

The 2nd Regional Scientific and Technical Committee

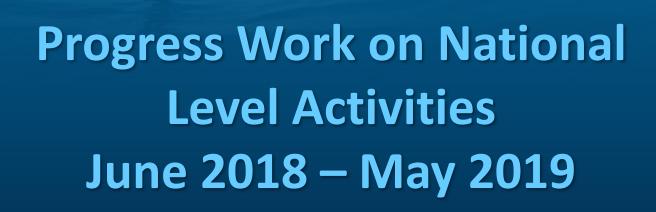
Meeting for the UNEP-GEF-SEAFDEC "Establishment and

Operation of a Regional System of Fisheries Refugia in

the South China and Gulf of Thailand" Project

by

Valeriano M. Borja 21-23 May, 2019 Thunsur SokhaHotel, Kampot Province, Cambodia



▼Technical Support Mission of Project Coordinating Unit Staff inthe Philippines for the SEAFDEC/UNEP/GEF Project "Establishment and Operation of a Regional System of Fisheries Refugia in the

South China Sea and Gulf of Thailand"

Date: 20-21 June 2018

Venue: NFRDI Conference Room, NFRDI, Quezon City

12 participants

➤ Updates on the current situation of Fisheries Refugia (FR) project

- ➤ Joint program between Fisheries Refugia Project and South China Sea (SCS) Project and its benefit
- ➤ Support of SEAFDEC on the National Technical work of Fisheries Refugia project
- Progress and Financial Reporting of Philippines
- Work planning and budgeting for succeeding quarter





Fisheries Refugia Stakeholders Consultation Workshop in 3 Projects Sites

The objective of the workshop is to:

- ➤ Initially identify major species to be consider in the establishment of Fisheries Refugia in 3 project sites;
- ➤ Identify threats to fisheries and identify possible management measures and;
- ➤ Finalize the composition and to be able to discuss and agree on the terms of Reference of Refugia Site Management Committee



Fisheries Refugia Stakeholders Consultation – Bolinao Site

Date: 19-21 September 2018

Venue: Treasures of Bolinao,

Bolinao, Pangasinan

Participants:

- Office of the Municipal Agriculturist
- Office of the Sangguniang Bayan
- Bureau of Fisheries and Aquatic Resources Regional Office I
- Provincial Fisheries Office
- Chairman/Representative form coastal Barangays
- Fisherfolk Representatives







Fisheries Refugia Stakeholders Consultation – Bolinao Site









Fisheries Refugia Stakeholders Consultation – Coron Site

Date: 20-22 November 2018

Venue: Wildfern Villa,

Coron, Palawan

Participants:

- Office of the Municipal Agriculturist
- MDRRMO
- Community Environment and Natural Resources Office (CENRO)
- BFAR Provincial Fisheries Office
- Chairman from Coastal Barangays
- Fish Warden
- Maritime Police
- Philippines Coast Guard
- Coron School of Fisheries
- Palawan Council for Sustainable Development (PCSD)
- Coron MPA Network



Fisheries Refugia Stateholders Consultation Workshop Outputs

THREATS/ISSUES/CONCERNS TO FISHERIES	Species/habitat	Existing ordinances, laws
Use of inappropriate fishing gear	All species/coral	RA 10654 /Municipal Fisheries Ordinance
Dynamite fishing/blast fishing	Corals, all kinds of fish	RA 10654
Encroachment (commercial vessel)	Galunggong Dilis and other species caught	Municipal Fisheries ordinance

Corals, seagrass

Climate Change

Siltation

Encroachment of Informal Settlers in

Mangrove Areas, Conversion of mangrove

areas for tourism purposes

Siltation

on municipal fishing ground

corals

Mangroves, juvenile fish,

crabs etc.

