Symposium Proceedings, No. 13001

Original article

Current supporting activities and the future issues in the Southeast Asia region by Southeast Asian Fisheries Development Center

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Keywords: SEAFDEC; Southeast Asia; Blue swimming crab; Critical habitat; Fishing grounds; Commercial fisheries.

Received: 11 July 2017 / Accepted: 5 September 2017 © 2017 by the authors.

Introduction

The Southeast Asian region is the one of the most abundant fishery areas which has produced various kinds of fishery products distributed worldwide. Southeast Asia Fisheries Development Center (SEAFDEC), which was established in 1967 to promote sustainable fisheries in the Southeast Asia joined by the ten Southeast Asian countries and Japan as Member Countries, has developed fisheries technologies that were disseminated to fishing communities in the region. SEAFDEC has an international cooperation with Japan Trust Fund (JTF) in conducting various projects under four components in 2017 (Table 1).

Table 1. Components and main projects conducted by SEAFDEC supported by JTF in 2017

| Components | Main projects |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Enhancing the capability for sustainable utilization of fisheries resources | - Harmonization of fishery statistics - Combating IUU fishing |
| 2. Strengthening the promotion of sustainable fisheries | Offshore fisheries resources exploration Improving postharvest technology Comparative studies for management of purse seine fisheries Optimizing energy use and improving safety in fishing activities |
| 3. Promotion of sustainable aquaculture and resources enhancement in Southeast Asia | - Reinforcement of fish health management and environment friendly sustainable utilization and management of aquaculture resources - Research for enhancement of sustainable utilization and management of sharks and rays - Promotion of sustainable fisheries resources enhancement measures in critical habitats/fishing grounds |
| 4. Promotion of sustainable development in inland fisheries | |

Source: 49th Meeting of the SEAFDEC Council.

The Project "Promotion of sustainable fisheries enhancement measures in grounds," habitats/fishing conducted SEAFDEC/Training Department is one of the priority projects as listed in the Table 1. The Project, considering the characteristics of the target sites, introduces the appropriate resource enhancement tools (i.e. voluntary management rules) and facilities (i.e. artificial reefs and hatcheries) with capacity building of fishers and local government staff. As one of main activities of the Project, the "Study on Enhancement of Sustainable Management of the Blue Swimming Crab Fisheries" was commenced in July 2017.

Study on Enhancement of the Sustainable Management of the Blue Swimming Crab Fisheries in Cambodia

(1) Background

The blue swimming crab is a high value species that has been promoted in the coastal areas of Cambodia. The blue swimming crab fisheries have contributed to the increase of income of fishing communities. However, the rising trends have caused some problems such as illegal fishing, overfishing, etc., which concerned public sectors that those problems could trigger depletion of the species. Consequently, SEAFDEC launched the "Study on Enhancement of the Sustainable Management of the Blue Swimming Crab Fisheries" for the period 2017-2019 to support Cambodia in the sustainable management of the blue swimming crab fisheries. In this study, Angkaul in Kep Province was selected as the study site (Fig. 1) where a Community Fisheries (CFi) organization exists and involves in blue swimming crab fisheries. Angkaul CFi is supported by several organizations; however, it has not formulated



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The JSFS 85th Anniversary-Commemorative International Symposium "Fisheries Science for Future Generations"

Symposium Proceedings, No. 13001

sustainable management scheme. Hence, this study puts priority on the "sustainability" of crab fisheries.

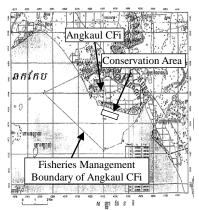


Fig. 1. Map of Angkaul CFi.

(2) Baseline survey and future strategy

The field surveys and meetings conducted by SEADEC, Government of Cambodia, Kep Province, and Angkaul CFi identified the problems, major causes, and measures as shown in Table 2.

Table 2. Problems, major causes, and measures of the blue swimming crab fisheries experienced by Angkaul CFi

| Problems | Major Causes | Measures |
|---------------|----------------------------------------|-----------------------------------------------|
| Illegal | Low recognition | - Implementation of |
| fishing | of the fishers | regulations by the public |
| | toward the | sector and volunteers |
| | regulations | Dissemination and |
| | Weak surveillance | awareness-raising of the |
| | and | regulations to the fishers |
| | implementation of | Capacity building of the |
| | regulation by the | provincial staff |
| | authority | Surveillance of fisheries |
| Diminishing | Increase of catch | activities and conservation |
| size of crab | amount and | areas |
| and depletion | population of | - Installation of the sustainable |
| of crab | fishers | crab bank scheme including |
| | Illegal fishing | rebuilding on-land hatchery |
| | - Weak crab | and releasing the juvenile |
| | propagation | crabs to the conservation |
| | scheme such as | areas |
| | crab bank, rules | - Input of the interest benefit |
| | on closed areas | into the activities above from |
| | and seasons | the micro financing scheme |
| Low benefit | | - Foundation of sustainable |
| from fishing | High interest rate | micro finance scheme for |
| of local | of private loans | fishers by the public sector |
| fishers | | 11311013 by the public sector |

Source: Interview and regional meetings with local fishers and government staff conducted by SEAFDEC in 2017.

This study formulates a micro financing scheme which lends funds to the local fishers with low interest rate to pay for their fishing activities and to manage the crab bank scheme using the interest collected from the fishers to ensure "sustainable management."

(3) Results

It is the first time for Cambodia to formulate a

sustainable fisheries management scheme for the blue swimming crab fisheries with the partnership between Kep Province and Angkaul CFi. SEADEC will put forward this study to formulate the sustainable management scheme eliminating any obstacles and the foundation of financing service for the fishers by the public sector.

Way forward

SEAFDEC is encountering more issues (Table 3) in addition to the serious concerns mentioned above. SEAFDEC is expected to deal with these issues in cooperation with Member Countries.

Table 3. Newly emerging or still serious main issues on ASEAN Regions

| Regions | |
|--------------------------|---------------------------------------------|
| Main issues | Details |
| 1.To establish fisheries | -To continue the development and |
| regulation through the | dissemination of countermeasures against |
| countermeasures | IUU fishing such as electronic ASEAN |
| against IUU Fishing | Catch Documentation Scheme (eACDS) |
| | and Regional Fishing Vessels Record |
| | (RFVR) and to introduce fisheries |
| | management measures to implement the |
| | FAO Port State Measures Agreement |
| | (PSMA) |
| | -To enhance the management scheme of |
| | inland fisheries |
| 2.To develop and | -To develop and disseminate ASEAN |
| disseminate | traceability scheme and ASEAN |
| postharvest | eco-labeling |
| technologies and | -To disseminate technologies and |
| methodologies to | methodologies to enhance the quality and |
| ensure safe and | competitiveness of high-valued fisheries |
| trusted fish products | products |
| to consumers | |
| 3.To enhance | -To enhance resource management of the |
| conservation and | stock of sharks and rays species, and |
| management of | other important marine resources for |
| commercially- | sustainable utilization and to enhance |
| exploited aquatic | capacity to compile fisheries data to |
| resources | assess the stock status of eel species in |
| | timely manner and disseminate measures |
| | for the sustainable utilization |
| | -To develop and disseminate effective |
| | aquaculture technologies for the farmers |
| 4.To enhance healthy | -To strengthen small-scale fisheries and |
| ecosystem and | aquaculture through the dissemination |
| improve the | and development of concerned |
| livelihood of fisheries | methodologies |
| communities | -To manage the critical nursery and fishing |
| | grounds based on scientific and local |
| | knowledge |

Source: 49th Meeting of the SEAFDEC Council.

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