

# Reinventing Fisheries Management

Anthony Piroddi

This article presents the major oral outcomes of an international symposium on Fisheries management held at the Fisheries Centre of the University of British Columbia, Vancouver, Canada, 21-23 February 1998.



Photo by John Henshall

**A**n unusual international and interdisciplinary symposium took place in Vancouver this year. The title itself, "Reinventing Fisheries Management", suggests that the topic would reach beyond present day paradigms as indeed they did. The intention, through appropriate choice of speakers and participants, was to bring together ecology, social sciences, economics, natural resource and population science to focus on innovative scientific tools, novel insights, new systems and novel forms of management that may lead to sustainable and sustainable fisheries in the 21st century. Over 100 scientists from 12 countries participated.

The reputation of Fisheries scientists has recently suffered a serious downturn. Despite our best efforts, fisheries worldwide have become severely depleted and, along with reductions in the size of fish harvested, fish communities have shifted towards small, rapidly growing species.

These symptoms have been accompanied by a crisis of Fisheries confidence that has not only been largely undetected even by our most advanced assessment methods, but have also brought about disastrous social and economic consequences. Such disasters have even occurred in developed nations like Canada, that previously leads the world in

numbers of top-rate fisheries scientists per capita.

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Confidence in conventional fisheries science data have eroded at the very time when we need it most.

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Confidence in conventional fisheries science has been eroded at the very time when we need it most of any and the difficulty to make fish harvest sustainable in face of the uncertainty because the demand for fish and wealth that the human population of the coming century will bring.

Thus, Fisheries science is more in a state of flux. Many feel that

# Reinventing Fisheries Management

**Eugene Levner, Igor Linkov, Jean-Marie  
Proth**



## **Reinventing Fisheries Management:**

**Reinventing Fisheries Management** T.J. Pitcher,P. Hart,D. Pauly,2012-12-06 Judged by a dismaying track record and a consequent downturn in the reputation of fisheries scientists fisheries management is certainly a candidate for calls for reinvention with many of the world leaders in this area holding the view that no fishery has ever been properly understood or managed With fisheries science in a state of flux this extremely important book seeks a new paradigm that will place this flux of ideas in perspective and help us to choose those that will make fisheries management work The book was planned at a symposium of over 100 fishery researchers at the Fisheries Centre University of British Columbia Vancouver Canada and is organized into five parts Why does Fisheries Science Need Reinventing New Policies The Role of the Social Sciences Ecology Modelling Carefully integrated and edited by three of the world s leading fishery scientists this stimulating book should find a place on the shelves of all fishery scientists throughout the world It will be an invaluable reference source to those studying fish biology fisheries and oceanography and all those involved in fisheries policy decisions in government and university research establishments A human dimensions approach towards sustainable recreational fisheries management Robert Arlinghaus,2004 *Fisheries Management in Areas Beyond National Jurisdiction* Daniela Diz Pereira Pinto,2012-10-01 This book analyses the law making of ecosystem based fisheries management in marine areas beyond national jurisdiction as a post development of the United Nations Convention on the Law of the Sea UNCLOS so as to avoid stocks collapse and destruction of critical habitats and increase the resilience of marine ecosystems **A Fishery Manager's Guidebook** Kevern L. Cochrane,Serge M. Garcia,2009-06-15 Co published with the Food and Agriculture Organization of the United Nations Fisheries management is the process that has evolved to try to ensure that fisheries operate in a manner that provides the immediate benefits in a sustainable manner The widely accepted goal is that the full range of benefits should not only be available for this generation but for generations to come Fisheries management has been successful in some cases but there have also been many many cases of failure This volume is intended to contribute to improving this unsatisfactory state by addressing the widespread need for information and guidance on the broad and often complex task of fisheries management It is an updated and expanded edition of the first version of A fishery manager s guidebook which was published as a FAO Fisheries Technical Paper in 2002 The major part of this new edition is divided into five parts intended to cover the range of concerns tools and techniques essential to the modern fisheries manager whether that manager is an individual or a formal or informal group Following the Introduction Part I examines the primary dimensions of fisheries biological ecological social and economic Part II looks at the legal and institutional characteristics of fisheries Part III explores the tools that fishery managers have to achieve the objectives expected from a fishery Part IV discusses the role of scientific information of indicators and reference points Part V moves into implementation of fisheries management and includes a chapter on special considerations in small scale fisheries This landmark publication is aimed at fishery managers and scientists All libraries in

research establishments and universities where fisheries and aquatic sciences are studied and taught will need copies of this important volume Fisheries around the world make essential contributions to human well being including the provision of basic food supplies employment recreational opportunities foreign currency and others providing benefits to hundreds of millions of people Despite these benefits our record of managing fisheries so that the benefits can be sustained has been poor at best and most fisheries around the world are experiencing serious ecological social or economic problems and usually all three Today there is global concern about the state of fishery resources and aquatic ecosystems their resilience to future stresses such as climate change and their ability to continue to provide benefits

