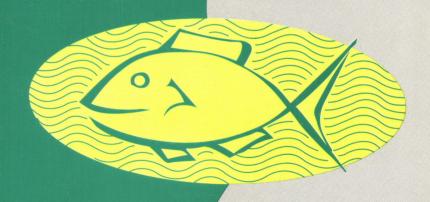
ISSN, 0853 - 8980

# INDONESIAN FISHERIES RESEARCH JOURNAL



RESEARCH CENTER FOR AQUACULTURE

AGENCY FOR MARINE AND FISHERIES RESEARCH MINISTRY OF MARINE AFFAIR AND FISHERIES

VOL. 7 NO. 1, 2001

### INDONESIAN FISHERIES RESEARCH JOURNAL

### **Editorial Board:**

Dr. Akhmad Rukyani Dr. Johanes Widodo Dr. Achmad Poernomo Dr. Suparno Dr. Linawati Hardjito

### Referees for this volume:

Dr. Nick Willoughby (Natural Resources Institute, U.K.)
Dr. Douglas R. Stoltz (Center for Agricultural Library and Research Communication, Indonesia)

### Managing Editors:

Murniyati Novenny A. Wahyudi Eni Kusrini

### Published by:

Research Center for Aquaculture

### Manuscript may be sent to the publisher:

Indonesian Fisheries Research Journal Research Center for Aquaculture Jalan K.S. Tubun - Petamburan VI Jakarta 10260 Indonesia

Phone: (021) 5709160; 5709162; 5749476 Fax.: (021) 5709159, 5749475 e-mail: crifidir@indosat.net.id

# INDONESIAN FISHERIES RESEARCH JOURNAL



## RESEARCH CENTER FOR AQUACULTURE

AGENCY FOR MARINE AND FISHERIES RESEARCH MINISTRY OF MARINE AFFAIR AND FISHERIES

VOL. 7 NO. 1, 2001

### **PREFACE**

Indonesian Fisheries Research Journal (IFRJ) is the English Edition of research journal published by Research Center for Aquaculture. Published once a year, the journal is meant as an effort to expand communication network between scientists in other countries.

The Indonesian Fisheries Research Journal Volume 7 Number 1 presents six main articles and one short communication article. The journal may cover a wide range of disciplines related to fisheries resources and capture, aquaculture technology, and fisheries economics.

The roles of referee in improving the quality of the Journal are appreciated. Particularly, Dr. Douglas R. Stoltz and Dr. Nick Willoughby, who have been made significant contribution in the refinement of the English of some manuscripts.

Research Center for Aquaculture Director,

Dr. Ketut Sugama

## CONTENTS

PREFACE	į
CONTENTS	iii
Enhance Production of Black Tiger Shrimp <i>Penaeus monodon</i> Postlarvae by Probiotic Bacterium <i>Alteromonas</i> sp.	
By: Haryanti, Ketut Sugama, Seiichi Tsumura, and Toshitaka Nishijima	1
The Use of Mangrove Stands for Shrimp Pond Waste-Water Treatment  By: Taufik Ahmad, Mohammad Tjaronge, and Fuad Cholik	7
Chlorine Demand and Bacterial Abundance of Shrimp Pond Water under Different Suspended Solid Concentrations  By: Husnah	16
Spatial Dynamics of Pelagic Fish Aggregation in the Java Sea Based on Hydro-Acoustics  By: Bambang Sadhotomo	25
Species Composition and Diversity of Tidal Trap Net Catches in the Waters of Indragiri Hilir, Riau, Indonesia	
By: Badrudin, Bambang Sumiono, and T.S. Murtoyo	47
Bio-Economic Approach on Assessing Management Options for the Fishery: the case of open water fishery of South Sumatra, Indonesia	
By: Sonny Koeshendrajana and Oscar Cacho	54
SHORT COMMUNICATION	
Capability of Mitochondria DNA D-loop Markers for Shark Species Identification	62