

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

### **REPORT**

# FISHERIES REFUGIA SITE MANAGEMENT COMMITTEE MEETING CRIS DEL MAR RESORT, BOLINAO, PANGASINAN

September 7, 2022

Prepared by

NATIONAL FISHERIES RESEARCH AND DEVELOPMENT INSTITUTE

PHILIPPINES





**Environment Programme** 



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#### MEETING MINUTES

#### **MEMBERS**

Present: Local Government Unit (LGU)

Mayor - Hon. Alfonso Celeste (represented by

Ms. Blesilda Domagas)

Vice Mayor - Hon. Richard Celeste (Vice Chairperson)
SB Office - Represented by Ms. Julia Mare Retotal
SB - Hon. Cyrus Rommel D. Evangelista

(Member)

(represented by Mr. Ritchie Rich Villareal)

Administrator - Ms. Blesilda R. Domagas (Member)

Municipal Agriculture Office (MAO) - Ms. Irene E. Calado (Member)

(represented by Mr. Florante P. Garcia)

BFAR 1 Regional Office - Ms. Segundina Gaerlan (Member)
Philippine Coast Guard (PCG) - PO2 Honey L. Twingan (Member)

(represented by Mr. Michael Angelo Bora)

CENRO - Mr. Chester O. Casil (Member)

(represented by Ms. Judy Ann C. Sanchez)

Municipal Fisheries and Aquatic - Mr. Jesem S. Gabatin (Member)

Resources Management Council (MFARMC)

Academe (Bolinao School of Fisheries) - Mr. Ronald Celino

(represented by Mr. Miguelito F. Gomez)

Academe (UP-MSI) - Dr. Ma. Josefa R. Pante (Member)

(represented by Mr. Julio M. Curiano)

People organization Representative - Ms. Annabelle S. Echavez (Member)
LnB Pres. Coastal Brgy. Representative - Hon. Josefino Celeste (Member)

Absent: Mr. Andres B. Carranza, Sr. – MPDC

Guests: Ms. Jean N. Natividad BFAR-RFO1

Ms. Alice Mae R. Tabarejos LGU Bolinao

Mr. Ryan Bolasoc Member, PCG Bolinao
Mr. Jerry E Valenzuela DENR-CENRO, Alaminos
Mr. Genesis Sison DENR-CENRO, Alaminos
Mr. Kevin G. Lingaling DENR-CENRO, Alaminos

National Scientific and Technical Focal Person - Mr. Valeriano M. Borja Secretariat: Mr. John Eliezer Pendre - Science Research Analyst

## 1. CALL TO ORDER AND DETERMINATION OF QUOROM

The chairperson of the committee, Hon. Alfonso D. Celeste, was represented by the Municipal Administrator, Ms. Blesilda Domagas. Ms. Domagas presided the 3rd quarter meeting of the refugia site management committee. Having determined the quorum, the meeting was called to order at 9:16 AM.

#### 2. INTRODUCTION

The municipal administrator welcomed and acknowledged the participants of the meeting. Ms. Domagas thanked the committee for their participation in the meeting as their comments and suggestions will be of valuable input in the meeting discussion.

#### 3. ADOPTION OF THE PROVISIONAL AGENDA

Ms. Domagas presented the provisional agenda for the approval and adoption of the meeting. The provisional agenda was approved and adopted without any revision/additional topic concern to be discussed by the meeting. (Annex 1). Ms. Anabelle Echavez motioned for the approval of the agenda, seconded by the Municipal Agriculturist, Ms. Irene Calado.

#### 4. APPROVAL OF THE MINUTES OF THE PREVIOUS MEETING

Ms. Domagas presented the minutes of the previous meeting to the committee members. She presented the minutes of the meeting line by line for the understanding and approval of the committee.

