



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

REPORT

**THE SECOND NATIONAL SCIENTIFIC AND TECHNICAL
COMMITTEE MEETING**

BOGOR, WEST JAVA, INDONESIA

17 MARCH 2021

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 June 2021 by the SEAFDEC-UNEP-GEF Fisheries Refugia Project, Training Department of the Southeast Asian Fisheries Development Center

Copyright © 2021, 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, 2021. Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Report of The Second National Scientific and Technical Committee Meeting. Southeast Asian Fisheries Development Center, Training Department, Samut Prakan, Thailand; FR/REP/ID20, 6 p.

1. DATE AND VENUE

The National Scientific and Technical Committee meeting was held on March 17, 2021, in Ammarossa room, Bogor, West Java, Indonesia.

2. CHAIRPERSON KEYNOTE

- 3.1 The meeting was chaired by Prof. Dr. Ngurah Wiadnyana as National Scientific Technical Focal Point (NSTFP) of the Fisheries Refugia Project.
- 3.2 The objective of the meeting is to discuss the result of the survey trip in Bangka Belitung and to synchronize and accelerate progress among research teams in both locations under the coordination of NSTFP (Prof. Ngurah Wiadnyana) by considering targeted output on the Fisheries Refugia Project.
- 3.3 The Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand is an initiative of the United Nations Environment Program (UNEP) and the Global Environment Facility (GEF) through the Southeast Asian Fisheries Development Center (SEAFDEC).
- 3.4 The Refugia project sites are Bangka Belitung and West Kalimantan, both are part of Fisheries Management Area (FMA) 711.
- 3.5 The species target of Fisheries Refugia in Bangka Belitung is squid and in West-Kalimantan is white shrimp, both of the species are a high-value commodity in Indonesia

3. DISCUSSION

- 3.1 The status of Refugia Project in Bangka Belitung, was presented by Dr. Amula Nurfiarini. The survey trip in Bangka Belitung were conducted in November 2020 and results of the survey are as followed:
 - The fishing area for squid are located in almost all part of Bangka Belitung sea. The fishing gears used to catch squid is squid jigging and lift net.
 - The spawning time of squid in Bangka Belitung occurred throughout the year with the peak season in May and November.
 - Based on data, most of the squid caught before they reach the maturity, even they were caught in juvenile stage. This condition will certainly threaten the recruitment process and the sustainability of squid stocks.
 - The critical habitat of also threatened by tin mining activity that is occurred in almost all part of Bangka Island.
 - The survey to observed critical habitat of squid were conducted in Tuing (Bangka Regency) and Lepar Pongok (South Bangka Regency).
 - Coral reefs are the preferred habitat for squid to attach their eggs and for juvenile rearing.
 - The Government of Bangka Belitung Province has proposed a conservation area in Tuing, located in Bangka Regency that was designated by the Decree of the Governor of Bangka Belitung Number 188.44/739/DKP/2018.
 - The institutional fishermen group has developed, so it is very supportive for the establishment and management of fisheries refugia.
- 3.2 Input from Senior Researcher and the participant of the meeting:
 - to accomplish the fisheries refugia concept, all the information related to the complete life cycle of the targeted species important.

- Consultations to identify key threats to fisheries refugia sites and identify management measures should be conducted in Bangka Belitung as well as West Kalimantan.
- The next observation should be focusing to assess impact of tin mining activity to squid's critical habitat condition in Tuing. It is very important to predict how big the impact of tin mining activities will be on the habitat of the squid and its stocks.
- To identify and map out spawning ground of squid in Bangka Belitung can be done through consultative and participatory meeting with fishermen.

3.3 The survey trip to West Kalimantan was not be able to be conducted in February 2021 due to restriction traveling during the pandemic. Actions taken to solve the problems are Optimizing desk study and conduct virtual meeting for coordination of project implementation;

- **List of participants**

No	Name	Sex	Title	Organization
1	Prof. Ngurah Wiadnyana	M	NSTFP	FRC
2	Astri Suryandari, S.Si.MSi	F	Researcher/ Fisheries Refugia Project Committee Coordinator	RIFE
3	Dr. Amula Nurfiarini	F	Survey coordinator for Bangka-Belitung	RIFE
4	Dr. Didik Wahyu	M	Researcher	RIFE
5	Dr. Khairul Amri	M	Researcher	RIMF
6	Dr. Reny Puspasari	F	Researcher	FRC
7	Dr. Rinny Rahmania	F	Researcher	MFM
8	Mr. Danu Wijaya	M	Researcher	RIFE
9	Mr. Riswanto	M	Researcher	RIFE
10	Mrs. Aira Zata	F	Administration staff/ Fisheries Refugia Project Committee	RIFE

- **Documentation**

