

# SEAFDEC

## Information Catalogue



Southeast Asian Fisheries Development Center



# About SEAFDEC

SEAFDEC is an autonomous intergovernmental body established as a regional treaty organization in 1967 to promote sustainable fisheries development in Southeast Asia. SEAFDEC currently comprises 11 Member Countries: Brunei Darussalam, Cambodia, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam.

## Vision

Sustainable management and development of fisheries and aquaculture to contribute to food security, poverty alleviation and livelihood of people in the Southeast Asian region

## Mission

To promote and facilitate concerted actions among the Member Countries to ensure the sustainability of fisheries and aquaculture in Southeast Asia through:

1. Research and development in fisheries, aquaculture, post harvest, processing, marketing of fish and fishery products, socio-economics, and the ecosystem to provide reliable scientific data and information;
2. Formulation and provision of policy guidelines based on the available scientific data and information, local knowledge, regional consultations and prevailing international measures;
3. Technology transfer and capacity building to enhance the capacity of Member Countries in the application of technologies, and implementation of fisheries policies and management tools for the sustainable utilization of fishery resources and aquaculture; and
4. Monitoring and evaluation of the implementation of the regional fisheries policies and management frameworks adopted under the ASEAN-SEAFDEC collaborative mechanism, and the emerging international fisheries-related issues including their impacts on fisheries, food security and socio-economics of the region.

Since its establishment, SEAFDEC has published a wide range of technical and promotional materials, and provided information services for its Member/Non-member Countries and interested users. This Information Catalogue contains the recent publications and other information materials published by SEAFDEC Secretariat and Departments up to early 2022, in order to support the implementation of activities and initiatives toward sustainable fisheries development both within and outside the region, and enhance the public accessibility to SEAFDEC materials.

# CONTENTS

<b>Annual Reports/Highlights</b>	4
<b>Annual Meeting Reports</b>	4
<b>Newsletters/Magazines</b>	5
<b>Regional Policy Frameworks and Guidelines</b>	6
<b>Fishery Statistics and Information</b>	10
<b>Fishery Resources</b>	12
• Fish Larvae	
• Pelagic Fishery Resources	
• Marine Fishes and Crustaceans	
• Inland Fishery Resources	
• Anguillid Eels	
• Marine Turtles	
• Sharks and Rays	
• Tuna and Tuna-like Species	
• Economically Important Species as Surimi Raw Materials	
• Resource Enhancement	
• Resource Survey	
<b>Fisheries Management</b>	28
• Small-scale Fisheries Management	
• Enhancing Community Resilience	
• Indicators for Fisheries Management	
• Management of Fishing Capacity and Combating IUU Fishing	
• Sub-regional Fisheries Management	
• Management of Purse Seine Fisheries	
<b>Fishing Technologies and Practices</b>	40
• Fishing Gear and Methods	
• Selective Fishing Devices	
<b>Fish Handling and Post-harvest Practices</b>	43
• Fish Handling, Preservation and Utilization	
• Enhancing Quality and Safety of Fish Products	
• Promotion of “One Village, One Fisheries Product (FOVOP)”	
<b>Cross-cutting Issues</b>	48
• Gender in the Fisheries Sector	
• Other Cross-cutting Issues	
<b>Aquaculture</b>	51

# How to obtain?

This Information Catalogue could be used as a brief guide to search for publications/materials of your interest. More detailed information could be directly obtained from the respective SEAFDEC Departments. For materials that are not available online, please contact the SEAFDEC Secretariat or Departments.

Most of the materials including other relevant publications are available for download at SEAFDEC Institutional Repositories.



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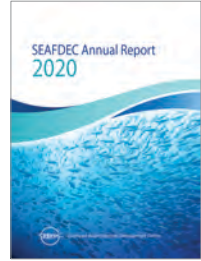


## Annual Reports/Highlights

### SEAFDEC Annual Report

The Report publishes the progress of activities and major achievements of SEAFDEC during the year, as well as tentative plan of activities for the following years.

By *SEAFDEC Secretariat*



### SEAFDEC/AQD Highlights

Publication on AQD's accomplishments during the year

By *SEAFDEC/AQD*



### SEAFDEC/MFRD Annual Highlights

Publication on the major activities and achievements of MFRD during the year

By *SEAFDEC/MFRD*



## Annual Meeting Reports

- **Report of the Fifty-third Meeting of the Council of SEAFDEC** (27-28 April and 11 May 2021, Virtual Meeting)
- **Report of the Forty-fourth Meeting of the Program Committee of SEAFDEC** (15-17 November 2021, Virtual Meeting)
- **Report of the Twenty-fourth Meeting of the ASEAN-SEAFDEC Fisheries Consultative Group (FCG) of the ASEAN-SEAFDEC Strategic Partnership (ASSP)** (24-25 November 2021, Virtual Meeting)

All by *SEAFDEC Secretariat*





## Newsletters/Magazines

### SEAFDEC Newsletter

Newsletter published quarterly to promote activities and achievements of SEAFDEC Secretariat and Departments  
By SEAFDEC Secretariat



### AQD Matters

Monthly newsletter carrying news and updates of AQD's activities  
By SEAFDEC/AQD



### Special Publication "Fish for the People"

"Fish for the People" is published three times a year to promote the initiatives and activities in line with the issues identified in the "Resolution" and "Plan of Action" adopted at the "ASEAN-SEAFDEC Conference held in 2001, the sequel Conference held in 2011, as well as the recent "Resolution and Plan of Action Towards 2030" adopted in 2021.

By SEAFDEC Secretariat



Volume 19 Number 1



Volume 19 Number 2



Volume 19 Number 3





## Regional Policy Frameworks and Guidelines

### Resolution and Plan of Action on Sustainable Fisheries for Food Security for the ASEAN Region Towards 2030

The Resolution and Plan of Action on Sustainable Fisheries for Food Security for the ASEAN Region Towards 2030 should serve as policy framework and priority actions for AMSs in developing and implementing programs, projects, and activities in support of the implementation of the Resolution on Sustainable Fisheries for Food Security for the ASEAN Region Towards 2030.

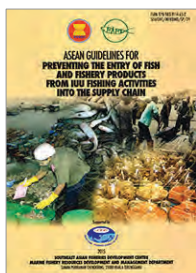
By *SEAFDEC Secretariat*



### ASEAN Guidelines for Preventing the Entry of Fish and Fishery Products From IUU Fishing Activities into the Supply Chain

The goal of the Guidelines is to enhance the credibility of the region's fish and fishery products through the promotion of good fisheries governance with the active participation of all stakeholders in decision-making processes and assuming the responsibilities for sustainable use fishery resources, and an appropriate catch documentation scheme in place.

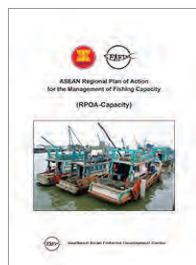
By *SEAFDEC/MFRDMD*



### ASEAN Regional Plan of Action for the Management of Fishing Capacity

The publication contains four parts: 1) introduction on the sustainable fisheries management and the needs for RPOA-Capacity; 2) goals and objectives; 3) guiding principles in developing the RPOA-Capacity; and 4) Plan of Action. The RPOA-Capacity has been developed through the dialogues with ASEAN-SEAFDEC Member Countries such as the regional technical consultations and expert meetings.

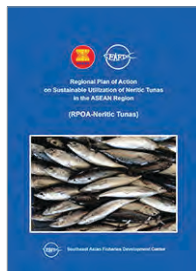
By *SEAFDEC Secretariat*



### Regional Plan of Action on Sustainable Utilization of Neritic Tunas in the ASEAN Region

Several issues and action plans regarding sustainable utilization of neritic tunas in the ASEAN region are outlined to achieve objectives of: 1) determining available data and information, improving data collection and developing key indicators; 2) improving sustainable fisheries management; 3) improving sustainable interaction between fisheries and marine ecosystem; 4) improving compliance to rules and regulations and access to markets; 5) addressing social issues; and 6) Enhancing regional cooperation.

By *SEAFDEC Secretariat*





### Regional Action Plan for Management of Transboundary Species: Indo-Pacific Mackerel in the Gulf of Thailand Sub-region

This document summarizes the issues, knowledge gaps, challenges, and required actions for sustainable utilization of Indo-Pacific mackerel in the Gulf of Thailand sub-region.

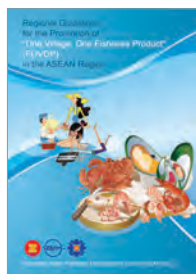
By *SEAFDEC Secretariat*



### Regional Guidelines for the Promotion of “One Village, One Fisheries Product” (FOVOP) in the ASEAN Region

This Guidelines is envisaged to provide better understanding for government agencies on the promotion of “One Village, One Fisheries Product” or FOVOP, as well as in the formulation of relevant policies to support the implementation of FOVOP and improve the livelihoods of fishers in the fishing communities.

By *SEAFDEC Secretariat*



### Regional Technical Guidelines on Cold Chain Management of Fish and Fishery Products in ASEAN Region

This Guidelines was to create a platform for the ASEAN region to share knowledge, experiences, and cost-effective technologies on the cold chain management of seafood, and to develop a set of guidelines for cold chain management of fish and fishery products to serve as a benchmark for ASEAN Member Countries when developing their own national guidelines.

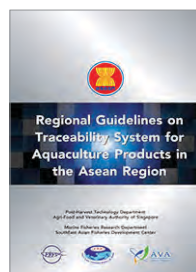
By *SEAFDEC/MFRD*



### Regional Guidelines on Traceability System for Aquaculture Products in the Asean Region

The Guidelines covers a series of introductory review of the importance of traceability in the aquaculture supply chain as well as the fundamental principles behind traceability that link to the adoption of traceability systems in aquaculture supply chain in the context of the ASEAN region. A generic supply chain of aquaculture products is also included. It highlights points where traceability information is critical as well as the responsibilities of individual stakeholder to ensure that traceability along the supply chain is not broken.

By *SEAFDEC/MFRD*



## Regional Technical Guidelines on Early Warning System for Aquatic Animal Health Emergencies

This Guidelines was developed to enumerate the actions to be undertaken by the AMS in case of the occurrence of known, unknown, existing, emerging or re-emerging disease(s). The guidelines identified the key players in aquatic emergency preparedness and response system including their roles and responsibilities. Actions to be undertaken during any disease emergencies were also described.

By *SEAFDEC/AQD*



## Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulate Fishing (in Thai)

A Translation of FAO Publication "Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing."

By *SEAFDEC Secretariat*



The set of outputs from the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security Towards 2020 "Fish for the People 2020: Adaptation to a Changing Environment" organized on 13-17 June 2011:

- Proceedings of the ASEAN-SEAFDEC Conference, Volume I: The Conference Proceedings
- Proceedings of the ASEAN-SEAFDEC Conference, Volume II: Thematic Panel Sessions



## Proceedings of the High-level Consultation on Regional Cooperation in Sustainable Fisheries Development Towards the ASEAN Economic Community: Combating IUU Fishing and Enhancing the Competitiveness of ASEAN Fish and Fishery Products

(3 August 2016, Bangkok, Thailand)

The Joint ASEAN-SEAFDEC declaration of the senior officials of ASEAN-SEAFDEC Member Countries on regional cooperation for combating IUU Fishing and enhancing the competitiveness of ASEAN fish and fishery products and summary of the Consultation are highlighted in this publication.

By *SEAFDEC Secretariat*



The set of Regional Guidelines for Responsible Fisheries in Southeast Asia:

- **Regional Guidelines for Responsible Fishing Operations in Southeast Asia**  
By SEAFDEC/TD
- **Regional Guidelines for Responsible Aquaculture in Southeast Asia**  
By SEAFDEC/AQD
- **Regional Guidelines for Responsible Fisheries Management in Southeast Asia**  
By SEAFDEC/MFRDMD and TD
- **Regional Guidelines for Responsible Post-harvest Practices and Trade in Southeast Asia**  
By SEAFDEC/MFRD and Secretariat

The set of four Regional Guidelines was developed through a series of regional consultations to elaborate issues contained in the globally adopted Code of Conduct for Responsible Fisheries to support the implementation by the Southeast Asian countries.



### Supplementary Guidelines on Co-Management Using Group User Rights, Fishery Statistics, Indicators and Fisheries Refugia

This 84-page Supplementary Guidelines further elaborates issues contained in the *Regional Guidelines for Responsible Fisheries Management*, i.e. Co-Management Using Group User Rights, Fishery Statistics, Indicators and Fisheries Refugia. The Guidelines is envisaged to assist the Southeast Asian countries in developing the most practical national system to improve their respective fisheries management towards responsible and sustainable fisheries.

By SEAFDEC Secretariat





## Fishery Statistics and Information

### Fishery Statistical Bulletin of Southeast Asia

Annual compilation of fishery statistics (fishery production, marine fisheries, inland fisheries, aquaculture, price of fresh fish, and fishers) from Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Viet Nam. The Fishery Statistical Bulletin of Southeast Asia has been published for fishery statistics of 2008 onwards, while the statistics from 1978 to 2007 were compiled and published as “ Fishery Statistical Bulletin for the South China Sea Area.”

By *SEAFDEC Secretariat*



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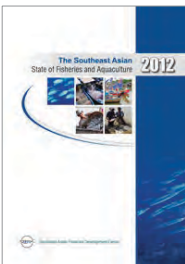
### The Southeast Asian State of Fisheries and Aquaculture 2012

### The Southeast Asian State of Fisheries and Aquaculture 2017

### The Southeast Asian State of Fisheries and Aquaculture 2022

The publication provides information on the status and trends of fisheries and aquaculture of the region based on statistics and information available in the region. In addition, also included in the publication are selected fisheries-related issues/challenges and the outlook of fisheries and aquaculture, in order to raise awareness/preparedness and enhance the capacity of countries in the region in response to the issues.

