







STRATEGIES FOR TRAWL FISHERIES BYCATCH MANAGEMENT: REBYC-II CTI

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FAO Initiative

Project REBYC Phase-I (2545-2551)

Reduction of Environmental Impact from Tropical Shrimp Trawling through the Introduction of Bycatch Reduction Technologies and Change of Management

- To reduce capture of immature/ juvenile fishes of commercially important species;
- To reduce the harvest of other unwanted bycatch fish and non-fish species



- Reduction in number of juvenile species caught by shrimp trawlers using bycatch reduction devices (BRDs) compared to trawlers not using such devices
- Improvement national capacities for the management of the shrimp-trawler fisheries and
- increased cooperation among countries at the regional and global levels

Indonesia + Philippines - FAO

Malaysia, Vietnam, Cambodia - SEAFDEC-JTF

Myanmar, Thailand

FAO Initiative

Project REBYC Phase-I

Reduction of Environmental Impact from Tropical Shrimp Trawling through the Introduction of Bycatch Reduction Technologies and Change of Management



http://www.seafdec.or.th/

Lesson learn REBYC Phase-I

- Multi-species fisheries resources of found in Southeast Asia and the Pacific region
- Types and scale of trawler
- Fisheries resource management
- Bycatch is largely utilised and considered part of the total catch

Gear modification solutions also need to be supported by appropriate legal and incentive frameworks



Initial Phase of REBCY-II CTI

FAO/GEF INCEPTION WORKSHOP ON "BYCATCH MANAGEMENT AND REDUCTION OF DISCARDS IN TRAWL FISHERIES"

SEAFDEC/TD Samut Prakarn, Thailand 3 – 6 November 2009

FAO/GEF REGIONAL WORKSHOP ON STRATEGIES FOR FISHERIES BYCATCH MANAGEMENT CTI REBYC-2 PROJECT Log-frame/project planning workshop, SEAFDEC/TD Samut Prakarn, Thailand 4–7 May 2010

FISHING INDUSTRY ROUND-TABLE MEETING
Organized by FAO and SEAFDEC in Bangkok Thailand, from 30 April 2012

FAO/GEF PROJECT INCEPTION WORKSHOP Organized by FAO and SEAFDEC in Bangkok, Thailand, from 1 to 4 May 2012

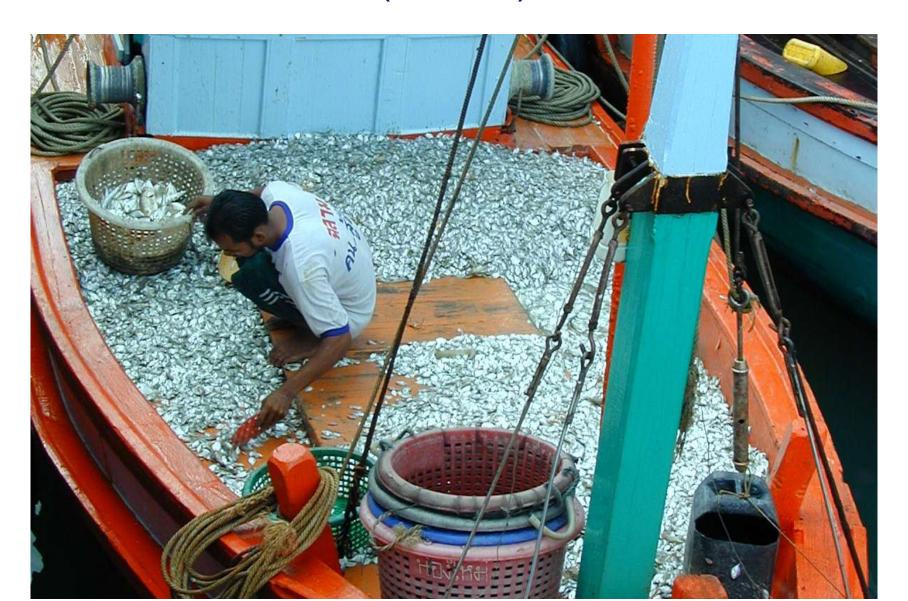
FAO/GEF REGIONAL WORKSHOP Work Planning – Year1 Organized by FAO and SEAFDEC in Bangkok, Thailand, from 6-9 November 2012







Strategies for Trawl Fisheries Bycatch Management (REBYC-II CTI) (2012-2015)



Main goals and objectives

- More sustainable use of fisheries resources and healthier marine ecosystems in the project region by:
 - minimizing the catch of juveniles
 - minimizing species at risk from trawling
 - minimizing discards where such take place
 - avoiding negative impacts on habitats
 - improving utilization (value adding)
 - increasing resilience of coastal livelihoods

The project aims to facilitate the change by seeking balance between environmental well-being and human well-being!