Climate Change Act

Clean Water Act, Water Quality

Management Area

Zoning Ordinance, Easement

Policies, PD 705 section 84, 68 and 69

Clean Water Act, Water

Quality Management Area

Fisheries Refugia Stake holders Consultation Workshop Outputs

THREATS/ISSUES/CONCERNS TO FISHERIES	Species	Existing Ordinances/laws
Oil spill	Mangrove areas/corals/all kinds of fish	Marine environmental laws
Catching of threatened species	threatened species listed in cites	CITES, RA 8550/10654
Pollution	all kinds of fish	Municipal Ordinance/Environmental laws
human recreational activities (eg. tourism), Non-compliance of tourism establishment within coastal areas	Seagrass, corals	RA 8550/10654 PD 705
Overfishing		
Live Fish Trade Industry	Grouper, Mangrove Jacks, Wrasse	PCSD AO 05

Fisheries Refugia Stakeholders Consultation - Masinloc Site

Date: 28-30 November 2018

Venue: DFARM Resort, Masinloc, Zambales

Participants:

- Municipal Environments and Natural Resources Office
- Office of the Municipal Agriculturist
- BFAR Provincial Fisheries Office
- Chairman/Representative from coastal Barangays
- Fisherfolk Representatives
- Philippines Coast Guard
- Academe Representative
- Fish Warden Representatives

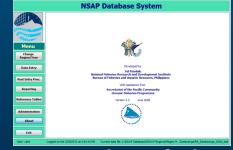


Continued Baseline Fisheries Data Collection

Fisheries data collection was conducted in 3 project sites

National Stock Assessment Program (NSAP) Sampling protocol was used in collecting data in selected fisheries landing sites





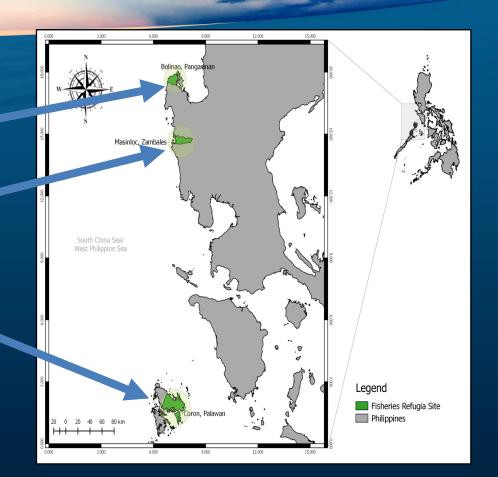




NSAP Sampling forms were used in recording fisheries data and submitted monthly to NFRDI for data encoding and processing using NSAP Database System

