TD/RP/14 July 1984

REPORT ON THE FIFTH REGIONAL TRAINING COURSE FOR

FISHERY EXTENSION OFFICERS IN FISHING TECHNOLOGY
AND COASTAL NAVIGATION
3 April to 9 May 1984

Submitted by

the Training Department Southeast Asian Fisheries Development Center

to

the Royal Government of the Netherlands

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REPORT ON THE FIFTH REGIONAL TRAINING COURSE FOR FISHERY EXTENSION OFFICERS IN FISHING TECHNOLOGY AND COASTAL NAVIGATION 3 April to 9 May 1984

I. INTRODUCTION

During the period 1981 to 1983, four Regional Training Course for Fishery Extension Officers in Marine Capture Fisheries were organized at the Training Department of SEAFDEC, with the funds kindly donated by the Royal Government of the Netherlands under the Programme for Studies in the Region.

The term "fishery extension" implies the act of conveying to fishermen all relevant technologies for improving their fishing efficiency. This concept greatly influenced the content of the first three training curricula, which included an average of 12 subjects for each course. In order to equip the extension officers with the knowledge and skills to deal with various problems encountered by the fishermen. However, to cover so many subjects within a short period of time prevented the ideal in-depth training in each subject. With this fact in mind, the curriculum of the fourth course was substantially modified by reducing the number of subjects. Intensive training was therefore conducted in a few specific subjects of relevance to a fishery extension course. This form of training proved so successful, as indicated by the favourable response given when the fourth course was evaluated in June 1983, that the curriculum of the fifth course was arranged along the same lines, with Fishing Technology and Coastal Navigation as the core subjects. Participants were then trained intensively in these fields, with emphasis on practical work, both ashore and at sea.

Invitations to nominate participants in the fifth training course were sent to ten countries in the region, i.e., Bangladesh, Brunei, Burma, India, Indonesia, Malaysia, Philippines, Singapore, Sri Lanka, and Thailand. Six countries responded and sent participants to attend the course as follows:-

India	1
Indonesia	2
Malaysia	5
Philippines	4
Sri Lanka	2
Thailand	8
Total	22

The list of participants and instructors is given as Annex A.

II. OBJECTIVES OF THE COURSE

The course had the following objectives:

- 1. To provide intensive training in marine fishing technology.
- To familiarize the fishery officers with techniques and methodology employed in improving the efficiency of marine capture fisheries in the region.
- To provide experience and practical knowledge relating to coastal navigation, with the aid of all navigating instruments existing on board a fishing vessel.

As in the previous courses, emphasis was placed on the practical knowledge required for carrying out extension services. The proper construction of fishing gears by participants themselves under the supervision of instructors, the satisfactory operations at sea of these fishing gears and the participants' ability to navigate in coastal waters, were the major goals of this course. Participants were also trained to improvise fishing gear accessories using local materials such as bamboo, wood for certain kinds of buoys and natural fibre for ropes. Each practice session was preceded by either a brief lecture or a demonstration, or both; and ample training materials were provided for repeat trials.

III. COURSE OUTLINE

The curriculum of the Fifth Regional Training Course consisted of the following three subjects for class room study and workshop practice:

- 1. Fishing Technology: (13 days class and workshop)
 - 1.1 Fisheries in general
 - 1.2 Fishing Methods
 - 1.3 Fishing Gear Design (Trawl Net, Gill Net, Trap Net, Squid Fishing Gear, Hook and Line) and Construction
 - 1.4 Net Making and Repair
 - 1.5 Practice on rope and wire, marlin spike.

2. Coastal Navigation: (four days class and practice)

- 2.1 Locating ship's position (cross bearing by magnetic and gyrocompasses, direction finder, radar and sextant)
- 2.2 Chart-readings, dead reckoning
- 2.3 Hand drawn map of coastline and landmarks
- 2.4 Star map, identification of stars commonly used in navigation
- 2.5 Introduction to deep sea navigation.

3. Fishing Communities and Cooperatives: (one day class)

- 3.1 Development of small-scale fishing communities
- 3.2 Pattern of fishery cooperatives in Southeast Asia and Japan
- 3.3 Marketing system and problems.

Apart from class-room study and workshop practice, five field trips to various places of interest were arranged, and eight days were spent on board M.V. PAKNAM for shipboard training at sea.

IV. TRAINING PROGRAM

1. Shore Activities: Daily morning sessions were held in the class room from 0850-1200 hrs. Introductory lectures preceded the afternoon practical sessions in the workshop or on board the moored training vessels between 1300 and 1600 hrs. (see Schedule of Activities, Annex B). To ensure that every participant during the afternoon practice received adequate attention, five instructors and assistants were normally assigned to conduct the training in the workshop of 22 participants, averaging a ratio of 1:4 trainer to trainees.

Several fishing gears were constructed and prepared for the actual operation at sea by the participants themselves. Gears for line-fishing, e.g., marlin long-line, and trolling line, including the portable folding-trap for crab, and purse-box net for squid, were constructed entirely by the participants. A trawl net newly designed for use on board M.V. PAKNAM was partly constructed by the participants. As regards the other fishing gears i.e., purse cast-net, squid jig, and bottom vertical long line, that were needed for operation during the

cruise, the participants were instructed how to prepare these gears so that they would be in serviceable condition when required. Participants were also encouraged to use their own initiative in improving their local fishing gears, taking into account the nature of the fishing grounds and catch in their own country.

- 2. Field Trips: After five full days of hard training at the Center, several Saturdays were spent on field trips to places of interest. The following were visited during the course:-
 - 7 April 1984 :

Visited Thai Seri Cold Storage, to study the freezing system for the mass preservation of catch and a fish processing plant in Samutprakarn Province to observe their system of automation as well as the production lines and the hygiene measures applied during processing.