โครงการ REBYC-II CTI

- Executed by five countries + SEAFDEC
 - Indonesia, Papua New Guinea, Philippines, Thailand, Vietnam
 - SEAFDEC is the Regional Project Facilitating Unit (RFU)

Project partners:

- Swedish International Development Cooperation Agency (SIDA)
- Sustainable Fisheries Partnership (SFP)
- International Fishmeal and Fish Oil Organisation (IFFO)
- Regional Fisheries Livelihood Programme for South and Southeast Asia (RFLP)
- World Wide Fund for Nature (WWF)
- Centre for International Migration and Development (CIM- German)
- > SEAFDEC





























Project Countries – Project Area

-South China Sea--Coral Triangle Area-

Project Countries

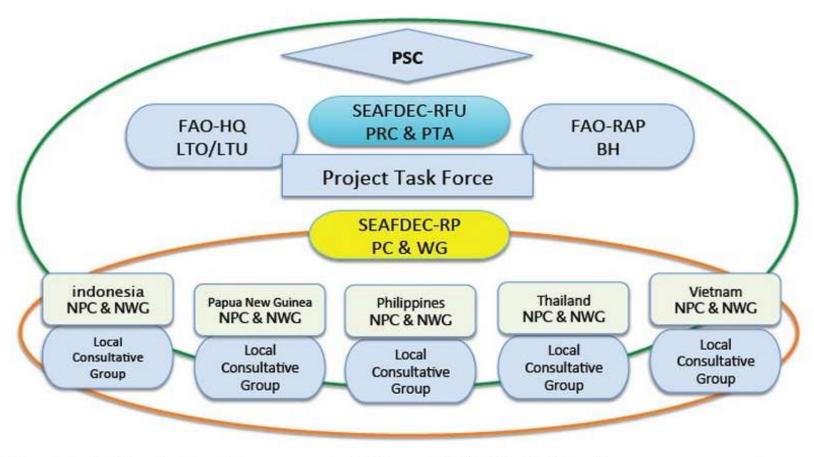
Indonesia: Arafura Sea (Maluku-Papua)

Papua New Guinea: Gulf of Papua

Philippines:



Implementation and Management Arrangements (REBYC-II CTI)



: Project Steering Committee	NPC	: National Project Coordinator	
: Project Regional Coordinator	NWG	: National Working Group	
: Project Technical Advisor	RP	: SEAFDEC Regional Project	
: Budget Holder	PC	: Project Coordinator	
: Local Technical Officer	WG	: Working Group	
: Local Technical Unit		Provide the second of the seco	
	: Project Regional Coordinator : Project Technical Advisor : Budget Holder : Local Technical Officer	: Project Regional Coordinator NWG : Project Technical Advisor RP : Budget Holder PC : Local Technical Officer WG	: Project Regional Coordinator NWG : National Working Group : Project Technical Advisor RP : SEAFDEC Regional Project : Budget Holder PC : Project Coordinator : Local Technical Officer WG : Working Group

Potential solutions may include

- Effective zonation (exclusion from coastal zone)
- Fishing effort controls (self-directed)
- Improved fishing practices, alternative gears
- Effective incentives
- Exclusive access rights, recognition, etc
- Improved legislation/governance
- Improved co-management arrangements
- Awareness, empowering, training, support

An effective mix of policy, technical and community support measures is needed



Project Components

Component 1: Policy, Legal and Institutional framework

Component 2: Resource management and Fishing operations

Component 3: Information management and Communication

Component 4: Awareness and knowledge

+ Project management

Project Planning and Implementation REBYC-II CTI Member Countries

Facilitate on Administrative and Technical Support

RFU+SEAFDEC



1. Policy, Legal and Institutional framework

Activities Frame (FAO-LTU)

- Establishment of national trawl fisheries bycatch management plans
- Adequate legislation and regulations to support the implementation of improved management measures
- Developing Regional bycatch policy/strategy