*The Future of Fisheries Science in North America* Richard J. Beamish, Brian J. Rothschild, 2009-02-07 Fisheries science in North America is changing in response to a changing climate new technologies an ecosystem approach to management and new thinking about the processes affecting stock and recruitment Authors of the 34 chapters review the science in their particular fields and use their experience to develop informed opinions about the future Everyone associated with fish fisheries and fisheries management will find material that will stimulate their thinking about the future Readers will be impressed with the potential for new discoveries but disturbed by how much needs to be done in fisheries science if we are to sustain North American fisheries in our changing climate Officials that manage or fund fisheries science will appreciate the urgency for the new information needed for the stewardship of fish populations and their ecosystems Research organizations may want to keep some extra copies for a future look back into the thoughts of a wide range of fisheries professionals Fisheries science has been full of surprises with some of the surprises having major economic impacts It is important to minimize these impacts as the demand for seafood increases and the complexities of fisheries management increase

**Fisheries Management** Tim McClanahan, Juan Carlos Castilla, 2008-04-15 The world's stocks of wild fish continue to decline making the task of finding innovative sustainable and socially acceptable methods of fisheries management more important than ever Several new approaches from around the world have proved to be successful in stemming the decline whilst increasing fish catches and under the editorship of McClanahan and Castilla this international team of authors have looked to these examples to provide the reader with carefully chosen case studies offering practical suggestions and solutions for problem fisheries elsewhere Coverage includes Community based fisheries Collaborative and co operative fisheries management Coastal fisheries management The future for sustainable fisheries management Written by many of the world's most experienced practitioners Fisheries Management Progress toward sustainability is an important purchase for all fisheries scientists managers and conservationists All libraries in universities and research establishments where this area is studied and taught will find this book a valuable addition to their shelves

**Handbook of Fish Biology and Fisheries** Paul J. B. Hart, John D. Reynolds, 2008-04-15 Recent decades have witnessed strong declines in fish stocks around the globe amid growing concerns about the impact of fisheries on marine and freshwater biodiversity Fisheries biologists and managers are therefore

increasingly asking about aspects of ecology behaviour evolution and biodiversity that were traditionally studied by people working in very separate fields This has highlighted the need to work more closely together in order to help ensure future success both in management and conservation The Handbook of Fish Biology and Fisheries has been written by an international team of scientists and practitioners to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation This volume subtitled Fisheries focuses on a wide range of topics including the history of fisheries science methods of capture marketing economics major models used in stock assessments and forecasting ecosystem impacts marine protected areas and conservation It builds on material in Volume 1 Fish Biology which ranges from phylogenetics and biogeography to physiology recruitment life histories genetics foraging reproductive behaviour and community ecology Together these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science They will also be useful to researchers who need up to date reviews of topics that impinge on their fields and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems To order volume II go to the box in the top right hand corner Alternatively to order volume I go to <http://www.blackwellpublishing.com/book.asp/ref/0632054123> or to order the 2 volume set go to <http://www.blackwellpublishing.com/book.asp/ref/0632064838> Provides a unique overview of the study of fish biology and ecology and the assessment and management of fish populations and ecosystems The first volume concentrates on aspects of fish biology and ecology both at the individual and population levels whilst the second volume addresses the assessment and management of fish populations and ecosystems Written by an international team of expert scientists and practitioners An invaluable reference tool for both students researchers and practitioners working in the fields of fish biology and fisheries

*The Fisheries Co-management Experience* Douglas Clyde Wilson, Jesper Raakjaer Nielsen, Poul Degnbol, 2013-03-09 For two decades the idea of governments and fishers working together to manage fisheries has been advocated questioned disparaged and most importantly attempted in fisheries from North and South America through Europe Africa Asia and Oceania This book is the first time these experiences have been pulled together in a single volume summarized and explained The Fisheries Co management Experience begins with a review of the intellectual foundations of the co management idea from several professional perspectives Next fisheries researchers from six global regions describe what has been happening on the ground in their area Finally the volume offers a set of reflections by some of the best authors in the field The end result describes both the state of the art and emerging issues for one of the most important trends in natural resources management

