Provisional Prospectus
The On-line Regional Training Course on Sampling Gear Design for Onboard Fisheries Resource Survey

31 August - 4 September 2020
SEAFDEC Training Department,
Samut Prakan, Thailand

1. Background

Marine Fisheries play significant roles to social and economic of the world. Marine productions provide a primary source of protein to people and also contribute the livelihood to many sectors i.e. fisher, trader etc. Many countries in the Southeast Asia region are among the highest producers of fishery products in the world. However, during the past several decades, the growing international, regional and national demands for marine products have led to the continued development and modernization of fishing technology. Unfortunately, this increased demands and the corresponding technology have resulted in the over- exploitation of many fishery resources in the world.

To avoid the fisheries in the region becoming its downward trend same as globally, sustainable fisheries resource management is required. Over the past decades SEAFDEC has collaborated involved SEAFDEC Member Countries to enhance sustainable fisheries resource through the good fisheries governance in order to achieve the sustainable fisheries resource, various type and methodology of fisheries data collection need to improve and implement to support fisheries management particularly carrying out the fisheries resource surveys.

In fisheries research survey, the objective is to obtain data from the stocks and their exploitation, to analyse the characteristics of the resources, the effects of exploitation on the abundance of these resources and to determine appropriate fishing levels to obtain the best possible catches at present and during future years.

SEAFDEC realizes that fisheries resource surveys are an integral part to develop management plan at local, national and regional level. Even though there are many fisheries officer/researcher who could conduct the fishing practice in ASEAN countries but capacity for conducting the fisheries resource surveys still limited. One of the problems is the limitation on design knowledge for fisheries resource survey i.e. sampling gear, sampling site and data record design.

Currently, most of the exiting manual, handbook and guidebook regarding fisheries surveys are developed for fishing practice rather than survey design. It also not details on what and how variable data should be recorded. In this connection, SEAFDEC under supported from Japanese Trust Fund plan to organize the On-line Regional Training Course on Design of Sampling Gear for Onboard Fisheries Resource Survey through the google meet and google classroom application. This training is proposed mainly for junior fishing gear technologist officer/researcher with the training will teach simple and step-by-step. The aim is to enhance the capacity on the design of sampling fishing gear for marine resource survey in their respective countries correctly and systematically and also acquire the basic knowledge for fishery.

2. Objectives

The On-line Regional Training Course on Design of Sampling Gear for Onboard Fisheries Resource Survey is a part of SEAFDEC's initiative to support Member Countries on the human resources (i.e. junior fisheries officers and researchers) capacity building to conduct marine fisheries resources and oceanographic research survey. The objectives of this on-line training are:

1. Human resources (*i.e.* junior fisheries officers and researchers) capacity building to conduct marine fishery resource survey focus on the design of sampling gear and sampling site.
2. Establish the fishery resource survey researcher network in Southeast Asia Region.

3. Activities

The On-line Regional Training Course will be conducted through the google classroom and google meet application. A major activities are planned tentatively as below:

1. Self-learnning sessions: All trainees will be asked self-leaning through watching training-VDO provide by SEAFDEC's resource person via google classroom application. All the training-VDO period is one and half hour, approximately.,
2. Discussion sessions: After self-learning, trainees will have opportunity for 30 minutes to discuss and request more elaboration from resource person if there is a understood point on training-VDO. This session will be conducted through google meet.

Remark: to join us in the google classroom learning platform, trainee need to have gmail or google e-maill address. Please register to gmail if you have no it yet.

4. Outputs

The On-line Regional Training Course is designed to achieve;

1. Researchers and fisheries officers of SEAFDEC MCs improve their knowledge and gain experience on the sampling gear and sampling site design
2. List of researchers as fisheries resources researcher network in Southeast Asia Region

5. Duration of the workshop

Five (5) days during 31 August - 4 September 2020

6. Provisional Subject

1	Introduction to the training course and pre-test examination
2	Introduction and problem of fishery resource survey
3	Sampling gear selection
4	Trawl Design
5	Gillnet Design
6	Longline Design
7	CPUE standardization
8	Sampling process and data recording
9	Fisheries resource survey design technique (sampling station/area)
10	Q&A and Post-test Examination

7. Provisional Training Timetable

The times appear in the Training Timetable is local time in Thailand, UTC,GMT +7 Hours.

Date/Time	Training Activity/Topic	Resource Person	Annotation
31 August			
0900-1100	On-line system trial, introduction to the training course and pre-test examination	Mr. Sukchai Arnupapboon	All trainees will be call on trial the on-line training system. Then, background, objectives, and training arrangement will be introduced following by attendee's pre-test examination
1 September 2020			
0900-1030	Introduction and problem of fishery resource survey (Google classroom application)	Prof. MATSUISHI Takashi Fritz	Research and information need from fisheries survey for management i.e. abundant, size and sex composition and nursing ground as well as lesson learn on the problem of fishery resource survey will be presented
1030-1100	Q-A and discussion (Google meet application)		
1100-1300	Lunch		
1300-1430	Sampling gear selection (Google classroom application)	Mr. Aussanee Munprasit	Trainees will be introduced to sampling fishing gear used by variety of the fishery resource survey purpose including demersal and pelagic species
1430-1500	Q-A and discussion (Google meet)		
2 September 2020			
0900-1030	Trawl Design (Google classroom application)	Mr. Isara Chanrachkij	-Trawl net gear construction and functions -Its operation and performance
1030-1100	Q-A and discussion (Google meet application)		
1100-1300	Lunch		
1300-1430	Gillnet Design (Google classroom application)	Dr. Taweekiet Amornpiyakrit	-Gillnet gear construction and functions -Its operation and performance
1430-1500	Q-A and discussion (Google meet)		
3 September 2020			
0900-1030	Longline Design (Google classroom application)	Mr. Nakaret Yasook	-Longline construction and functions -Its operation and performance
1030-1100	Q-A and discussion (Google meet application)		
1100-1300	Lunch		
1300-1430	Sampling process and data recording (Google classroom application)	Assoc. Prof. Thanitha Darbanandana	Introduction sampling process and data recording technique from the sampling gear (recording fishing log sheet, measuring devices, sampling techniques)
1430-1500	Q-A and discussion (Google meet application)		

Date/Time	Training Activity/Topic	Resource Person	Annotation
4 September 2020			
0900-1030	CPUE standardization (Google classroom application)	Prof. Tuantong Jutagate	-Introduction on the resource assessment -What is the CPUE and its application in fisheries? -How to calculate and standardize the CPUE
1030-1100	Q-A and discussion (Google meet application)		
1100-1300	Lunch		
1300-1430	Fisheries resource survey design technique (sampling station/area) (Google classroom application)	Prof. Tuantong Jutagate	Method for selection the sampling sites. sub-sampling within selected sites and transect samplings
1430-1500	Q-A and discussion (Google meet application)		
1500-1515	Refreshment		
1515-1600	Training Evaluation and Post-test examination (Google meet application)	Mr. Sukchai Arnupapboon	

8. Responsible contact person

Technical Coordinator	Assistant technical coordinator
Sukchai Arnupapboon Fishing Ground and Oceanography Section Head, Research and Development Division, SEAFDEC Training Department Email: sukchai@seafdec.org	Ms. Nathacha Sornwaree Administrative Officer Research and Development Division, SEAFDEC Training Department Email: Natha@seafdec.org