



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

REPORT ON
FISHERIES REFUGIA ENFORCEMENT PROGRAM: SOCIALIZATION
ON ESTABLISHING FISHERIES REFUGIA OF PENAEID SHRIMP IN
WEST KALIMANTAN

Pontianak,
September 14th 2022

Prepared by:

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SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
TRAINING DEPARTMENT



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THE OBJECTIVE OF THE MEETING

This meeting aimed to socialize establishment fisheries refugia of Penaeid shrimp in West Kalimantan for its sustainability. This meeting is expected to enhance stakeholders' understanding of fisheries refugia and to gain support from related stakeholders in implementing fisheries refugia of Penaeid shrimp in West Kalimantan Province.

VENUE AND TIME OF THE MEETING

The meeting was held at the Golden Tulip Hotel, Pontianak City-West Kalimantan, on September 14th, 2022.

MEETING NOTES

1. The agenda for this meeting include the following:
 - Report from National Focal Point of fisheries refugia project in Indonesia, Ms. Iswari Ratna Astuti
 - Welcoming Speech from the Head of Marine and Fishery Agency of West Kalimantan Province, Ms. Herti Herawati
 - Briefing and opening speech from the Head of the Center for Fisheries research as the chair of NSTC of Indonesia, Ms. Yayan Hikmayani
 - Submission of academic manuscripts for fisheries refugia of Penaeid shrimp in West Kalimantan
 - Explanation of fisheries refugia project activities by NSTFP Indonesia, Ms. Astri Suryandari
 - Socialization on Fisheries Refugia of Penaeid Shrimp in West Kalimantan Province by Principle Investigator of West Kalimantan, Dra. Adriani Sri Nastiti, M.S.
 - Discussion
2. About 39 participants attended this meeting, and about 28% are females (Figure 1). The meeting participants are stakeholders from the central government, local government, village governance, fisherman representatives, universities, and research institutions (Annex 1).

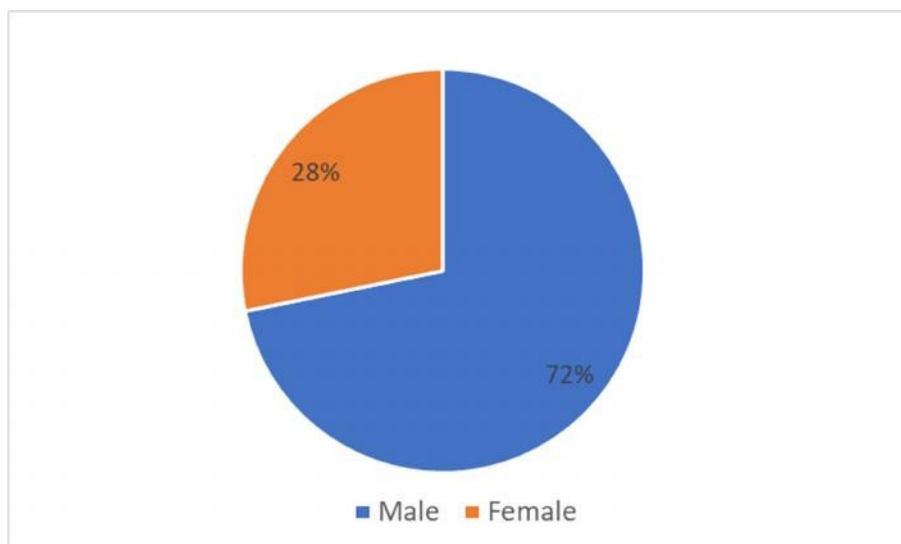


Figure 1. Male and Female participation in the meeting

3. Iswari Ratna Astuti (NFP fisheries refugia project) appreciated the team for their hard work in implementing fisheries refugia activities and completing the fisheries refugia management document as part of the output of refugia fisheries activities in Indonesia.
4. Herti Herawati (Head of the Marine and Fisheries Agency of West Kalimantan Province) welcomed this meeting. Some points from her speech:
 - The decline in shrimp populations in West Kalimantan is noticeably from the decline in shrimp catches in recent years.
 - The result shows that every shrimp life cycle is important and needs to be considered in its management.
 - The results of this activity can also be implemented to support the management of existing conservation areas.
 - Support from stakeholders is needed because of limited human resources and funds.
 - The local government, in this case, the marine and fisheries agency of West Kalimantan, does not provide recommendations for licensing destructive activities such as mining activities.
 - She also raised the challenge of the low community awareness of the importance of regulating fishing activities because there are no other livelihood options other than fishermen during the recommended closing time and fishing location.
5. Yayan Hikmayani (The chair of NSTC Indonesia) emphasized that the fisheries refugia concept is one of the supports in the existing management and conservation plan. The document of fisheries refugia management can be included in the draft legislation at the provincial and national levels, can be implemented in West Kalimantan, and can be adapted in other locations with similar characteristics.
6. Astri Suryandari (NST Focal Point) explained that fisheries refugia activities in Indonesia are carried out in two priority locations for two species, one of which is Penaeid shrimp in West Kalimantan. She also stated how important it is to manage shrimp resources and their habitat. Refugia fisheries activities produce several outputs: the profile of the refugia area, management plans, and guidelines; those documents are then communicated and coordinated with stakeholders to implement optimally.
7. Adriani Sri Nastiti (PI of Penaeid shrimp refugia activity in West Kalimantan) presented the Fisheries Refugia of Penaeid Shrimp, which consists of:
 - Background of the fisheries refugia activities implementation in West Kalimantan Province,
 - Profile of Penaeid Shrimp Refugia, including indicated nursery, migration, and spawning habitats of penaeid shrimp, community social conditions, Penaeid Shrimp resource issues and problems, stakeholders involved, and the delineation of Penaeid Shrimp refugia areas.
 - Recommendations and management plans consist of controlling fishing efforts, managing shrimp habitat, strengthening local wisdom, strengthening institutions, regulating marine space utilization permits, surveillance plans, also monitoring and evaluation.
 - Action plan for fisheries refugia management of penaeid shrimp in West Kalimantan
8. Discussion
 - In general, the participants welcomed the implementation and establishment of Penaeid shrimp refugia in West Kalimantan.
 - Several recommendations were suggested from this meeting:

