



Regional Inception Workshop for the SEAFDEC/UNEP/GEF Project Entitled:

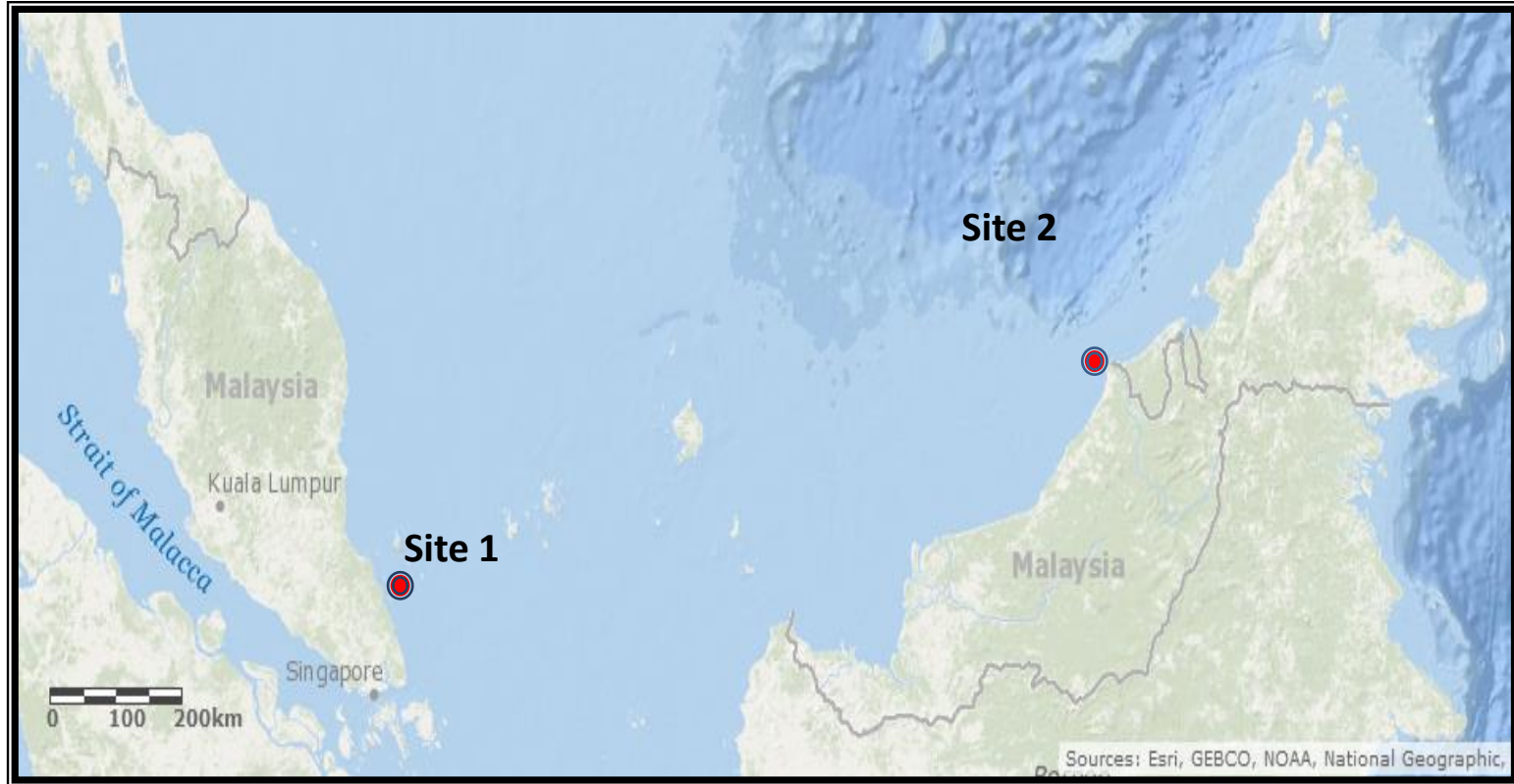
**“ESTABLISHMENT AND OPERATION OF A REGIONAL SYSTEM OF FISHERIES
REFUGIA IN THE SOUTH CHINA SEA AND GULF OF THAILAND”**

