

BOOK REVIEW

THE ESTIMATION OF FISH AND FISHERIES STOCKS, Ed. Dobrogea, ISBN 978-973-1839-47-9

Klaus Werner Battes

Keywords: *mathematical methods, models for the quantitative study of fish population*

INTRODUCTION

The book “The estimation of fish and fisheries stocks”, published by the publishing house Dobrogea during 2008 year is the result of researches accomplished in the grant “The conservation and durable management of fish resources” – “COMADUREP”, project financed by The Ministry of Education, Research and Youth, in the frame of Excellence Research – CEEX during 2005-2008. It is the result of cooperation of a group of specialists from the academic university field (University “Dunarea de Jos” from Galati and The University from Bacau) and from the research field (The National Research and Development Institute “Delta Dunarii” from Tulcea; The Marine National Research and Development Institute « Grigore Antipa » from Constanta and The National Research and Development Institute for Aquatic, Fishing and Aquaculture from Galati) under the leading of the program director dr. C.P.I. Ion Navodaru.

Book content

At global level the fishing resources from the continental waters are on the wane as an effect of habitat degradation and over fishing. This tendency is generated especially by the intensification of multiple utilization of interior water (irrigation, home and industrial consumption, the production of electric energy, etc) that increase the human effects over the integrity of aquatic ecosystems and of biodiversity. The fishery from Romania is perfectly fitting in the above mentioned situation.

In order to remedy this situation, for a durable exploitation of these resources in order to maintain the integrity of aquatic ecosystems and theirs biodiversity precise information over the actual stage of fisheries are required. The present paper aimed toward the elaboration of mathematical methods and models for the quantitative study of fish population with the help of specific parameters. The exact quantification of fish population represents the main instrument in the resources analyze and management for the elaboration of some strategies for the durable development in the scientific management of aquatic ecosystems and of biodiversity. The book is structured in two parts. In the first part the methods for the sampling and management offish population at global and national level are described, while in the second part different application are presented, applications utilized for the estimation of stock stage and durable capture for the fisheries from Black Sea, Danube and interior waters.

The paper updates the specific methodologies of investigations from global level, being the only paper of its kind that appeared in Romanian language until now. Due to the high scientific level, it can be successfully utilized in the fundamental research from aquatic ecology field for the study of native fish populations from interior waters in order to determine its stage affected by the multiple human aggressions. Taking in consideration the fact that the stages of fish populations characterize very well the general state of the aquatic ecosystems, the working methodology presented in this book represent an important working tool for the management of some durable development programs of these ecosystems.

AUTHOR’S ADDRESS

BATTES KLAUS WERNER - University of Bacau,
Faculty of Sciences, Department of Biology, Romania, e-mail:
klaus_battes@yahoo.com