14 April 1984

0500-0800: Visited the Fish Marketing Organization Head Office in Bangkok to observe the early morning fish auction, wholesale and retail sales of other marine products, species and amount of daily landings. Participants were briefed on the activities of the Organization.

1300-1600: Visited Siam Brothers Co., Ltd., a net-making factory in the district of Phrapradaeng, Samutprakarn, to observe the manufacturing of ropes and fishing nets of various types and sizes, using plastic or nylon pellet as raw material.

21 April 1984

Rayong Province, to visit a fishery station, the Fishermen's Association, and the local fish market. Observed the local purse seiners, types and sizes of purse seines in use, crab gill net and squid lift net. Participants were also taken to a shrimp farm and fish farm (sea bass and grouper), a slip-way for the repair of local fishing boats, and an engine repair workshop. They visited fishing communities and gathered data for

the socio-economic survey of small-scale fishermen. Over night at Ban Phe's Fishery Station.

22 April 1984

0500: Visit to Ban Phe fish market to observe the auction of squid, the local processing of dried squid and the fish meal plant. Left Rayong at 0900 for Pattaya in Chon Buri Province to visit the fishing port, the Marine Science Center of the Srinakarinviroj University at Bangsaen where the Aquarium and Marine Sciene Museum were recently opened. Back to the Center at 1845 hrs.

28 April 1984

OFGANIZATION IN SAMUTSAKORN Province to observe the auction of marine products, and landings of catch as well as the Organization's procedures. Also visited a fisheries cooperative; and a fish ball plant to observe production.

1300-1500: Visited a local shrimp farm at Banglane, Nakhon Prathom, to observe the culture of freshwater prawn, and the production of artemia.

5 May 1984

1000-1200: Visited the National Institute of Coastal Aquaculture (NICA) in Songkhla Province. Participants were briefed on sea bass and shrimp culture. The construction of fish-shelters to be used in coastal areas of Songkhla Province was shown to the participants.

3. Shipboard Training at Sea: An eight-day shipboard training in fishing operations and coastal navigation was carried out on board M.V. PAKNAM, the Training Department's 380 gross-ton trawler. The cruising area was the Gulf of Thailand as far as Songkhla. Participants were able to stay on board throughout the sailing period as the vessel is large enough to accommodate 22 persons without having to resort to a shore base as in the case of the smaller purse seiner "PLATOO".

M.V. PAKNAM's spacious bridge deck is suitable for training in coastal navigation and she is fully equipped with navigating instruments.

M.V. PAKNAM left the pier on 1 May 1984, as scheduled, and headed for the selected fishing grounds. On the way, fishing operations and coastal navigation, were conducted alternately. All participants took part in the daily activities, and were encouraged to construct gears themselves in order to find out if they worked well or needed adjustment. Coastal navigation was practised during sailing time, or during fishing operations, when there were idle periods between casting the nets and hauling them in. Both day-time and night-time fishing operations were carried out regardless of the normal rest periods. Details of the training are set out in Cruise Order No. PAKNAM 67-2/1984 as shown in Annex C.

V. EVALUATION

Generally speaking, the end of course evaluation, in which the participants cooperated by answering a questionnaire, proved to be constructive. Most participants were in favour of the present training arrangement. The comments on coastal navigation showed that the participants appreciated the inclusion of coastal navigation in the curriculum, However, it was pointed out that the time devoted to this subject was not sufficient whether it be class room lectures or sea training.

With regard to the curriculum, most participants favoured intensive training in fewer subjects rather than instruction in many subjects within the same period of training. The present curriculum, with emphasis on a small number of subjects, would therefore seem to be the most suitable for future regional training courses to be held at SEAFDEC Training Department. The questionnaire and evaluation results are given in Annex D.

VI. CONCLUSION

The success of the training in general can be appraised by the result of shipboard practice, when the theory taught to participants was applied. All participants had a chance to test the fishing gear constructed by them and the result was satisfactory. Gear that yielded the best performance during the cruise was the newly-constructed trawl net that scooped up over one ton of catch at a time, indicating that the net opened fully.

An unprecedented arrangement was made for this course. In order to keep a record of all training activities, both ashore and at sea, a group of video-recording specialists were employed to take pictures of all the main events of the course from the opening to the closing ceremonies. The video cassettes thus obtained are being used as a tool for the improvement of the training as well as being kept for future reference.

Instruction in the class room was much enhanced by additional training aids such as slide, film and overhead projectors, a microphone, a video-casette player, etc.

All participants were active and energetic and showed particular enthusiasm for the practical work. The majority of them favoured a longer duration of the course. Nevertheless, the present curriculum, which concentrates study in a few specific fields, was well accepted by the majority of participants.

LIST OF PARTICIPANTS AND INSTRUCTORS

Participants

INDIA

Mr. K.N.V. Nair
 Assistant Director
 Fishery Survey of India
 Post Box No.1572, Botawala Chambers,
 Siv. P.M. Road, Bombay 400 001
 India

INDONESIA

- Mr. Heronimus Hure
 Counterpart for small-scale fisheries
 development project
 JL. Udayana No.3, Mataram Lombok
 Indonesia
- Mr. Pranoto
 Instructor on Marine Fisheries
 Training Center, Tegal, Indonesia
 JL. Martoloyo, P.O. Box 22,
 Tegal, Central Java
 Indonesia

MALAYSIA

- Mr. Anas bin Haji Nasir Fisheries Officer Marine Fisheries Department P.O. Box 1316, Sibu, Sarawak, Malaysia
- Mr. Razali bin Zainudin
 Fishery Administrative Officer (Extension)
 Marine Fisheries Department
 P.O. Box 1375, Kuching, Sarawak
 Malaysia