NATIONAL SITUATION REPORT MALAYSIA

1-3 November, Bangkok, Thailand

Proposed Refugia Sites

1. Tg. Leman, Johor – lobsters
2. K. Baram, Sarawak – tiger prawn



Lobsters Fishery Areas in East Johor



Kuala Baram – Tiger Prawn



Tg. Leman

Lobsters

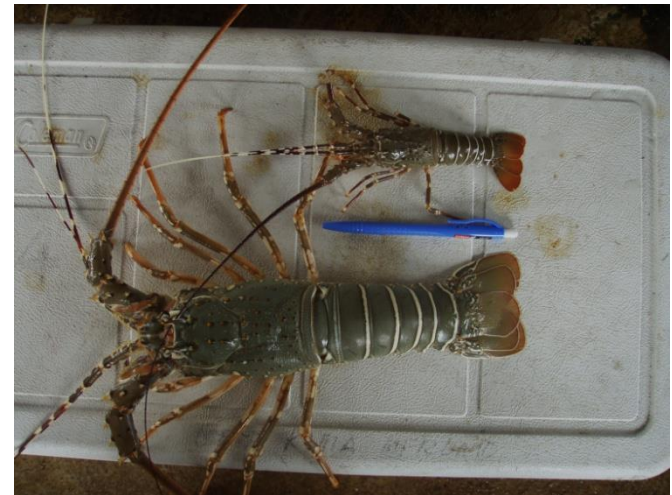
White Prawn

Horseshoe crab



Study in 2015

Lobsters



Gear used to catch lobster

- Traps - Sungai Rengit only
- Drift net
- Trawlers



2015

Kuala Baram-Tiger shrimp survey





Tiger shrimps caught

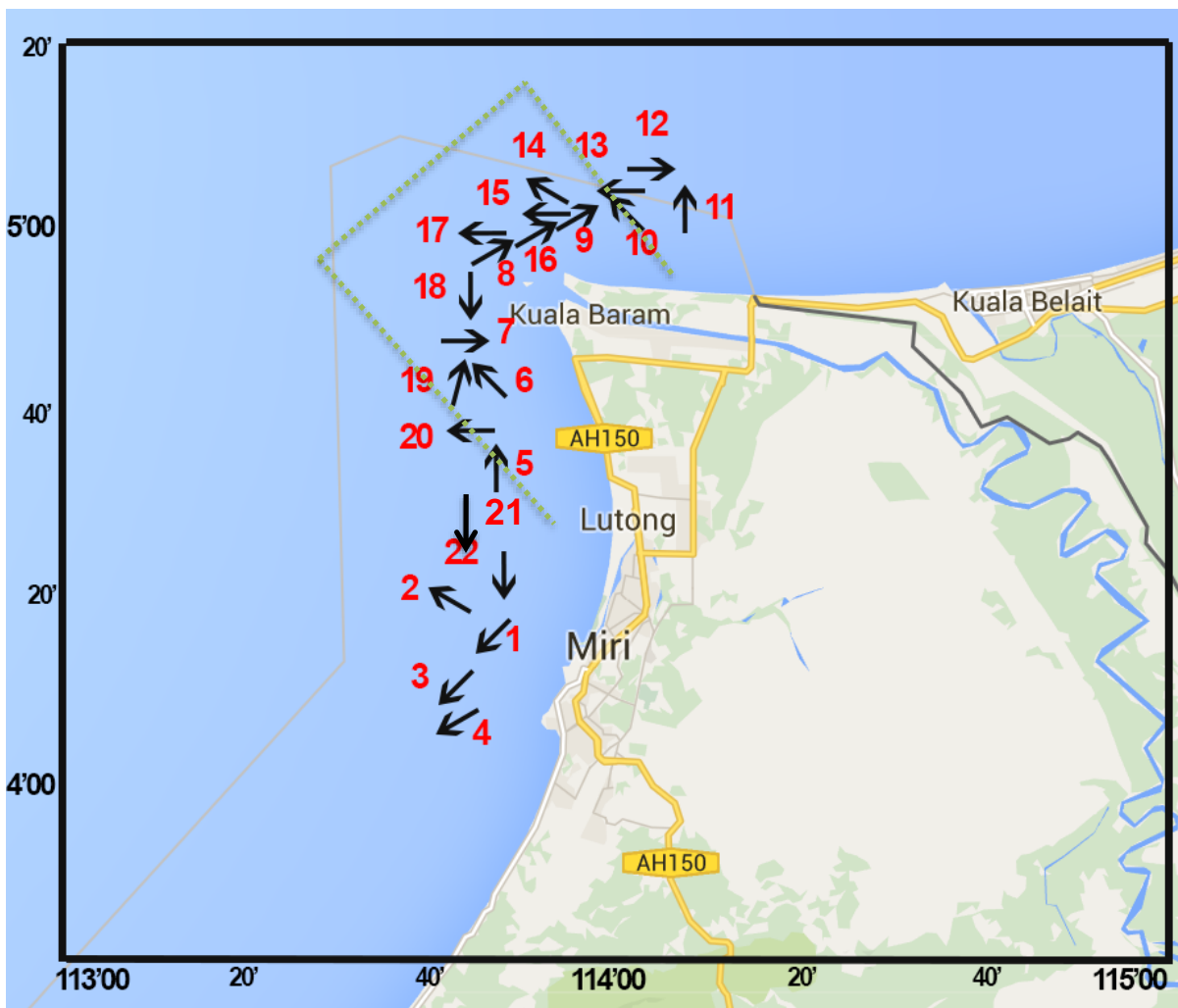