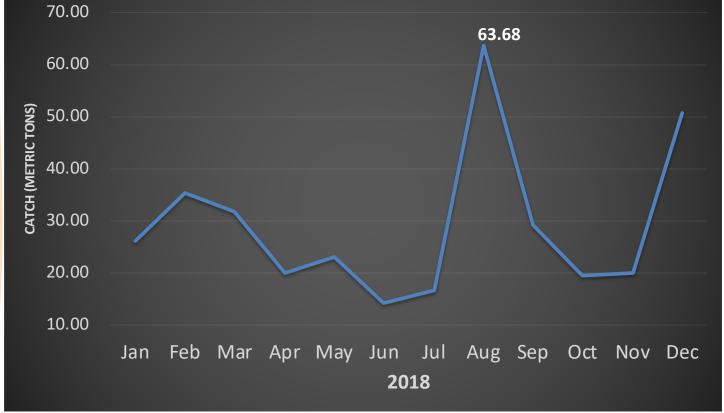
3 Project Sites

- Bolinao, Pangasinan
- > Masinloc, Zambales
- >Coron, Palawan

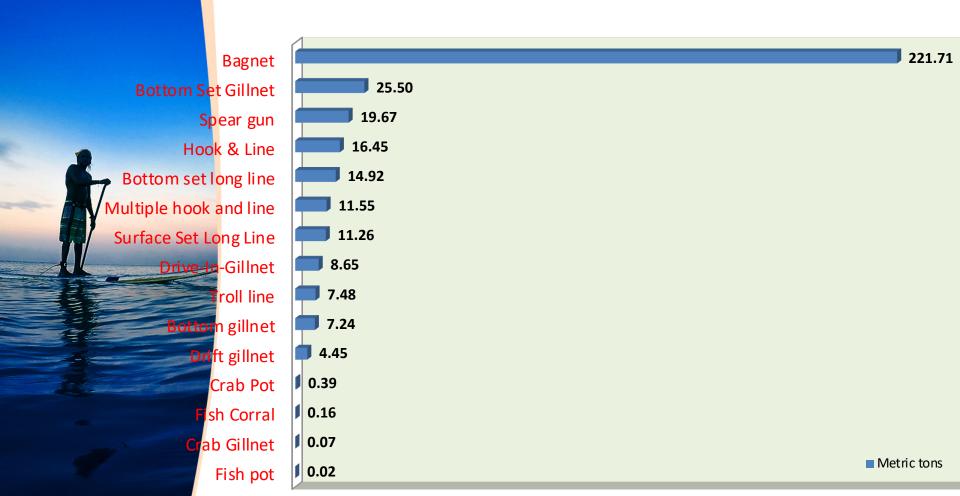




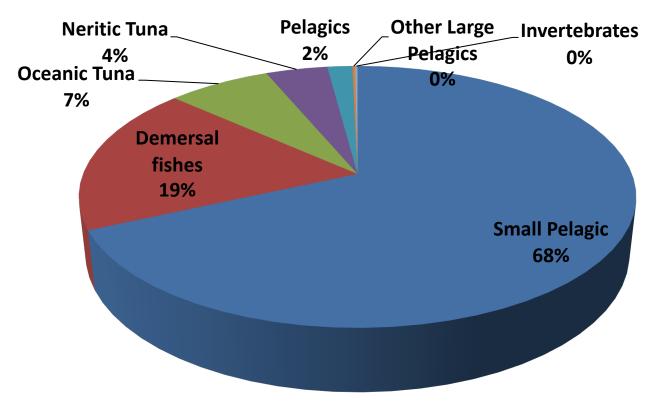




Monthly Landed Catch in Coron, Palawan, 2018

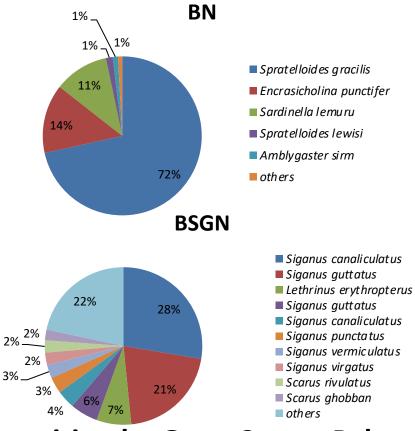






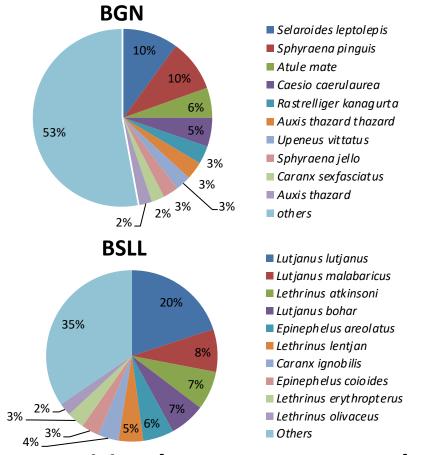
Landed catch by Species Group in Coron, Palawan (2018)





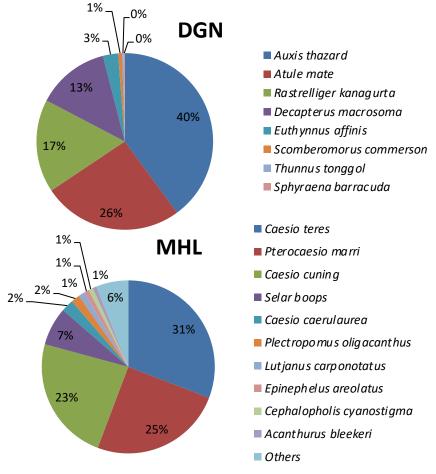
Species composition by Gear, Coron, Palawan