By *SEAFDEC Secretariat*



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### Note of Completion for the Fishery Statistical Bulletin of Southeast Asia

The 47-page publication provides necessary instruction to enable fishery statisticians of the Southeast Asian countries to complete the questionnaire for submission of their respective national fishery statistics to SEAFDEC for further compilation in the Fishery Statistical Bulletin of Southeast Asia.

By *SEAFDEC Secretariat*

## Handbook on Collecting Fishery Statistics for Inland and Coastal Fisheries

The 165-page document provides building blocks for setting up of statistical data collection system by providing elements for basic statistical training, sample survey design, and selection of methodologies to obtain the required statistics.

By *SEAFDEC Secretariat*



## Regional Framework for Fishery Statistics of Southeast Asia

The regional framework was developed through consultation process between SEAFDEC and the Southeast Asian countries as harmonized framework for compilation of regional fishery statistics from 2008 onwards. The framework also serves as a minimum requirement for countries in collection of fishery statistics to support policy, planning and management of fisheries.

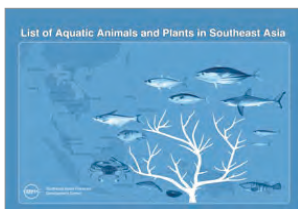
By *SEAFDEC Secretariat*



## List of Aquatic Animals and Plants in Southeast Asia

The 86-page publication aims at facilitating the collection and submission of fishery statistics by species from the countries for compilation into the regional fishery statistics bulletin.

By *SEAFDEC Secretariat*



## Improvement of Fishery Data and Information Collection Systems in Southeast Asia: the Proceedings of the FAO/SEAFDEC Regional Workshop on the Improvement of Fishery Data and Information Collection Systems

(Bali, Indonesia, 15-18 February 2005)

- Volume 1: Report of the Workshop (38 pages)
- Volume 2: Regional Synthesis and Country Papers (174 pages)

By *SEAFDEC Secretariat*





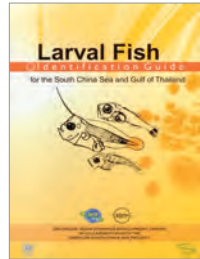
## Fishery Resources

### Fish Larvae

#### Larval Fish Identification Guide for the South China Sea and Gulf of Thailand

The 21-page identification guide was prepared for a regional training workshop on Larval Fish Identification and Fish Early Life History Science (16-31 May 2007). The step-by-step laboratory procedure in sorting and identification of fish larvae is described.

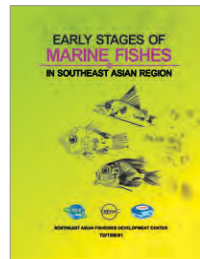
By SEAFDEC/TD



#### Early Stages of Marine Fishes in Southeast Asian Region

The monograph was published as the output of the Regional Training Workshop on Larval Fish Identification and Fish Early Life History Science in 2007 and 2008. The monograph describes the body parts of the larvae, counted fin rays and myomeres, and illustration of larvae.

By SEAFDEC/TD



#### Laboratory Guide for Some Families of Fish Larvae from the South China Sea

The 44-page publication was prepared based on the selected families of fish larvae collected during the oceanographic surveys in the South China Sea. Although this guide is not the final work on the taxonomy of fish larvae as there are many more species that remain to be documented, it is envisaged that the book is a starting point to carry out more works of similar nature in the future.

By SEAFDEC/MFRDMD



### Pelagic Fishery Resources

#### Tagging Program for Economically Important Small Pelagic Species in the South China Sea and the Andaman Sea: Regional project Terminal Report

The report was prepared under the tagging project implement in 2007-2012 to inform Member Countries of the status of pelagic fisheries in Southeast Asian waters as well as revealing the population structure of the selected species.

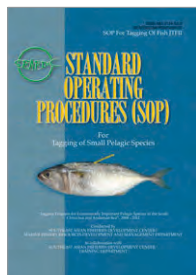
By SEAFDEC/MFRDMD



## Standard Operating Procedures for Tagging of Small Pelagic Species

This SOP serves as a guideline and main reference for those involved in tagging of small pelagic fishes at tagging sites. The main objectives of this SOP are to standardized sampling procedure and ensure that the same methods and procedures are applied to enhance survival of tagged fish during and after tagging operation.

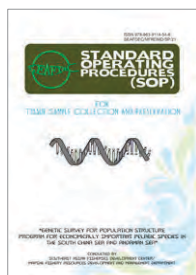
By SEAFDEC/MFRDMD



## Standard Operating Procedures for Tissue Sample Collection and Preservation

A 21-page guideline serves as main reference for those involved in tissue sample collection in the field at sampling/landing sites, and tissue preservation either in the field or at the laboratory.

By SEAFDEC/MFRDMD



## Report of the First Core Expert Meeting on Fisheries Management Strategies for Pelagic Fish Resources in the Southeast Asian Region

(24 November 2020, Kuala Terengganu, Malaysia)

The report summarized results from the Meeting which was aimed at sharing the findings and outputs of the previous project on pelagic fishery resources undertaken by MFRDMD, introducing the new Project to be undertaken in 2020-2024, and obtaining the views of the participants on the activities and way forward for the new Project.

By SEAFDEC/MFRDMD



## Marine Fishes and Crustaceans

### Field Guide to Fishes and Crustaceans of the Southeast Asian Region

This Field Guide is useful for the identification of marine fishes and crustaceans found in the Southeast Asian region. It includes enhanced color photographs and morphological description for each species.

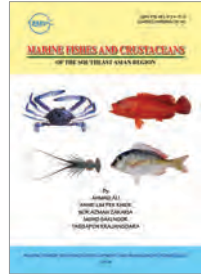
By SEAFDEC/MFRDMD



## Marine Fishes and Crustaceans of the Southeast Asian Region

This publication contains the guide to identification of 578 species of bony fishes and 29 species of crustaceans found in Southeast Asia.

By *SEAFDEC/MFRDMD*



## Report on the Project: Enhancement of Sustainable Management of the Blue Swimming Crab Fisheries in Kep Province, Cambodia

The report includes the results of the socioeconomic and gender and catch statistics surveys as well as hatchery propagation and management of blue swimming crab resources.

By *SEAFDEC/TD*

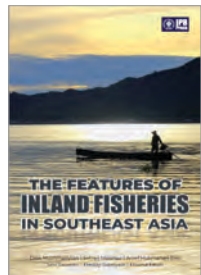


## Inland Fishery Resources

### The Features of Inland Fisheries in Southeast Asia

This book provided useful information in sustainable development of the Southeast Asia region's inland fisheries and what to expect in the future.

By *SEAFDEC/IFRDMD*

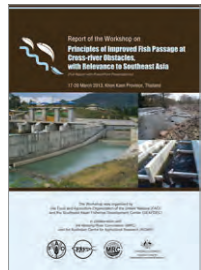


## Report of the Workshop on Principles of Improved Fish Passage at Cross-river Obstacles, with Relevance to Southeast Asia

(17-20 March 2013, Khon Kaen Province, Thailand)

The report summarizes the outputs from the Workshop, which include country reports on fish passages in the respective Southeast Asian countries, and considerations for enhancing the effectiveness of fish passages in the region.

By *SEAFDEC Secretariat*



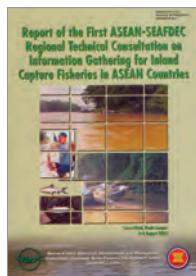


## Report of the First ASEAN-SEAFDEC Regional Technical Consultation on Information Gathering for Inland Capture Fisheries in ASEAN Countries

(4-6 August 2003, Kuala Lumpur, Malaysia)

The 183-page report summarizes outputs from the Consultation: the status of information on inland capture fisheries in the ASEAN countries; the strategies to strengthen future collection and compilation of information to support planning and management of inland fishery resources; and the project activities to be implemented.

By SEAFDEC/MFRDMD



## Other Reports on Inland Fishery Resources

(by SEAFDEC Secretariat and SEAFDEC/IFRDMD)

- [Report of the Expert Workshop on Fishway Design Principles to Enhance the Sustainability of Inland Fishery in the Southeast Asian Region](#) (6-10 March 2016, Thailand and Lao PDR)
- [Report of the 1<sup>st</sup> Workshop on Enhancement of Sustainability of Catadromous Eel Resources in Southeast Asia](#) (27-29 April 2016, Palembang, Indonesia)
- [Report of the Workshop to Review Activities and Methodologies for Promotion on Inland Fisheries](#) (8-10 August 2016, Palembang, Indonesia)

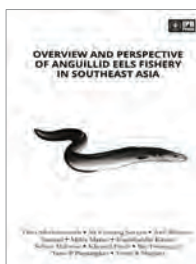
*For more reports, please contact the relevant SEAFDEC Department.*

## Anguillid Eels

### Overview and Perspective of Anguillid Eels Fishery in Southeast Asia

The book provided information on Anguillid eels fishery resources both captured and cultured in Southeast Asian countries.

By SEAFDEC/IFRDMD



### Report on Enhancing Sustainable Utilization and Management Scheme of Tropical Anguillid Eel Resources in Southeast Asia

The book contained the result of the Project "Enhancing Sustainable Utilization and Management Scheme of Tropical Anguillid Eel Resources in Southeast Asia" implemented during 2017-2019 with the aim to strengthen the scheme in which ASEAN Member States manage tropical Anguillid eels resources for sustainable use.

By SEAFDEC Secretariat



## Marine Turtles

### Conservation and Enhancement of Sea Turtles in the Southeast Asian Region

The publication describes measures undertaken by countries in the Southeast Asian region to conserve and enhance sea turtles resources. These include laws and enforcement, establishment of sea turtle sanctuaries and hatcheries, tagging and satellite tracking, education and public awareness programs, as well as various fields of research activities.

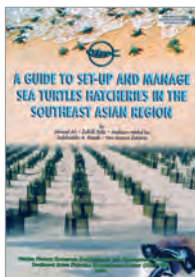
By SEAFDEC/MFRDMD



### A Guide to Set-up and Manage Sea Turtles Hatcheries in the Southeast Asian Region

The book publishes knowledge and experiences gained through the studies on sea turtle hatcheries, particularly those conducted in Malaysia, and information accumulated from researchers both within and outside the region on the set-up and management of sea turtle hatcheries.

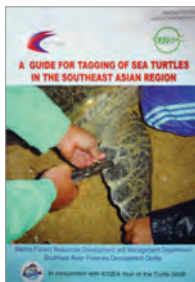
By SEAFDEC/MFRDMD



### A Guide for Tagging of Sea Turtles in the Southeast Asian Region

The guide aims to assist sea turtle researchers and workers in the Southeast Asian region to standardize their turtle tagging activities. Researchers, managers and field staff will find the book a useful reference for tagging and data collection, as the process is clearly written and step-by-step photos are used to illustrate each activity.

By SEAFDEC/MFRDMD



### Master Plan on Cloning of Sea Turtles

The book describes the establishment of advanced reproductive biotechnology and captive breeding center for the sustainable management and breeding of sea turtles.

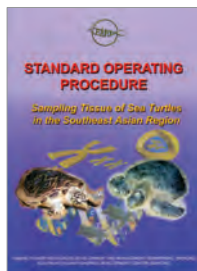
By SEAFDEC/MFRDMD



## Standard Operating Procedure on Sampling Tissues of Sea Turtles in the Southeast Asian Region

The 12-page book describes the method of sampling the tissue of Green Turtles (*Chelonia mydas*) and Hawksbill Turtles (*Eretmochelys imbricata*) during their nesting activities in selected sampling sites in the Southeast Asian countries.

By SEAFDEC/MFRDMD



## The Pawikan Album: The Sea Turtles Captured around Panay and Guimaras Island, Philippines

The 83-page publication is a record of 93 sea turtles captured from around SEAFDEC/AQD. The publication could serve as a useful reference for turtle biologists, marine scientists, conservationists, and resource managers, as well as general public, as it contains information on the interaction of sea turtle with fishing gears and people and how FishWorld of AQD worked with fishers and government to save and conserve sea turtles.

By SEAFDEC/AQD



## Sharks and Rays

### Identification Guide to Sharks Rays and Skates of the Southeast Asian Region

The 33-page guide aims to facilitate identification of 56 species of sharks, 62 species of rays, and six species of skates found abundant in the Southeast Asian region, using color photographs with arrows specifying main identifying characters.

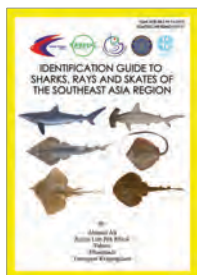
By SEAFDEC/MFRDMD



### Identification Guide to Sharks, Rays and Skates of the Southeast Asia Region. Second edition

This Guide includes high quality color photographs of each species and the waterproof print format is useful and handy for enumerators to identify sharks, rays, and skates at landing sites.

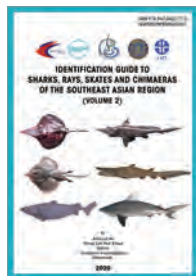
By SEAFDEC/MFRDMD



## Identification Guide to Sharks, Rays, Skates and Chimaeras of the Southeast Asian Region (Volume 2)

This Guide is an outcome of the one-year comprehensive data collection from the Southeast Asian countries. It is useful in identifying sharks, rays, skates, and chimaeras to genus or species level.

