



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

REPORT

**INITIAL ICHTHYOPLANKTON SURVEY
IN SELECTED DC AREAS OF MASINLOC BAY**

**ZAMBALES, PHILIPPINES
13-15 SEPTEMBER 2017**

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

SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
TRAINING DEPARTMENT



Southeast Asian Fisheries
Development Center



United Nations
Environment



Global Environment
Facility

First published in Phrasamutchedi, Samut Prakan, Thailand in September 2017 by the SEAFDEC-UNEP-GEF Fisheries Refugia Project, Training Department of the Southeast Asian Fisheries Development Center

Copyright © 2017, 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, 2017. Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Report of Initial Ichthyoplankton Survey in Selected Areas of Masinloc Bay. Southeast Asian Fisheries Development Center, Training Department, Samut Prakan, Thailand; FR/REP/PH08, 4 p.

I. Highlights of Activities:

- 1) A courtesy visit was conducted to the Community Environment and Natural Resources (CENRO) Office, the Team meet Ms. Olive Gregorio of CENRO and inform her that the Team will be conducting Initial Hydrobiological survey which includes collection of various water parameters, plankton (phytoplankton and zooplankton), and ichthyoplankton samples. The objective of this research was to use the fish eggs and larvae as initial data for the Establishment and Operation Fisheries Refugia in Masinloc, Zambales.
- 2) Horizontal towing of Bongo nets (50 cm diameter, 2.5 m length and 300 μ m mesh size) in the surface water was done for 10 minutes on board the vessel at a possible speed of about 2-3 knots in each station to collect ichthyoplankton samples for estimates of the abundance and distribution of fish eggs and larvae.
- 3) Vertical tow of phytoplankton (30 cm diameter, 1m length and 20 μ m mesh size) and zooplankton (30 cm diameter, 1m length and 64 μ m mesh size) nets from near bottom up to the surface to ensure that planktons within the water column was well represented.
 1. Echo sounder was also used to determine the depth of every station.
 2. Collected sediment samples in every station using sediment corer.

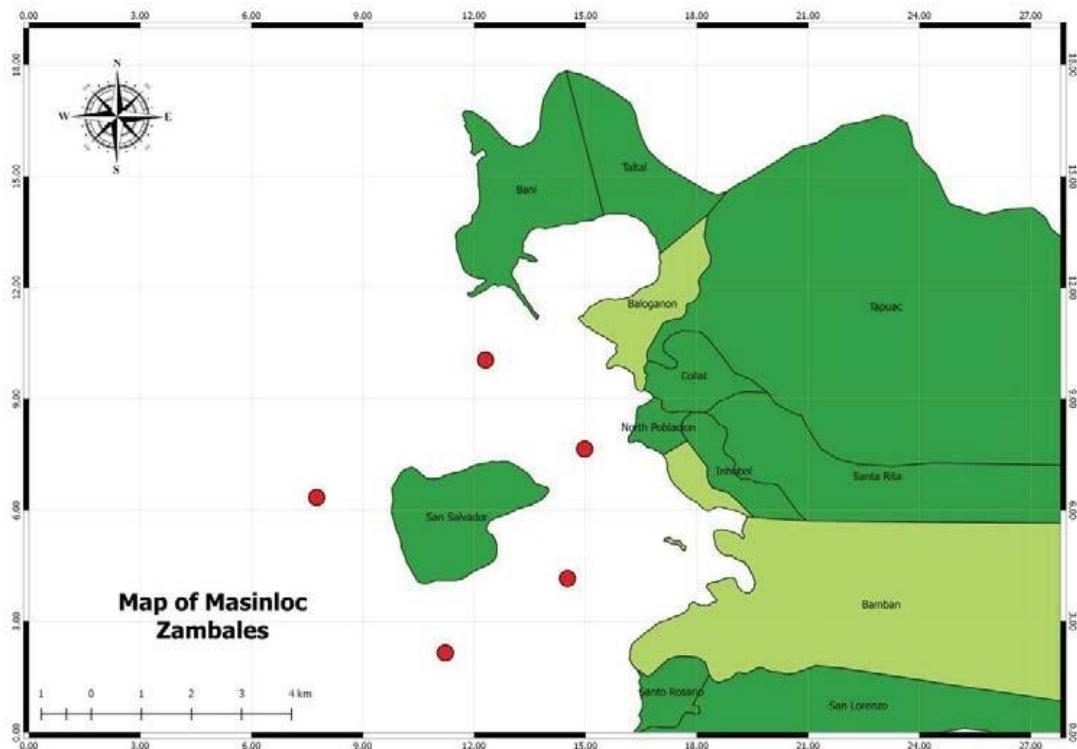
II. Laboratory work:

- 4) Analyses of various samples (water, ichthyoplankton and plankton samples) are on-going process in the laboratory. Species composition of ichthyo- and plankton assemblages will be microscopically analyzed. The chlorophyll and nutrient contents of the water samples are still being analyzed by chemical titration with spectrophotometer.

XXXXXXXXXXXXXXXXXXXX



Actual survey at Masinloc Bay, Masinloc Zambales



Map of Masinloc, Zambales with sampling stations