



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

**REPORT**

**FISHERIES REFUGIA STAKEHOLDERS  
CONSULTATION WORKSHOP IN ZAMBALES**

**ZAMBALES, PHILIPPINES  
14-16 AUGUST 2019**

Prepared by  
**NATIONAL FISHERIES RESEARCH AND DEVELOPMENT INSTITUTE  
PHILIPPINES**

---

SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER  
TRAINING DEPARTMENT



First published in Phrasamutchedi, Samut Prakan, Thailand in August 2019 by the SEAFDEC-UNEP-GEF Fisheries Refugia Project, Training Department of the Southeast Asian Fisheries Development Center

Copyright © 2019, 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:

NFRDI/Philippines, 2019. Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Report of Fisheries Refugia Stakeholders Consultation Workshop in Masinloc, Zambales. Southeast Asian Fisheries Development Center, Training Department, Samut Prakan, Thailand; FR/REP/PH35, 8 p.

**HIGHLIGHT ACTIVITIES:**

- 1) A total of 45 participants from the different agencies in Masinloc such as Bureau of Fisheries and Aquatic Resources – Provincial Fisheries Office (BFAR- PFO), Community Environment and Natural Resource Office (CENRO) and Municipal Environment and Natural Resource Offices (MENRO) attended the Fisheries Refugia Stakeholders’ Consultation Workshop last July August 13-16, 2019 at DFARM Park Inc., Masinloc, Zambales.
- 2) During the first day of the workshop, a short briefing regarding the accomplishments and updates of Fisheries Refugia Project was presented. The first workshop on identification of threats to Fisheries Refugia Site and Identification Management Measures was given by a Fishery Expert, Mr. Noel Barut, whom also was the Resource Person in the activity. The threats and issues to Fisheries Refugia site observed in the Municipality of Masinloc was consolidated as shown below.

<b>THREATS</b>		
<b>ECOLOGICAL FISHERY</b>	<b>HUMAN</b>	<b>GOVERNANCE</b>
<ol style="list-style-type: none"> <li>1. OVERFISHING <ul style="list-style-type: none"> <li>• Recruitment</li> <li>• Growth-Catching of “Padas”</li> <li>• Illegal Fishing - dynamite Fishing</li> </ul> </li> <li>2. INDUSTRIAL ACTIVITIES <ul style="list-style-type: none"> <li>• Illegal waste disposal</li> </ul> </li> <li>3. CLIMATE CHANGE EFFECTS</li> <li>4. HABITAT DEGRADATION</li> <li>5. CONVENTIONAL</li> <li>6. SILTATION</li> <li>7. DEPLETION OF FISH STOCK AND FISHERY RESOURCES</li> </ol>	<ol style="list-style-type: none"> <li>1. POVERTY</li> </ol>	<ol style="list-style-type: none"> <li>1. REGULATION <ul style="list-style-type: none"> <li>• Fishing activity enactment</li> </ul> </li> <li>2. IMPLEMENTATION <ul style="list-style-type: none"> <li>• Policy on feeds</li> </ul> </li> <li>3. ILLEGAL FISHING ACTIVITY <ul style="list-style-type: none"> <li>• Fine meshed nets: compressor fishing</li> </ul> </li> <li>4. FISH CAGES</li> <li>5. ULLEGAL SETTLES <ul style="list-style-type: none"> <li>• Coastal waste management</li> </ul> </li> </ol>

- 3) For the status of the Ichthyoplankton Survey and Fish Catch in Masinloc, Mr. Valeriano M. Borja gave a presentation on the Fish Eggs and Larvae, wherein the data was also confirmed by the fisherfolk in Masinloc. Moreover, the Masinloc RSMC together with the fisherfolk identified their proposed draft refugia site for at-sea mapping and for further legalization.
- 4) Lastly, attached here is the copy of the Executive Order organizing the Refugia Site Management Committee of the Municipality of Masinloc, Zambales. Annual reports on Consultation workshop, Ichthyoplankton Survey and Fish Landing Data Collection is currently being prepared and analyzed and will be submitted not later than December 2019.