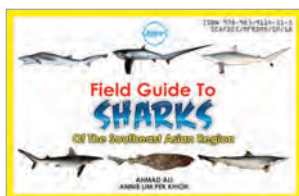
By SEAFDEC/MFRDMD



## Field Guide to Sharks of the Southeast Asian Region

This 210-page field guide aims to facilitate the identification and classification of 69 shark species commonly caught in the Southeast Asian region. The guide is also available in Cambodian and Vietnamese languages.

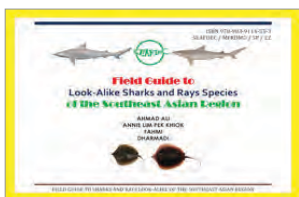
By SEAFDEC/MFRDMD



## Field Guide to Look-Alike Sharks and Rays Species of the Southeast Asian Region

The 120-page guide provides a simple user-friendly brief description on similarities and distinctive characteristics of 15 pairs of sharks, 20 pairs of rays and two pair of skates look-alike species.

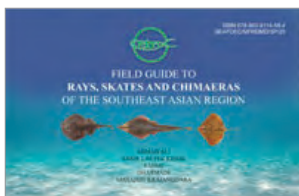
By SEAFDEC/MFRDMD



## Field Guide to Rays, Skates and Chimaeras of the Southeast Asian Region

The publication provides a field guide of 97 species of rays (14 families) and one species of chimaera (one family) found in abundance in the Southeast Asian region. The book is also available in Cambodian and Vietnamese languages.

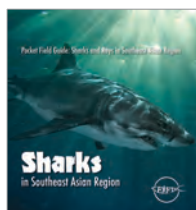
By SEAFDEC/MFRDMD



## Pocket Field Guide: Sharks and Rays in Southeast Asian Region - Sharks

The pocket field guide provides illustrations with brief descriptions to facilitate the identification of shark species in Southeast Asian region.

By SEAFDEC/Secretariat



### Pocket Field Guide: Sharks and Rays in Southeast Asian Region - Rays

The pocket field guide provides illustrator with brief descriptions to facilitates identification of ray species in Southeast Asian region.

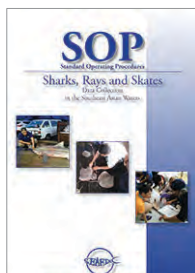
By *SEAFDEC/Secretariat*



### Standard Operating Procedures for Sharks, Rays and Skates Data Collection in the Southeast Asian Water

The SOP serve as guideline sampling methods for data collection and identifying sharks, rays, and skates at species level to ensure that data recording, analysis, compilation, and reporting are standardized among enumerators in the Southeast Asian region.

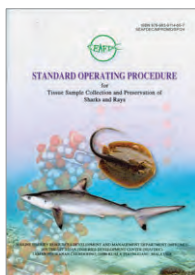
By *SEAFDEC/MFRDMD*



### Standard Operating Procedure for Tissue Sample Collection and Preservation of Sharks and Rays

The publication describes procedures for collection and preservation of tissue samples from shark and ray specimens for further genetic identification.

By *SEAFDEC/MFRDMD*



### Report on the Study on Shark Production, Utilization and Management in the ASEAN Region 2003-2004

The publication summarizes the outputs from the one-year study on shark catch, local use and trade; progress of the development of NPOAs-Sharks in the region; trade in shark products in Malaysia, Singapore and Thailand; and microscopic observation on dermal denticles of shark fins.

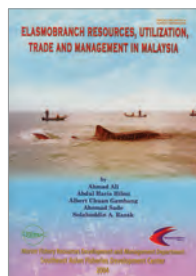
By *SEAFDEC Secretariat*



## Elasmobranch Resources, Utilization, Trade and Management in Malaysia

This 46-page book contains outputs from the study on elasmobranch resources, utilization, trade and management, undertaken by SEAFDEC/MFRDMD in Malaysia from July 2003 to August 2004.

By SEAFDEC/MFRDMD



## Implementation of the National Plan of Action for Conservation and Management of Shark Resources in Malaysia

This book presents the data on sharks and rays landings in Perak, Malaysia in 2013. Thirteen species of sharks and 17 species of rays were identified. Information on biology (size at maturity), abundance, dominance, market price, distribution, and postharvest utilization were reported. All sharks and rays were landed whole, fully utilized with no finning activities onboard the vessels.

By SEAFDEC/MFRDMD



## Marketing of Sharks and Rays in Sabah and International Trade of Malaysia's Sharks and Rays

This document presents the findings of the study of the utilization, marketing, and trade of sharks and rays in Malaysia.

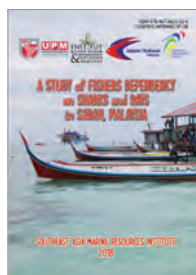
By SEAFDEC/MFRDMD



## A Study of Fishes Dependency on Sharks and Rays in Sabah, Malaysia

The study revealed the socioeconomic status of fishers in Sabah, Malaysia and their perceptions on the rules and regulations on catching sharks and rays.

By SEAFDEC/MFRDMD



### Marketing and Trade of Sharks and Rays in Java and Sumatera Indonesia

The results of this study would be useful for the development of appropriate fisheries management policies and actions for sharks and rays resources.

By SEAFDEC/MFRDMD



### Technical Report of Marketing and Trade of Sharks and Rays in Kalimantan, Indonesia

Indonesia is known as the top producer of sharks and rays in the world. This study covered the fishing practices and domestic and international marketing and trade in Kalimantan.

By SEAFDEC/MFRDMD



### A Study of Domestic Marketing Channel on Sharks and Rays in Selected Districts of Sarawak, Malaysia

Sarawak is the major producer of sharks and rays in Malaysia. The study found that the supply chain of sharks and rays in Sarawak includes fishers, wholesalers, fish collectors, fishmongers or retailers, and consumers.

By SEAFDEC/MFRDMD



### Data Collection on Sharks and Rays by Species in Malaysia (August 2016–July 2017)

This terminal report is the output of the activities on enhancing human resources for elasmobranch taxonomy and improving the landing data collection on sharks and rays.

By SEAFDEC/MFRDMD



### Terminal Report Data Collection on Sharks and Rays by Species in Tawau, Sabah (Phase 1)

This terminal report is the output of the activities on enhancing human resources for elasmobranch taxonomy and improving the landing data collection on sharks and rays.

By SEAFDEC/MFRDMD



### Data Collection on Sharks and Rays by Species in Malaysia (Terminal Report)

This terminal report is the output of the activities on enhancing human resources for elasmobranch taxonomy and improving the landing data collection on sharks and rays.

By SEAFDEC/MFRDMD



### Terminal Report: Regional Sharks, Rays and Skates Data Collection

The data were collected from 13 landing sites in six countries, namely: Cambodia, Indonesia, Malaysia, Myanmar, Thailand, and Viet Nam. The results of the study would serve as basis for future stock assessment of sharks and rays in the Southeast Asian region.

By SEAFDEC/MFRDMD



### The First Core Expert Meeting on Research for Enhancement of Sustainable Utilization and Management of Sharks and Rays in the Southeast Asian Region

(25 November 2020, Kuala Terengganu, Malaysia)

The report summarized results from the Meeting which was aimed at introducing the new activities under the new Project to be undertaken in 2020-2024, and reporting the achievement of the activities carried out by MFRDMD under the previous project on sharks and rays in 2015-2019, updates on current global acts, conservation and management of sharks and rays and the way forward.

By SEAFDEC/MFRDMD





## Tuna and Tuna-like Species

### Standard Operating Procedures (SOPs) for Assessing the Status of Tuna Resources in Region or Sub-region Waters in Southeast Asia

The SOP is aimed to strengthen collaborative research among countries surrounding the Sulu-Sulawesi sea through the conduct of study on different FADs used in the Sulu-Sulawesi Sea.

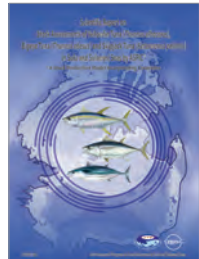
By SEAFDEC/TD



### Scientific Report on Stock Assessments of Yellowfin Tuna (*Thunnus albacares*), Bigeye Tuna (*Thunnus obesus*) and Skipjack Tuna (*Katsuwonus pelamis*) in Sulu and Sulawesi Seas by ASPIC

The Report contained the result of stock assessments of tuna in Sulu and Sulawesi Seas by SEAFDEC in 2015 using a Stock Production Model Incorporating Covariates (ASPIC).

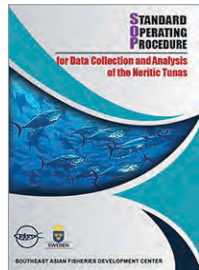
By SEAFDEC/TD



### Standard Operating Procedure for Data Collection and Analysis for the Neritic Tunas

The SOP includes the standardized items for data collection (*i.e.*, study area, countries involved in the project, sampling location, species to be studied for stock assessment, identification of target species, major fishing gears, data collectors, and duty of enumerators), data collection and analysis (*i.e.* fishing operation and catch, and biological data), and data submission and compilation.

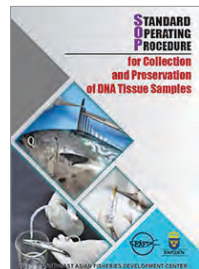
By SEAFDEC/MFRDMD



### Standard Operating Procedure for Collection and Preservation of DNA Tissue Samples

The SOP is aimed to ensure that all sampled tissues of tuna species are well prepared and preserved to obtain high quality DNA. High quality DNA is required to come up with reliable and comparable data for stock and population identification in the Southeast Asian region.

By SEAFDEC/MFRDMD



## Stock and Risk Assessment of Kawakawa (*Euthynnus affinis*) and Longtail Tuna (*Thunnus tonggol*) Resources in the Southeast Asia

The publication describes the results from stock and risk assessment undertaken by SEAFDEC in 2016 for two neritic tuna species, namely Kawakawa (*E. affinis*) and longtail tuna (*T. tonggol*), in the Southeast Asian region.

By SEAFDEC Secretariat



## Stock and Risk Assessment of Kawakawa (*Euthynnus affinis*) and Longtail Tuna (*Thunnus tonggol*) Resources (1950-2018) in the Southeast Asia Water Using ASPIC

(10-15 February 2020, Thailand)

This publication concludes results from the stock and risk assessments based on ASPIC for two neritic tuna species (*T. tonggol* and *E. affinis*) in the South China Sea and the Andaman Sea. These results also had been compared with the results from previous stock assessments and risk assessments practical workshop in April 2016.

By SEAFDEC/MFRDMD



## Report of the Sixth Meeting of Scientific Working Group on Neritic Tuna Stock Assessment in the Southeast Asian Waters

(2 December 2020, Kuala Terengganu, Malaysia)

The 30-page report summarizes results from the Meeting which discussed the revised TOR of the SWG Neritic Tunas, results from the latest stock and risk assessment, genetic study of kawakawa (*Euthynnus affinis*) and longtail tuna (*Thunnus tonggol*) in the Southeast Asian waters, and future work plan of activities.

By SEAFDEC/MFRDMD



## Other Reports on Tuna and Tuna-like Species

(by SEAFDEC Secretariat and MFRDMD)

- [Report of the Second Meeting of the Scientific Working Group on Neritic Tuna Stock Assessment in the Southeast Asian Waters](#) (15-17 June 2015, Hai Phong, Viet Nam)
- [Report of the Third Meeting of the Scientific Working Group on Neritic Tuna Stock Assessment in the Southeast Asian Waters](#) (27-29 June 2016, Chonburi Province, Thailand)

- [Report of the Special Training/Workshop on Stock Assessments of Longtail Tuna and Kawakawa in the Southeast Asian Region](#) (17-25 April 2017, Kuala Terengganu, Malaysia)
- [Report of the Fifth Meeting of Scientific Working Group on Neritic Tuna Stock assessment in the Southeast Asian Waters](#) (9-11 January 2019, Thailand)

*For more reports, please contact the relevant SEAFDEC Department.*

## Economically Important Species as Surimi Raw Materials

### Brochure: Surimi Information

One set of publications comprises information on: Surimi Industry in the Southeast Asian Countries; Status of Fishing Grounds for Surimi Raw Materials in Southeast Asian Countries; and Surimi Raw Materials Species Found from the M.V. SEAFDEC 2 Survey during 2004-2008.

By SEAFDEC/TD



## Resource Enhancement

### Artificial Reefs in Thailand

The publication reviews the objectives in the installation of artificial reefs, the artificial reefs concept, the importance of the ecosystem in the natural and artificial reef areas, and the evaluation on economic and social benefits to fishers living around the area. The information is based on a case study in Thailand.

By SEAFDEC/TD



### Proceedings of Workshop on Artificial Reefs for the Enhancement of Fishery Resources

(4 August 2009, Putrajaya, Malaysia)

A 189-page publication summarizes results of the workshop that aims to enhance understanding on placement of artificial reefs among Southeast Asian countries and Japan through sharing information about scientific-based designs and evaluation methods of artificial reefs executed in these areas.

By SEAFDEC/MFRDMD



## Detecting and Mapping of Artificial Reefs Using Side Scan Sonar & Sub Bottom Profiler

(Volume 1)

The 57-page publication provides information on methods for detecting and mapping of artificial reefs, *i.e.* monitoring the artificial reefs and their distribution, as well as measuring their height above the seabed over a large area in the west coast of peninsular Malaysia.