Strategic Management of Marine Ecosystems Eugene Levner, Igor Linkov, Jean-Marie Proth, 2006-05-06 The demand for advanced management methods and tools for marine ecosystems is increasing worldwide Today many marine ecosystems are significantly affected by disastrous pollution from industrial

agricultural municipal transportational and other anthropogenic sources The issues of environmental integrity are especially acute in the Mediterranean and Red Sea basins the cradle of modern civilization The drying of the Dead Sea is one of the most vivid examples of environmental disintegration with severe negative consequences on the ecology industry and wildlife in the area Strategic management and coordination of international remedial and restoration efforts is required to improve environmental conditions of marine ecosystems in the Middle East as well as in other areas The NATO Advanced Study Institute ASI held in Nice in October 2003 was designed to 1 provide a discussion forum for the latest developments in the field of environmentally conscious strategic management of marine environments and 2 integrate expertise of ecologists biologists economists and managers from European American Canadian Russian and Israeli organizations in developing a framework for strategic management of marine ecosystems The ASI addressed the following issues Key environmental management problems in exploited marine ecosystems Measuring and monitoring of municipal industrial and agricultural effluents Global contamination of seawaters and required remedial efforts Supply Chain Management approach for strategic coastal zones management and planning Development of environmentally friendly technologies for coastal zone development Modeling for sustainable aquaculture and Social political and economic challenges in marine ecosystem management

Papers Presented at the Second Session of the Working Party on Small-Scale Fisheries Food and Agriculture

Organization of the United Nations. Working Party on Small-Scale Fisheries, 2004-01-01 The session agreed on a vision statement and on a characterization of small scale fisheries as well as on a research agenda of five main themes It elaborated preliminary drafts of two separate technical documents on the contribution role and importance of small scale fisheries and research agenda for small scale fisheries and requested that the documents be submitted after finalization by the Secretariat to the ACFR at its next session

Managed Annihilation Dean Bavington, 2011-01-01 The commercial cod fishery in Newfoundland and Labrador was once the most successful fishery in the world When it collapsed in 1992 causing the largest single day layoff in Canadian history and irrevocable ecological damage fishermen scholars and scientists pointed to failures in management such as uncontrolled harvesting as likely culprits Examining the history of commercial cod fisheries in the region from the mid nineteenth century Managed Annihilation makes the case that the very idea of natural resource management caused the death of the cod The collapse occurred when the fisheries were ostensibly managed by the state and the fishery has still not recovered nearly two decades later Although the collapse raised doubts among policy makers about their ability to understand predict and control nature their ultimate goal of control through management has not wavered it has simply been transferred onto new targets

**Collaborative Research in Fisheries** Peter Holm, Maria Hadjimichael, Sebastian Linke, Steven Mackinson, 2020-02-24 This book is about the ongoing transition of fisheries governance from top down command and control towards a more transparent and participatory form It focuses on the emergence of research practices and advice frameworks that allow co creation of common knowledge bases for management

Drawing from 8 years of research in GAP a two stage 7th framework EU project the book offers a critical examination of how knowledge practices in fisheries governance are changing The entry point for this research is a series of practical experiments in the uncharted terrain of collaborative research To gain insight into the ongoing transition in European fisheries management GAP initiated and carried out 13 Case Studies in different settings across Europe In each case study a team of fishers and marine scientists worked together to identify plan and implement research projects intended to make a difference The cases vary They take on different management issues and shape the collaborations in different ways The extent to which they succeed in realizing their objectives also differs They are all contributing important insights into the possibilities of co creating knowledge for management purposes The book delves into the individual experiences of each case study as well as the lessons they contribute as a whole The examination concludes that while research partnerships are not always easy to establish they are an important step towards better fisheries governance Without a common knowledge base for fisheries governance co created through collaborative research practices sustainable fisheries will remain out of reach

*Game Theory and Fisheries* Ussif Rashid Sumaila, 2013-08-22 Today there is a growing sense of urgency among fisheries scientists regarding the management of fish stocks particularly among those who predict the imminent collapse of the fishing industry due to stock depletion This book takes a game theoretic approach to discussing potential solutions to the problem of fish stock depletion Acknowledging the classification of fish stocks as destructible renewable resources these essays are concerned with the question of how much of the stock should be consumed today and how much should be left in place for the future The book targets both economists and students of economics who are familiar with the tools of their trade but not necessarily familiar with game theory in the context of fisheries management Importantly the goal is not to give a summary evaluation of the current views of the appropriate response to immediate policy questions but rather to describe the ways in which the problems at hand can be productively formulated and approached using game theory and couched on real world fisheries *Game Theory and Fisheries* consists of twelve previously published but updated articles in fisheries management a number of which address a gap in the fisheries literature by modelling and analysing the exploitation of fishery resources in a two agent fishery in both cooperative and non cooperative environments The author's work ultimately illustrates that the analysis of strategic interaction between those with access to shared fishery resources will be incomplete without the use of game theory

