AQUACULTURE DEVELOPMENT IN SOUTHEAST ASIA AND JAPAN AND PROSPECTS FOR SEAFARMING AND SEARANCHING

Edited by

F. LACANILAO
R.M. COLOSO
G.F. QUINITIO

Sponsors:
Proceedings of the Seminar-Workshop on Aquaculture Development in Southeast Asia and Prospects for Seafarming and Searanching

19-23 August 1991
Iloilo City, Philippines

Edited by
F Lacanilao
RM Coloso
GF Quinitio

AQUACULTURE DEPARTMENT
SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
Tigbauan, Iloilo, Philippines
CONTENTS

Foreword iii

Review of SEAFDEC/AQD Research 1

Sea Bass, Groupers, and Snappers 3
MARIETTA N. DURAY

Milkfish, Rabbitfish, and Mullet 13
ARNIL C EMATA

Tilapia, Carp, and Catfish 24
ZUBAIDA U. BASIAO

Shrimps 32
FE D. PARADO-ESTEPA

Bivalves 40
WENRESTI G. GALLARDO

Seaweeds: Gracilaria 46
ANICIA Q. HURTADO-PONCE

Aquaculture Development in Southeast Asian and Japan, 1988-1991 51

Overview of Aquaculture Development in Southeast Asia 53
HERMINIO R. RABANAL

Biotechnological Researches at the Prefectural Fisheries Experimental Station in Japan 68
TEICHI KATO

Aquaculture Developments in the Philippines with Emphasis on Tilapias and Seaweeds 75
RAFAEL D. GUERRERO III
Aquaculture Development in Singapore 79
RENEE CHOU

Coastal Aquaculture in Thailand 84
S. TOOKWINAS, N SRICHANTULK, C. CHOONGAN

Prospects for Seafarming and Searanching in Southeast Asia 91

Overview of Seafarming and Searanching Technology in Japan 93
SATOSHI UMEZAWA

Seafarming and Searanching Development in the Philippines 105
MEDINA N. DELMENDO

Seafarming and Searanching in Singapore 115
RENEE CHOU

Seafarming and Searanching in Thailand 122
PANIT SUNGKASEM AND SIRI TOOKWINAS

Prospects of Seafarming through the Fisheries Sector Program (Philippines) 129
SIMEONA M. AYPA

Ecological, Social, and Economic Considerations of Seafarming and Searanching 143

Ecological Impacts of Seafarming and Searanching 145
JOHN L. MUNRO

Economic and Social Considerations in Seafarming and Searanching 152
KEE-CHAI CHONG