







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

Report

PUBLIC AWARENESS MATERIALS FOR ENHANCING ABOUT FISHERIES REFUGIA



Prepared by:

Research Institute for Fish Resource Enhancement (RIFE)
Agency of Marine and Fisheries Research and Human Resources (AMFRHR)
Ministry of Marine Affairs and Fisheries (MMAF)







First published in Phrasamutchedi, Samut Prakan, Thailand in December 2022 by the SEAFDEC-UNEP-GEF Fisheries Refugia Project, Training Department of the Southeast Asian Fisheries Development Center.

Copyright © 2022, 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 acknowledgment of the source is made. The SEAFDEC-UNEP-GEF Fisheries *Refugia* Project would appreciate receiving a copy of any publication that uses this 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.

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, 2022. Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Public Awareness Material For Enhancing Public Information About Fisheries Refugia In Indonesia. Southeast Asian Fisheries Development Center, Training Department, Samut Prakan, Thailand; FR/REP/ID68, 9 p.

PUBLIC AWARENESS MATERIAL FOR ENHANCING PUBLIC INFORMATION ABOUT FISHERIES REFUGIA IN INDONESIA

Refugia fisheries is a new approach to fisheries management that integrates fish stocks and critical habitat management. The term 'fishery refugia' is new for most fisheries stakeholders and managers in Indonesia. Therefore, there is a need to inform and educate the public about fisheries refugia for fish stock sustainability through various material for instance leaflet, poster and booklet. Leaflet and poster have been developed during the project in Indonesia are:

1. **Leaflet**: "Fisheries Refugia bagi Pengelolaan Sumber Daya Cumi-cumi (Uroteuthis chinensis) Berkelanjutan di Provinsi Kep. Bangka Belitung" (Fisheries Refugia for Sustainable Fisheries Management of Squid Resource (Uroteuthis chinensis) in Bangka Belitung Province).

Leaflet provide information about : (1) Introduction of SEAFDEC/UNEP/GEF Project on Establishing and Operation of a Regional System of Fisheries Refugia in the South China Sea and the Gulf of Thailand; (2) definition of fisheries refugia (3) squid (*Uroteuthis chinensis*) in Bangka water; (4) the proposed of fisheries refugia around Tuing Village, Bangka District.

Leaflets were distributed to personnel from Marine and Fisheries Agency of Bangka Belitung Province and Bangka District, the mining sector (PT Timah), Regional Development Planning Agency of Banga Belitung Province, fishing communities, and squid industry during the coordination meeting on November 12, 2021. Leaflet could be access online at the link: http://fisheries-refugia-indonesia.org/index.php/awareness.



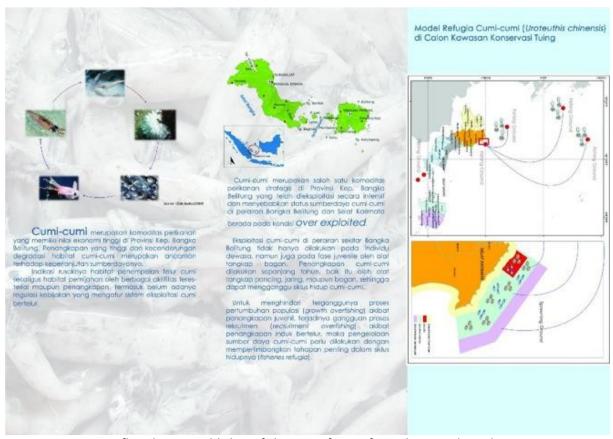


Figure 1. Leaflet about establishing fisheries refugia of squid in Bangka Belitung Province

2. **Booklet** "Refugia Perikanan Udang Penaeid untuk Pengelolaan Perikanan di Kalimantan Barat" (Fisheries Refugia Penaeid Shrimp for Fisheries Management in West Kalimantan Province).

The booklet provides information about: (1) definition of fisheries refugia; (2) West Kalimantan fisheries profile, problem and issue in fisheries in West Kalimantan, especially in shrimp fisheries, (3) Penaeid shrimp life cycle; (4) Proposed of fisheries refugia area in West Kalimantan; (5) Management plan of fisheries refugia in West Kalimantan. (: http://fisheries-refugia-indonesia.org/index.php/awareness).