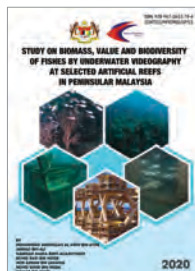
By INOS and SEAFDEC/MFRDMD



## Study on Biomass, Value and Biodiversity of Fishes by Underwater Videography at Selected Artificial Reefs in Peninsular Malaysia

This research has objectives to estimate biomass and biodiversity of fishes at artificial reef sites in Peninsular Malaysia by using photo and video cameras to record, species identification and also to estimate size and weight of each species.

By SEAFDEC/MFRDMD



## Introduction of Set-Net Fishing to Develop the Sustainable Coastal Fisheries Management in Southeast Asia: Case Study in Thailand 2003-2005

(in English and Thai)

The 402-page report contains the results of studies and researches carried out under the project on “Introduction of Set-Net Fishing to Develop the Sustainable Coastal Fisheries Management in Southeast Asia: Case Study in Thailand 2003-2005.”

By SEAFDEC/TD



## Set-Net Fishing Technology Transfer for Sustainable Coastal Fisheries Management in Southeast Asia

The 214-page technical manual compiles the lessons learned from the Set-Net project implemented in Rayong Province, Thailand. The manual includes the rationale and objectives, as well as the methods and techniques in implementing Set-Net fisheries to serve as a good guide for those who intend to start similar initiative in their respective countries.

By SEAFDEC/TD

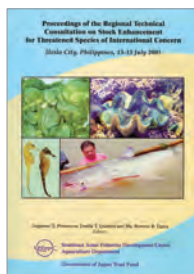


### Proceedings of the Regional Technical Consultation on Stock Enhancement for Threatened Species of International Concern

(13-15 July 2005, Iloilo, Philippines)

The 149-page proceedings describe the ASEAN-SEAFDEC directives related to species of international concerns, and the countries' initiatives and concerns on stock enhancement programs.

By *SEAFDEC/AQD*



### Proceedings of the Symposium on Strategy for Fishery Resources Enhancement in the Southeast Asia

(27-30 July 2015, Pattaya, Thailand)

The publication contains results of the Symposium which served as a forum to exchange the lessons learned and experiences gained from relevant resource enhancement initiatives of SEAFDEC and Member Countries. The Symposium was also intended to facilitate the sharing of scientific knowledge on fisheries resource enhancement from renowned resource persons from Japan and the Southeast Asian countries.

By *SEAFDEC/TD*



### Proceedings of the International Workshop on Resource Enhancement and Sustainable Aquaculture Practices in Southeast Asia 2014 (RESA)

(5-7 March 2014, Iloilo City, Philippines)

The conference was held in order to promote and augment regional initiatives on resource enhancement and sustainable aquaculture practices, and to contribute to poverty alleviation, livelihood and food security in Southeast Asia. The contributions of the selected participants during the conference which are contained in this volume are cited individually.

By *SEAFDEC/AQD*



## Resource Survey

### Report on the Regional Technical Meeting the Evaluation of the Collaborative Research Survey on Marine Fisheries and Marine Environment in the Gulf of Thailand

(24-26 July 2018)

The research topics, tentative cruise plan, and data sharing scheme were discussed during the Meeting.

By SEAFDEC/TD

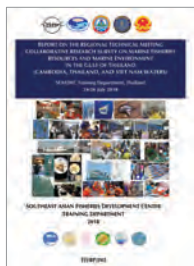


### Report on the Regional Technical Meeting Collaborative Research Survey on Marine Fisheries Resources and Marine Environment in the Gulf of Thailand

(8-9 January 2019)

The Meeting reviewed the activities of collaborative surveys using the M.V. SEAFDEC 2 including the preliminary results and way forward.

By SEAFDEC/TD



*For more reports, please contact the relevant SEAFDEC Department.*



## Fisheries Management

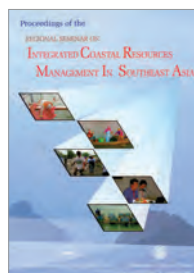
### Small-scale Fisheries Management

#### Proceedings of the Regional Seminar on Integrated Coastal Resources Management in Southeast Asia

(10-12 July 2007, Chumphon Province, Thailand)

The 239-page proceedings publish the outputs from the Seminar, particularly the outputs of the project on Integrated Coastal Resources Management (ICRM) implemented from 2001-2006 in Pakklong Sub-district, Chumphon Province; the project evaluation and recommendations for future activities; and the current approaches of the Southeast Asian countries toward realization of community-based fisheries resources management.

By SEAFDEC/TD



### **Proceedings of the Regional Seminar on Integrated Coastal Resources Management Approach in Southeast Asia: Review of the Project ICRM-PL**

(21-23 October 2008, Langkawi, Malaysia)

The 204-page proceedings summarize the outputs, achievements and lessons learned from the project on ICRM implemented in Pulau Langkawi, Malaysia from 2003 to 2006. The information should be considered by the other SEAFDEC Member Countries in the formulation and implementation of projects with the similar nature.

By *SEAFDEC/TD*



### **Proceedings of the Seminar on Integrated Coastal Resources Management Approach in Southeast Asia: Review of the ICRM-SV Project**

(26-27 January 2010, Bangkok, Thailand)

The Seminar discussed the achievements and outputs of the ICRM-SV project; verified the impacts of the project activities to the beneficiaries; discussed the resultant rationale and implication in the dissemination of the project concept to other SEAFDEC Member Countries; and identified the necessary follow-up actions to be undertaken by parties concerned.

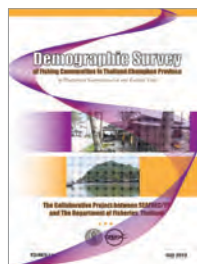
By *SEAFDEC/TD*



### **Report of the Demographic Survey of Fishing Communities in Thailand: Chumphon Province**

Demographic survey was conducted in 2010, of which the outputs were used as a basis for the development of subsequent capacity building activities. It is also expected that the outputs from this survey, as well as the lessons learned and the achievements from the project implementation, would also be useful for the other development projects that may be initiated and implemented in the area.

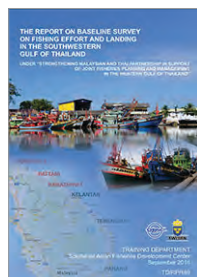
By *SEAFDEC/TD*



### **Report on Baseline Survey on Fishing Effort and Landing in the Southwestern Gulf of Thailand: Under "Strengthening Malaysian and Thai Partnership in Support of Joint Fisheries Planning and Management in the Western Gulf of Thailand"**

This publication conveys the outputs of the Project "Strengthening Malaysian and Thai Partnership in Support of Joint Fisheries Planning and Management in the Western Gulf of Thailand," which was implemented from 2014 to 2015. Its aim was to gather preliminary information on fishing efforts (*i.e.*, vessels, gears, and people) and landing of catch, which would be used as basis to improve the monitoring and control of fishing activities.

By *SEAFDEC/TD*



## Report: JTF Project Facilitating Fisheries Activities Information Gathering through Introduction of Community-Based Resources Management/ Co-management in Lao PDR

The report contains the details of implementation of several activities of the Project including organization of fisheries management committee, fish catch and market survey, and capacity building.

By SEAFDEC/TD



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## Other Publications on Small-scale Fisheries Management

All by SEAFDEC/TD

- **Large Cast Net and Anchovy Falling Net Fisheries to Community Based Economic Development: Survey in Pakklong Sub-district, Pathew District, Chumphon Province** (24 pages)
- **Monitoring on Density and Distribution of Meiofauna in the Pakklong Sub-district Coastal Area** (36 pages)
- **Overview of Fishing Activities in the Pakklong Sub-district Coastal Area, Pathew District, Chumphon Province from March 2002 to February 2003** (33 pages)
- **Carrying Capacity Estimation of Marine Finfish Cage Culture at Pathew Bay, Chumphon Province, Southern Thailand** (10 pages)
- **The New Experience of Sub-district Administrative Organization in Coastal Resource Management: the Case of Chumphon Province, Thailand.**
- **Fish Landing Data in October 2007 - October 2009 in Prey Nop II, Sihanouk Ville, Cambodia** (2009)
- **Report of Workshop on Ecosystem Approach to Fisheries Management (EAFM) in Trat Province, Thailand** (Thai Language)
- **Report of Regional Workshop on Lessons Learned from Application of EAFM in Different Learning Sites** (7-8 October 2019, Bangkok, Thailand)



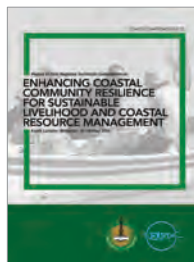
## Enhancing community resilience

### Report of the First Regional Technical Consultation on Enhancing Coastal Community Resilience for Sustainable Livelihood and Coastal Resource Management

(16-19 May 2016)

The highlight of the Meeting was the harmonization of the problems and need assessment questionnaire that would be used by the participating countries in collecting the data for the Project "Enhancing Coastal Community Resilience for Sustainable Livelihood and Coastal Resource Management" implemented by MFRDMD with support from the Islamic Development Bank (IDB).

By SEAFDEC/MFRDMD

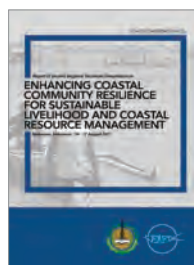


### Report of the Second Regional Technical Consultation on Enhancing Coastal Community Resilience for Sustainable Livelihood and Coastal Resource Management

(24-27 August 2017)

During the Meeting, the progress of the Project implementation including lesson learned, issues, and follow up actions was reported.

By SEAFDEC/MFRDMD

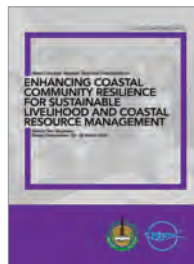


### Report of Terminal Regional Technical Consultation on Enhancing Coastal Community Resilience for Sustainable Livelihood and Coastal Resource Management

(20-22 March 2018)

In this document, the impact of the Project on the selected communities and lesson learned were the highlights of the Meeting. Also, the follow up actions and way forward were also discussed.

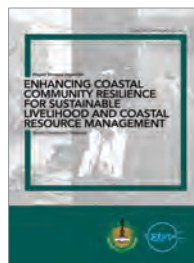
By SEAFDEC/MFRDMD



### Project Terminal Report for Enhancing Coastal Communication Resilience for Sustainable Livelihood and Coastal Resource Management: Brunei, Indonesia, and Malaysia

The achievements of the Project are emphasized in this terminal report, particularly the impacts on the fishing communities in Brunei Darussalam, Indonesia, and Malaysia.

By SEAFDEC/MFRDMD



# Indicators for Fisheries Management

## Indicators for Improved Fisheries Management in the ASEAN Region

The 162-page Proceedings of the Second Regional Technical Consultation on the Use of Indicators for the Sustainable Development and Management of Capture Fisheries in the ASEAN Region (9-11 March 2004, Kuala Lumpur, Malaysia). The RTC reviewed and evaluated the implementation of pilot projects, and provided recommendations for the development of the Draft Guidelines on the Use of Indicators for Improved Fisheries Management.

By SEAFDEC/MFRDMD



## Guidelines and Standard Method of Data Collection and Fisheries Indicators for Fisheries Management in Myanmar

This book is the guidelines for collecting and processing data on the resources for sustainable fishery management. The book also comprises examples that could be used by researchers.

By SEAFDEC/TD



## Report of the Technical Working Group on the Identification of Indicators for Sustainable Development and Management of Capture Fisheries in the ASEAN Region

(8-9 November 2004, Kuala Lumpur, Malaysia)

By SEAFDEC/MFRDMD

## Report of the Core Group Meeting on the Identification of Indicators for Sustainable Development and Management of Capture Fisheries in the ASEAN Region

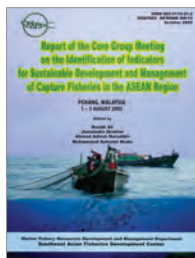
(1-3 August 2005, Penang, Malaysia)

By SEAFDEC/MFRDMD

## Report of the Third Regional Technical Consultation Meeting on Identification of Indicators for Sustainable Development and Management of Capture Fisheries in the ASEAN Region

(13-14 October 2005, Hai Phong, Viet Nam)

By SEAFDEC/MFRDMD



## Management of Fishing Capacity and Combating IUU Fishing

### Report of the Regional Meeting on the Regional Fishing Vessel Record (RFVR) for 24 meters in length and over as a Management Tool toward Combating IUU Fishing in ASEAN

(12-13 December 2018, Samut Prakan, Thailand)

The discussion of the Meeting focused on the progress of utilization of the RFVR database and other related management tools of relevance to combat IUU fishing.

By SEAFDEC/TD



### Report on Teleseminar on Way Forward for Combating IUU Fishing in Southeast Asia

(24-26 August 2020, online)

The Teleseminar highlighted the initiatives of several organizations in combating IUU fishing which include SEAFDEC, FAO, MARE, Sustainable Fisheries Research and Development Foundation, RPOA-IUU, OceanMind, IMCS Network, and NOAA.

By SEAFDEC/TD



### Report of Teleworkshop on Development and Implement of Regional Tools (RFVR and PSM) for Combating IUU Fishing in Southeast Asia

(27-28 August 2020, online)

The Workshop focused on the status of utilization of RFVR and implementation of PSM as well as recommendations on way forward for combating IUU fishing in Southeast Asia.

