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1. Introduction
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Freshwater Aquaculture and Polyculture

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Engineering and Bio-Technologies in Aquaculture

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**Diseases and Pathology of Aquatic Organisms**

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Philippe Roch, *CNRS and Université de Montpellier 2, France*

1. Introduction
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Rene Perez, IFREMER, Laboratoire d'Algologie Appliquee, France

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Gilles Boeuf, Laboratoire Arago, Université Pierre et Marie Curie/CNRS, BP 44, 66650 Banyuls-sur-mer, France

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Charles Angell, Seattle, USA

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Environmental Impact of Aquaculture
A. Dosdat, IFREMER, Station Expérimentale d’Aquaculture, Palavas-Les-Flots, France

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Environmental Impact of Introduced Alien Species
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A Dynamic Theory of Fisheries Investment  
Ola Flaaten, University of Tromsø, N-9037 Tromsø, Norway

1. Fish Stock Investment  
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Spatial Bioeconomic Dynamics of Marine Fisheries  
J. C. Seijo, Universidad Marista de Mérida, México

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The Situation in World Fisheries  
Andy Thorpe, CEMARE, University of Portsmouth, UK  
David Whitmarsh, CEMARE, University of Portsmouth, UK  
Pierre Failler, CEMARE, University of Portsmouth, UK

1. Introduction  
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Fisheries Management: Basic Principles  
Ragnar Arnason, Department of Economics, University of Iceland, and European Commission Joint Research Centre (Agriculture and Fisheries Unit), Iceland

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Community Fisheries Management  
Susan Hanna, Coastal Oregon Marine Experiment Station, Oregon State University, USA

1. Introduction
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Management of Straddling Fish Stocks: A Bioeconomic Approach  
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### Economics Of Aquaculture

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1. Introduction
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### Game Theory and Fisheries

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| P. Pintassilgo, University of Algarve, Portugal |

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Adaptations To Life In Estuaries
James G. Wilson, Zoology Department, TCD, Dublin 2, Ireland

1. Salinity and sampling
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4. Sediments and turbidity
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Adaptations to Life in Marine Caves
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Renee E. Bishop, Department of Biology, Penn State University at Worthington Scranton, USA

1. Introduction
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Microzooplankton, key organisms in the pelagic food web

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1. Introduction
2. Main microzooplankton groups
3. Microzooplankton grazing impacts in marine ecosystems
   3.1. How much of the primary production is daily consumed by microzooplankton?
   3.2. Breaking old paradigms on the role of zooplankton in marine ecosystems
4. Microzooplankton and the biogeochemical cycles
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Large Zooplankton: its Role in Pelagic Food Webs

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1. Introduction
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Effects of Rising Seawater Temperature on Coral Reefs

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Raymond L. Hayes, Howard University, Washington, DC, USA

1. Introduction
2. Direct Thermal Effects
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Reef Restoration as a Fisheries Management Tool

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1. Introduction: Coral Reef Fisheries
2. Coral Reef Fisheries Decline
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Climate Change and Fisheries
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1. Climate change
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4. Climate changes in the interannual to multidecadal scales
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Melting of Polar Icecaps - Impact on Fisheries
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1. Introduction
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Melting of Polar Icecaps: Impact on Marine Biodiversity
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Stefanie Kaiser, Biozentrum Grindel & Zoological Museum, Martin-Luther-King-Platz, Hamburg, Germany

1. Introduction
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