The booklets were distributed during the meeting to personnel from Marine and Fisheries Agency of West Kalimantan Province, Fisheries Department of Kubu Raya District, Regional Development Planning Agency of West Kalimantan Province, fishers, community leaders, dan monitoring community group.



Figure 2. Booklet regarding fisheries refugia for Penaeid shrimp in Kalimantan Province

Booklet "Refugia Perikanan Cumi-Cumi (Uroteuthis chinensis) di Perairan Bangka, provinsi Bangka Belitung (Fisheries Refugia for Squid Uroteuthis chinensis in Bangka water, Bangka Belitung Province).

Some information in the booklet are (1) fisheries refugia definition; (2) the SEAFDEC/UNEP/GEF Fisheries Refugia Project in Indonesia; Fisheries profile and status in Bangka Belitung Province; (3) Proposed refugia area in Bangka; Recommendation for management measures in refugia site. The booklet is accessible online in http://fisheries-refugia-indonesia.org/index.php/awareness.

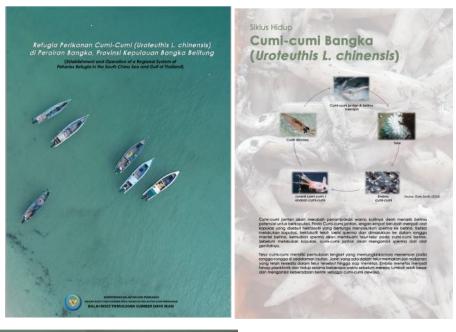




Figure 2. Booklet : Fisheries refugia for squid (*Uroteuthis chinensis*) in Bangka water, Bangka Belitung Province.

3. Poster: "Fisheries Refugia di Indonesia"

Posters was published dan disseminated on August 2022 to give information about establishing fisheries refugia in Indonesia. The poster provides information about SEAFDEC/UNEP/GEF Project of Establishing and Operation of a Regional System of Fisheries Refugia in the South China Sea and the Gulf of Thailand, site, and species target for refugia in Indonesia, fisheries refugia definition, proposed management measures, and proposed refugia area in West Kalimantan Province and Bangka Belitung Province.

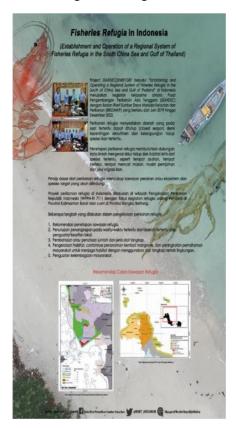


Figure 3. Poster of Fisheries Refugia in Indonesia

Poster: "Proposed Area of Fisheries Refugia for Penaeid Shrimp in West Kalimantan Province

Poster provides information about the proposed area refugia area in Padang Tikar, Teluk Batang and Delta Pawan (West Kalimantan Province). The proposed area located next to conservation area that has been formally designated by the Ministry of Marine Affairs and Fisheries in 2020. Poster was published and disseminated to Marine and Fisheries Agency of West Kalimantan Province as the authority of provincial marine management, Fisheries Agency of Kubu Raya District, Marine and Fisheries Agency of Kayong Utara District and Ketapang District during the meeting in Pontianak 14 September 2022. The poster also published online at the Indonesia fisheries refugia website (http://fisheries-refugia-indonesia.org/index.php/awareness).

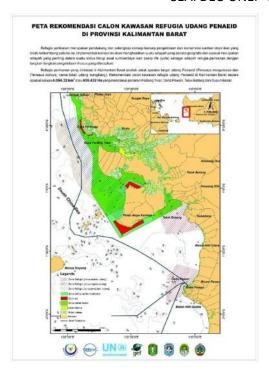


Figure 4. Poster of proposed area for Fisheries Refugia in West Kalimantan Province



Figure 5. Disemination poster about "The Proposed Area of Fisheries Refugia in West Kalimantan Province" to Marine and Fisheries Agency of West Kalimantan Province

4. Presentation Slide

The presentation about fisheries refugia for fisheries sustainable management in Indonesia was

presented in the Focus Group Discussion for establishing fisheries refugia in West Kalimantan which is held in online platform in 16 – 17 February 2021. All presentations in this event are available in http://fisheries-refugia-indonesia.org/index.php/awareness.