- o It is necessary to provide signs indicating the boundaries of the fisheries refugia area,
- o For rearrangement of passive fishing gear such as tidal trap (jermal), a carrying capacity study will be carried out,
- o Surveillance authority will be given to the district government with the MoU as legal protection.
- o Local wisdom must be strengthened because the local community is more intense in conducting surveillance than government elements. Village regulations can also be created, which are also recognized by the state.
- o It is necessary to empower local communities by conducting education and skills training

Annex 1. List of Participants

No	Name	Gender	Institution
1	Iswari Ratna A	F	Research Institute for Fish Resource Enhancement
2	Yayan Hikmayani	F	Center for Fisheries Research
3	Alza Rendian	M	Bureau for Public Relation and Foreign Cooperation
4	Herti Herawati	F	Marine and Fisheries Agency of West Kalimantan Province
5	Nendar S	M	Fisheries Agency of Kayong Utara
6	Toni Ruchimat	M	Ministry of marine Affairs and Fisheries of the Republic of Indonesia
7	Budi sanjaya	M	Development Planning Agency at Sub-National Level of West Kalimantan
8	Heri Purwanto	M	Marine and Fisheries Agency of West Kalimantan Province
9	D. Endi	M	Marine and Fisheries Agency of West Kalimantan Province
10	Mohd. Fahmiyuzar	M	Fisheries Agency of Kubu Raya District
11	Neis Zulaika	F	Fisheries Agency of Kayong Utara
12	Uti Anwar	M	Fisheries Agency of Ketapang
13	Bonis Andrei	M	Ministry of marine Affairs and Fisheries of the Republic of Indonesia
14	Nanang W	M	Research Institute for Fish Resource Enhancement
15	Erli	M	Marine and Fisheries Agency of West Kalimantan Province
16	M. Ghandi	M	Marine and Fisheries Agency of West Kalimantan Province
17	Kasrin	M	Association of Indonesian Fisherman of Kayong Utara
18	Deni Jepredi	M	Association of Indonesian Fisherman of Kubu Raya
19	Yussarman	M	Joint Business Group of Dusun Besar Village
20	Kusnadi	M	Joint Business Group of Padang Tikar Village
21	Muhardani	M	Joint Business Group of Suka Bangun Village
22	Maman firmansyah	M	Village Government of Dusun Besar
23	Zainal abidin	M	Village Government of Padang Tikar 2

24	Harun	M	Village Government of Suka Bangun
25	Mustamin	M	Fishery Supervisory Community Group of Dusun Besar
26	Aryansyah	M	Fishery Supervisory Community Group of Padang Tikar
27	Pabilah	M	Fishery Supervisory Community Group of Suka Bangun
28	Arie Antasari Kushadiwijayanto	M	Tanjung Pura University
29	Endang Sugiarti, S.St.Pi.	F	Marine and Fisheries Agency of West Kalimantan Province
30	Rahmawati, S.Pi.	F	Marine and Fisheries Agency of West Kalimantan Province
31	Dyah Ika Kusumaningtyas, S.Si.	F	Research Institute for Fish Resource Enhancement
32	Aris Budiarto, S.Pi., M.Si.	M	Ministry of marine Affairs and Fisheries of the Republic of Indonesia
33	Dra. Adriani Sri Nastiti, M.S.	F	National Research and Innovation Agency
34	Masayu Rahmia Anwar Putri, S.Si., M.Si.	F	National Research and Innovation Agency
35	Astri Suryandari, M.Si.	F	Research Institute for Fish Resource Enhancement
36	Santoso Dwi Atmojo	M	Research Institute for Fish Resource Enhancement
37	Aira Zata Ismah, S.Kel.	F	Fisheries Refugia Project
38	M. Frudy Eko	M	Politeknik Negeri Pontianak
39	Agus S	M	Politeknik Negeri Pontianak

Annex 2. Meeting Documentations