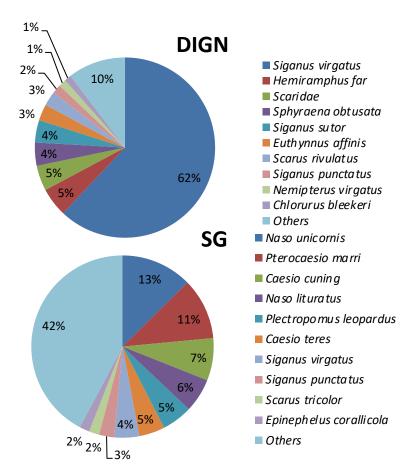
Species composition by Gear, Coron, Palawan





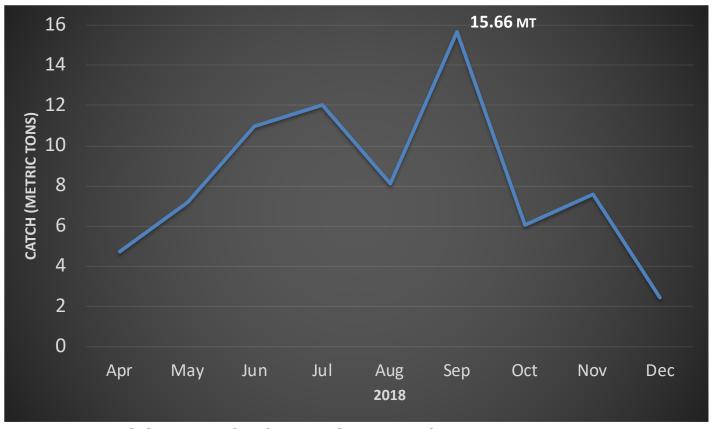
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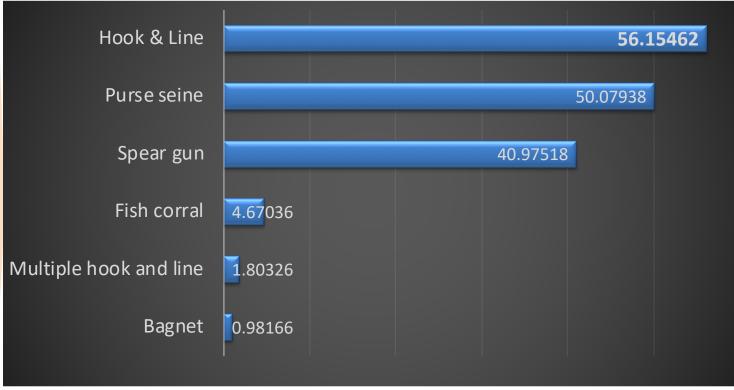
Species composition by Gear, Coron, Palawan





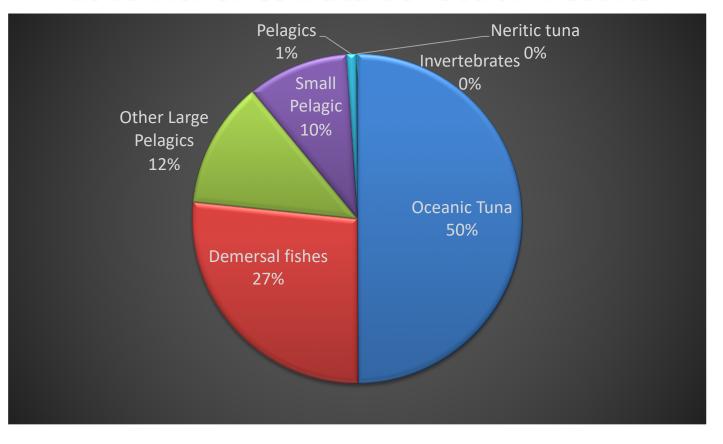
Monthly Landed Catch in Bolinao, Pangasinan





