

Marine Fisheries Ecosystem

Its quantitative evaluation
and management



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Fishing News Books Ltd
Farnham · Surrey · England

BIBLIOTECA
CENTRO NACIONAL PATAGONICO

№ 2068

21 JUN 2000

©Fishing News Books Ltd 1981

British Library CIP Data
Laevastu, Taivo
Marine fisheries ecosystem
1. Fishery management – Mathematical models
I. Title II. Larkins, Herbert A
333.95'6'17 SH334

ISBN 0 85238 116 6

Published by Fishing News Books Ltd
1 Long Garden Walk, Farnham, Surrey

Printed in Great Britain by
Page Bros (Norwich) Ltd, Norwich

Typesetting by Traditional Typesetters Ltd, Chesham

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It is now realised that single-species population dynamic models are no longer sufficient for fisheries management purposes and it is necessary for management to consider multi-species interactions as well as the impact on stocks caused by fishing. This book outlines a quantitative approach for the computerized evaluation of the marine fish ecosystem. Because knowledge of numbers in fish stocks is too limited the methods in this book shift to computations in terms of biomass.

The authors have based their text on experiences and results of ecosystem simulation in the Northwest and Alaska Fisheries Center in Seattle but its application is universal. They take a synthetic look at the total marine ecosystem, showing ways of utilizing all accumulated knowledge about it and how to apply this knowledge in the quantitative simulation of the ecosystem for the evaluation of fishery resources and their modern management.



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ISBN 0 85238 116 6