



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

REPORT

**NATIONAL SCIENTIFIC AND TECHNICAL COMMITTEE MEETING IN
CONJUNCTION WITH PRE-SURVEY MEETING FOR FISHERIES REFUGIA**

BOGOR, INDONESIA

18 AUGUST 2020

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 2020 by the SEAFDEC-UNEP-GEF Fisheries Refugia Project, Training Department of the Southeast Asian Fisheries Development Center

Copyright © 2020, 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, 2020. Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Report of National Scientific and Technical Committee Meeting in Conjunction with Pre-Survey Meeting for Fisheries Refugia. Southeast Asian Fisheries Development Center, Training Department, Samut Prakan, Thailand; FR/REP/ID15, 6 p.

1. OBJECTIVES

- 1.1. To discuss recent West Kalimantan and Bangka – Belitung Fisheries Refugia Profile Report and mapping the need of uncovered essential information that should be acquired by survey.
- 1.2. To discuss regarding the technical plan for conducting a research survey in both Fisheries Refugia Candidates by considering COVID-19 pandemic.
- 1.3. To synchronize and accelerate progress among research teams in both location under the coordination of NSTFP (Prof. Ngurah Wiadnyana) by considering targeted output on the Fisheries Refugia Project.

2. DATE AND VENUE

The meeting for NSTC meeting in conjunction with Pre-Survey Meeting was held on August 18, 2020, in Bogor.

3. PROCESS OF FACILITATION AND SUPPORT

The meeting for NSTC meeting in conjunction with Pre-Survey Meeting has been organized and facilitated by TIA by involving several researchers from Research Institute for Fisheries Enhancement (RIFE), Research Institute for Marine Fisheries (RIMF), Fisheries Research Centre (FRC) coordinated by NSTFP during the meeting. The budget used for the activity was provided by SEAFDEC/UNEP/GEF/Fisheries Refugia Project.

The meeting of the dissemination had processed following action program.

- 3.1. Welcomed by NSTFP (Prof. Ngurah Wiadnyana)
 - Scientific data and information will be the main attention in building fisheries refugia concept for fisheries refugia.
 - Research survey teams from both locations shall be aware by the additional administration for travel during the pandemic.
 - to accomplish the fisheries refugia concept, all the information related to the complete life cycle of the targeted species important.
- 3.2. Recent progress of the project explained by Mrs. Astri Suryandari (Fisheries Refugia Project Committee)
 - Designation of the Targeted species from both locations, e.g., White Shrimp (*F. merguensis*) and Squids (*Urotheutis sp.*)
 - Several areas in West Kalimantan were identified as a potential area for refugia of shrimps, this information was acquired from a survey conducted by the researcher of RIFE on 2015.
 - The recent condition of fisheries on Bangka-Belitung was mapped by desk study due to no primary information acquired before, thus, data acquisition on Bangka-Belitung was essential to conduct.
- 3.3. Survey plan for West Kalimantan explained by Mrs. Adriani S Nastiti (Survey coordinator)
 - Three locations to asses, i.e., Padang Tikar, Teluk Batang, Ketapang. However, due to the limited time for the survey will be focused on Padang Tikar.
 - Information will be acquired such as spawning ground, distribution area, inventory of used fishing gear by local fishermen, and local government response, using interview approach and ecological data measurement.

- For spawning ground identification, two adjacent locations (Teluk Nuri and Muara Kakap) were selected as a potential location to investigate.

3.4. Survey plan for Bangka-Belitung explained by Dr. Amula Nurfiarini (Survey coordinator)

- The information that will be acquired during the survey, e.g., identification essential habitat of squids, biological, population, and genetic aspect of squids, exploitation of squids, social and economic of local fisherfolk.
- The survey was expected to be conducted in September 2020.
- Squids have been becoming exploited fisheries commodity in Bangka-Belitung, open-close conservation area shall be an option in squids resource management.

3.5. Input for data acquisition during the survey by the Senior Researcher and the Audience of the meeting

- The information gap between recent data and missed data that should be acquired during the survey should be identified.
- The final achievement of scientific data information was expected to explain the refugia area and its estimated impact on fisheries production improvement.
- Squids fisheries in Bangka-Belitung could be conducted by evaluating the implementation of current conserved area efficiency and the development of other conservation areas based on an identified area of nursery and spawning.
- Most of the squids in the targeted area were captured by squid jigging by local fishermen, according to the recent information the squids fishing were spread in the large area of karimata strait.
- Squids' reproduction is essential information due to several references describing that squids were having unique spawning behavior. Squids were trying to closing the eggs' attachment media during their reproduction maturity processes.

4. CONCLUSION

Members of both survey teams will make more intensive communication for detail technical plan for survey meetings supported by Fisheries Refugia Project Committee in arranging a budget for the research survey. NSTFP has proposed a complete life cycle for both targeted species as the primary information targeted to acquire during the survey.

Annex 1: List of Participant attending National Scientific and Technical Committee Meeting in Conjunction with Pre-Survey Meeting for Fisheries Refugia

No	Name	Sex	Title	Organization	Contact Person
1	Prof. Ngurah Wiadnyana	M	NSTFP	FRC	628121106119
2	Mrs. Astri Suryandari	F	Researcher/ Fisheries Refugia Project Committee Coordinator	RIFE	628129981433
3	Dr. Amula Nurfiarini	F	Survey coordinator for Bangka-Belitung	RIFE	628128388056
4	Mrs. Adriani S Nastiti	F	Survey coordinator for West Kalimantan	RIFE	628122368718
5	Prof. Krismono	M	Researcher	RIFE	6281322338802
6	Dr. Didik Wahyu	M	Researcher	RIFE	628128403545
7	Mrs. Sri Endah P	F	Researcher	RIFE	6281382701065
8	Mr. Suwarso	M	Researcher	RIMF	6285216980875
9	Dr. Khairul Amri	M	Researcher	RIMF	6281294413405
10	Dr. Reny Puspasari	F	Researcher	FRC	6289618413951
11	Dr. Dian Oktaviani	F	Researcher	FRC	628129871974
12	Mrs. Sri Turni H	F	Researcher	FRC	628159967216
13	Mr. Andreas S Samu	M	Researcher	FRC	6285289370863
14	Mr. Danu Wijaya	M	Researcher	RIFE	6285664600800
15	Mr. Dimas A Hediando	M	Researcher	RIFE	6281314295776
16	Mr. Indriatmoko	M	Researcher/ Fisheries Refugia Project Committee	RIFE	6285727701940
17	Mrs. Aira Zata	F	Administration staff/ Fisheries Refugia Project Committee	RIFE	6282221505465
18	Ms. Della Fauzia	F	Administration staff/ Fisheries Refugia Project Committee	RIFE	6285721800566
19.	Hisom	M	driver	RIFE	
20.	Gusman	M	driver	RIFE	

Annex 2: Documentation of National Scientific and Technical Committee Meeting in Conjunction with Pre-Survey Meeting for Fisheries Refugia