Landed catch per gear in Bolinao, Pangasinan

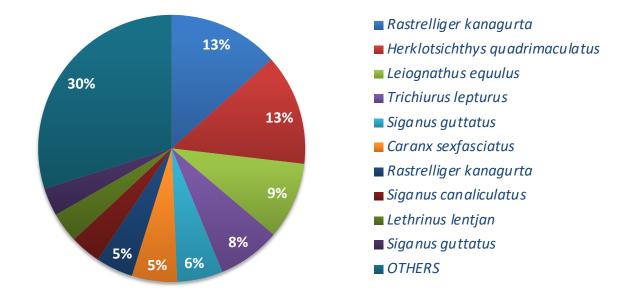




Landed catch by Species Group in Bolinao, Pangasinan



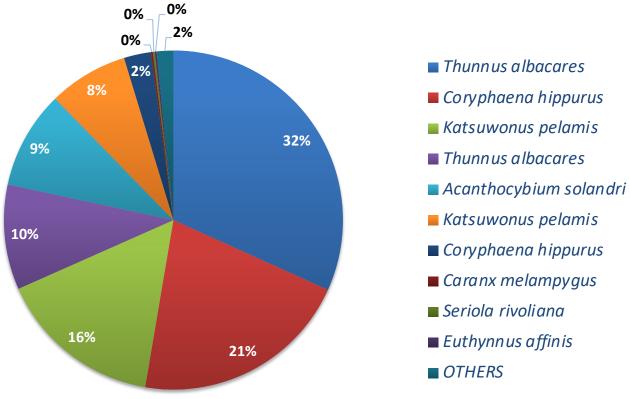
2018 Fisheries Data Collection Results FISH CORRAL



Species composition by Gear, Bolinao, Pangasinan



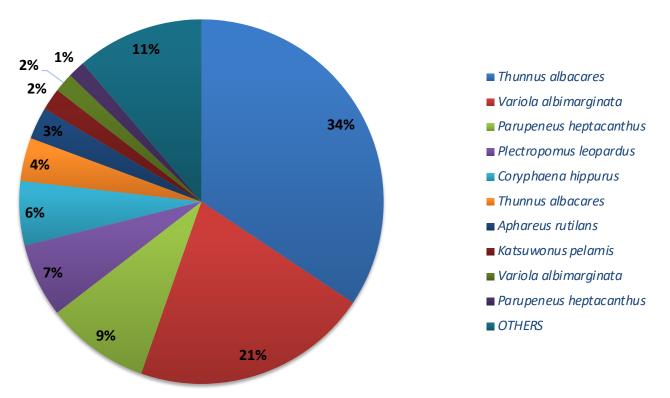




Species composition by Gear, Bolinao, Pangasinan



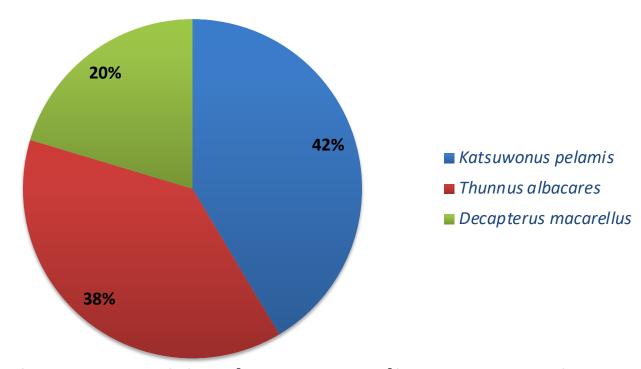
MULTIPLE HOOK & LINE



Species composition by Gear, Bolinao, Pangasinan



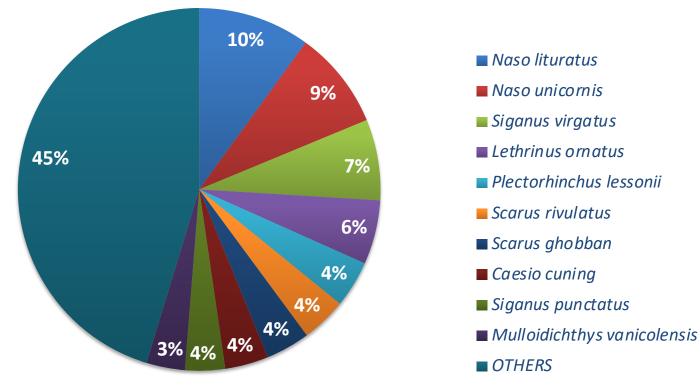
2018 Fisheries Data Collection Results PURSE SEINE