- Mr. Mazuki bin Hashim
 Fisheries Administrative Officer (Extension)
 Fisheries Department of Malacca,
 Quaside Road, Malacca
 Malaysia
- 4. Mr. Adnan bin Othman Fisheries Administrative Officer (Extension) Fisheries Headquarters, Wisma Tani, Jalan Mahameru, Kuala Lumpur 10-02 Malaysia
- Mr. Rayner Stuel Galid Fisheries Officer Dept. of Fisheries, Kota Kinabaru, Sabah Malaysia

PHILIPPINES

- Mr. Reynaldo C. Fernandez
 Junior Fishery Technologist
 Bureau of Fisheries and Aquatic Resources
 Region-I, Dacupan City
 Philippines
- Mr. Nelson B. Bien
 Jr. Fishery Technologist
 Fisheries Regional Office No.3
 San Fernando, Pamqanga
 Philippines
- Mr. Terry B. Posadas
 Fishery Biologist
 Bureau of Fisheries and Aquatic Resources
 Region-12, Cotabato City
 Philippines
- Mr. Wilfredo A. Buitizon
 Fishery Extension Specialist I
 Bureau of Fisheries and Aquatic Resources
 Region-5, Legasdi City
 Philippines

SRI LANKA

- Mr. A.S.H. Wickrematunge Fisheries Inspector Ministry of Fisheries Colombo 10 Sri Lanka
- Mr. D.S. Nandasena
 Fisheries Inspector
 Prema Niwasa, Gomaragoda Payagola
 Sri Lanka

THAILAND

- Mr. Peera Ausomboom Technician Phuket Marine Fisheries Station Thailand
- Mr. Suchart Yangsup Technician Phuket Marine Fisheries Station Thailand
- Mr. Sujate Na Nakorn
 Fishery Technologist
 Rayong Marine Fisheries Station
 Thailand
- Mr. Wuttichai Uttayamakul Marine Fishery Biologist Exploratory Fishing Division Samutprakarn Thailand
- Mr. Kittpong Klinrod Marine Fishery Biologist Marine Fisheries Division Yannawa, Bangkok Thailand
- Mr. Tuan Tong Tang Captain, R.V. Fisheries Research No.1 Exploratory Fishing Division Samutprakarn Thailand

- 7. Mr. Apichart Termvidchakorn
 Marine Fishery Biologist
 Oceanographic Section
 Exploratory Fishing Division
 Department of Fisheries
 Samutprakarn
 Thailand
- 8. Lt. Jarroug Sreevanich Captain, R.V. Fishery Research No.2 Exploratory Fishing Division Department of Fisheries Samutprakarn Thailand

II. Instructors

Dr. Veravat Hongskul

Secretary-General/Chief of the Training

Department

(Course Evaluation)

Dr. Shigeaki Shindo

Deputy Secretary-General/Deputy Chief

of the Training Department

(Fishery in General)

Capt. Vudhi Sudhasaneya, RTN. :

Head of Training Division

(Orientation; Course Evaluation)

Mr. Tomeyoshi Yamazaki

Head of Research Division

(Basic Fishing Gear Technology;

Fishing Gear Design)

Mr. Prasert Masthawee

Head of Fishing Technology Section

(Line Fishing and Construction of Fishing Gear; Wire and Rope splicing

practice)

Mr. Masatake Okawara

Fishing Instructor

(Trap Net Fishing and Preparation of

Fishing Gear)

Mr. Masato Oishi

Masterfisherman

(Coastal Navigation)

Mr. Ausanee Munprasit

Researcher in Fishing Gear

(Squid Fishing)

Mr. Bundit Chokesanguan

: Assistant Instructor

(Trawl Fishing and Gear Design)

Mr. Somnuk Pornpatimakorn

Research Assistant

(Fishing Communities)

Fifth Regional Training Course for Fishery Extension Officers in Fishing Technology and Coastal Navigation (3 April - 9 May 1984)

SCHEDULE OF ACTIVITIES

3 April (Tuesday)

1030-1200 : Opening ceremony. Introduction of staff and

participants. (Dr. Shindo, Capt. Vudhi)

1300-1600 : Course orientation. Film and slide show on

fishing operations and fishing industries.

(Capt. Vudhi, Mr. Okawara)

4 April (Wednesday)

0850-1200 : Fishery in general. (Dr. Shindo)

1300-1600 : Basic fishing gear technology. (Mr. Yamazaki)

5 April (Thursday)

0850-1200 : Fishing gear design. (Mr. Yamazaki)

1300-1600 : Rope splicing practice. (Mr. Prasert)

6 April (Friday) National Holiday

0900-1200 : Excursion to the Ancient City. (Mr. Somnuk,

Mr. Bundit)

7 April (Saturday)

0900-1200 : Visit to Thai Seri Cold Storage, and Fish

Processing Plant in Samutprakarn Province.

8 April (Sunday) : Rest

9 April (Monday)

0850-1200 : Fishing gear design. (Mr. Yamazaki)

1300-1600 : Rope splicing practice. (Mr. Prasert)

10 April (Tuesday)

0850-1200 : Fishing gear design. (Mr. Yamazaki)

1300-1600 : - ditto -

11 April (Wednesday)

0850-1200 : Line fishing and construction of fishing gear.

(Mr. Prasert)

1300-1600 : - ditto -

12 April (Thursday)

0500-0800 : Visiting Fish Market Organization Head Office

in Bangkok.

0900-1200 : Construction of Fishing Gear at net workshop.

1300-1600 : Visiting Net Making Factory "Siam Brothers

Co., Ltd. (Messrs. Prasert, Bundit, Somnuk)

13 April (Friday) National Holiday.

14 April (Saturday)

0900-1200 : Line fishing and construction of fishing gear.

(Mr. Prasert)

15 April (Sunday) Rest.

16 April (Monday)

0850-1200 : Trap net fishing and preparation of fishing gear.

(Mr. Okawara)

1300-1600 : - ditto -

17 April (Tuesday)

0850-1200 : Trap net fishing and preparation of fishing gear.

