



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

REPORT

**SITE-BASED FISHERIES REFUGIA MANAGMENT BOARD
MEETING: PROVINCE OF BANGKA BELITUNG ISLANDS**

HYBRID MEETING,
AUGUST 15TH 2022

Prepared by:

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**SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
TRAINING DEPARTMENT**



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THE OBJECTIVE OF THE MEETING

The purpose of the meeting was to present the evaluation results of the fishing refugia as a draft of academic manuscripts and to discuss the technical plan prior to delivering the scientific manuscripts to the local government of Bangka Belitung Islands Province.

MEETING NOTES

1. Welcome Speech from The Head of Research Institute for Fish Resource Enhancement/RIFRE as Implementing Unit of Fisheries Refugia Project (Ir. Iswari Ratna Astuti)

Mrs. Iswari welcomed all participants and informed all meeting several agendas that will be discussed in this meeting,

- Fisheries refugia activities progress in Bangka Belitung Islands Province
- Preparation of management plan document to be proposed to the authorized government institutions
- Planning for the socialization meeting to announce the study results to Bangka Belitung Province.
- Planning an offline meeting for the preparation of the academic manuscript.

2. Presentations

a. Presentation by National Scientific and Technical Focal Point (Astri Suryandari, S.Si., M.Si)

- Mrs. Astri delivered the targeted output of the fisheries refuge activities. Outputs of this activity include fisheries protection profiles, management plans, national guidelines, databases, publications, and stakeholder coordination.
- She emphasized that fishery refugia-based management integrates fish resources and their habitats. Each location has different species and habitats, then the fisheries management is customized with the selected species and locations.

b. Presentation by PIC of Fisheries Refugia Project in Province of Bangka Belitung Islands (Dr. Amula Nurfiarini)

Some important points in her presentation are:

- The squid resource and habitat assessment were conducted at squid fishing centers around Bangka Regency Waters, particularly in Tuing waters. Tuing waters were reserved as a conservation area under the governor's decree of Bangka Belitung Islands No. 188.44/739/DKP/2018 on September 27th, 2018. Here, we have studied the squid's life cycle, habitat typology, and socio-economic status.
- Fisheries refugia activities focused on FMA 711, where the waters of Bangka Belitung are part of FMA 711. Various issues threaten the sustainability of squid resources, such as sedimentation, physical damage to coral reefs, use of non-selective fishing gear, and overfishing at juvenile or mature stages.
- Critical squid habitats include spawning, egg-laying, and nursery habitats. The recommended refugia area is 1,527,097.93 ha as critical habitat for squids.

3. Discussion

- Mrs. Astri (NSTC Focal Point) expressed her hope that the Bangka Belitung local government can follow up on the result of the study and then adopt the fisheries refugia concept for squid resources management in Bangka.
- Mr. Wawan (Departement of Marine Affairs and Fisheries of Bangka Belitung Islands Province) clarified that the Governor's Decree in 2018 decided on the Tuing Waters as a reservation area, and one of the target species to preserve is Squid. The problem of overlapping the mines zone with the conservation zone has been revised by removing the mining zone from the conservation zone. The reservations actions were not only proposed for the Bangka squid fisheries reserve but also coral reefs. So the target type of marine conservation area in Tuing is to become marine tourism park not Fish Sanctuary. This year, a proposal was made for establishing the Tuing marine tourism park, Bangka Regency. The space allocation is around 7000 ha.
- Mr. Fhores Ferado (Marine Affairs and Fisheries Department of Bangka Belitung Islands Province) pointed out that the management of the Tuing Waters is not only by establishing a conservation area but also supported by the capture fisheries and the surveillance sectors. The sector of capture fisheries will coordinate the time and fishing location. For the surveillance sector, it is necessary to monitor fishers' technology; some fishers use technology that violates the established rules, such as lamps with large watts. Local fishers who use stationary lift nets (*bagan tancap*) also need to be educated regarding small-size squid releases. He also informed that squids have also been found in Central Bangka and South Bangka (Lepar Pongok) in addition to Tuing Waters.
- Mr. Khairul Amri (National Research and Innovation Agency) stated the recommended refugia area may be accepted by the local government. In order to be adopted as local regulation, further coordination is required.
- Dr. Amula (PIC of FR in Bangka Belitung) stated that the results of this study could be references in the determination of the marine tourism area.
- Mr. Arif (Marine Affairs and Fisheries Department of Bangka Belitung Islands Province) said that the information from the study results is very important to harmonize. He said that the government has to encourage the implementation of the assessment result. The regulation draft is expected not only for the Bangka region but also possible to be replicated for Belitung Island. He asked for further research on fisheries refugia for the Belitung area so that comprehensive squid refugia fisheries management in Bangka Belitung Province can be achieved.
- Mrs. Amula (PIC of Fisheries Refugia Project in the Province of Bangka Belitung Islands) explained that ideally both Bangka and Belitung areas should be included in this activity. As basic data, the study conducted is quite traceable to support policy regulations. Indicators in the management of refugia fisheries can be used in other waters, but specific key indicators will be determined by further research.
- Mrs. Astri (NSTC Focal Point) said the study on Belitung Island could be followed up with further research.