Species composition by Gear, Bolinao, Pangasinan

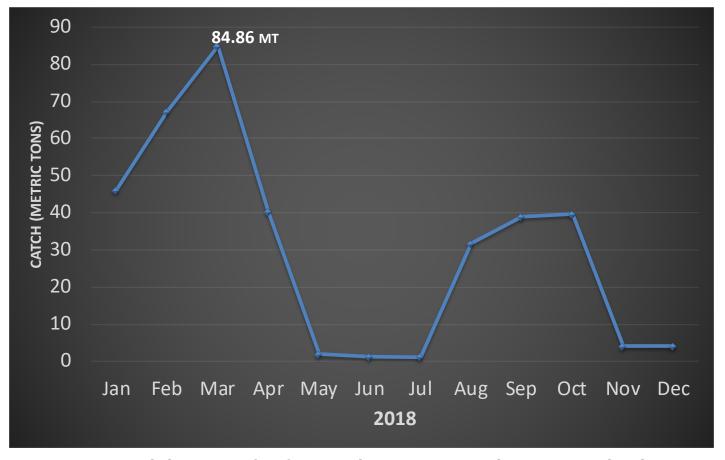






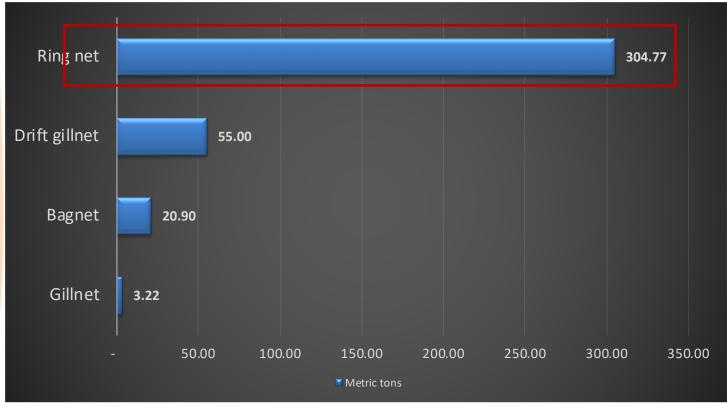
Species composition by Gear, Bolinao, Pangasinan





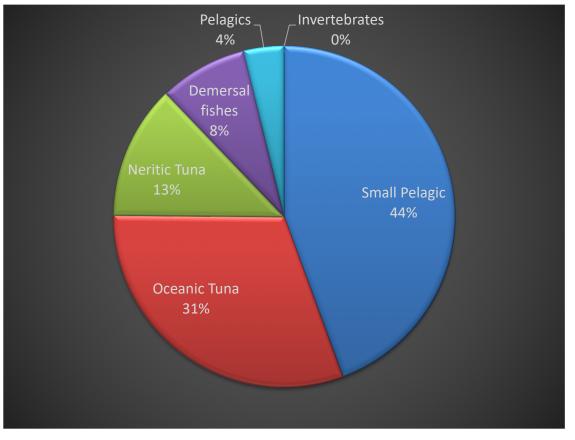
Monthly Landed Catch in Masinloc, Zambales





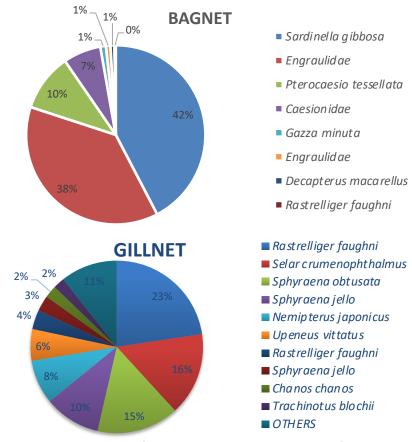
Landed catch per gear in Masinloc, Zambales





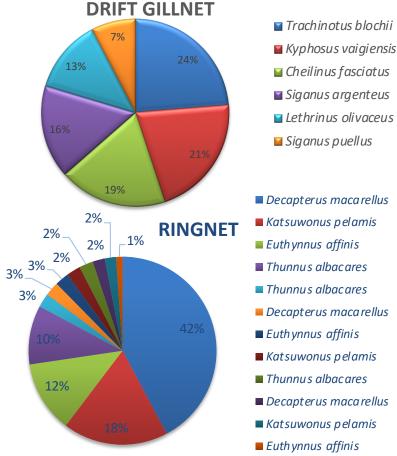
Landed catch by Species Group in Masinloc, Zambales