(Mr. Okawara)

1300-1600 : - ditto -

18 April (Wednesday)

0850-1200 : Trawl fishing and gear design. (Mr. Bundit)

1300-1600 : - ditto -

19 April (Thursday)

0850-1200 : Trawl fishing and gear design. (Mr. Bundit)

1300-1600 : - ditto -

20 April (Friday)

0850-1200 : Fishing communities. (Mr. Somnuk)

1300-1600 : - ditto -

21 April (Saturday)

0800 : By bus to Rayong to visit a fishery station

(Dept. of Fisheries), the Fishermen's Association

and fishing communities at Banphe, Rayong Province. Overnight stay in Rayong Province. (Messrs. Prasert, Somnuk, Bundit, Ausanee)

22 April (Sunday)

0900-1600 : Back to the Center via Pattaya.

23 April (Monday)

0850-1200 : Squid fishing. (Mr. Ausanee)

1300-1600 : - ditto -

24 April (Tuesday).

0850-1200 : Coastal navigation. (Mr. Oishi)

1300-1600 : - ditto -

25 April (Wednesday)

0850-1200 : Coastal navigation. (Mr. Oishi)

1300-1600 : - ditto -

26 April (Thursday)

0850-1200 : Coastal navigation. (Mr. Oishi)

1300-1600 : - ditto -

27 April (Friday)

0850-1200 : Squid fishing. (Mr. Ausanee)

1300-1600 : - ditto -

28 April (Saturday)

0500-1600 : Visit to a fish market, fisheries cooperative

and shrimp farm in Samutsakorn, Province

(Messrs. Prasert, Somnuk)

29 April (Sunday) Rest.

30 April (Monday)

0850-1200 : Introduction to deep sea navigation. (Mr. Oishi)

1300-1600 : - ditto -

1 May (Tuesday) to 8 May (Tuesday)

0900 : All participants on board M.V. PAKNAM, to leave

the pier at 0930 hrs. Shipboard training in:

Fishing operations

Marlin longline

Bottom vertical longline

3) Trawl fishing

4) Trap net fishing

5) Squid fishing

Coastal navigation

- Locating ship's position by magnetic compass, cross bearing, direction finder, radar, dead reckoning.
- Chart reading practice, application of chart to the actual coastline and land marks.
- Hand-drawn map of coastline and land marks.
- 4) The use of sextant in cross-bearing.
- 5) Star map and how to identify stars commonly used in navigation.
- Visit to National Institute of Coastal Navigation at Songkhla.

M.V. PAKNAM arrives at SEAFDEC pier at 1000 hrs, on 8 May 1984.

9 May (Wednesday)

0850-1200 : Evaluation. (Dr. Veravat, Dr. Shindo, Capt. Vudhi,

Mr. Prasert, Mr. Somnuk, Mr. Bundit,

Mr. Ausanee, Mr. Oishi, Mr. Yamazaki,

Mr. Okawara)

1700-1900 : Closing ceremony.

- 2.3 Bottom vertical longline
- 2.4 Marlin longline
- 2.5 Trawl fishing

3. Acoustic activity

3.1 Topographic survey by echo-sounder

4. Study tour

4.1 Visit to The National Institute of Coastal Aquaculture at Songkhla Southern Thailand

6. Navigation and training schedules:

- 6.1 All participants of the Fifth Regional Training Course embark on board M.V. PAKNAM on Tuesday, May 1, 1984 at 09.00 hours. The vessel leaves SEAFDEC/TD pier at 09.30 hours and proceeds to the stick held cast net fishing ground. Starting coastal navigation training by radar and gyrocompass for cross bearings and cross circles of distance (Station No.139).
- 6.2 Arriving at station No.139 on Wednesday, May 2, 1984 at 02.30 hours. Starting to study on cross bearings and circles of distance to fix position, and topographic survey.
- 6.3 Starting stick held cast net fishing operation from 19.00 hours until the completion at 24.00 hours.
- 6.4 Starting chart reading training on Thursday, May 3, 1984 at 00.30 hours and proceeding to the trap net fishing ground at station No.180.
- 6.5 Arriving at station No.180 at 04.00 hours and starting trap net fishing operation at 04.30 hours until the completion at 06.30 hours.
- 6.6 Study on coastal navigation; dead reckoning, cross bearings, navigational instruments and aids at 09.00 hours and proceeding to the bottom vertical longline fishing ground at station No.203.