Name	Age	Gender	Designation
PMAJ Virgilio M. Carodan	43	M	Station Chief, PNP Maritime
PLT Bernardo H. Del Mundo Jr.	48	M	Deputy Chief, PNP Maritime
PSMS Philip C. Delos Santos	48	M	Admin PNCO, PNP Maritime
PSMS Romer Saribay	48	M	Invest/ Intel PNCO, PNP Maritime
Pat Rodioza Ruby H. Marinda	32	F	PCR PNCO, PNP Maritime
Olivia E. Gregorio	52	F	OIC- MENRO
Emmanuel E. Ebueng	41	M	MFARMC
Rolando E. De Vera	-	M	MFARMC
Felix Rizaldy Sardan	52	M	Commander, PCG
PO2 Francisco A. Toriobio Jr.	40	M	Assistant Commander, PCG
Jerry S. Escape	60	M	AT-I (MAO) Fisheries
Ramilo Roda	-	M	NFRDI
Elmar M. Pulido	54	M	Municipal Agriculturist/ MAO
ASN Francis Owen Ferriol	27	M	PCG Masinloc
Ingrid Vinleur. J. Balquiqui	24	F	Aquaculturally Technologist/ BFAR III
Neil D. Encinares	40	M	Senior Aqua culturist/ BFAR III
Rewile E. Murciano	35	M	BFAR III NSAP/FLDT
Zaldy E. Elaugos	47	M	Academe
Oscar Empeno Jr.	44	M	MENRO Staff – LGU
Ella May De Castro	23	F	SB Office
Marcelo A. Arcala	54	M	FARMC
Kriselda Mejala	20	F	SB Office
Bernardo Montalla	62	M	APASu – CENRO
Fernando Ebueng	68	M	FARMC
Nestor E. Dait	62	M	MENRO
Manny Ecle	42	M	Barangay Kagawad
Zordan Tamulac	28	M	Fisherfolk
Julius Toledo	25	M	BFAR
Zoraida Esmelo	61	F	Fisherfolk
Rex E. Crisolo	64	M	MFARMC
Karen D. DeVera	25	F	Fisheries Enumerator
Armand R. Morales	24	M	Fisheries Enumerator
Lilibeth Abina	39	F	SRA – NFRDI
Raziel V. Ares	22	F	SRS I – NFRDI
Val M. Borja	58	M	Aqua culturist II - NFRDI
Ramil Diaz	50	M	Fisherman
Resty Espiritu	39	M	Fisherman
Rimando Edgulay	64	M	Fisherman
Tanny R. Ediller	60	M	Fisherman
Denmark B. Cabonot	31	M	PCG
Oscar R. Fontillas	54	M	MFARMC
Joanne N. Rosete	22	F	MAO
Jovino E. Ecal	66	M	MFARMC
Jasfer Empoc	32	M	Fisherman
Romulo D. Gorba	66	M	MFARMC



**Republic of the Philippines  
PROVINCE OF ZAMBALES  
MUNICIPALITY OF MASINLOC**

**OFFICE OF THE MUNICIPAL MAYOR  
EXECUTIVE ORDER NO. 11, SERIES OF 2019**

**AN ORDER ORGANIZING THE REFUGIA SITE MANAGEMENT COMMITTEE OF THE MUNICIPALITY OF MASINLOC, ZAMBALES.**

**WHEREAS**, the Philippine Constitution, Article XII Section 2 (pa.2) states that "the state shall protect the nation's marine wealth in its archipelagic water, territorial sea, and exclusive economic zone, and reserve its use and enjoyment exclusively to Filipino citizens"

**WHEREAS**, the General Welfare clause of the 1991 Local Government Code provides for the exercise of powers by local government units (LGUs) in order to enhance the right of the people to a balanced ecology and promote full employment among their residents;

**WHEREAS**, Republic Act No. 8550, known as The Philippine Fisheries Code of 1998, Chapter 1 Section 2, declares as the policy of the state, "to achieve food security as the overriding consideration in the utilization, management, development conservation and protection of fishery resources in order to provide the food needs of the population. A flexible policy towards the attainment of food security shall be adopted in response to changes in demographic trends for fish, emerging trends in the trade of fish and other aquatic products in domestic and international markets, and the law of supply and demand",

**WHEREAS**, the fisheries habitat components of the United Nation Environment Programmed-Global Environment Facility (UNEP-GEF) South China Sea project focus on the critical role that the habitats such as mangroves, seagrass, coral reefs, and wetland play in sustaining fisheries production in the South China Sea and Gulf of Thailand.

**WHEREAS**, to establish a Regional System of Fisheries Refugia in the South China Sea (west Philippine Sea) and Gulf of Thailand in the context of the UNEP/GEF Project, the Municipality of Masinloc, Zambales was identified to be provided with technical interventions, monitoring and evaluation support by the Bureau of Fisheries.