Species composition by Gear, Masinloc, Zambales





Species composition by Gear, Masinloc, Zambales

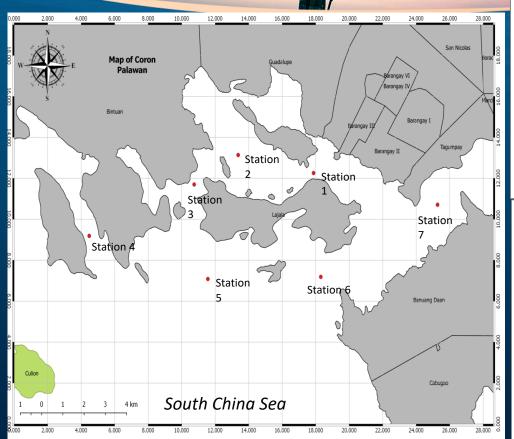
Quartely Ichthypplankton Survey for 3 Sites in the

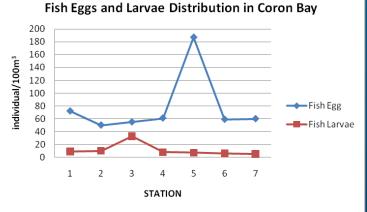


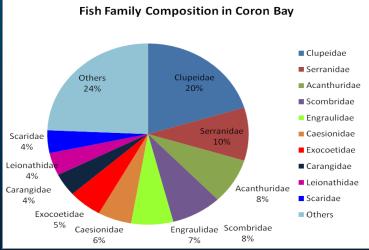




Fish eggs and Larvae 4th Q 2018

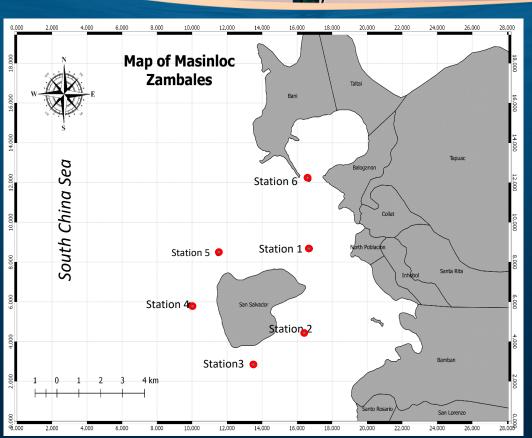


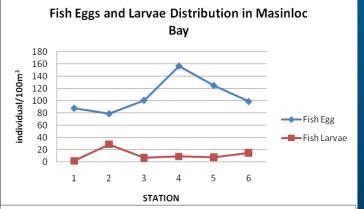


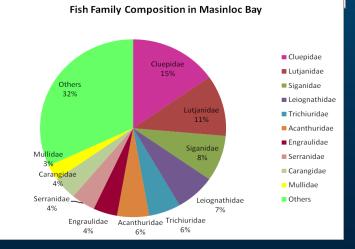




Fish eggs and Larvae 4th Q 2018



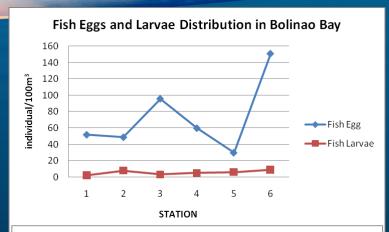


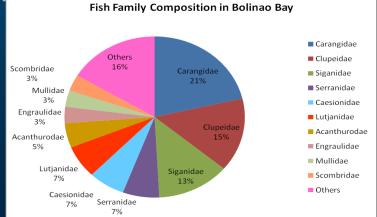




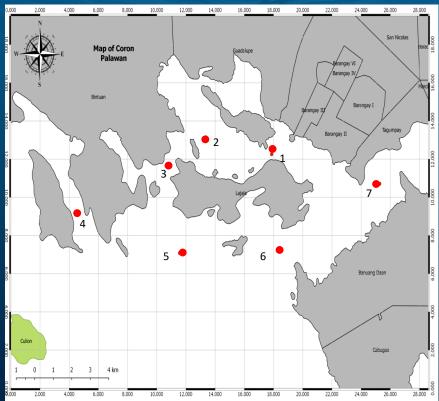
Map of Bolinao Pangasinan South China Sea Station 5 Station 6 Station 3 Station 2 Station • Cabuyao Ilogmalino Estanza Catuday San Roque Samang Sur