By SEAFDEC/TD



### Report on the Regional Core Expert Meeting on Combating IUU Fishing in Southeast Asian Region through Application of Catch Certification for International Trade in Fish and Fishery Product

(7-9 October 2013, Kuala Lumpur, Malaysia)

The report covers the topics and activities during the Meeting, which includes fishing and trading practices and impact of implementation of EC Regulation 1005/2008 in small and large scale fisheries in the Southeast Asian region; drafting the Regional Guidelines; and concept of ASEAN Catch Documentation Scheme.

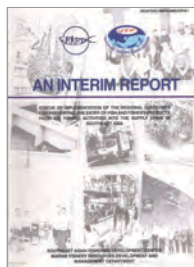
By SEAFDEC/MFRDMD



## An Interim Report: Status of Implementation of the Regional Guidelines for Preventing the Entry of Fish and Fishery Products from IUU Fishing Activities into the Supply Chain in Southeast Asia

This publication presents the achievements of the Project implemented from 2013 to 2019 aimed at combatting IUU fishing in the Southeast Asian region through the application of catch certification for regional and international trade in fish and fishery products.

By SEAFDEC/MFRDMD



## Report of the Regional Technical Consultation on Promotion of the “ASEAN Guidelines for Preventing the Entry of Fish and Fishery Products from IUU Fishing Activities into the Supply Chain” (7-9 March 2016, Kuala Lumpur, Malaysia)

The report contains the appropriate and practical actions as well as national plan of the ASEAN Member States to implement the ASEAN Guidelines.

By SEAFDEC/MFRDMD



## Report: The Terminal Meeting of the JTF6 Project: Combating IUU Fishing in Southeast Asia Through Application of Catch Certification for International Trade in Fish and Fishery Products (3-5 September 2019, Malaysia)

The Meeting emphasized the regional and national status and issues during implementation of the ASEAN Guidelines as well as the importance of data transparency in combating IUU fishing.

By SEAFDEC/MFRDMD



## Recommended Actions to Implement the ASEAN Guidelines for Preventing the Entry of Fish and Fishery Products from IUU Fishing Activities into the Supply Chain

The six recommended actions included in this publication were developed through a series of consultative meetings among the representatives from the ASEAN Member States and experts from national and international organizations.

By SEAFDEC/MFRDMD



## The Terminal Report of The JTF6 Project : Combating IUU fishing in Southeast Asia Through Application of Catch Certification for International Trade in Fish and Fishery Products

This publication presents the results of the consultative visits to the ASEAN Member States (AMSS) to discuss the issues on the implementation of the ASEAN Guidelines as well as the results of the self-evaluation on the implementation of the ASEAN Guidelines in the respective AMSS.

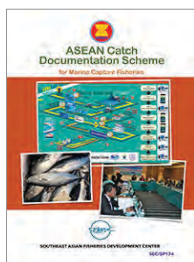
By SEAFDEC/MFRDMD



## ASEAN Catch Documentation Scheme for Marine Capture Fisheries

The publication provides framework which enhances traceability of fish and fishery products for effective marine fisheries management and also prevents entry of fish and fishery products from IUU fishing activities into supply chain of the ASEAN Member States.

By SEAFDEC Secretariat



## Infographics on ACDS Guide

The publication aims to provide better understanding on effective fisheries management through the use of ASEAN Catch Documentation Scheme.

By SEAFDEC Secretariat



## Electronic ASEAN Catch Documentation Scheme for Marine Capture Fisheries

A 5-minute video that introduces the Electronic ASEAN Catch Documentation Scheme as a tool to improve traceability of marine capture fisheries products.

By SEAFDEC Secretariat



## Technology Solutions for Electronic Catch Documentation and Traceability (eCDT)

The book provides a mechanism for data collection and transmission in order to develop eCDT in remote and at-sea areas.

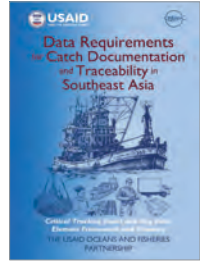
By the USAID in partnership with SEAFDEC / TD



### Data Requirements for Catch Documentation and Traceability in Southeast Asia

The book aims to outline the terms, definitions of all relevant and required KDEs within a traceable in seafood supply chain.

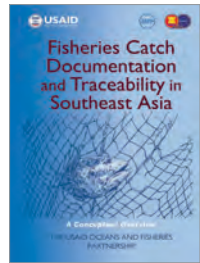
*By USAID in partnership with SEAFDEC/TD*



### Fisheries Catch Documentation and Traceability in Southeast Asia: A Conceptual Overview (CDT 101)

This publication provides a conceptual overview of catch documentation and traceability to serve as non-technical document which can be accessible by stakeholders.

*By the USAID in partnership with SEAFDEC/TD*



### Technical Guidance on the Design and Implementation of eCDT in Viet Nam

This publication aids Viet Nam by facilitate the transition from paper-based to a financially-sustainable electronic caych documentation and traceability (eCDT) system.

*By the USAID in partnership with SEAFDEC/TD*



### Report on the Regional Technical Consultation on Regional Plan of Action for Management of Fishing Capacity (RPOA-Capacity)

(8 December 2020, Kuala Terengganu, Malaysia)

The Report summarizes results from the RTC that provided updates regarding the implementation of the RPOA-Capacity and issues/constraints for implementation of the RPOA-Capacity in the respective ASEAN Member States and also established the way forward for the implementation of the national and regional plans of action in the respective countries.

*By SEAFDEC/MFRDMD*



## Other Reports on Management of Fishing Capacity and Combating IUU Fishing

(by SEAFDEC Secretariat, TD and MFRDMD)

- [Report of the Expert Consultation on Managing Fishing Capacity to Combat IUU Fishing in Southeast Asia](#) (15-17 September 2010, Bangkok, Thailand)
- [Report of Regional Core Expert Meeting on Preventing Export of IUU Fishing Products in Southeast Asia](#) (20-22 November 2012)
- [Report of the Regional Core Expert Meeting on Combating IUU Fishing in Southeast Asian Region Through Application of Catch Certification for International Trade in Fish and Fishery Product](#) (7-9 October 2013, Kuala Lumpur, Malaysia)
- [Report of the Regional Technical Consultation on Development of Regional Plan of Action-Management of Fishing Capacity](#) (24-26 February 2015, Kuala Lumpur, Malaysia)
- [Report of the 2<sup>nd</sup> Regional Technical Consultation on Development of Regional Plan of Action for Managing of Fishing Capacity](#) (15-17 December 2015, Phuket, Thailand)

*For more reports, please contact the relevant SEAFDEC Department.*

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## Sub-regional Fisheries Management

(all by SEAFDEC Secretariat)

- [Report of the 6<sup>th</sup> Meeting of the Gulf of Thailand Sub-region](#) (28 February - 2 March 2017, Thailand)
- [Report of the Technical Experts Meeting on Management of Transboundary Species for the Northern Andaman Sea](#) (13-14 March 2018, Thailand)
- [Report of the Technical Experts Meeting on Management of Transboundary Species for the Southern Andaman Sea](#) (13-14 April 2018, Thailand)
- [Report of the Second Technical Experts Meeting on Information Compilation of Transboundary Species as Scientific Basis for National Measures for Southern Andaman Sea](#) (10-11 July 2018, Chonburi province, Thailand)
- [Report of the Second Technical Experts Meeting on Management of Transboundary Species for Northern Andaman Sea](#) (12-13 July 2018, Chonburi province, Thailand)
- [Report of the Meeting on the Development of a Sub-regional Cooperation on Monitoring, Control and Surveillance in Fisheries in the Northern Andaman Sea](#) (24-25 July 2018, Bangkok, Thailand)
- [Report of the 2<sup>nd</sup> Sub-regional Technical Meeting on Effective Fisheries Management Between Cambodia and Thailand](#) (29-30 August 2018, Koh Kong, Cambodia)
- [Report of the Bilateral Technical Meeting of Effective Fisheries Management between Lao PDR and Thailand](#) (29-30 October 2018, Chiang Rai, Thailand)

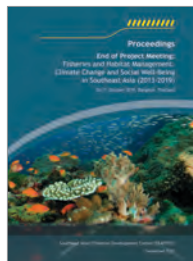
- [Report of the 7<sup>th</sup> Meeting of the Gulf of Thailand Sub-region](#) (1-2 November 2018, Chonburi, Thailand)
- [Report of the Fourth Meeting of the Andaman Sea Sub-region](#) (20-21 November 2018, Bangkok, Thailand)
- [Report of the Gulf of Thailand Technical Meeting on Management of Transboundary Species: Indo-Pacific Mackerel](#) (19-20 December 2018, Bangkok, Thailand)
- [Report of the Gulf of Thailand Sub-Regional Monitoring, Control and Surveillance \(MCS\) Network Meeting](#) (20-21 June 2019, in Chonburi Province, Thailand)
- [Report of the Meeting on the Development of Monitoring, Control and Surveillance Network for Southern Andaman Sea](#) (20-21 August 2019, Bangkok, Thailand)
- [Report of the 8<sup>th</sup> Meeting of the Gulf of Thailand Sub-Region](#) (4-5 September 2019, Chonburi Province, Thailand)
- [Comparative Review of Laws and Regulations concerning Fisheries, Habitat Management and related Aspects between Cambodia and Lao PDR and between Cambodia and Viet Nam](#) (91 pages)

*For more reports, please contact the SEAFDEC Secretariat.*

### [Proceedings of the End of Project Meeting: Fisheries and Habitat Management, Climate Change and Social Well-Being in Southeast Asia \(2013-2019\)](#)

The Meeting summed up the results and outputs of the Project “Fisheries and Habitat Management, Climate Change and Social Well-being in Southeast Asia” supported by the Government of Sweden, highlighting on the major achievements of Project’s output objectives.

*By SEAFDEC Secretariat*



### Management of Purse Seine Fisheries

#### [Report on the Regional Core Expert Meeting on Comparative Studies for the Management of Purse Seine Fisheries in the Southeast Region](#)

(9-11 August 2016, Kuala Lumpur, Malaysia)

The highlights of the Meeting include review of purse seine management systems, data requirement and regional synthesis, and management strategy of purse seine fishery.

*By SEAFDEC/MFRDMD*





### Report of the 3<sup>rd</sup> Core Expert Meeting on Comparative Studies for Management of Purse Seine Fisheries in the Southeast Asian Region

(12-14 September 2017, Kuala Lumpur, Malaysia)

This Meeting focused on the current purse seine management systems of Thailand and Philippines, regional data analysis, and management strategy of purse seine fishery.

By SEAFDEC/MFRDMD



### Report of the 4<sup>th</sup> Core Expert Meeting on Comparative Studies for Management of Purse Seine Fisheries in the Southeast Asian Region

(18-19 September 2018, Kuala Lumpur, Malaysia)

During the Meeting discussed the management measures for purse seine fisheries particularly the conduct of genetic study of *Amblygaster sirm* in the South China Sea and Andaman Sea.

By SEAFDEC/MFRDMD



### Project Terminal Report on Comparative Studies for Management of Purse Seine Fisheries in the Southeast Asian Region

The achievements of the Project implemented from 2013 to 2019 are presented in this document, especially the scientific recommendations on purse seine fishery management.

By SEAFDEC/MFRDMD



### Executive Summary and Pictorial: Comparative Studies for Management of Purse Seine Fisheries in the Southeast Asian Region 2013-2019

This publication contains the summary of the annual activities of the Project implemented from 2013 to 2019.

By SEAFDEC/MFRDMD



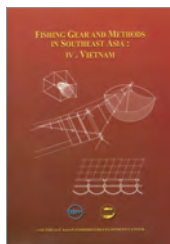
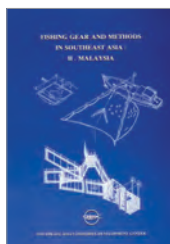


# Fishing Technologies and Practices

## Fishing Gear and Methods

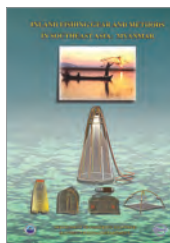
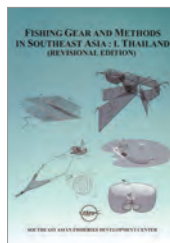
A series of scientific volumes comprises information on fishing gear structures and fishing methods obtained through surveys conducted by scientific researchers and fishing gear experts in Malaysia, Viet Nam, Philippines, Thailand, Myanmar, Brunei Darussalam and Cambodia.

- Fishing Gear and Methods in Southeast Asia: Malaysia (1989)
- Fishing Gear and Methods in Southeast Asia: Vietnam (2002)
- Fishing Gear and Methods in Southeast Asia: Philippines Part I (2003)
- Fishing Gear and Methods in Southeast Asia: Philippines Part II (2004)



- Fishing Gear and Methods in Southeast Asia: Thailand (revision edition, 2004)
- Inland Fishing Gear and Methods in Southeast Asia: Myanmar (2006)
- Fishing Gear and Methods in Southeast Asia: Brunei Darussalam (2007)
- Fishing Gear and Methods in Southeast Asia: Cambodia (2007)

By SEAFDEC/TD



## Pelagic Longline

The handbook describes the principles and techniques of good pelagic longline fishing, particularly for tunas. This could be used by fishers who want to start, refine or broaden their skills.

By SEAFDEC/TD



### Mitigation of the Fishery-Sea Turtles Interaction: Efficiency of the Circle Hook in Comparison with J-Hook in Longline Fishery

The 8-page pamphlet describes the result from fishing gear experiment to compare the efficiency of circle hook and J-hook in pelagic longline fishing in the Southeast Asian waters.