**WHEREAS**, LGU Masinloc recognizes the very objective of the Refugia Project of Protecting the environmental habitat of marine life while sustaining the fisheries industry which ensures the livelihood of the locality's fisherfolks;

**WHEREAS**, in order to secure the execution of the Refugia Project there is an urgent need to organize the Refugia Site Management Committee.

**NOW, THEREFORE, I ARSENIA J. LIM**, Municipal Mayor, Municipality of Masinloc, Zambales, by virtue of powers vested in me by law, do hereby order:

## I. ORGANIZATION COMPOSITION

The Refugia Site Management Committee shall be organized and be composed of the following:

**Chairperson:** Hon. ARSENIA J. LIM – *Municipal Mayor*

**Vice-Chairperson:** Hon. PEDRO O. ENCISO – *Municipal Vice-Mayor*

### Members:

Hon. ARNEL AQUINO – *SB Member, Agriculture & Fisheries*

Hon. NORMAN ACIERTO – *SB Member, Environment*

Hon. CHRISTIAN PIERCE NACIN – *Association of Barangay Captains (ABC)*

Hon. SORAYDA. SISON - *SB Member, Women Sector*

Hon. GIGI E. EJANDA - *SB Member, Women Sector*

Hon. LEVI EDUVALA - *SK Federation President*

Mr. ELMAR PULIDO - *Municipal Agriculturist*

Ms. OLIVIA GREGORIO – *Municipal Environment and Natural Resources Office*

Mr. BERNARDO MONTALLA – *Community Environment and Natural Resources Office*

Mr. NEIL ENCINARES – *Provincial Fisheries Officer*

CPO FELIX RIZALDY SARDAN – *Chief of Philippine Coast Guard*

PMAJ VIRGILIO M. CARODAN – *Chief of PNP Maritime*

Mr. EMMANUEL EBUENG – *Head of People's Organization*

Mr. ROLANDO DE VERA – *Head of MFARMC*

Mr. ZALDY ELAUGOS – *Academe Member*

Mr. NESTOR DAIT – *MPA Network Representative*

Academe Member

In addition, alternate members shall be designed in order to ensure the immediate and continuous execution of refugia activities as follows:

Alternate Chairman: Municipal Vice mayor

Alternate Vice-Chairman: SBM Chairman, Committee on Environment

Alternate Members:

In cases wherein principal members and/or alternate members be subjected to personnel reassignment the newly assigned personnel will automatically be the principal member and/or alternate member as the case may be.

## II. POWERS AND FUNCTIONS:

1. Receive, review and approve reports from the Fisheries Refugia Management Team regarding the outputs and outcomes of project activities;
2. Assist the Fisheries Refugia Management Team in ensuring coordination among the fisheries refugia project and other local activities undertaken during the course of the project to further enhance local capacity to strengthen the integration of fisheries and habitat management;

3. Review stakeholder involvement in project activities and take action where necessary to ensure the engagement of appropriate levels of government, Civil Society Organization (CSO) community, and private sector;
4. Ensure compatibility between the recommendations for action at the fisheries refugia site with other local level activities for fisheries and coastal habitat management;
5. Review and evaluate, at the site level, progress in implementation of the project, and provide guidance for improvement to the Fisheries Refugia Management Team and National Fisheries Refugia Committee;
6. Approve quarterly progress reports for transmission to the meetings of the National refugia Committee;
7. Facilitate the approval and implementation by the competent municipal authority, management plans and courses of action developed during the course of project execution;
8. Assist the Fisheries Refugia Management Team in leveraging required project co-financing and additional funds that may be required from time to time;
9. Work with the Fisheries Refugia Management Team in identifying best practices for replication and scaling-up as well as the mainstreaming of the Fisheries refugia approaches at the local level; and
10. Agree at their first meeting:
  - a) Meeting arrangements and terms of reference of the committee
  - b) Standing orders and manner of conducting business as may be considered necessary by the committee.
11. Perform other related functions.

### III. MEETINGS

The RSMC shall meet on a monthly basis during the project inception period and on a quarterly basis thereafter to guide the timely execution of activities. In addition, the Chair may call for a special meeting when necessary in order to establish and operate fisheries refugia.

### IV. EFFECTIVITY

The Executive Order shall take effect immediately.  
Done this 14<sup>th</sup> day of August 2019 at Masinloc, Zambales.



**ARSENIA J. LIM**  
*Municipal Mayor*