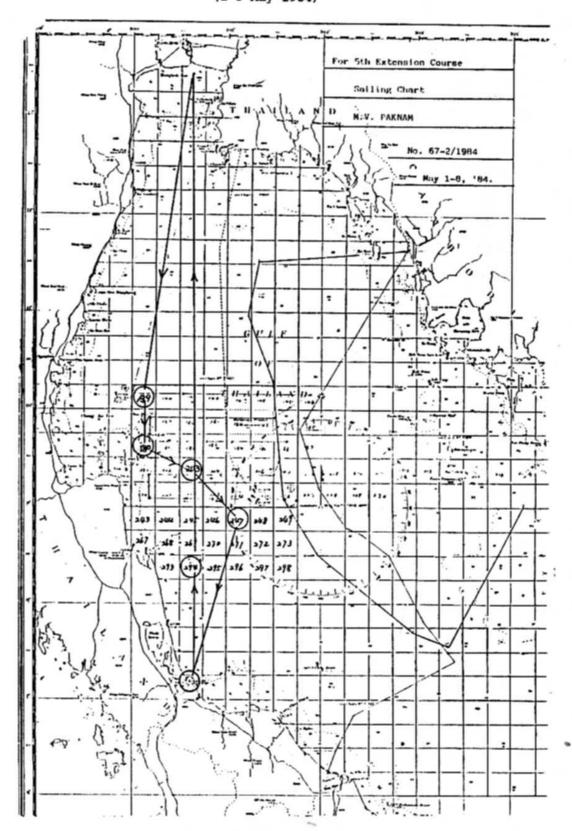
- 6.7 Arriving at station No.203 at 13.00 hours and starting bottom vertical longline operation until completion at 17.00 hours. Starting navigation training: draw the coastline and calculate the time of arrival, etc.; proceeding to the marlin longline fishing ground station No.247.
- 6.8 Arriving at station No.247 at 22.00 hours and drifting.
 Starting coastal navigation by radar to observe the leeway, etc.
- 6.9 Starting marlin longline fishing operation on Friday, May 4, 1984 at 04.00 hours until the completion at 15.00 hours. Starting on coastal navigation: compass error and calculation of the time of arrival at Songkhla Province.
- 6.10 Arriving at Songkhla on Saturday, May 5, 1984 at 06.00 hours.
 All participants will be visiting the National Institute of
 Coastal Aquaculture.
- 6.11 The vessel leaves Songkhla at 18.00 hours and proceeds to the trawl fishing ground station No.294.
- 6.12 Arriving trawl fishing ground station No.294 on Sunday, May 6, 1984 at 01.50 hours, anchoring and starting to study errors of position between the method of cross bearings and of cross circles on the chart.
- 6.13 Starting trawl fishing operation at 05.00 hours until completion at 18.00 hours and starting to study coastal navigation. Preparations for return to SEAFDEC/TD.
- 6.14 Review of coastal navigation and fishing technology on Monday, May 7, 1984 at 09.00 hours, comparison of coastal navigation satellite system and radar fix until 16.00 hours.
- 6.15 Arriving SEAFDEC/TD pier on Tuesday, May 8, 1984 at 10.00 hours.
- 7. Personnel in charge of the training program:
 - 7.1 The instructors on board will be in charge of the training program.
 - 7.2 All ship staff should cooperate with the instructors and participants in carrying out the training activities.

- 8. Participants:
 - 8.1 All ship staff of M.V. PAKNAM.
 - 8.2 Additional personnel from SEAFDEC/TD.
 - 8.3 All participants of the Fifth Regional Training Course.
- 9. Financial matters:
 - 9.1 During the cruise, normal established rates of sea allowance to be applied to all ship staff and additional personnel from SEAFDEC/TD on board.
 - 9.2 A balance sheet of expenditure for supplies and provisions during the cruise shall be submitted to FIDH within one week after the return of the vessel to SEAFDEC/TD pier.
- 10. All essential data and information for preparation of the cruise report should be submitted to the appropriate Section Heads (Fishing and Engineering) for completion.

	16 April 1984	(signed)
Date:		

Veravat Hongskul Secretary-General and Chief of the Training Department

Sailing Chart of M.V. PAKNAM (1-8 May 1984)



Fifth Regional Training Course for Fishery Extension Officers in Fishing Technology and Coastal Navigation (3 April to 9 May 1984)

EVALUATION RESULTS

1. How does the course suit you ? In view of:-

1.1 Training duration : Too short: 8; Too long: 1; Fair: 13.

1.2 Number of subjects : Too many: 4; Too few: 1; Fair: 17.

1.3 Subjects : the content is too brief: 10;

too long: 2; appropriate: 10.

1.4 Method of training : need more theory: 7; more practice: 6;

efficient: 8; inefficient: 1. etc.

1.5 Other comments :

Training facilities : sufficient: 12; insufficient: 3.

Training site : too isolated: 12;

proper location for training: 6.

2. Is there any other fishing gear, in your opinion, should be included for fishery extension services ?

Yes: Purse seine (11), set net for coastal waters (2),
bag net (1), Pole & Line (1), mid-water trawl (1),
gill net (2)

 Please comment on "Coastal Navigation" regarding the training duration, contents, and method of training at sea.

Highest appreciation of training as given by instructor on Coastal Navigation; time provided for the subject was too short (19).

4. Are study trips to places related to fishery beneficial to you?
If so, in what respect: Please comment, if not.

Yes : 17

No : 1, some study trips were not well arranged in view of food, accommodation, etc.

5. What fishing gears are most used in your local area of operation: Please state the location of area(s).

Malaysia (East Coast) : Shrimp trawl, bottom trawl, gill net, drift net, purse seine.

Malaysia (Southern Peninsula) : Gill net, long line, bottom vertical long line.

Indonesia : Gill net, purse seine, long line, bottom long line, pole and line.

Philippines: Purse seine, long line, gill net, vertical long line, fish trap.

India : Trawl, gill net, purse seine, long line.

Sri Lanka : Purse seine, tuna long line.

Thailand: Trawl, purse seine, long line, drift net, squid fishing nets, etc.

6. Back at home, are you continuing to work in the field of Fishery Extension ?

Yes : 17

No : 4

7. If not, in what field are you expecting to be posted?

Administrative : 3

Resource (population dynamics) : 1

8. What part of the year (month) is most suitable to your home office in dispatching participants to take part in such a course abroad?

Any month: 4

April - July : 7

January - March : 7

November - December : 4

9. Comment on the life at SEAFDEC Training Department, dormitory, etc.

Alright, except:-

Communication gap at the dormitory, different taste of food, bathing water a bit salty, washing machine not functioning, sport facilities not sufficient, no video player to subdue boredom on weekends.

- 10. Any suggestion for course improvement, e.g., need for more detailed instruction or more lecture periods on any particular subjects.
 - 10.1 : More detailed instruction on the design and construction of various fishing gears.
 - 10.2 : Some subjects were too detailed and technical.
 - 10.3 : Longer duration is needed for such a course, 2 to 3 months' duration.
 - 10.4 : Inclusion of seamanship, especially the International Maritime Rules of the Road; Boat design and construction, engine repair and maintenance; Aquaculture.
 - 10.5 : Longer shipboard training in fishing operation and navigation.
 - 10.6 : Lectures should be more academic and advanced, while practice to be more on technical work than at present, since the participants are of university grade.
 - 10.7 : Discussion, and recommendations to be made right after each fishing operation.
 - 10.8 : SEAFDEC's assistance to be extended to the former participants when needed.