Broodstock size shrimp: male (>80g) and female (50-150g)

Female tiger shrimp of about 200g



proposed refugia 2016 (area-cr>1.0kg per hr
or area where male >5 tails & female >3 tails)



Mangrove forest of kuala baram



Study in 2016

Tg. Leman

Focus on spawning season
Larval Sampling



Stages of *P. Polyphagus* egg (Study by Universiti Malaysia Terengganu)



K. Baram

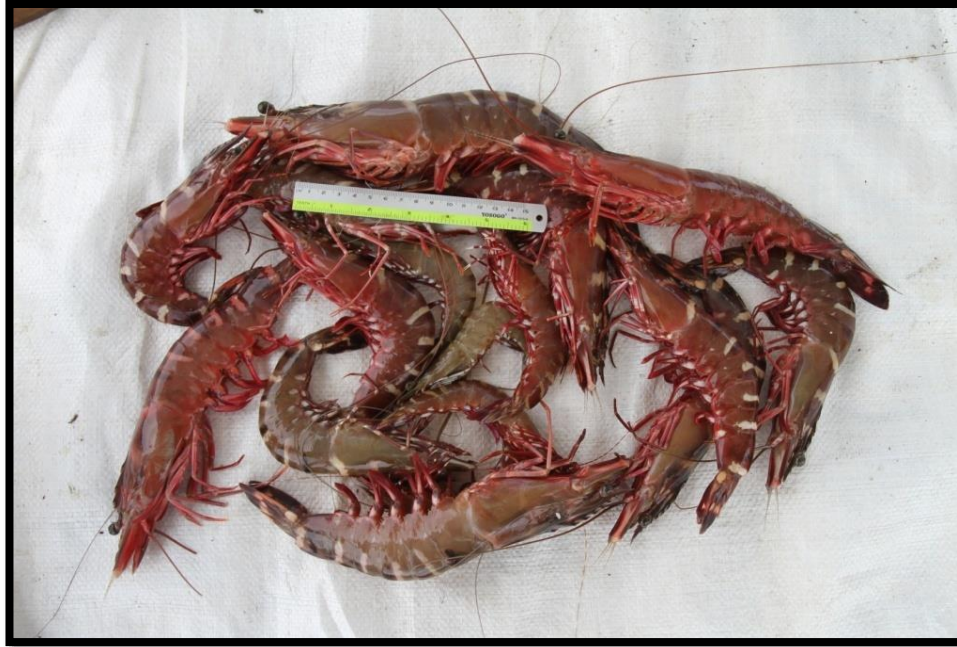
Ratio of male to female tiger prawn (in numbers) caught in Kuala Baram, Miri- 1:0.9



