



**Establishment and Operation of a Regional System of  
Fisheries *Refugia* in the South China Sea and Gulf of Thailand**

## **REPORT**

# **ELUCIDATION FISHERIES REFUGIA CONCEPT AS BASIS FOR FISHERIES REFUGIA PROJECT PLANNING**

**JATILUHUR, INDONESIA**

**13 AUGUST 2019**

Prepared by

**THE AGENCY FOR MARINE AND FISHERIES RESEARCH  
AND HUMAN RESOURCES (AMFRHR)  
MINISTRY OF MARINE AFFAIRS AND FISHERIES  
REPUBLIC OF INDONESIA**

---

**SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER  
TRAINING DEPARTMENT**



First published in Phrasamutchedi, Samut Prakan, Thailand in August 2019 by the SEAFDEC-UNEP-GEF Fisheries Refugia Project, Training Department of the Southeast Asian Fisheries Development Center

Copyright © 2019, SEAFDEC-UNEP-GEF Fisheries *Refugia* Project

This publication may be reproduced in whole or in part and in any form for educational or non-profit purposes without special permission from the copyright holder provided acknowledgement of the source is made. The SEAFDEC-UNEP-GEF Fisheries *Refugia* Project would appreciate receiving a copy of any publication that uses this publication as a source.

No use of this publication may be made for resale or for any other commercial purpose without prior permission in writing from the SEAFDEC Secretary-General at.

Southeast Asian Fisheries Development Center  
Training Department  
P.O.Box 97, Phrasamutchedi, Samut Prakan, Thailand  
Tel: (66) 2 425 6100  
Fax: (66) 2 425 6110  
<https://fisheries-refugia.org> and  
<https://seafdec.or.th>

**DISCLAIMER:**

The contents of this report do not necessarily reflect the views and policies of the Southeast Asian Fisheries Development Center, the United Nations Environment Programme, and the Global Environment Facility.

For citation purposes this document may be cited as:

AMFRHR/Indonesia. 2019. Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Report of Elucidation Fisheries *Refugia* Concept as Basis for Fisheries *Refugia* Project Planning, Southeast Asian Fisheries Development Center, Training Department, Samut Prakan, Thailand; FR/REP/ID02, 4 p.

## 1. PREFACE

By the signing of an agreement between AMFRHR and SEAFDEC about SEAFDEC/UNEP/GEF Project entitled: "Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and The Gulf of Thailand", the initial effort has been conducted for project planning and implementation. In order to gain definition of fisheries refugia concept and make the same perception among project team, meeting was done in August 13<sup>th</sup>, 2019 in Jatiluhur, with Dr. Tony Ruchimat as an expert that explained refugia concept and history of the project. The meeting was attended by Head of Research Institute for Fish Resources Enhancement (RIFE), Agency for Marine and Fisheries Research and Human Resources- MMAF (Dr. Joni Haryadi) as National Focal Point in this Project and 10 researchers of RIFE.

## 2. MEETING NOTES

- a) In 2002-2008, several meeting to anticipate habitat degradation in the Water of the South China Sea and the Gulf of Thailand, UNEP/GEF together with 7 countries (Philippines, Indonesia, Cambodia, Malaysia, Vietnam, Thailand and China) carried out the Regional Project: " The UNEP / GEF SCS Project on Reversing Environmental Degradation Trends in the South China Sea and Gulf of Thailand.
- b) Fisheries refugia is a supporter/complementary to the concepts of management and conservation of fish resources that have developed so far. Implementation of this concept will produce an area that is geographically and spatially an important / critical area in an early life cycle of fish resources (early life cycle) as a fisheries refugia area.
- c) Fisheries refugia is not no take zone area, but it is an area that can be managed sustainably and at certain times must be closed (closed season) in the interests of recruitment and survival of certain fish resource species. Determination of this area is done through the results of early life cycle research of a particular species.
- d) The initial agreement on the refugia project will be carried out at 4 sites (Riau, Riau Islands, Babylon, and West Kalimantan) which because it is focused on WPP 711 so that it is reduced to Kep. Riau, Babylon, and West Kalimantan.
- e) Regional working groups on fisheries identify to increase the benefit cost ratio of fisheries communities and maximize sustainable use compared to fishing bans
- f) To support the application of refugia research results, it needs to be involved Dit. SDI, Dit. KKHL
- g) Refugia itself can be divided by type depending on the life phase e.g., juvenile refugia, spawning refugia, refugee larvae, and refugee recruitment.
- h) In fisheries refugia the role of the community is very important to accept the concept of refugia and location protection
- i) The determination of fisheries refugia requires scientific data on the life cycle and critical habitat of fish sepsis (spawning season, spawning ground, nursery ground, migration path)

**LIST OF PARTICIPANTS:**

NO.	NAME	POSITION
1.	Dr. Joni Haryadi D.	National Focal Point
2.	Tatok Priswanto, S.E	Research Institute for Fish Resources Enhancement (RIFRE)
3.	Prof. Dr. Krismono, MS	RIFRE
4.	Dra. Adiani Sri Nastiti., MS	RIFRE
5.	Astri Suryandari, S.Si., M.Si	RIFRE
6.	Indriatmoko, S.Kel	RIFRE
7.	Andika Luky SH, S.Pi	RIFRE
8.	Dimas Angga Hedianto, S.Pi	RIFRE
9.	Mujiyanto, S.St., M.Si	RIFRE
10.	Agus Arifin Sentosa, S.Pi	RIFRE

**Documentation**