TD/RP/17

September 1985

REPORT ON THE SIXTH REGIONAL TRAINING COURSE FOR

FISHERY EXTENSION OFFICERS IN EXTENSION METHODOLOGY
AND THE SOCIO-ECONOMIC ASPECT OF SMALL-SCALE FISHERIES
1 July to 15 August 1985

Submitted by

the Training Department Southeast Asian Fisheries Development Center

to

the Royal Government of the Netherlands

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REPORT ON THE SIXTH REGIONAL TRAINING COURSE FOR FISHERY EXTENSION OFFICERS IN EXTENSION METHODOLOGY AND THE SOCIO-ECONOMIC ASPECT OF SMALL-SCALE FISHERIES 1 July to 15 August 1985

INTRODUCTION

The Training Department has conducted regional training courses for fishery extension officers since 1981, with assistance from the Royal Netherlands Government under the SIR Program. Five training courses, with a total of 115 fishery officers from ten countries in the South and Southeast Asian regions, were organized by the Department between 1981 and 1984.

Under its program for 1985, the Training Department organized the Sixth Regional Training Course for Fishery Extension Officers from 1 July to 15 August 1985. The emphasis of this course was placed on extension methodology and the socio-economic aspect of small-scale fisheries as suggested at the sixth meeting of the Program Committee (Manila, 23-26 August 1983).

Invitations to nominate participants to the sixth training course were sent to eleven countries in the region i.e., Bangladesh, Brunei, Burma, India, Indonesia, Maldives, Malaysia, Philippines, Singapore, Sri Lanka and Thailand. Eight countries responded and sent participants to attend the course:

Bangladesh	2
India	2
Indonesia	2
Maldives	1
Malaysia	4
Philippines	4
Sri Lanka	2
Thailand	_8
Total	25

The list of participants and instructors is given as Annex A.

II. OBJECTIVES OF THE COURSE

The course had the following objectives:

- To provide intensive training in extension methodology and the socio-economic aspect of small-scale fisheries;
- To familiarize the fishery officers with techniques and methodology pertaining to extension work;
- To provide practical experience and knowledge relating to the socio-economic aspect of small-scale fisheries in the region; and
- To expose extension officers from the regions to the problems facing the livelihood of coastal small-scale fishermen and their families.

III. COURSE OUTLINE

The curriculum of the Sixth Regional Training Course consisted of the following four subjects for classroom study and field practice:

- Basic concepts of fisheries extension work (14 days, classes and practice)
 - 1.1 Extension Philosophy
 - 1.2 Extension Methodology
 - 1.3 Program Planning Process in Extension Work
 - 1.4 Agricultural Extension in Thailand
 - 1.5 Fisheries Extension in Thailand
 - 1.6 Some Problems of Asian Extension Work
 - 1.7 Development Communication
 - 1.8 Communication Media
 - 1.9 Media Design and Development
 - 1.10 Preparation of Graphic Media

- 1.11 Slide and Sound-Slide for Extension Work
- 1.12 Guidelines for the Study of Target Audiences
- 1.13 Practice on Communication Media for Extension Work
- Socio-economic Aspect of Fishing Communities (13 days, classes and practice)
 - 2.1 Fishing Communities in General
 - 2.2 Types of Fishing Communities
 - 2.3 Characteristics of Small-scale Fishing Communities
 - 2.4 Development of Small-scale Fishing Communities
 - 2.5 Socio-economic Survey Methodology
 - 2.6 Fishing Communities Survey Practice
- 3. Fishery Cooperatives (3 days, classes)
 - 3.1 Structure of Fishery Cooperatives
 - 3.2 Function of Fishery Cooperatives
 - 3.3 Fishery Cooperatives Business
 - 3.4 Prospects for Fishery Cooperatives
 - 3.5 Fishery Cooperatives in Thailand
- 4. Small-scale Fisheries Development Programs (2 days, classes)
 - 4.1 Small-scale Fisheries Development Concept
 - 4.2 Problems and Constraints of Small-scale Fisheries Development Programs
 - 4.3 Small-scale Fisheries Development Programs in Thailand

IV. TRAINING PROGRAM

1. Lecture and Practice

During this course, the training was conducted not only at the Training Department but also at the Training Center of Kasetsart University, Kamphaeng Saen Campus, Nakhon Pathom Province. The participants spent two weeks at the center for lectures and practice on the topics of extension methodology and extension communication. Communication media practice on the topic of "Fish Farming" for extension work was also conducted, (Annex B).

With regard to the topic of the "Socio-economic Aspect of Fishing Communities", a lecture on socio-economic survey methodology was given to the participants and survey practice was done at Ko Prued Sub-district, Laem Sing District, Chanthaburi Province. Data and information obtained from the survey was processed, analysed and a draft report of the survey prepared.

2. Field Trips

During the training period, field trips to agencies and places relating to the fishery industry were organized.

Trips to places of interest were generally made on Saturdays and Sundays where the training was conducted outside the Training Department: The places visited were:

3 July 1985: Visited Fish Marketing Organization (FMO) in Bangkok, at 0500 hrs., to observe fish landings and marketing activities. Visited the Thai Seri Cold Storage Co., Ltd., to observe fish processing, packaging, freezing, storing, etc.

13 July 1985 : Trip to Bang Lain, Nakhon Pathom, to observe shrimp farming.

27 July 1985 : Visited Fishery Cooperatives and Fishermen's
Groups in Chon Buri to observe their activities,
and went to the Marine Science Center to see
the Aquarium and Fish Museum.

30 July 1985: Trip to the selected fishing communities in Chantaburi Province.

10 August 1985 : Trip to Samut Sakhon and Samut Songkhram to observe shrimp farming.

V. EVALUATION

As for each of the previous training courses, the success of the training was evaluated at the end of the training period by asking participants to fill in a questionnaire asking them to give their views on the course. In general, most of the participants were satisfied as regards the training duration, number of subjects, content of subjects, method of training, etc.

A summary of the results of this evaluation is given as Annex C.

VI. CONCLUSION

In this training course, the instructors were SEAFDEC Training Department staff, and guest lecturers from Thai agencies including officers from the Department of Fisheries and the Department of Agricultural Extension as well as professors from Kasetsart University, Bangkok. The participants acquired experience from practical training on extension methodology at the Training Center of Kasetsart University, Kamphaeng Saen Campus, which is equipped with all of the communication materials for extension work. A practice socio-economic survey of a fishing community in Chantaburi Province helped the participants understand the structure of a fishing community and the procedures for a fishing community survey.

To conclude this report, it can be said that the Sixth Extension Course was conducted satisfactorily, all the objectives having been achieved.

LIST OF PARTICIPANTS AND INSTRUCTORS

A. Participants

BANGLADESH

- Mr. A.K.M. Siddique Fisheries Extension Officer Ministry of Agriculture Dhaka, Bangladesh
- Mr. Md. Ataur Rahman Information Officer (Fisheries) Agriculture Information Service Khamarbari, Farmgate, Dhaka-15 Bangladesh

INDIA

- Mr. Kottayarukil Madhavan Rajan Assistant Instructor (Seamanship & Navigation) Central Institute of Fisheries Nautical & Engineering Training Roxapuram, Madras 600013 India
- Mr. Chakknath Panamketty Aravindakshan Nair Assistant Instructor Central Institute of Fisheries Nautical & Engineering Training Dewans Road, P.B. No. 1720 Cochin-682016 India

INDONESIA

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INDONESIA (Cont'd)

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MALAYSIA

- Mr. Shahimi bin Ali
 Assistant Fisheries Officer
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 Malaysia
- Mr. Abdul Halim bin Abdullah Deputy Maritime Fisheries Officer Fisheries Extension Center Kuala Kedah Kedah, Malaysia
- Mr. Michael Rimong Anak Danggat Fisheries Assistant (Special Grade) Marine Fisheries Department Kuching, Sarawak Malaysia
- 4. Mr. Ahmad Khiar bin Zainol Fisheries Assistant Department of Fisheries 8 & 9th Floor, Wisma Tani Jalan Mahameru, Kuala Lumpur Malaysia

MALDIVES

 Miss Aminath Latheefa Senior Statistical Officer Ministry of Fisheries Ghezee Building Male 20-06, Maldives

PHILIPPINES

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 Senior Fishery Technologist
 Fisheries Extension Division
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 Bureau of Fisheries & Aquatic Resources
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 Philippines
- Mr. Zosimo P. Guazon
 Junior Fishery Technologist
 Bureau of Fisheries & Aquatic Resources
 National Capital Region, Frabal Bldg.,
 H. Lopez, Navotas, Metro Manila
 Philippines
- 3. Mr. Virgilio W. Gudarido Extension Officer Bureau of Fisheries & Aquatic Resources Regional Office No.7, Talibon District Fishery Office Talibon, Bohol Philippines
- 4. Mr. Dante N. Dimerin Supérvising Fishery Technologist Ministry of Agriculture & Food Bureau of Fisheries & Aquatic Resources Regional Office No.12, P.C. Hill Cotabato City Philippines

SRI LANKA

- Mr. Sri Ranjith Sepala Pandita Dahanayake Fisheries Inspector Fisheries Extension Office Ministry of Fisheries Maligawatta Colombo 10 Sri Lanko.
- Mr. Thilak Chandradattha Nanayakkara Fisheries Inspector Fisheries Extension Office Ministry of Fisheries Maligawatta, Colombo 10 Sri Lanko.

THAILAND

- Mr. Supol Chitrapongse
 Marine Fishery Biologist
 Marine Fisheries Division
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 Yanawa, Bangkok 10120
- Mr. Somdej Sookbunterng Fishery Officer Rayong Marine Fisheries Station Department of Fisheries Banphe, Rayong Province 21160
- Mr. Chumlong Sae-Eng
 Fishery Biologist
 Satul Brackishwater Fisheries Station
 Department of Fisheries
 La-Ngu, Satun Province 91110
- 4. Mr. Jirapong Nutasarin Fishery Biologist Freshwater Fisheries Division Udon Tani Fisheries Station Department of Fisheries Udon Tani Province 41000
- 5. Mr. Sombat Tungkasen
 Extension Officer
 Kanchanaburi Freshwater Fisheries
 Station
 Department of Fisheries
 Kanchanaburi Province 71000
- 6. Mr. Sutee Sinsoontorn Fisheries Officer Fisheries Extension Division Department of Fisheries Ministry of Agriculture & Cooperatives Rajdamnern Avenue, Bangkok 10200
- 7. Mr. Daroonsak Jaiger
 Fishery Officer
 Fisheries Extension Division
 Department of Fisheries
 Ministry of Agriculture & Cooperatives
 Rajdamnern Avenue, Bangkok 10200

THAILAND (Cont'd)

8. Mr. Yutasak Pantanaprateze
Fishery Officer
Fishermen Welfare Sub-Division
Fisheries Extension Division
Department of Fisheries
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B. Instructors