Fish eggs and Larvae 4th Q 2018

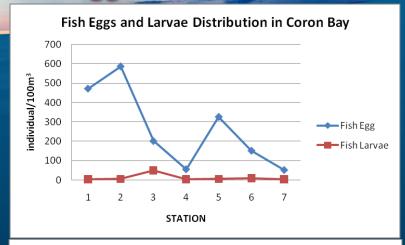


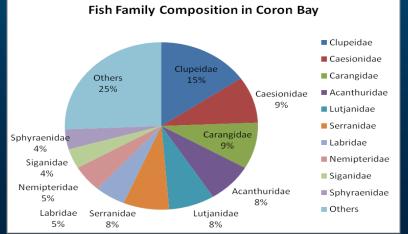


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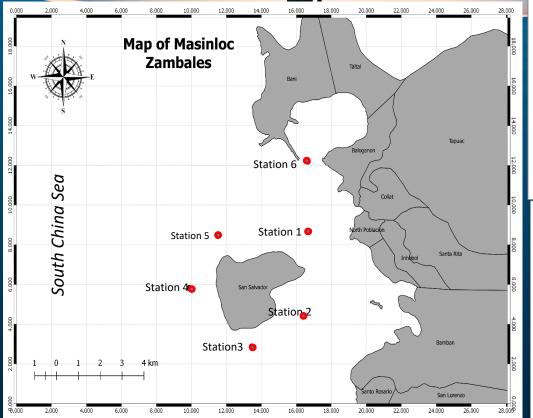
Fish eggs and Larvae 1st Q 2019

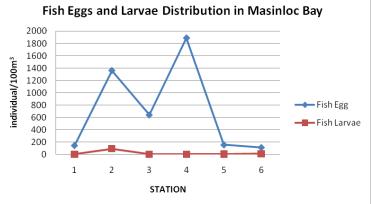


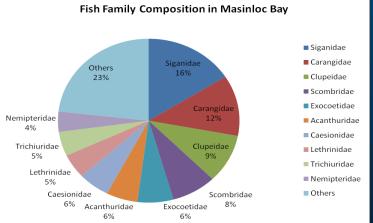




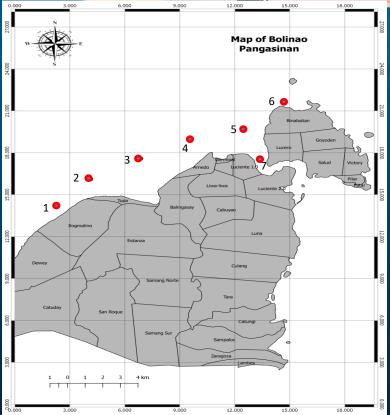
Fish eggs and Larvae 1st Q 2019



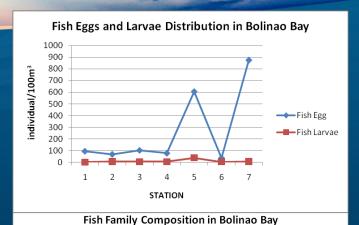


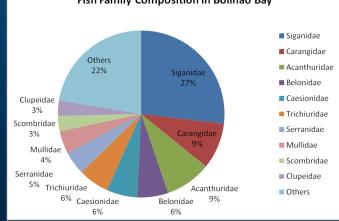






Fish eggs and Larvae 1st Q 2019







Fish eggs and Larvae Collected in Bolinao, Pangasinan



Conduct of community-based consultation workshop in 3 sites to develop and draft the Fisheries Refugia Management plan

Continued fisheries data collection

Fish eggs and larvae survey

Conduct practical capacity building programme for management volunteers

Conduct of consultation workshop in 3 sites for policy review and reforms.