By SEAFDEC/TD



### Auxiliary Sail for Small/Medium Scale Fishing Boat

A 46-page technical manual describes the use of auxiliary sail, aiming to save fuel, reduce pollution due to combustion of hydrocarbons, and promote sail design that is practical for the Southeast Asian region.

By SEAFDEC/TD



### Hauling Device and Hydraulic Engineering for Fishing Boats

The publication introduces the installation and utilization of onboard fishing machinery, particularly hauling device and hydraulic engineering, which is reliable and reduce cost of labor for small fishing boats.

By SEAFDEC/TD



### Trawl in Southeast Asia and Coral Triangle

A poster provides information on trawl net in Southeast Asia and Coral Triangle region.

By SEAFDEC/TD



## Classification of Bottom Trawl

A poster provides information on classification of bottom trawl.

By SEAFDEC/TD



## VCDs on Fishing Technologies and Practices

(all by SEAFDEC/TD)

- Anchovy Processing
- Brine System on M.V. SEAFDEC
- Collapsible Crab Trap
- Crab Bank
- Demonstration and Core Expert Meeting on Tagging Program for Economically Important Pelagic Species in the South China Sea and Andaman Sea (1-3 May 2007, Samutsakorn Province, Thailand)
- Fishing Boats in Malaysia
- Fishing Boats in Thailand
- Fishing Boats in the Philippines
- Giant Fish Trap
- Gill Net
- Introduction of Semi-curved Rigid Sorting Grid JTEDs (Construction and Installation)
- Tuna Purse Seine
- Women in Fisheries
- JTEDs in Brunei Darussalam
- JTEDs in Malaysia
- JTEDs in the Philippines
- JTEDs in Viet Nam
- JTEDs in Thailand
- JTEDs in Indonesia
- Line Fisheries
- Longline New Technology for Tuna in Southeast Asia
- M.V. SEAFDEC
- M.V. SEAFDEC 2
- Mollusk Culture in Thailand
- Onboard Fish Handling Technology and Refrigeration System on Thai Trawler
- Surimi: Utilization of Low Market Value Food Fish
- The Use of Turtle Excluder Devices in Thailand
- Trawl Fisheries

## Selective Fishing Devices

(all by SEAFDEC/TD)

### Construction of Juvenile and Trash Excluder Device (JTED)

The booklet outlines the construction of a Juvenile and Trash Excluder Device using the Semi-Curved Rigid Sorting Grid Design in order to minimize the capture of juveniles and unwanted fishes from trawl fisheries.



### Construction of Thai Turtle Free Device (TTFD)

The booklet outlines the construction of a Thai Turtle Free Device (TTFD) in order to minimize the sea turtles by-catch from trawl fisheries.





## Fish Handling and Post-harvest Practices

### Fish Handling, Preservation and Utilization

#### On-board Fish Handling and Preservation Technology

The 79-page book describes onboard fish-handling and preservation techniques in combination with practical refrigeration system, which has been introduced to fishers in Southeast Asian countries in order to maintain the freshness and quality of fish onboard fishing boats.

By SEAFDEC/TD



#### Handbook: Environmental/User Friendly Fish Handling Onboard (Available in English and Thai versions)

The Handbook provides guidelines for the improvement of seafood safety, quality and sustainable utilization of catch and also promoting the best hygiene practices onboard fishing vessels at landing sites.

By SEAFDEC/TD



#### Handbook: On-Board Fish Handling Technology

This booklet provides guidelines for the improvement of seafood safety by fishers throughout the business chain.

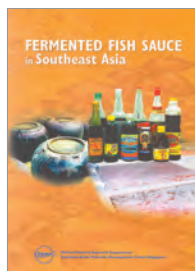
By SEAFDEC/TD



#### Fermented Fish Sauce in Southeast Asia

In Southeast Asia, one of the methods of utilizing fish is to make it into fish sauce. Fish sauce is widely used as a condiment or as ingredient in cooking to add 'meat' flavor to the dishes. The book describes the characteristics and methods for producing the fish sauce.

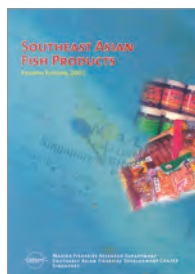
By SEAFDEC/MFRD



### Southeast Asian Fish Products (4<sup>th</sup> edition, 2002)

Fish is a major traditional source of animal protein in the Southeast Asian region. There are many varieties of freshwater and marine fish widely accepted by most people and religions. These products are also available as traditional fish products and are listed in this publication.

By SEAFDEC/MFRD



### Maximizing Utilization of Fish Catch - Marine Species

The book includes a range of value-added products developed from marine fishes in the Southeast Asian region.

By SEAFDEC/MFRD



### Maximizing Utilization of Fish Catch - Freshwater Species

The book includes a range of value-added products developed from freshwater fishes in the Southeast Asian region.

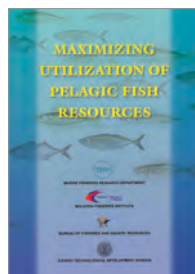
By SEAFDEC/MFRD



### Maximizing Utilization of Pelagic Fish Resources

The 123-page manual describes the processing of pelagic fish species, *i.e.* comminuted products, dried products, fermented products, smoked products and others. Costing for each product category, and Standard Operating Procedures (SOP) for processing of surimi and unwashed minced fish meat from pelagic fish are also included.

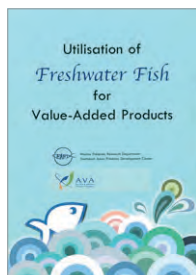
By SEAFDEC/MFRD



## Utilisation of Freshwater Fish for Value-Added Products

This publication is the major output of the project on Utilization of Freshwater Fish for Value Added products conducted by MFRD together with Indonesia, Myanmar, Lao PDR and Viet Nam, each of which developed two products from catfish, rohu and clown featherback fish. The handbook includes a description of freshwater fisheries in these countries, the freshwater species used, the value added products developed, the processing steps and, results of shelf-life studies.

By SEAFDEC/MFRD

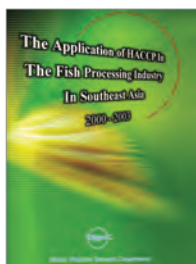


## Enhancing Quality and Safety of Fish Products

### The Application of HACCP in the Fish Processing Industry in Southeast Asia 2000-2003

The publication includes individual Southeast Asian country's status report on the application of HACCP in the fish processing industry, as well as for traditional fish products.

By SEAFDEC/MFRD



### Good Manufacturing Practice (GMP) for Small and Medium-sized Fish and Fish Products Pre-Processing Establishments in ASEAN

The publication compiles the GMP for selected Pre-Processing Establishment (PPEs) in the ASEAN countries, *i.e.* Shrimp PPE, Fish Meat/Filleting PPE, Crab Meat Picking PPE, and Shrimp Salting PPE. The process flow diagram, processing steps and GMP for the products are described.

By SEAFDEC/MFRD



### Good Manufacturing Practice (GMP) for Small and Medium-sized Traditional Fish Products Processing Establishments in ASEAN

The publication compiles the GMP for selected Traditional Fish Products Processing Establishments (TPEs) in the ASEAN countries, *i.e.* shrimp paste (*belacan*, *mam tom*), fish sauce (*nam pla*, *nuoc mam*, *ngan pya ye*), shrimp sauce (*alamang*), salted and boiled fish (*pindang*), fish ball, dried fish (*pa heang*), dried shrimp, fish cracker (*keropok lekor*), smoked fish (*tinapa*), and fermented fish (*ngachin*).

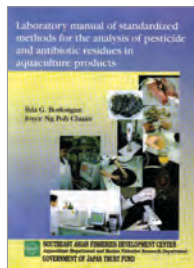
By SEAFDEC/MFRD



### Laboratory Manual of Standardized Methods for the Analysis of Pesticide and Antibiotic Residues in Aquaculture Products

The book describes the standardized methods for analyzing pesticides and antibiotic residues with the aim of building up and strengthening the regional capability in such analytical testing.

By SEAFDEC/AQD and MFRD



### Laboratory Manual of Standardized Methods for the Analysis of Chloramphenicol and Nitrofurans Residues in Aquaculture Products

The book describes the standardized methods for analyzing Chloramphenicol (CAP) and Nitrofurans (NF), with the aim of building up and strengthening the regional capability in such analytical testing.

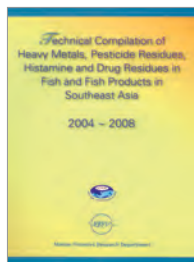
By SEAFDEC/MFRD



### Technical Compilation of Heavy Metals, Pesticide Residues, Histamine and Drug Residues in Fish and Fish Products in Southeast Asia 2004-2008

The 203-page book compiles the baseline information on the current situation of chemical and drug residues in seafood in some Southeast Asian countries. The information is based on the regional surveys undertaken by SEAFDEC/MFRD under the project on "Chemical and Drug Residues in Fish and Fish Products in Southeast Asia."

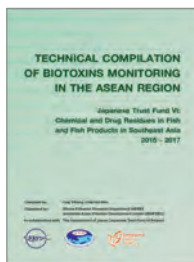
By SEAFDEC/MFRD



### Technical Compilation of Biotoxins Monitoring in ASEAN Region 2015-2017

The book aims to improve initiatives the monitoring, detecting and sharing information on marine biotoxins in order to reduce the risk of public health associated with the consumption of contaminated fishes.

By SEAFDEC/MFRD

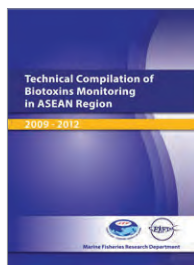




### Technical Compilation of Biotoxins Monitoring in ASEAN Region 2009-2012

The publication compiles the results of the biotoxins monitoring surveys conducted by some Southeast Asian countries participating in the project on biotoxins monitoring implemented by SEAFDEC/MFRD. The book also describes the recommended methods for biotoxins analysis.

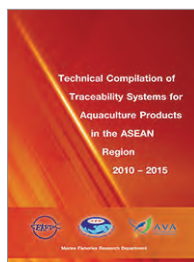
By SEAFDEC/MFRD



### Technical Compilation of Traceability Systems for Aquaculture Product in the ASEAN Region 2010-2015

The publication provides a platform for the sharing of information and experiences among the ASEAN Member Countries on traceability systems, to better enable their aquaculture industries to implement appropriate traceability systems in aquaculture products and to meet international traceability requirements in the network of aquaculture production, marketing, and trade.

By SEAFDEC/MFRD



### Promotion of "One Village, One Fisheries Product (FOVOP)" (All by SEAFDEC Secretariat)

- Report of the First Regional Technical Consultation (RTC) on the Promotion of "One Village, One Fisheries Product (FOVOP)" in the ASEAN Region (24-27 March 2008, Bangkok, Thailand)
- Report of the ASEAN-SEAFDEC Regional HRD Workshop on Identification of Potentials and Problem Areas for the Promotion of "One Village, One Fisheries Product (FOVOP)" in the ASEAN Region (8-22 August 2008, Chiang Mai, Thailand)
- Report of the Second Regional Technical Consultation on the Promotion of "One Village, One Fisheries Product (FOVOP)" in the ASEAN Region (22-26 March 2010, Chiang Mai, Thailand)



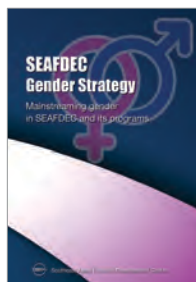
## Cross-cutting Issues

### Gender in the Fisheries Sector

#### SEAFDEC Gender Strategy

This Guidelines serve as an organizational overarching framework to facilitate SEAFDEC in integrating gender into the SEAFDEC organization, and in its programs, projects and activities.

By *SEAFDEC Secretariat*



#### Regional Dialogue on Gender Dimension in Coastal and Fisheries Resources Management in South Asia and Southeast Asia

The report examined gender dimensions in coastal resources management to improve understanding about the state of men and women in relation to coastal and marine resources in the MFF sites and countries.

By *SEAFDEC Secretariat*



#### Gender in Coastal and Fisheries Resources Management: A Regional Synthesis Report

The report aim to improve understanding about the state of men and women in environmental decision making and the structural challenges preventing equitable opportunities for men and women in relation to coastal and marine resources in South and Southeast Asia.

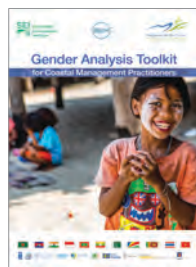
By *SEAFDEC Secretariat*



#### Gender Analysis Toolkit for Coastal Management Practitioners

The toolkit was used to guide and facilitate data collection in MFF and SEAFDEC sites to explore the national policy conditions that support gender equality in environment and natural resource management.

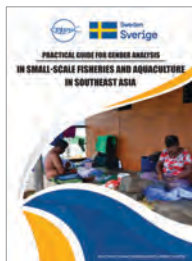
By *SEAFDEC Secretariat*



### Practical Guide for Gender Analysis in Small-scale Fisheries and Aquaculture in Southeast Asia

The guide aims to ensure that gender perspective in small-scale fisheries and aquaculture are properly reflected and undertaken for SEAFDEC's future project activities.

By *SEAFDEC Secretariat*



### Policy Brief: Applying Human Rights-based and Gender Equality Approaches to Small-scale Fisheries in Southeast Asia

This policy brief constitutes a condensed version of the outcomes of the workshop with regard to the applicability, relevance, and importance of human rights-based and gender equality approaches to promote secure and sustainable small-scale fisheries that support food security and poverty eradication in the countries of the region.