*Fish for Life* J. Kooiman, 2005 An interdisciplinary survey addressing the problems of overfishing worldwide and the best way forward toward good ecological practice and global cooperative governance

**Managing Small-scale Fisheries** Fikret Berkes, 2001 Managing Small Scale Fisheries Alternative directions and methods

**Deep Sea 2003: Conference reports** Food and Agriculture Organization of the United Nations, 2005-01-01 This is the first of the two volume proceedings from Deep Sea 2003 Conference on the Governance and Management of Deep sea Fisheries It includes the keynote addresses and papers presented on the Conference themes that covered environment ecosystem biology habitat

diversity and oceanography population biology and resource assessment harvesting and conservation strategies for resource management technology requirements monitoring compliance and controls a review of existing policies and instruments and governance and management It also provides the perspectives of participating experts and the Conference Steering Committee The general conclusions of the Conference contain the elements that must be addressed and undertaken if deep sea fish resources are to be sustained and their habitat protected to ensure productivity and safeguard deep sea biodiversity The second volume of the proceedings FAO Fisheries Proceedings No 3 2 ISBN 92 5 105457 6 includes posters and corresponding papers presented at the Conference as well as papers from workshops held prior to the main Conference

**Viability and Sustainability of Small-Scale Fisheries in Latin America and The Caribbean** Silvia Salas, María José Barragán-Paladines, Ratana Chuenpagdee, 2018-06-07 One of the main goals in fisheries governance is to promote viability and sustainability in small scale fishing communities This is not an easy task given external and internal pressure including environmental change and competition with other economic sectors searching for development in the coastal region A comprehensive understanding of small scale fisheries in their own context and from a regional perspective is an important step in supporting the implementation of the Voluntary Guidelines on Securing Sustainable Small Scale Fisheries SSF Guidelines This book contributes to the global effort by offering knowledge insights and lessons about small scale fisheries in Latin America and the Caribbean The 20 case studies included in the book make explicit the various dimensions that are intrinsic to small scale fisheries in the region and identify conditions and situations that affect the wellbeing of fishing communities The book offers insights regarding the challenges faced by small scale fisheries in the region and aligning with the objectives of the SSF Guidelines provides lessons and experiences about how to make small scale fishing communities viable while maintaining sustainable fisheries This important book illustrates the complexity diversity and dynamics of small scale fisheries in the Latin American and Caribbean region and presents experiences tools and approaches to lead towards sustainable and viable fisheries The reader will gain a new understanding on the range of actions approaches and information needed for their successful management John F Caddy International Fisheries Expert This book prepared by the Too Big To Ignore partnership constitutes a very valuable resource for policy makers fisheries scientists non governmental organizations civil society organizations and fishing communities interested in putting in place sound management strategies research and actions to contribute to the sustainability of small scale fisheries and food security in Latin America and the Caribbean region Juan Carlos Seijo Professor of Fisheries Bioeconomics at Marist University of Merida *Climate Change and the Economics of the World's Fisheries* Rögnvaldur Hannesson, Manuel Barange, Samuel F. Herrick, 2006-01-01 To date research on the economic implications of climate change on fisheries has been both limited and fragmented The contributors to this volume remedy the lack of attention by investigating the economic consequences of pelagic fish fluctuations in the recent past in order to understand how to adapt and respond to future climate changes Overcoming Factors of

Unsustainability and Overexploitation in Fisheries Food and Agriculture Organization of the United Nations, 2005-01-01 This international workshop was organized in order to identify factors of unsustainability and over exploitation in fisheries and review major issues in the implementation of international fisheries instruments The Workshop was based on a review of discussion papers that took into account the outcomes of the previous workshops on these issues It addressed the following thematic issues governance and fisheries management causes or solutions for unsustainability access and fishing rights fishery management and sustainability dimensions and small scale issues and developing country perspective This document contains the report of the Workshop and eighteen discussion papers submitted by participants **Fishery Management**

Rekha R. Gaonkar, 2008 Study conducted in Goa State India

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