries governance and institutions is essential. The valuable insights and applications in this book will be enormously useful for fishery regulators as they try to sustainably and profitably manage fish stocks, especially highly migratory species such as tuna.' - Quentin Grafton, Australian National University Elizabeth H. Petersen argues that economists and other social scientists are increasingly focusing their attention towards institutions (defined as humanly-devised rules) as critical determinants of economic, social and politic. This book focuses on latest information on the biology and ecology of the three bluefin tuna species: the Pacific (*Thunnus orientalis*), Atlantic (*T. thynnus*), and southern bluefin tuna (*T. maccoyii*). In the book, the phylogeny and basic ecological information such as early

life history, age and growth, and food habits are covered. Information related to migratory ecology, and important biological aspects such as metabolism and energetics, swimming performance, schooling, visual physiology, and reproductive physiology are also included. Furthermore, new research insights about various kinds of mathematical models for bluefin tuna ecology are introduced. All the chapters are contributed by active scientists engaged in bluefin tuna research. The intent of this book is to contribute to a better understanding of the biology and ecology of bluefin tuna, and encourage undergraduate and graduate students who read this book to become bluefin tuna scientists who can contribute to further understanding of the biology and ecology of bluefin tuna. Scientists, fisheries managers, policymakers, and marine conservationists will take away key data from this timely volume to help them ensure these remarkable fish continue in perpetuity. *Advances in Tuna Aquaculture: From Hatchery to Market* provides detailed overviews on the current status of tuna fisheries, fattening, and farming practices, as well as advances in closed-cycle tuna aquaculture. Contributors are renowned scientists, internationally recognized as authorities in their fields. This book addresses all basic and applied aspects of tuna aquaculture, presenting and discussing the global status of tuna fisheries, reproduction, broodstock management, spawning, larval rearing and early developmental stages including nursery and grow out methods. It presents incorporates the most comprehensive and updated data, statistics, and trends in tuna fisheries and aquaculture, covering and addresses a variety of topics ranging from endocrinology, nutrition, diseases, and genetics to economics and markets. It covers describes recent up-to-date progress on tuna aquaculture and hatchery development. It also provides a synopsis overview of the challenges presently confronted by tuna aquaculturists, facing tuna aquaculture and and offers innovative views on the challengesbottle-neck issues faced by the industry with the current shift from fisheries to fattening to closed-cycle aquaculture. This is the first book to encompass all aspects related to the tuna aquaculture industry, and merges them into a state-of-the-art compendium that will serve as seminal reference for students, researchers, and professionals working with tuna biology, fisheries, and aquaculture worldwide. Incorporates and reviews the most recent information on tuna fisheries and aquaculture Presents the most innovative production technologies in tuna aquaculture, from hatchery to market Includes important information on tuna, derived from industry experience and academic research on larval rearing technology and grow out operations Encompasses and discusses key topics such as genetics, diseases, nutrition, endocrinology, and reproduction, as well as developments, challenges, and future opportunities in tuna aquaculture Provides the latest scientific methods and technologies to maximize efficiencies and production Presents the independent and collective assessments, viewpoints, and visions of various scientists, all internationally recognized as authorities in the field Historically, whenever tuna was hauled ashore, the sounds of battle were never far away. 'Tuna Wars' tells the untold story of the power struggles emerging around tuna, from the distant past to your present-day dinner table. In the ancient past, the giant tuna was the first fish to become the basis of a large-scale industry and a 'global' trade that created fortunes: Hannibal was able to finance his elephant campaign on Rome thanks to tuna. From the Middle Ages on, a tuna fishing monopoly on Spain's southern coast allowed the nobility to completely dominate the area and even lead the 'invincible' Armada. When the markets for tuna increased exponentially thanks to technical advances, tuna eventually became a billion-dollar business and one of the most-consumed fish species worldwide. But this massive expansion came at a price. An 18th century monk in Madrid was the first to warn that tuna fisheries needed to be run sustainably for the sake of future generations. And the issue of sustainability would go on to become a game-changer in the modern tuna wars, characterized by new alliances and partnerships, hybrid warfare and commercial power struggles. In addition to accompanying you through the history of tuna and sharing insights into fisheries science and approaches to sustainably managing fisheries, *Tuna Wars* offers practical guidance on choosing sustainably fished tuna. In short, it will tell you everything you ever wanted to know about tuna, but were afraid to ask. Scientists, fisheries managers, policymakers, and marine conservationists will take away key data from this timely volume to help them ensure these

