

A Fishery Manager's Guidebook

A Fishery Manager's Guidebook

Second Edition

Edited by

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Contents

<i>Contributors</i>	xi
<i>Preface</i>	xiii
<i>List of Acronyms</i>	xv
Chapter 1 Introduction – Fisheries Management	1
<i>Kevern L. Cochrane and Serge Michel Garcia</i>	
1.1 Why do we need this handbook?	1
1.2 What is fisheries management?	2
1.3 The fisheries manager	4
1.4 Fisheries management and fisheries governance	6
1.5 Some working principles for fisheries management	6
1.6 An objective-driven process	7
1.7 Management plans, measures and strategies	9
1.8 The structure of this guidebook	10
Sources and recommended reading	16
Part I The Primary Dimensions of Fisheries	
Chapter 2 Biology and Ecology Considerations for the Fishery Manager	21
<i>Yvonne Sadovy de Mitcheson</i>	
2.1 Introduction	21
2.2 Why marine resource managers need to know about biology and ecology	24
2.3 What managers need to know about biology and ecology	25
2.4 Emerging issues	45
2.5 Concluding comments	50
Acknowledgements	50
Sources and recommended reading	50
Web resources	51
Chapter 3 Social Aspects of Fisheries Management	52
<i>Fikret Berkes</i>	
3.1 Introduction	52
3.2 Dealing with the ‘tragedy of the commons’	53

3.3	Changing perspectives on resource management	57
3.4	Fisheries as linked social–ecological systems	58
3.5	Why broaden management objectives?	60
3.6	Is fishers’ knowledge relevant to management?	63
3.7	Why are institutions important?	65
3.8	The broader issues of fisheries governance	67
3.9	Synthesis and outlook	69
	Acknowledgements	73
	Sources and recommended reading	73
	Web resources	74
Chapter 4	Economic Principles: An Economic Perspective on Fishing <i>Arne Eide</i>	75
4.1	An economic approach to fisheries	75
4.2	Bioeconomic reasoning and reference equilibriums	83
4.3	An economic perspective on fisheries regulations	90
4.4	Fisheries development	96
4.5	Synthesis	100
	Sources and recommended reading	101
Part II Legal and Institutional Considerations		
Chapter 5	Legal Aspects <i>Blaise Kuemlangan</i>	105
5.1	Introduction	105
5.2	Fisheries law	107
5.3	Fisheries management regime in the legal framework	114
5.4	Monitoring, control and surveillance	123
5.5	Significant issues and their legal aspects	128
5.6	Law review and the manager	131
5.7	Synthesis and outlook	132
	Sources and recommended reading	133
	Web resources	134
Chapter 6	The Fishery Management Institutions <i>François Feral</i>	135
6.1	Introduction	135
6.2	The manager in the institutional environment	136
6.3	Institutional environment and decision-making	146
6.4	Synthesis	160
	Sources and recommended reading	161
	Additional reading	162
	Web resources	163

Part III Management Measures and Tools

Chapter 7	Regulation of Fishing Gears and Methods	167
	<i>Åsmund Bjordal</i>	
7.1	Introduction	167
7.2	Fishing gears	168
7.3	Passive fishing gears	168
7.4	Active fishing gears	176
7.5	Gear selectivity and ecosystem effects of fishing	183
7.6	Management considerations: selectivity and other ecosystem effects of fishing	192
7.7	Synthesis and outlook	193
	Sources and recommended reading	194
Chapter 8	Area and Time Restrictions	196
	<i>Stephen J. Hall</i>	
8.1	What are area and time restrictions?	196
8.2	Why would you establish area or time restrictions?	197
8.3	What are the advantages and disadvantages of area and time restrictions?	202
8.4	Case studies	204
8.5	What are the practical steps towards establishing time and area restrictions?	211
8.6	Synthesis and outlook	217
	Sources and recommended reading	218
Chapter 9	Input and Output Controls: The Practice of Fishing Effort and Catch Management in Responsible Fisheries	220
	<i>John G. Pope</i>	
9.1	Introduction	220
9.2	What are input and output controls?	222
9.3	Why would you want to use effort or catch management?	223
9.4	How would you impose fishing effort management and catch management?	225
9.5	What structures do you need for effort and catch management?	236
9.6	What problems exist with the application of effort management and catch management and how might they be circumvented?	239
9.7	Where can you see examples of effort management and catch management in action?	247
9.8	Synthesis and outlook	249
	Sources and recommended reading and web resources	250