- Mr. Ichsana (Marine Affairs and Fisheries Department of Bangka Belitung Islands Province) pointed out that there had been a lot of investment in squid fisheries in South Bangka. In southern Bangka, squid production is higher than in Tuung Waters. The spearhead of squid production data is in the fishing port. Squid fisheries in Bangka and Belitung have their characteristics. Fishery research activities are still limited in preparing zoning plans for coastal areas and small islands. National interests, such as the mining sector, are prioritized. Efforts to communicate with the mining sector have often been carried out; for example, it is discussed that there is a time limit for mining (when it is not used for mining, it is used for the fisheries sector), and the application of mining technology that does not damage the environment (still constrained by relatively high costs). Tin mining is not carried out beyond 12 miles because the operational costs will be high. The Belitung Island area is mostly set as a conservation area, so the mining areas do not exist.
- Ms. Ratna (Head of RIFE) appreciated the team conducting the study and will follow up on the inputs from this meeting. The next meeting coordination for discussing public consultation and academic manuscript handover will be held around August 26th, 2022, in Jakarta.

LIST OF PARTICIPANTS

Name	Gender	Institution/ Position	Email
Dyah Ika, Kusumaningtyas	Female	Balai Riset Pemulihan Sumber Daya Ikan	dyahikatyas@gmail.com
Amula, N	Female	BRPSDI	
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Aira Zata	Female	fisheries refugia project	

MEETING DOCUMENTATION

The screenshot shows a Zoom meeting interface. The main content is a PowerPoint slide titled "Output/Indikator Keberhasilan". The slide contains a table with three columns: "Komponen", "Indikator", and "Output".

Komponen	Indikator	Output
Component 1: Identifikasi dan pengelolaan perikanan dan habitat kritis pada dua lokasi prioritas fisheries refugia di Indonesia	Status penetapan, rencana pengelolaan dan keterlibatan masyarakat dalam pengelolaan fisheries refugia.	<ul style="list-style-type: none"> Profil fisheries refugia, rencana pengelolaan fisheries refugia laporan tahunan implementasi kegiatan laporan triwulan jejaring pengelolaan kawasan refugia, program peningkatan kesadaran masy dim pengelolaan refugia.
Component 2: Memperbaiki pengelolaan habitat kritis stok ikan melalui aksi nasional untuk memperkuat lingkungan pendukung dan basis pengetahuan untuk pengelolaan fisheries refugia di Indonesia.	Status lingkungan pendukung dalam pengelolaan fisheries refugia termasuk perubahan perilaku nelayan skala kecil pada lokasi prioritas refugia serta tingkat penggunaan informasi lingkungan dan sosial budaya dalam penyusunan kebijakan pengelolaan	<ul style="list-style-type: none"> Review dan rekomendasi peraturan tentang praktek perikanan yang bertanggung jawab di lokasi refugia. pedoman nasional tentang pembuatan dan pengelolaan fisheries refugia,

The Zoom interface includes a top bar with "Recording" and "You are viewing BRPSDI_Astri Suryandari's screen". The bottom bar shows "Unmute", "Start Video", "Participants" (19), "Chat" (2), "Share Screen", "Record", "Reactions", "Apps", and a "Leave" button.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide with the following text:

**DRAFT NASKAH AKADEMIK
REFUGIA PERIKANAN CUMI BANGKA (*Uroteuthis (L) chinensis*)
DI PERAIRAN BANGKA BELITUNG**

TIM REFUGIA SITE BABEL
email: bnp@refugia.com, bnp@refugia.com@gmail.com

Disampaikan pada pertemuan the finalisasi untuk
Draft Naskah Akademik Refugia
tanggal: 14 Agustus 2022

BALAI RISET PEMULIHAN SUMBER DAYA IKAN
PUSAT RISET PERIKANAN
BADAN RISET DAN SUMBER SDA MAMPUA KELAUTAN DAN PERIKANAN
KEMENTERIAN KELAUTAN DAN PERIKANAN

The slide also features several images of fishing boats and fish. The Zoom interface includes a top bar with 'Zoom Meeting', 'Recording', and 'View Options'. A right-hand sidebar shows a list of participants, including Masayu Rahmia, Iswari Ratna, Amula Nurfiarini, Dyah Ika Kusum, BRPSDI Astri Su, Dyah Ika Kusumaningtya, BRPSDI Astri Suryandari, DKP Babel Waw, Fisheries Refugi, DKP Babel Wawan Ridwan, Fisheries Refugia Project, Arief Febrianto, Khairul Amri-PR, and Arief Febrianto - DKP BA. The bottom bar shows controls for Unmute, Start Video, Participants (20), Chat, Share Screen, Record, Reactions, Apps, and a Leave button.

The screenshot shows a Zoom meeting in gallery view. The top bar indicates 'Zoom Meeting', 'Recording...', and 'View'. The main area is a grid of 16 video thumbnails. The thumbnails are arranged in a 4x4 grid. The participants are:

- Row 1: DKP Babel_Fhores Fherado, Fisheries Refugi..., Dyah Ika Kusumaningtyas_BRPSDI, DKP Babel_Wawan Ridwan, Khairul Amri-PR Perikanan BRIN
- Row 2: Masayu Rahmia Anwar Putri, danu wijaya, Edita Eka Prasetya, Iswari Ratna, BRPSDI Astri Suryandari
- Row 3: Amula Nurfiarini, riswanto_brpsdi, Bid.Tangkap Dinperkan Bangka-B..., Dinperkan Bangka, DKP BABEL
- Row 4: Ichsan DKP Babel, Murdiansyah Ic..., DKP BABEL

The bottom bar shows controls for Unmute, Start Video, Security, Participants (18), Chat, Share Screen, Pause/Stop Recording, Breakout Rooms, Reactions, Apps, Whiteboards, More, and End. The system tray at the bottom shows the date and time as 12:06 on 15/08/2022.