#### 5. MATTERS ARISING FROM THE PREVIOUS MEETING

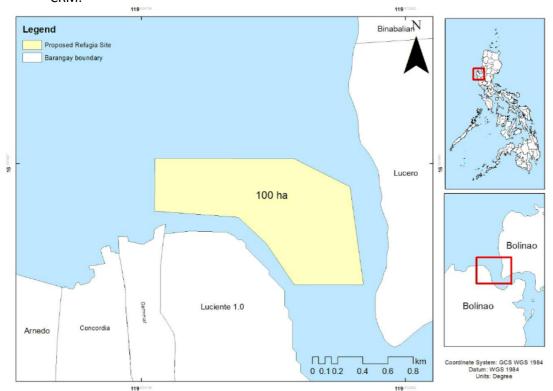
#### a. Bolinao Fisheries Refugia Site Management Plan

The draft management plan was presented to the members. The LGU requested for a copy of the draft plan for them to review prior to the final presentation. The draft plan included the existing policies and ordinances in the municipality, and it will also include the CRM plan of Bolinao for CY 2023.

b. <u>Fish Eggs and Larvae Results (2018-2019)</u> and <u>Fisheries Refugia Site Boundary Delineation</u>
Based on the previous meeting, the committee agreed to revise the map since most of the barangays were not correctly placed in its actual locations. The project team noted the corrections and suggestions by the committee.

#### 6. REVISED REFUGIA SITE BOUNDARY DELINEATION

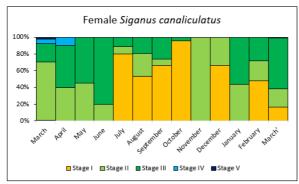
The boundary delineation of the fisheries refugia in Bolinao site was revised and presented to the committee members. The committee approved the revised site and suggested that the list of coordinates to be submitted to the office of the municipal agriculturist for recording. Ms. Echavez also requested a copy for the record filing of the CRM.

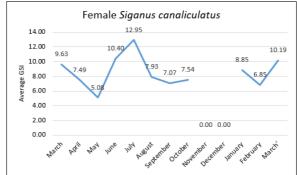


## 7. RESULTS OF THE REPRODUCTIVE BIOLOGY OF PRIORITY SPECIES IN BOLINAO (2021-2022)

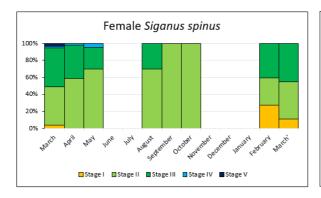
The results of the reproductive biology sampling for Bolinao site was presented in the meeting by Mr. John Eliezer Pendre, Science Research Analyst. The committee agreed to have Siganus spp. as the priority species in the site and among which were Siganus canaliculatus (white-spotted spine foot) and Siganus spinus (little spinefoot) as the dominant species sampled in the municipality.

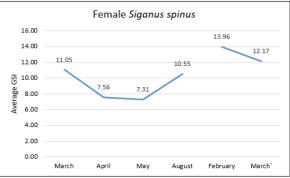
For *S. canaliculatus*, the data showed that majority of samples were classified as immature, at early maturation and maturing specimens (stage I, II and III). In March and April, both matured and spawning individuals (stage IV and V) were recorded. Only gonads from Stages III and IV specimen were presented to determine the GSI value for the *S. canaliculatus*. Months with the highest peak in the GSI values indicate the spawning season of the fish species. The GSI values in June and July were unreliable since the number of specimen collected was insufficient. For the months of November and December, the GSI values cannot be determined because there was no stage III and IV specimen recorded. However, results showed that the ovarian GSI values increased in March (9.63%) for year 2021, and February (6.85%), peaking in March (10.19%) for year 2022.





For *S. spinus*, gonad maturity of *Siganus spinus* showed that majority of samples were at early maturation and maturing stages (II and III). Matured and spawning individuals were recorded in March and April 2021. Gonads from stages III and IV specimen were also used to determine the GSI values for the *S. spinus*. Results showed that the ovarian GSI peaked in March 2021 (11.05%) and February 2022 (13.96%). The figure showed most of the months have insufficient data.





## 8. Other Matters/Next Steps

The committee requested for a copy of the draft national plan of action. A copy of the final national guidelines was forwarded through email to the office of the municipal administrator.

## 9. Closing Statements

Director Gaerlan thanked the project team for extending this research initiatives that could help promote the conservation of the "padas" which is a source of livelihood in the municipality. The LGU also gave their appreciation to the refugia project for the baseline data which could help improve the existing ordinance regarding the spawning and nursery site of the *Siganus* spp. in Bolinao.

## PHOTO DOCUMENTATION:

