	<p>Training Workshop on Benthic Habitat Mapping, 18-22 February 2013, Southeast Asian Fisheries Development Center, Samut Prakan, Thailand</p>	<p>page 1/4</p>	<p>INF01</p>
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PROVISIONAL PROSPECTUS

1) Background

As resulted from the “Expert Meeting on Deep-Sea Fishing and Its Impact on Ecosystem” organized under project deep-sea fisheries resources exploration in the Southeast Asia during 31 August - 2 September 2010, it was suggested that SEAFDEC should consider to find best practice of the sampling gears which have been developed through the project implementation based on the environmental friendly concept such as mid-water trawl, gill net and bottom vertical longline. It was also suggested that knowledge and experience on bathygraphic mapping should be built for the Member Countries in order to provide a more information on the vulnerable marine ecosystem of their respective waters.

As far as ecosystem-based approach for fisheries management is an international concerns, the seafloor mapping is significantly improve the understanding on this issue and essential for resources management and/or prior the decisions on various activities those effects to the marine ecosystem. In this regard, the human resources capacity building program on the “**Benthic Habitat Mapping**” is provided to the Member Countries to facilitate sustainable development and management of deep-sea fishery resources.

In the program, the following key tasks are set to:



- 1.1 Enhance the human resources capacity on techniques and procedures of benthic habitat mapping; and
- 1.2 Encourage the SEAFDEC’s member countries on of deep-sea resources exploration.

2) Envisaged Outcomes of the Training

- 2.1 To enhance participants knowledge and experiences on techniques and procedures of benthic habitat mapping; and
- 2.2 To build human resources capacity through demonstration and on-board practices using hydro-acoustic, underwater video and imaging and benthic sampling technique.

3) Training Outline

The Workshop will provide participants the knowledge-based of benthic habitat mapping techniques and procedures. Start with the mapping overview on how to identify the habitat and then introduce participants to the optimal methods for habitat mapping and analysis such as sampling design, survey tools and techniques, type of data used, and case studies. Two-day in lecture and discussions and three-day of training on-board M.V. SEAFDEC 2 in the Gulf of Thailand will be conducted. Emphasis will be placed on: how to develop habitat maps using hydro-acoustic (Echo sounder) and underwater video and imaging and benthic sampling technique; how to describe and classify the habitat using such scientific equipments. Completion of a 5-day workshop is required for participation in

		<p>Training Workshop on Benthic Habitat Mapping, 18-22 February 2013, Southeast Asian Fisheries Development Center, Samut Prakan, Thailand</p>	<p>page 2/4</p>	<p>INF01</p>
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this workshop. Presentations and hands-on exercises will familiarize and develop participant's skills of mapping and monitoring the seafloor ecosystem.

4) Time and Venue:

The Workshop will be held at Southeast Asian Fisheries Development Center, Training Department from **18 to 22 February 2013**. Accommodation for participants will be provided at SEAFDEC/TD dormitory.

5) Target Participants:

Target participants are in the field of marine biologist, fishery biologist, and/or researchers/scientists who involves in the field of fishery resources exploration from participated SEAFDEC's Member Countries. Participants should have basic knowledge on marine biology and spreadsheet software.

6) Resource persons:

SEAFDEC/TD will invite resource persons who are professional in marine geology and physical sampling techniques. Resource persons also include fishery biologist who experienced in deep sea resource survey.

The resource persons will provide the presentations and hands-on shipboard exercises to familiarize participants with the techniques and procedure for benthic habitat mapping.

7) Tentative program:

Date/Program	Details of Activity/Topic	Facilitator
Day 1, (Sunday 17 Feb.)		
	Arrival of resource persons and participants Airport pick up arrangement will be provided	SEAFDEC personnel
Day 2, (Monday 18 Feb.): Opening, Introduction, and Lecture		
0900-0915 0915-0930	<ul style="list-style-type: none"> • Opening ceremony/Group photo • Introduction to the workshop 	SEAFDEC SG Dr. W. Wanchana
0930-0945	<i>Break</i>	
0945-1000	<ul style="list-style-type: none"> • Summary activity of Deep-Sea Resource Exploration in the Southeast Asian Region 	Penchan Laongmanee
1000-1100	<ul style="list-style-type: none"> • Habitat mapping overview Bottom topography survey and mapping the sea floor 	Asst.Prof. Pachochoke Jintasaeranee
1100-1200	<ul style="list-style-type: none"> • a case study of Indonesia on the deep sea survey (INDEX Satal 2010) 	Dr. Fayakun satria
1200-1300	<i>Lunch break</i>	



Date/Program	Details of Activity/Topic	Facilitator
1300-1400	<ul style="list-style-type: none"> a case study of Philippine on deep sea assessment on the habitat/resource mapping of RV.DA BFAR 	Ms. Riczyneth A. ARINQUE
1400-1500	<ul style="list-style-type: none"> Application of sonar imaging module on habitat mapping 	Mr. Ulit Ongsaengkoon(Ping Electric Co.,LTD) and Mr. Teo Kian Tat (J.J. Tango Marine Electronics Pte LTD)
1500-1530	<i>Coffee Break</i>	
1530-1700	Introduction to map and georeference fish habitat information	Mr. Wirote Laongmanee
Day 3, (Tuesday 19 Feb.) Onboard M.V. SEAFDEC 2 for demonstration and training		
0900	Shipboard orientation	Capt. M.V.SEAFDEC2
1200-1800	Topographic survey	Group practice
1800-2000	Discussion and topographic data analysis	Participants/ Resource persons
Day 4, (Wednesday 20 Feb.) Onboard M.V. SEAFDEC 2 for demonstration and training		
0700-1000	Bottom trawl for biotic composition	Group practice
1000-1500	Benthic habitat observation by under water VDO camera and ROV	Group practice
1500-1800	Bottom trawl for biotic composition	Group practice
1800-2000	Discussion and topographic data analysis	Participants/ Resource persons
Day 5, (Thursday 21 Feb.) Onboard M.V. SEAFDEC 2 for demonstration and training		
0630-0830	Bottom trawl for biotic composition	Participants/ Resource persons
0830-1300	Substrate collection using grab	Group practice
1300-1600	Generate benthic habitat maps by linking the hydro acoustic data , underwater video and imaging and benthic sampling	Individual
1600	MV.SEAFDEC2 arrive SEAFDEC/TD	
Day 6, (Friday 22 Feb.)		
0900-1030	<ul style="list-style-type: none"> Results presentation (individual) 	Participants/ Resource persons
1030-1100	<i>Break</i>	
1100-1200	<ul style="list-style-type: none"> Discussion and conclusions on the results of the workshop and 	Participants/ Resource persons





Training Workshop on Benthic Habitat Mapping,
18-22 February 2013, Southeast Asian Fisheries Development
Center, Samut Prakan, Thailand

page
4/4

INF01

Date/Program	Details of Activity/Topic	Facilitator
	shipboard practices	
1200-1300	<i>Lunch break</i>	
1300~	Closing ceremony	SEAFDEC DSG

		<p>Training Workshop on Benthic Habitat Mapping, 18-22 February 2013, Southeast Asian Fisheries Development Center, Samut Prakan, Thailand</p>	<p>page 5/4</p>	<p>INF01</p>
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Day 7, (Saturday 23 Feb.)		
	<p>Participants leave for their home countries</p>	<p>SEAFDEC Personnel</p>

8) Contact persons:

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