Chapter 10	Rights-Based Fisheries Management: The Role of Use Rights in Managing Access and Harvesting <i>Anthony Charles</i>	253
10.1	What is rights-based fishery management?	253
10.2	Why are use rights relevant to fishery management?	258
10.3	What initial considerations arise with use rights?	260
10.4	What forms of use rights are there?	262
10.5	What implementation decisions arise with use rights?	269
10.6	Synthesis	278
	Acknowledgments	280
	Sources and recommended reading	280
Chapter 11	Partnerships in Management <i>Evelyn Pinkerton</i>	283
11.1	Introduction – partnerships solve problems, but are little known by managers	283
11.2	Partnerships of small and large scope	284
11.3	Partnerships of small and large scale	287
11.4	Partnerships with dual or multiple parties	289
11.5	Partnerships with different levels of community empowerment: accountability	291
11.6	Unusual partnerships solving particular equity problems: linking offshore fisheries to coastal communities	292
11.7	Power differentials of diverse actors on regional boards	294
11.8	Conditions for effective partnerships	296
11.9	Community partners may add value to the resource	297
11.10	Conclusion	298
	Acknowledgements	298
	Sources and recommended reading	298

Part IV Scientific Information and Advice

Chapter 12	Which Indicators for What Management? The Challenge of Connecting Offer and Demand of Indicators <i>Serge Michel Garcia, Hélène Rey-Valette, and Clotilde Bodiguel</i>	303
12.1	Introduction	303
12.2	Evolution of the demand	304
12.3	Development of a system of indicators	306
12.4	Typology of indicators	314
12.5	Main issues and challenges	322
12.6	Synthesis	328
	Sources and recommended reading	328
	Web resources	332

Chapter 13	The Use of Scientific Information	336
	<i>Kevern L. Cochrane</i>	
13.1	Why and when are data and information needed in fisheries management?	336
13.2	Types of knowledge and the role of the scientist	341
13.3	Uncertainty and the precautionary approach	343
13.4	What tools can be used to generate information to advise management?	347
13.5	Scientific advice for management	353
13.6	Using the knowledge in decision-making	362
13.7	Presenting information to decision-makers	363
13.8	Adaptive management	366
13.9	Synthesis and outlook	367
	Sources and recommended reading	368

Part V Implementation

Chapter 14	Fishery Monitoring, Control and Surveillance	373
	<i>Per Erik Bergh and Sandy Davies</i>	
14.1	Introduction	373
14.2	The MCS solution	376
14.3	Core components	384
14.4	Facilitating for MCS	391
14.5	System performance and planning	395
14.6	Synthesis and outlook	399
	Sources and recommended reading	401
	Web resources	403
Chapter 15	Special Considerations for Small-Scale Fisheries Management in Developing Countries	404
	<i>John Kurien and Rolf Willmann</i>	
15.1	Why small-scale fisheries need special consideration	404
15.2	Characterizing small-scale fisheries	405
15.3	A vision for small-scale fisheries	406
15.4	Substantive contribution of small-scale fisheries	407
15.5	Management objectives for small-scale fisheries	410
15.6	Management approaches for small-scale fisheries	410
15.7	Institutional arrangements for small-scale fisheries	413
15.8	Making a management plan for a small-scale fishery	414
15.9	Implementation of small-scale fisheries management	416
15.10	Capacity building for small-scale fisheries management	418
15.11	Emerging issues	419
	Sources and recommended reading	421

Chapter 16	Fisheries Management Plans	425
	<i>David J. Die</i>	
16.1	Introduction	425
16.2	Designing a management plan	426
16.3	Implementation of management plans	431
16.4	Reviewing and amending management plans	431
16.5	FMP within the context of the EAF	433
16.6	Examples of management plans	436
16.7	Synthesis and emerging issues	442
	Sources and recommended reading	443
	Web resources	444

Part VI Conclusions

Chapter 17	From Past Management to Future Governance: A Perspective View	447
	<i>Serge Michel Garcia and Kevern L. Cochrane</i>	
17.1	Introduction	447
17.2	Historical trends	448
17.3	Emerging practices	452
17.4	The future of fishery governance	467
	Sources and recommended reading	471

<i>Glossary</i>	473
<i>Index</i>	507

Colour plate section follows page 302

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Preface

A fishery managers' guidebook was first published as an FAO Fisheries Technical Paper in 2002 (Cochrane, 2002) to meet the need for information and guidance on the broad and often complex task of fisheries management. Based on subsequent experience and feedback gained from publication of the first edition, this new volume, co-published by FAO and Blackwell, has been expanded to provide broader coverage of the key elements of the task and updated in order to keep track of the rapid developments in theory and practice as academics and practitioners struggle to confront the many challenges facing modern fisheries management.

The editors of this volume would like to thank a number of people who have assisted in its preparation. First and foremost we wish to thank the authors of the chapters for their expertise and hard work in preparing their chapters as well as their cooperation and patience in meeting our many requests. We thank Rick Sutton of Cotswold Publishing Consultants for his contribution to managing the review process and for undertaking much of the copy-editing. Without his assistance, this book would still be in the form of manuscripts in various states of completion waiting for us to take them to the next stage. Rine Sola-Ronchetti and Anne van Lierde also made invaluable contributions in formatting and checking the final manuscripts.