remarkable fish continue in perpetuity. An indexed bibliography of papers on tuna and billfish tagging is appended. "Based on an extensive study of six Pacific island states, 'Capturing Wealth from Tuna' maps out the aspirations and limitations of six Pacific island countries and proposes strategies for capturing more wealth from this resource in a sustainable and socially equitable manner"--Provided by publisher. Famed marine researcher and illustrator Richard Ellis brings us a work of scientific achievement that will forever change the way we think about fish, fishing, and the dangers inherent in the seafood we eat. The bluefin tuna is one of the world's biggest, fastest, and most highly evolved marine animals, as well as one of its most popular delicacies. Now, however, it hovers on the brink of extinction. Here Ellis explains how a fish that was once able to thrive has become a commodity—and how the natural world and the global economy converge on our plates. With updated information on mercury levels in tuna, this is at once an astounding ode to one of nature's greatest marvels and a serious examination of a creature and world at risk. *Fisheries in the Pacific: The Challenges of Governance and Sustainability* is a multidisciplinary book, which examines various aspects of coastal and oceanic fisheries in Pacific waters. These interrelated fisheries sectors are critical for regional food security and also represent a reserve of food resources for the rest of the world. The introduction and eight chapters highlight that both these sectors raise major economic and ecological issues while revealing significant social changes, political asymmetries and alliances, geostrategic rationales, developments in legislation, customary dynamics, and conservation challenges. Through complementary approaches and interpretations of both quantitative and qualitative data, this book aims to contribute to a better understanding of the current situation of fisheries in the Pacific. It also responds to the compelling need to establish a constructive and ongoing dialogue on the matter between social scientists and environmental scientists, based in Europe and in the Pacific Islands, and between these experts and the various stakeholders and policy-making institutions involved in the Pacific region. The total world catch of the major commercial tuna species (albacore, bigeye, bluefin, skipjack and yellowfin) has increased during the last 50 years (from 0.4 to 3.9 million tonnes), but the pattern of increase has varied among species, oceans and fishing gears. The Pacific Ocean has been the predominant region in the world catch, with catches from the Indian Ocean having exceeded those from the Atlantic Ocean in recent years. This publication examines historical trends in the catches of these tuna species and considers the causes of the variations. Of the principal market species, the status of three of the 23 stocks is unknown; namely, albacore in the Mediterranean Sea and skipjack in the Atlantic (two stocks). Weaknesses in understanding of tuna distributions and movements have constrained the development of rational management policies. Uncertainties exist in: the selection of management plans and catch and effort data that are representative of a stock; quantification of exchange of adults among management jurisdictions and fishing gears; and identification of the relationships between the environment and tuna movements. This report summarizes a series of discussions between a panel and groups of experts on how to increase understanding of these and other tuna problems. We discuss the uncertainties in current management policy caused by lack of understanding of tuna movement dynamics. We describe and evaluate the research approaches presently used to describe the movements of tunas-- mark and recapture and acoustic tracking-- and those which might be used or are just being applied, including new tagging systems, measurement of physiological state and microconstituents of mineralized tissue. Actions needed to improve the knowledge of tuna movements are: 1) establish international arrangements to share tuna movement data, to analyse movements on an oceanwide and worldwide basis and to link international oceanographic programs; 2) increase number and kinds of observations of movements of tuna in the vertical plane; 3) develop and use technology for tracing the actual paths followed by tunas over extended periods and for measuring movements independent of the fishery; and 4) conduct intensive studies on tuna movement dynamics which combine old with the new technologies discussed in the report. Peter Wilson has played a key role in the development of the world's largest and most important tuna resource in the Western Pacific. After studying Japanese and Fisheries at the University of

Washingtons College of Fisheries he became one of the initial users of SCUBA gear for commercial fishing. He was then hired by Bumble Bee Seafood Company to conduct fisheries surveys in Japan, Okinawa, Palau, Palmyra, French Frigate Shoals, Johnston Island, Midway and elsewhere. After establishing artificial reefs in Guam and using explosives to create improved ocean circulation in Tumon Bay for tourism development, he was retained by the Micronesian governments to head up fisheries development for Palau, FSM and the Marshall Islands. During this period he established the first commercial tuna fishing operation in the Western Pacific after WWII and dive industries in Palau and Truk (Chuuk). He then went to Oman to prepare a Five Year Fisheries Development Program and was then retained by FAO to serve as the Director of Fisheries and Advisor to Government of Papua New Guinea for seven years to head up their fisheries operations, He then created Global Ocean Consultants and was then selected by the Republic of Maldives to establish a World Bank financed tuna industry on a small atoll with no harbor, housing, power or water. GOC provided management and training services for five years and during this period established a profitable cannery, can manufacturing plant, fishmeal plant and brought production up to over 60 tons a day. Of those 14 species, the commissions of the RFMOs took action commensurate with the scientific advice in only five cases, and in three of the five cases, the actions only reflected other circumstances. Conditions that provide incentives for participating governments to take (or not to take) cooperative actions to conserve resources are discussed. Apart from complying with global obligations and expectations, the major necessary condition for successful negotiation is that all participants in a negotiation should benefit from agreement to cooperate rather than from unrestrained competition. The fishery in the eastern Pacific Ocean is used as an example to show that this condition generally cannot be expected to be met. The use of rights-based management systems is discussed and these systems are advanced as a means to facilitate the addressing of shortcomings in the current conservation and management of tuna fisheries. This book reviews and evaluates the scientific basis of U.S. management of fisheries for Atlantic bluefin tuna. In particular, it focuses on the issues of stock structure and stock assessments used by the National Oceanic and Atmospheric Administration's National Marine Fisheries Service for management under the International Convention for the conservation of Atlantic Tunas. Describes the equipment, skills, and techniques needed for deep-sea fishing. This book focuses on latest information on the biology and ecology of the three bluefin tuna species: the Pacific (*Thunnus orientalis*), Atlantic (*T. thynnus*), and southern bluefin tuna (*T. maccoyii*). In the book, the phylogeny and basic ecological information such as early life history, age and growth, and food habits are covered. Information relat

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