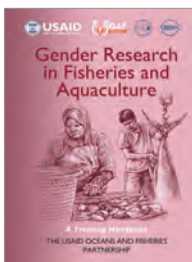
By *SEAFDEC Secretariat*



### A Training Handbook: Gender Research in Fisheries and Aquaculture

The book aims to develop human capacity for fisheries and aquaculture workers in gender theory and practices.

By *SEAFDEC/TD*



### Other Reports on Gender in the Fisheries Sector

(by *SEAFDEC Secretariat and TD*)

- **Report of the Experts Consultation Workshop on Guidance to Monitoring and Evaluation of Gender Equity and Social Well-being in Fisheries Communities** (8-10 August 2018, Bangkok, Thailand)
- **Report of Experts Workshop on Regional Approach for the Implementation of FAO Voluntary Guidelines for Securing Sustainable Small-scale Fisheries: Human Rights-Based Approach and Gender Equity** (26-28 September 2017, Bangkok, Thailand)

*For more reports, please contact SEAFDEC Secretariat and TD*

## Other Cross-cutting Issues

- [Report of the Regional Technical Consultation on Labor Aspects within the Fishing Industry in the ASEAN Region \(25-27 February 2016, Bangkok, Thailand\)](#)

*By SEAFDEC Secretariat*

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- [Report of the Regional Technical Consultation on A Regional Approach to the Implementation of the FAO Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication \(7-9 June 2016, Bangkok, Thailand\)](#)

*By SEAFDEC Secretariat*

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### [Special Report on the Impact of COVID-19: How are Local Fishermen Adapting \(in Thai Language\)](#)

SEAFDEC/TD conducted a preliminary survey on the impacts of COVID-19 on small-scale fishers in Thailand and their adaptations and the support they received to alleviate the impacts.

*By SEAFDEC/TD*



- [Small-scale Fisheries in Southeast Asia: A Regional Digest](#)

Prepared to commemorate the International Year of Artisanal Fisheries and Aquaculture (IYFA) 2022, the publication depicts activities undertaken by SEAFDEC Secretariat and Departments toward promoting the sustainability of small-scale fisheries and aquaculture in the Southeast Asian region.

*By SEAFDEC Secretariat*

*For more reports, please contact relevant SEAFDEC Department.*

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## Aquaculture

### Health Management in Aquaculture (2<sup>nd</sup> edition)

A 316-page textbook describes the major diseases of cultured fish & crustaceans including the prevention & control methods and diagnostic techniques for these diseases. New chapters on histology, probiotics, and epidemiology were also included in this edition.

By SEAFDEC/AQD

USD 43.00



### Prevention and control measures against viral nervous necrosis (VNN) in marine fish hatcheries

A 38-page extension manual describes the clinical signs, behavioral changes, and species affected by the virus; detection, prevention and control methods are also included.

By SEAFDEC/AQD

USD 6.00



### Proceedings of the ASEAN Regional Technical Consultation on EMS/AHPND and Other Transboundary Diseases for Improved Aquatic Animal Health in Southeast Asia

(22-24 February 2016, Makati City, Philippines)

This publication presents the outputs of the Regional Technical Consultation on EMS/AHPND and other Transboundary Diseases. The information and experiences compiled in this publication will help us face disease problems or health management issues in the future.

By SEAFDEC/AQD

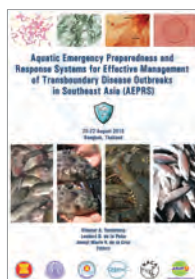


### Aquatic Emergency Preparedness and Response Systems for Effective Management of Transboundary Disease Outbreaks in Southeast Asia (AEPRS)

(20-22 August 2018, Bangkok, Thailand)

This publication presents the outputs of the ASEAN Regional Technical Consultation on Aquatic Emergency Preparedness and Response Systems for Effective Management of Transboundary Disease Outbreaks in Southeast Asia. It summarizes the discussions on the status of and/or need for aquatic emergency preparedness and response systems for effective management of transboundary disease outbreaks in Southeast Asia.

By SEAFDEC/AQD

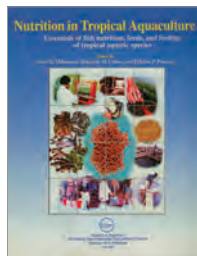


## Nutrition in Tropical Aquaculture

The 221-page book has eight chapters, covering aspects on aquaculture nutrition, feed formulation and feeding management. This book is the product of more than 25 years of research experiences in fish nutrition and feed development at SEAFDEC/AQD.

By SEAFDEC/AQD

USD 25.00



## Proceedings of ASEAN-SEAFDEC Regional Technical Consultation on Development and Use of Alternative Dietary Ingredients or Fish Meal Substitutes in Aquaculture Feed Formulation

(9-11 December 2014, Nay Pyi Taw, Myanmar)

The meeting was convened with the main purpose of providing a forum for charting the regional priorities and future directions on feed development, particularly on the use of alternative feed ingredients or protein substitutes.

By SEAFDEC/AQD

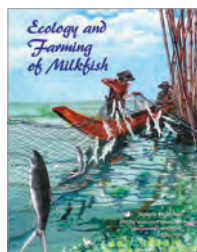


## Ecology and Farming of Milkfish

This book is a 171-page, reader-friendly illustrated account of the life history of milkfish (*Chanos chanos*) in nature and in aquaculture. It describes the different farming systems and status of the milkfish industry, and recommends means to ensure sustainability.

By SEAFDEC/AQD

USD 13.00

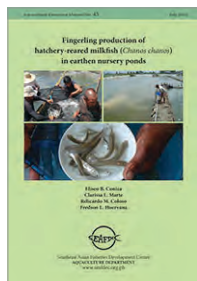


## Fingerling production of hatchery-reared milkfish (*Chanos chanos*) in earthen nursery ponds

A 32-page extension manual describes the three types of nurseries, site selection, and pond preparation; fry selection, handling, transport, acclimation and stocking; fish monitoring, feeding, and harvest; and economics.

By SEAFDEC/AQD

USD 6.00



### Intensive culture of milkfish *Chanos chanos* in polyculture with white shrimp *Penaeus indicus* or mud crab *Scylla serrata* in brackishwater earthen ponds

A 29-page extension manual describing the biology, site selection, pond management and harvest & post-harvest practices of milkfish intensive polyculture in earthen ponds.

By SEAFDEC/AQD

USD 6.00



### Milkfish *Chanos chanos* cage culture operations

A 39-page extension manual describing the biology, fingerling production, site selection, cage design & construction, measurement & analysis of water & sediment quality parameters and economic analysis of milkfish cage culture operations.

By SEAFDEC/AQD

USD 7.00

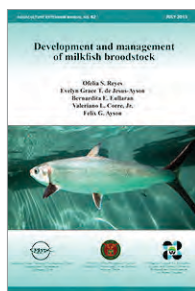


### Development and management of milkfish broodstock

The manual provides developed and refined techniques for collection and transport of spawned eggs and larvae, as well as larval rearing. The manual also describes the necessary facilities for maintaining milkfish broodstock.

By SEAFDEC/AQD

USD 8.00

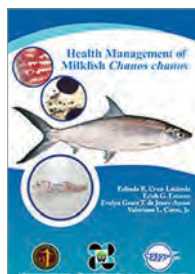


### Health Management of Milkfish *Chanos chanos*

This monograph provides updated information on diseases of marine and brackishwater cultured milkfish in the Philippines. The information presented here is largely based on the results of a three-year research project on milkfish at the University of the Philippines Visayas funded by the Department of Science and Technology (DOST).

By SEAFDEC/AQD

USD 5.00

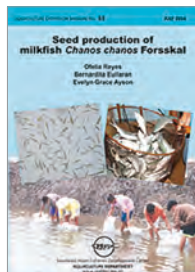


### Seed production of milkfish *Chanos chanos* Forsskal

A 26-page manual describing the site selection, hatchery design, spawning, larval rearing, natural food production, and economic analysis for milkfish.

By SEAFDEC/AQD

USD 4.00



### Biology and hatchery rearing of the silver therapon *Leiopotherapon plumbeus*

This manual contains the patented technique which will provide current knowledge on the biology, breeding, and seed production of ayungin. It aims to serve as a useful reference for students, aquaculturists, researchers, government fishery agency personnel who are interested in the breeding and culture of the native fish species.

By SEAFDEC/AQD

USD 6.00



### Tilapia broodstock and hatchery management

This 48-page manual is the result of the refinements of AQD's tilapia hatchery technology.

By SEAFDEC/AQD



### Modyular na pag-aalaga ng tilapyang mga kulungang lambat

A 27-page extension manual written in Filipino detailing traditional cage culture method, concept of modular cage culture, economic feasibility of modular cage culture and post harvest processing

By SEAFDEC/AQD

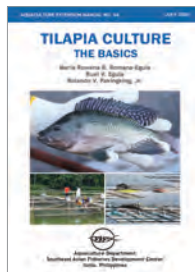
USD 5.00





### Tilapia culture: The Basics

This new aquaculture extension manual revisits the basics of tilapia culture with updated information on the grow-out technology in cages and ponds. Updated cost and returns analyses were also included to guide farmers regarding the profitability of farming tilapia. A fresh chapter on tilapia health management is also included to promote the prevention of tilapia diseases.  
By SEAFDEC/AQD



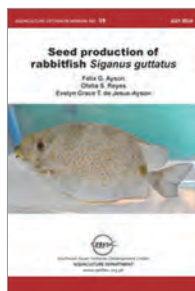
### Hatchery production of snubnose pompano *Trachinotus blochii* Lacepede

A 26-page extension manual describing the biology, broodstock acquisition & management, larval rearing, harvest & transport and prevention of diseases & parasites in hatchery production of pompano.  
By SEAFDEC/AQD  
USD 5.00



### Seed production of rabbitfish *Siganus guttatus*

A 19-page extension manual describing the biology, site selection, broodstock management, larval rearing and larval food production for rabbitfish.  
By SEAFDEC/AQD  
USD 5.00



### Breeding and seed production of the Asian catfish *Clarias macrocephalus* (Gunther)

Among the topics discussed in this 28-page manual are broodstock development and management, hatchery and nursery, health management and financial analyses of the breeding and seed production of the Asian catfish. This manual was published to disseminate science-based aquaculture technologies developed by AQD to assist catfish nursery and hatchery growers in producing high-quality fingerlings.  
By SEAFDEC/AQD



### Grow-out culture of the Asian catfish *Clarias macrocephalus* (Gunther)

The 29-page manual deals with site selection, catfish rearing systems, disease management, and the economics of the grow-out culture of catfish.

By SEAFDEC/AQD

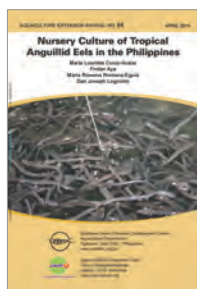


### Nursery culture of tropical anguillid eels in the Philippines

A 37-page manual with topics on the biology, breeding, transport, site requirement, nutritional requirement, nursery rearing, and disease management of anguillid eels among others.

By SEAFDEC/AQD

USD 6.00



### Biology and hatchery of mangrove crabs *Scylla* spp.

This 46-page revised edition of the 2008 manual describes the hatchery protocol that SEAFDEC/AQD developed for the mass production of *Scylla* spp. Setting up of the hatchery is described, as are the steps in managing the breeders, larval rearing, and nursery rearing. Common problems and their solutions, and an updated economic analysis are also discussed.

By SEAFDEC/AQD

USD 4.00



### Seed production and grow-out of mud crab (*Scylla paramamosain*) in Vietnam

This 29-page manual provides information on the biology and techniques in the larval rearing, nursery and grow-out of the mud crab *Scylla paramamosain*.

By SEAFDEC/AQD



### Mud crab nursery in ponds

A 27-page extension manual that is highly illustrated, detailing the biology, nursery, harvest, marketing, costs-and-returns of mud crab nursery in ponds

By SEAFDEC/AQD

USD 5.00



### Diseases of juvenile and adult mud crab *Scylla spp.* in the Philippines

A 30-page manual detailing the different diseases of mud crab and the corresponding prevention/control measures.

By SEAFDEC/AQD

USD 4.00

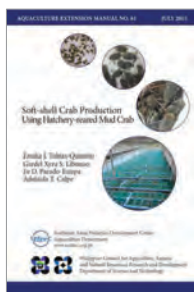


### Soft-shell Crab Production Using Hatchery-reared Mud Crab

This manual includes sections on the biology of mud crab, how to set-up the facility, management of soft-shell crab production and the cost and return analysis.

By SEAFDEC/AQD

USD 6.00



### Proceedings of International Seminar-Workshop on Mud Crab Aquaculture and Fisheries Management (10-12 April 2013, Tamil Nadu, India)

A 128-page book that documents the proceedings of the International-Workshop on Mud Crab Aquaculture and Fisheries Management in April 2013.

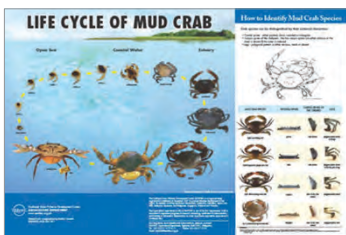
By SEAFDEC/AQD



### Life cycle of mud crab (poster)

A 36 x 24.5 inches poster showing the life cycle of mud crab and the identification of different mud crab species

By SEAFDEC/AQD



### Best Management Practices for a Mangrove-Friendly Shrimp Farming

This 50-page manual puts together the best practices that SEAFDEC/AQD has developed in collaboration with the Department of Fisheries Thailand. These practices include the use of biomanipulators and greenwater system, the use of settling ponds with baffles and biofilters, the use of sludge collectors among others. These practices have been field-tested in Thailand, the Philippines, Myanmar and Viet Nam.