All Countries

- Establish National Working Groups/ Technical Support Group/Advisory Group and organize Meeting/workshop
- Participation on the regional workshop to develop a regional guidelines on bycatch management and reduction of discards (REBYC-RFU)

Indonesia

Review of policy, legal and institutional framework of Arafura Sea fishery

PNG

 Review of policy to determine if bycatch management in Gulf of Papua (GOP) requires specific management plan or should it form an integral part of GOP fishery management plan

Philippines

Review status of fisheries current policies / regulations

Thailand

 Review the national law and regulation for trawl fisheries and other management measure in project areas

Vietnam

- Review of legal, policy and institutional frameworks for trawl fisheries management in Vietnam
- National circular for trawl fishery management in Vietnam

2. Resource management and Fishing operations

Activities Frame (FAO-LTU)

- Adoption of selective fishing gear and practices
- Basis for implementing zoning of fishing areas and Developing spatial-temporal closure management measures
- Generate better data on number of fishing vessels
- Recommendations for fishing effort and capacity management

All Countries

- Identify, development, trial and assess the appropriate selective fishing gear /practices to reduce bycatch and juvenile of trawl fisheries
- Investigation of priorities for fishing closed area/season

Indonesia

- Identify and mapping of Critical areas
- Review of existing vessel registry systems
- Identify potential incentives packages

PNG

- Review current VMS registry and License condition of trawl fleets
- Research to assess fisheries resources status within 3 mile area

Philippines

- · Fish larval survey and critical habitat mapping
- Training of field officers on inventory procedures & registration/licensing, registry/database systems

Thailand

 Validate existing data and inventory of trawl fishing fleets in the project areas

Vietnam

 Review of status of trawl fisheries and vessel registration system in KienGiang

3. Information management and Communication

Activities Frame (FAO-LTU)

- Bycatch data collection (e.g. at landing sites and onboard vessels, and mapping of fishing ground characteristics),
- Standardized methods for bycatch data collection will be promoted across project countries
- Communicating bycatch data and information (through website and information, education and communication (IEC) material)

All Countries Development of national project webpage

Indonesia

- Standardize data collection
- Training of enumerators/observers to collect data both onboard and landing sites

PNG

- Review/revise Observer programs to develop protocols/forms for trawl fishery data collection
- Develop trawl fisheries database
- Review and revise Logbooks, sampling forms/species guides

Philippines

- Coordination with collaborators to prepare data collections
- Training of enumerators for trawl catch/bycatch landing survey

Thailand

 Conduct data collection, analysis, size composition, proportion of catch, bycatch from mesh size expansion Zonation

Vietnam

- Develop protocols/forms for trawl fishery data collection
- Implement port sampling and trawl fishery logbook data collection program

4. Awareness Building

Activities Frame (FAO-LTU)

- Fishers and other relevant stakeholders have improved their knowledge on bycatch, sustainability issues and collaborative managements
- Regional and national policy and decision-makers have been sensitized with regard to responsible trawl fisheries management
- Private sector, technical officers and extension workers (Government and NGOs) have improved their knowledge on BRDs and other management measures

All Countries

 Consultative meeting/workshop for stakeholders, fishing community and resource owners to introduce project, encourage participation, promote the for responsible trawl fishing and practices

Indonesia

Carry out training needs assessment

PNG

Philippines

Training / Seminar on BRDs & other management measures

Thailand

Vietnam

 Share project information through mass media and brochures distribution on bycatch management activities

Benefits of reduced catches of trash fish and juveniles

Improvement of productive potential of fish stocks

- improved catches in the future (+ the smallscale sector)
- larger size of fish
- larger economic gains
- improved food security
- positive public attitude
- new marketing opportunities

Reduction of the operational costs

- improved catch quality and value
- less gear drag = <u>reduced fuel cost</u>
- reduced sorting time of catch + crew
- higher catch per unit of effort (CPUE)



Expected long-term outcomes of REBYC-II CTI

- Critical barriers for executing responsible fishing by private sector understood and addressed.
- Incentives for trawl operators defined and implemented.
- Institutional arrangements and processes for public and private sector partnership in place.
- Appropriate harvest strategies available.
- Cost-effective measures and practices adopted to reduce catches of juvenile fish and other species at risk
- Improved data on catch composition and on condition of sensitive fishing grounds collected through standardized methods across all project countries.
- Agreed regional trawl management plans













http://www.rebycti.org

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