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Finally, readers will note that there are frequent references throughout the book to informative website addresses. The authors have attempted to ensure that, at the time of printing, these addresses were valid. However, websites are often dynamic and addresses do change. Readers may therefore find that with time, some of the addresses may no longer be valid. Nevertheless, we hope that where this occurs the references will still enable you to find your way to the same information even if at a different address.

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Reference

Cochrane, K.L. (ed.). 2002. A fishery manager's guidebook. Management measures and their application. FAO Fisheries Technical Paper No. 424. Rome, FAO. 231p.

List of Acronyms

ABC	Allowable Biological Catch
AFMA	The Australian Fisheries Management Authority (Australia)
APFIC	Asia-Pacific Fishery Commission
BMSY	Biomass at Maximum Sustainable Yield
CBA	Capture-Based Aquaculture
CBD	Convention on Biological Diversity
CBM	Community-Based Management
CCAMLR	Convention on the Conservation of Antarctic Living Marine Resources
CECAF	Fishery Committee for the Eastern Central Atlantic
CFP	Common Fisheries Policy
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CMT	Customary Marine Tenure
COFI	FAO Committee on Fisheries
CPUE	Catch per unit Effort
DPSIR	Driving force-Pressure-State-Impact-Response
EAF	Ecosystem Approach to Fisheries
EBFM	Ecosystem-Based Fisheries Management
EEZ	Exclusive Economic Zone
EFH	Essential Fish Habitat
ESD	Ecologically Sustainable Development
FAO	The Food and Agriculture Organization of the United Nations
FFA	Forum Fisheries Agency
FINSS	Fisheries Information and Statistical System
FMA	Fisheries Management Administration
FMP	Fishery Management Plan
FRCC	The Fisheries Resource Conservation Council (Canada)
FSM	Flag State Measure
GDP	Gross Domestic Product
GFAL	General Fisheries and Aquaculture Law, 1991 (Chile)
GSI	Gonado-Somatic Index
HCR	Harvest Control Law
HDI	Human Development Index
IBI	Index of Biological Integrity
ICAM	Integrated Coastal Area Management

ICCAT	International Commission for the Conservation of Atlantic Tunas
ICES	The International Council for the Exploration of the Sea
ICSF	International Collective in Support of Fishworkers
IIP	The Mozambique Fisheries Research Institute (Mozambique)
INTQ	Individual Non-transferable Quota
IOTC	Indian Ocean Tuna Commission
IPOA	International Plans of Action
IPOA-CAPACITY	International Plan of Action for the Management of Fishing Capacity
IPOA-IUU	International Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing
ISO	International Organization for Standardization
ITQ	Individual Transferable Quota
IUCN	International Union for Conservation of Nature
IUU	Illegal, Unreported and Unregulated Fishing
IWC	International Whaling Commission
LCA	Life Cycle Analysis
LOS or LOSC	UN Law of the Sea Convention
MAC	Management Advisory Committee (Australia)
MCS	Monitoring Control and Surveillance
MDG	Millennium Development Goal
MEY	Maximum Economic Yield
MPA	Marine Protected Area
MPE	Management Procedure Evaluation
MSE	Management Strategy Evaluation
MSY	Maximum Sustainable Yield
NAFO	Northwest Atlantic Fisheries Organization
NEAFC	North East Atlantic Fisheries Commission
NGO	Non-Governmental Organization
NPF	Northern Prawn Fishery (Australia)
NPOA-IUU	National Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing
OMP	Operational Management Procedure
OSY	Optimum Sustainable Yield
PAF	Precautionary Approach to Fisheries
PCI	Principle Criteria Indicators
PIP	Policies, Institutions and Processes
PSM	Port State Measures
RFB	Regional Fisheries Body
RFMO	Regional Fisheries Management Organization
SAR	Synthetic Aperture Radar
SDRS	Sustainable Development Reference Systems

SEEA	System of Integrated Environmental and Economics Accounting
SLA	Sustainable Livelihood Approach
SMART objectives	Objectives that are Specific, Measurable, Achievable, Relevant and Time-bound
SPR	Spawning Potential Ratio
SSB	Spawning Stock Biomass
SSBR	Spawning-Stock-Biomass-per-Recruit
TAC	Total Allowable Catch
TEK	Traditional Ecological Knowledge
TED	Turtle Excluder Device
TL	Trophic Level
TURF	Territorial Use Rights in Fisheries or Territorial Use Rights in Fishing
UNCED	United Nations Conference on Environment and Development
UNCLOS	United Nations Convention on the Law of the Sea
UNDP	United Nations Development Programme
UNGA	UN General Assembly
VME	Vulnerable Marine Ecosystem
VMS	Vessel Monitoring System
VPA	Virtual Population Analysis
WCPFC	Western and Central Pacific Fisheries Commission
WSSD	World Summit on Sustainable Development, 2002
WWF	Worldwide Fund for Nature
YPR	Yield-per-Recruit