Ratio of male to female tiger prawn (in term of weight) caught in Kuala Baram, Miri- 1:1.4



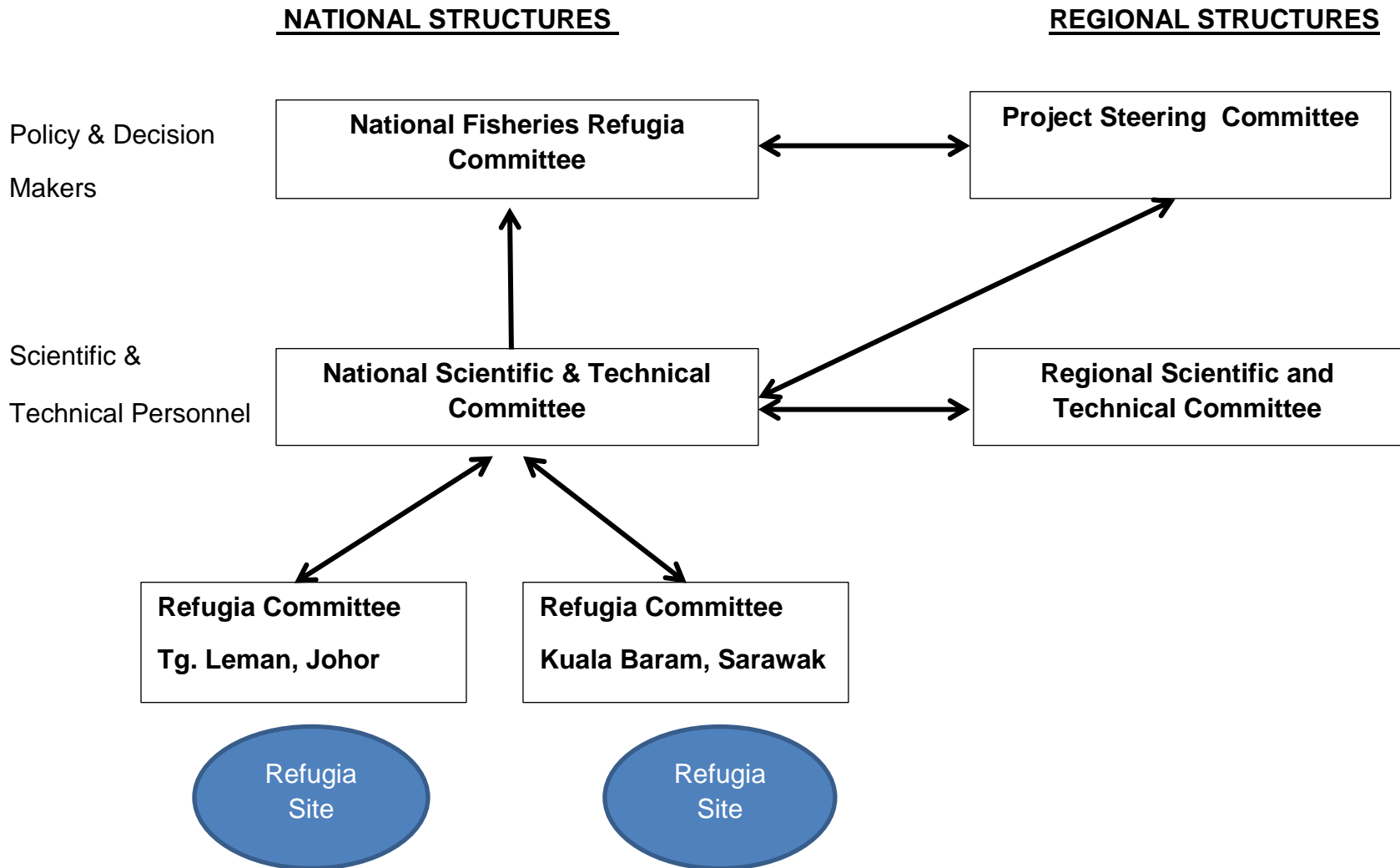
Average size male (20cm Total length & 80g) & female tiger prawn (25cm TL & 140g)