By SEAFDEC/AQD

USD 4.00



### Philippine Freshwater Prawns (*Macrobrachium* spp.)

This 50-page manual provides information on the biology, morphology, natural distribution, habitat, and economic importance of selected freshwater prawns found in the Philippines.

By SEAFDEC/AQD

USD 6.00

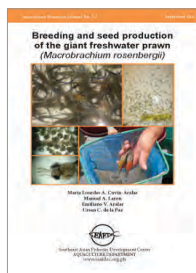


### Breeding and seed production of the giant freshwater prawn (*Macrobrachium rosenbergii*)

A 33-page extension manual describing biology, broodstock management, hatchery & nursery operations, feeding management, packing & transport, and health management of the giant freshwater prawn

By SEAFDEC/AQD

USD 6.00



### Cage culture of the giant freshwater prawn (*Macrobrachium rosenbergii*)

A 30-page extension manual describes biology, site requirement, grow-out operations, health management, harvest, post-harvest handling & processing, and economic analysis of freshwater prawn cage culture.

By SEAFDEC/AQD

USD 5.00



### Abalone Hatchery

This 31-page manual contains information on abalone hatchery operation, including site selection, design, culture of natural food, broodstock management, spawning, nursery, packing and transport, and profitability analyses.

By SEAFDEC/AQD

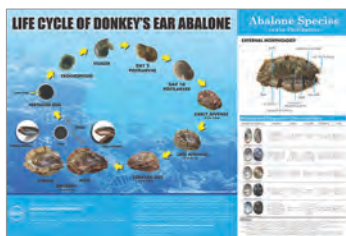
USD 6.50



### Life Cycle of Abalone (poster)

A 36 in x 24.5 in poster showing the life cycle of abalone.

By SEAFDEC/AQD



### Giant Clam Hatchery, Ocean Nursery and Stock Enhancement

This 109-page manual details the propagation of giant clam for stock enhancement purposes. The publication was jointly published by SEAFDEC/AQD, UP-MSI, and DA-BFAR.

By SEAFDEC/AQD

USD 14.00



### Seed production of sandfish (*Holothuria scabra*) in Vietnam

A 12-page extension manual describing broodstock management, larval rearing, and management of sandfish nursery systems

By SEAFDEC/AQD

USD 4.00

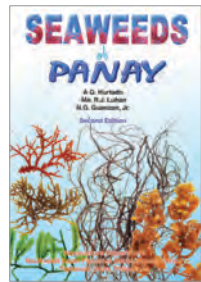


### Seaweeds of Panay (2<sup>nd</sup> edition)

This 50-page book lists 112 species of seaweeds found in Panay Island in west central Philippines, 27 of which are new records to the area. Each color photograph is accompanied by a physical description. Common names, seaweed habitat, economic importance, and collection site are also noted.

By SEAFDEC/AQD

USD 5.00

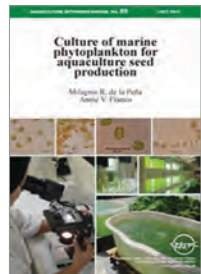


### Culture of marine phytoplankton for aquaculture seed production

The 32-page extension manual describes the biology, culture techniques and maintenance and mass propagation of 12 phytoplankton species used as live feed in marine hatcheries.

By SEAFDEC/AQD

USD 7.00

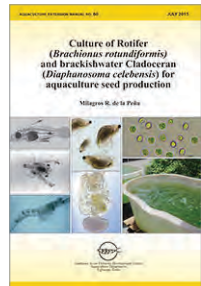


### Culture of Rotifer and brackishwater Cladoceran (*Diaphanosoma celebensis*) for aquaculture seed production

A 32-page manual with topics on the biology and cultivation techniques of zooplankton.

By SEAFDEC/AQD

USD 7.00

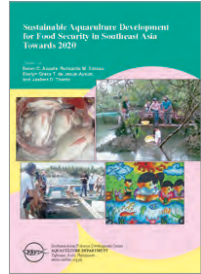


### Sustainable Aquaculture Development for Food Security in Southeast Asia Towards 2020

This 169-page book documents the outputs from the Regional Technical Consultation on Sustainable Aquaculture held in Bangkok, Thailand during 17-19 March 2010.

By SEAFDEC/AQD

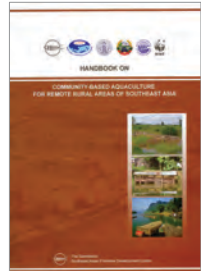
USD 16.00



### Handbook on Community-based Aquaculture for Remote Rural Areas of Southeast Asia

The 179-page handbook elaborates the concept of community-based aquaculture to support the development of remote rural areas of Southeast Asia, and the applicable aquaculture techniques. The practical approaches for the promotion of aquaculture-based rural livelihood program are also explained.

By SEAFDEC Secretariat



### Other Aquaculture Publications

(all by SEAFDEC/AQD)

- The Farming of the Seaweed *Kappaphycus* USD 3.00
- Tilapia Farming in Cages and Ponds
- Induced Breeding and Seed Production of Bighead Carp USD 3.00
- Net Cage Culture of Tilapia in Dams and Small Farm Reservoirs USD 2.00
- Pen Culture of Mud Crab in Mangroves
- Feeds and Feeding of Milkfish, Nile Tilapia, Asian Sea Bass and Tiger Shrimp
- Responsible Aquaculture Development

## Published Scientific Papers

(all by SEAFDEC/AQD)

2021

1. Altamirano, J., & Juinio-Meñez, M. A. (2021). Resource Enhancement: concepts, learnings, and future directions. In: F. Aya, L. D. de la Peña, N. D. Salayo & E. A. Tendencia, (eds). *Proceedings of the International Workshop on the Promotion of Sustainable Aquaculture, Aquatic Animal Health, and Resource Enhancement in Southeast Asia* (pp. 70-87). Tigbauan, Iloilo, Philippines: SEAFDEC Aquaculture Dept.
2. Altamirano, J. P., Sinsona, M. J., Caasi, O. J. C., Uy, W. H., Noran-Baylon, R., & Juinio-Meñez, M. A. (2021). Factors affecting the spatio-temporal variability in the production of sandfish *Holothuria scabra* juveniles in floating hapa ocean nursery systems. *Aquaculture*, 541, 736743.
3. Amar, E. C., Baes, C., Superio, J., Somera, M. & Cordero, C. (2021). Application of carriers and RNAi to enhance the antiviral immune response of shrimp to WSSV. In: F. Aya, L. D. de la Peña, N. D. Salayo & E. A. Tendencia, (eds). *Proceedings of the International Workshop on the Promotion of Sustainable Aquaculture, Aquatic Animal Health, and Resource Enhancement in Southeast Asia* (pp. 238-249). Tigbauan, Iloilo, Philippines: SEAFDEC Aquaculture Dept.
4. Aya, F. A., de la Peña, L. D., Salayo, N. D., & Tendencia, E. A. (eds.). (2021). *Promotion of sustainable aquaculture, aquatic animal health, and resource enhancement in Southeast Asia: Proceedings of the international workshop on the promotion of sustainable aquaculture, aquatic animal health, and resource enhancement in Southeast Asia*, 25-27 June 2019, Iloilo City, Philippines. Tigbauan, Iloilo, Philippines: SEAFDEC Aquaculture Dept.
5. Aya, F. A., Nillasca, V. S. N., & Garcia, L. M. B. (2021). Effects of weaning on survival and growth of silver therapon (*Leiopotherapon plumbeus*) larvae fed live and artificial diet. *Aquaculture Research*, 52, 4799-4806.
6. Aya, F. A., Nillasca, V. S. N., & Garcia, L. M. B. (2021). Improved survival and growth of silver therapon *Leiopotherapon plumbeus* early juveniles through co-feeding with Artemia and commercial feeds. *Journal of Applied Ichthyology*, 37(6), 925-931.
7. Aya, F. A., Unida, J. C. L., Sayco, M. J. P., Romana-Eguia, M. R. & Salayo, N. D. (2021). Potential use of agricultural wastes in aquafeed production. In: F. Aya, L. D. de la Peña, N. D. Salayo & E. A. Tendencia, (eds). *Proceedings of the International Workshop on the Promotion of Sustainable Aquaculture, Aquatic Animal Health, and Resource Enhancement in Southeast Asia* (pp. 88-96). Tigbauan, Iloilo, Philippines: SEAFDEC Aquaculture Dept.
8. Aya, F., Nillasca, V. S. N., & Garcia, L. M. B. (2021). Rearing silver therapon *Leiopotherapon plumbeus* (Teleostei: Terapontidae) larvae using euryhaline rotifers as starter food. *Philippine Agricultural Scientist*, 104(4), 388-395.
9. Bagarinao, T. (2021). Biodiversity in mangrove-derived aquaculture ponds in Dumangas, Iloilo, Philippines. *Philippine Journal of Science*, 150(1), 153-169.
10. Brakel, J., Sibonga, R. C., Dumilag, R. V., Montalescot, V., Campbell, I., Cottier-Cook, E. J., ... & Gachon, C. M. (2021). Exploring, harnessing and conserving marine genetic resources towards a sustainable seaweed aquaculture. *Plants, People, Planet*, 3(4), 337-349. (Review).



11. Brakel, J., Sibonga, R., Tan, P. L., Rad Menéndez, C., Ruiz-González, C., Faisan Jr, J., ... & Gachon, C. (2021). Distribution of the tropical seaweed crops *Eucheuma* spp. and *Kappaphycus* spp. inside and outside of their native range. *Phycologia*, 60(Supplement 1), 19. (Meeting report- Abstract only)
12. Cabanilla-Legaspi, M. I. C., Traifalgar, R. F. M., de Jesus-Ayson, E. G. T., Andrino-Felarca, K. G. S., & Mamauag, R. E. P. (2021). Changes in iodide and thyroid hormone levels of hatchery-reared orange-spotted rabbitfish *Siganus guttatus* (Bloch 1787) during early larval development. *Aquaculture Reports*, 20, 100674.
13. Cabanilla-Legaspi, M. I. C., Traifalgar, R. F. M., de Jesus-Ayson, E. G. T., Andrino-Felarca, K. G. S., & Mamauag, R. E. P. (2021). Growth, metamorphosis and survival of orange-spotted rabbitfish (*Siganus guttatus*) larvae fed sodium iodide-supplemented brine shrimp (*Artemia* sp.). *Aquaculture*, 536, 736443.
14. Caipang, C. M. A., Deocampo, J. E., Pakingking, R. V., Suharman, I., Fenol, J. T., & Onayan, F. B. (2021). Utilization of sodium bicarbonate as anesthetic during routine husbandry activities in ornamental fish. In IOP Conference Series: *Earth and Environmental Science*, 934(1), 012001.
15. Deocampo, J. E., Fenol, J. T., Yerro, E. B. S., Pakingking, R. V., Jr., & Caipang, M. A. (2021). Biofloc technology (BFT): A promising approach for the intensive production of ornamental fish. *Poeciliid Research*, 11(1), 18-24.
16. de la Peña, L. D., Arboleda, J. I. & Castellano, J. L. A. (2021). Establishment of threshold infection levels of WSSV in different weight ranges of *Penaeus vannamei* using quantitative PCR (qPCR). In: F. Aya, L. D. de la Peña, N. D. Salayo & E. A. Tendencia, (eds). *Proceedings of the International Workshop on the Promotion of Sustainable Aquaculture, Aquatic Animal Health, and Resource Enhancement in Southeast Asia* (p. 218-227). Tigbauan, Iloilo, Philippines: SEAFDEC Aquaculture Dept.
17. Erazo-Pagador, G. (2021). Acute toxicity of garlic (*Allium sativum*) extract to snubnose pompano (*Trachinotus blochii*) juvenile. In: F. Aya, L. D. de la Peña, N. D. Salayo & E. A. Tendencia, (eds). *Proceedings of the International Workshop on the Promotion of Sustainable Aquaculture, Aquatic Animal Health, and Resource Enhancement in Southeast Asia* (pp. 250-259). Tigbauan, Iloilo, Philippines: SEAFDEC Aquaculture Dept.
18. Espino, M., Eguiraun, H., Diaz de Cerio, O., Carrero, J. A., Etxebarria, N., & Martinez, I. (2021). Antioxidant activities and selenogene transcription in the European sea bass (*Dicentrarchus labrax*) liver depend, in a non-linear manner, on the Se/Hg molar ratio of the feeds. *Biological Trace Element Research*, 1-15. (Online first)
19. Estante-Superio, E. G., Santander-Avanceña, S. S., de la Peña, L. D., Garibay, E. S., Gardoce, R. S., & Dayrit, R. (2021). Growth performance, production and economic viability of Indian white shrimp (*Penaeus indicus* H. Milne Edwards) fed with varying dietary protein levels. *Aquaculture Research*. (Early view)
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24. Kuroda, H., Tanaka, T., Ito, S., & Setou, T. (2021). Numerical study of diurnal tidal currents on the Pacific shelf off the southern coast of Hokkaido, Japan. *Continental Shelf Research*, 230, 104568.
25. Leбата-Ramos, M. J. H. L., Biñas, J. B., Solis, E. F. D., & Balinas, V. T. (2021). Flakes versus noodles as feed for the abalone *Haliotis asinina*, does form matter?. *Aquaculture Nutrition*, 27(6), 1880-1887.
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