Percentage of gravid female
with different egg stages: I~
17%; II~6%; III~10%; IV~
39% & V~28%



Diagram Mekanisma Koordinasi Kebangsaan



Membership of National Fisheries Refugia Committee

National Structure	Agencies
<p>National Fisheries Refugia Committee</p> <p>Resource Management Division (Secretariat)</p>	<p>Department of Fisheries Malaysia (Chairman-Director General)</p> <p>Ministry of Agriculture and Agrobased Industries</p> <p>Ministry of Natural Resources and Environment (Biodiversity Division)</p> <p>Ministry of Modernization of Agriculture Sarawak (MOMA)</p> <p>Sarawak Economy Planning Unit</p> <p>Johor Economy Planning Unit</p> <p>Malaysia Maritime Enforcement Agency</p> <p>Royal Malaysian Police</p> <p>Fisheries Development Authorities of Malaysia</p> <p>Ministry of Sciences, Tecnology & Innovation</p> <p>Economy Planning Unit</p> <p>Resource Management Division, Department of Fisheries Malaysia</p> <p>Research Division, Department of Fisheries Malaysia</p> <p>Resource Protection Division, Department of Fisheries Malaysia</p> <p>Extension & Technology Transfer Division, Department of Fisheries Malaysia</p> <p>Planning & Development Division, Department of Fisheries Malaysia</p> <p>Legal Office, Department of Fisheries Malaysia</p>

Provisional Terms of Reference for Site-Based Fisheries *Refugia* Committee

1. Meet on a monthly basis during the project inception period and a quarterly basis thereafter to guide the timely execution of activities to establish and operate fisheries refugia;
2. Receive, review and approve reports from the Fisheries Refugia Management Team regarding the outputs and outcomes of project activities;
3. Assist the Fisheries Refugia Management Team in ensuring co-ordination 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;
4. Review stakeholder involvement in project activities and take action where necessary to ensure appropriate levels of government, NGO, community, and private sector engagement;
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 Fisheries Refugia Committee;
7. Review and recommend for 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) the membership, meeting arrangements, and terms of reference of the committee
 - b) such standing orders and manner of conducting business as may be considered necessary by the committee.



Membership for the National Scientific & Technical Committee

National Scientific & Technical
Committee

Research Division
(Secretariat)

Research Division, Department of Fisheries Malaysia (Chairman –Director of Research
FRI Batu Maung, Penang
FRI Kampong Acheh
FRI Bintawa
FRI Rantau Abang
Department of Marine Park Malaysia
Pahang State Office
Johor State Fisheries Office
Department of Marine Fishery Sarawak
Universiti Malaysia Terengganu
Universiti Malaysia Sarawak
Universiti Malaysia Sabah
Universiti Kebangsaan Malaysia
Sarawak Forestry
World Wildlife Fund
Malaysia Nature Society
Johor Parks
Chairman Tg. Leman Refugia Comittee
Chairman K. Baram Refugia Committee



Provisional Terms of Reference for Malaysia's National Scientific and Technical Committee

Provisional Terms of Reference for Malaysia's National Scientific and Technical Committee

Malaysia's National Scientific and Technical Committee shall operate on the basis of consensus to:

1. Review and co-ordinate national scientific and technical activities of the SEAFDEC/UNEP/GEF Fisheries Refugia Project in Malaysia;
2. Review and evaluate, from a scientific and technical perspective, progress in the establishment of fisheries refugia sites, and provide guidance for improvement when necessary;
3. Provide the National Fisheries Refugia Committee with recommendations on proposed national and site-based activities, work plans, and budgets;
4. Provide the National Fisheries Refugia Committee with technical guidance and suggestions to improve project activities where necessary, including the reform of policy, legislation and institutional arrangements;
5. Facilitate co-operation with relevant national and provincial organisations and projects to enhance the information and science base for use in identifying and managing fisheries refugia in Malaysia;
6. Compile and evaluate national level sources of information and data for sharing at the regional level;
7. Receive, and review reports, data and information from the fisheries refugia sites and oversee the national synthesis of this information to identify overall needs and priorities for individual sites and networks of refugia sites in Malaysia;
8. Ensure that planned national level project activities are consistent with the national results framework for the project, and that the subsequent monitoring and reporting of project results is undertaken in a standardized and consistent manner;
9. Agree at their first meeting:
 - a) the membership, meeting arrangements, and terms of reference of the committee; and
 - b) such standing orders and manner of conducting business as may be considered necessary by the committee.

Membership for the Refugia Sites Committee

Jawatankuasa Refugia
Tg. Leman, Johor

Mersing District Fishery Office
Rompin District Fishery Office
Mersing Fishermen Association
Rompin Fishermen Association
Fisheries Development Authorities Malaysia - Mersing Office
District Office
Local Council
Trawlers Association
Tg. Leman Fisheries Ecosystem Community
Johor Park

Jawatankuasa Refugia
Kuala Baram, Sarawak

District 3 Fisheries Office
Association of Sarawak Boat Owner – Miri District
District Fishermen Association
Fisheries Development Authorities Malaysia – Miri Office
District Office
Malaysia Maritime Enforcement Agency
Petroleum Nasional (PETRONAS)
K. Baram Fisheries Ecosystem Community



Provisional Terms of Reference for Malaysia's National Fisheries Refugia Committee

Provisional Terms of Reference for Malaysia's National Fisheries Refugia Committee

Malaysia's National Fisheries *Refugia* Committee shall operate on the basis of consensus to:

1. Assume overarching responsibility for the execution of national level activities of the SEAFDEC/UNEP/GEF Fisheries Refugia Project in Malaysia;
2. Receive, review, and approve reports from the Fisheries Refugia Management Boards regarding the outputs and outcomes of efforts to establish and manage fisheries refugia sites;
3. Meet on a quarterly basis during the operational phase of the project to guide the timely execution of project activities, particularly activities at the individual refugia sites, and to consider, amend and endorse quarterly work-plans, narrative progress and financial reports for submission to the regional Project Coordinating Unit;
4. Provide direction and strategic guidance to the National Lead Agency and site-based management boards for individual refugia sites on the national and local reforms to enhance the uptake of the fisheries refugia approach and strengthen the integration of fisheries and environmental management;
5. Review planned and ongoing fisheries and environment projects being operated along the South China Sea coast of the Malaysia with the aim of minimising duplication of efforts, and to identify opportunities for cooperation and the sharing of examples of best practices in integrated fisheries and environmental management;
6. Assess stakeholder involvement in fisheries and environmental management and to take action where necessary to ensure appropriate levels of government, civil society and community organisation, environmental NGOs, Women's groups, and private sector engagement in project activities.
7. Ensure compatibility between site-based activities of the fisheries refugia project and other National, provincial and municipal activities in fisheries and environmental management;
8. Approve annual progress reports for transmission to the SEAFDEC Council, UNEP and the GEF Secretariat;
9. Assist the national lead agency and focal point in securing co-financing committed to the project and in leveraging additional funding that may be required from time to time.
10. Agree at their first meeting:
 - a) the membership, meeting arrangements, and terms of reference of the committee; and
 - b) such standing orders and manner of conducting business as may be considered necessary by the committee.

Threats to the Refugia

1. Trawlers
2. Pollution
3. Foreign Fishing Vessels





THANK YOU