TRAINING DEPARTMENT STAFF

- Dr. Veravat Hongskul Secretary-General and Chief of the Training Department Southeast Asian Fisheries Development Center Liaison Office of the Secretariat and the Training Department 956 Olympia Building, 4th Floor Rama IV Road, Bangkok 10500
- Mr. Kazuo Inoue
 Deputy Secretary-General and Deputy Chief
 of the Training Department
 Southeast Asian Fisheries Development Center
 Liaison Office of the Secretariat and the
 Training Department
- Capt. M.R. Vudhi Sudhasaneya, RTN
 Head of Training Division and
 Marine Engineering Instructor
 SEAFDEC, Training Department
 P.O. Box 4, Phrapradaeng
 Samutprakarn 10130
- Mr. Kungwan Juntarashote
 Head of Statistics and Socio-Economics Section
 Research Division
 SEAFDEC, Training Department
- Mr. Masahiro Yamao
 Expert in Fisheries Socio-Economics
 Research Division
 SEAFDEC, Training Department

- Mr. Somnuk Pornpatimakorn Head of Training Aids Unit Training Division SEAFDEC, Training Department
- 7. Mr. Bundit Chokesanguan Assistant Instructor Training Division SEAFDEC, Training Department
- 8. Miss Pouchamarn Sorayuthasene Statistics and Socio-Economics Assistant Research Division SEAFDEC, Training Department

II. GUEST LECTURERS

- Mr. Manu Potaros
 Chief of Coastal Aquaculture
 Research Sub-Division
 Brackishwater Fishery Division
 Department of Fisheries of the
 Ministry of Agriculture & Cooperatives
 Bangkhen, Bangkok 10900
- Mr. Somyos Sidtichokpun Senior Fisheries Biologist Brackishwater Fishery Division Department of Fisheries of the Ministry of Agriculture & Cooperatives
- Mr. Somsak Chullasorn
 Senior Marine Fisheries Biologist
 Marine Fisheries Division
 Department of Fisheries
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 Yanawa, Bangkok 10120
- Mr. Somsak Pramokeshutima Senior Marine Fisheries Biologist Marine Fisheries Division Department of Fisheries

- Miss Panipa Hanvivatanakit Fisheries Economics Section Department of Fisheries
- Mr. Charern Sukhanantapong
 Chief of Planning Sub-Division
 Department of Agricultural Extension
 Ministry of Agriculture & Cooperatives
 Rajdamnern Avenue, Bangkok 10200
- Mr. Chulhathep Pongsroypech
 Chief of Seed Center No. 3
 Department of Agricultural Extension of the
 Ministry of Agriculture & Cooperatives
 Lampang Province
- 8. Dr. Adisak Sreesunpagit Evaluation Section Cooperative Promotion Department of the Ministry of Agriculture & Cooperatives Bangkhen, Bangkok 10900
- Miss Laddawan Praditpolpanich Aquaculture Laboratory Section of the Ministry of Agriculture & Cooperatives Bangkhen, Bangkok 10900
- 10. Dr. Direk Rerkrai
 Professor
 Institute of Extension & Training
 Kasetsart University
 Bangkhen, Bangkok 10900
- 11. Dr. Boontham Chitanan Professor Institute of Extension & Training Kasetsart University
- 12. Mr. Suchote Daosukho
 Professor
 Institute of Extension & Training
 Kasetsart University

- 13. Mr. Narong Sompong
 Professor
 Institute of Extension & Training
 Kasetsart University
- 14. Mr. Thavatchai Sankatiprapa Professor Institute of Extension & Training Kasetsart University

TRAINING SCHEDULE

1	July	(Monday)		
		10.30 - 12.00	1	Opening Ceremony. Introduction of Staff and Participants (Dr. Veravat Hongskul and Capt. M.R. Vudhi Sudhasaneya, RTN)
		13.00 - 16.00	:	Course Orientation, Film and Slide Shows on Fishing Industries (Capt. M.R. Vudhi Sudhasaneya, RTN and Mr. Somnuk Pornpatimakorn)
2	July	(Tuesday)		
		08.50 - 12.00	:	Fisheries in General (Mr. Kazuo Inoue)
		13.00 - 16.00	:	Basic Concepts of Fisheries Extension Work (Mr. Manu Potaros)
3	July	(Wednesday)		
		05.00 - 10.00	:	Visit Fish Marketing Organization and Thai Seri Cold Storage Co., Ltd. (Mr. Somnuk Pornpatimakorn)
		13.00 - 16.00	:	Fishery Extension in Thailand (Mr. Somyos Sidtichokpun)
4	July	(Thursday)		
		08.50 - 12.00		Philosophy of Extension (Dr. Adisak Sreesunpragit)
		13.00 - 16.00	:	- ditto -
5	July	(Friday)		
		08,50 - 12,00	:	Extension Philosophy & Principles (Dr. Direk Rerkrai)
6	July	(Saturday)		Free

7 July (Sunday) : Move to Kasetsart University Training Center at Kamphaeng Saen Campus, Nakhon Pathom 8 July (monday) 08.50 - 12.00 : Program Planning Process in Extension Work (Dr. Boontham Chitanan) 13.00 - 16.00 - ditto -9 July (Tuesday) 08.50 - 12.00 : Agricultural Extension in Thailand (Mr. Charoen Sukhanantapong) 13.00 - 16.00 : Some Problems of Asian Extension Work (Mr. Chulathep Pongsroypech) 10 July (Wednesday) 08.50 - 12.00 : Development Communication (Mr. Thavatchai Sankatiprapa) 13.00 - 16.00 : Communication Media (Mr. Suchote Daosukho) 11 July (Thursday) 08.50 - 12.00 : Media Design and Development (Mr. Suchote Daosukho) 13.00-16.00 : Preparation of Graphic Media (Mr. Narong Sompong) 12 July (Friday) 08.50 - 12.00 : Slide and Sound-Slide for Extension Work (Mr. Narong Sompong) 13.00 - 16.00 : Preparation of Guidelines for the Study of Target Audiences (Mr. Suchote Daosukho)

: Field Trip: Bang Lain, Nakhon Pathom

(Mr. Somnuk Pornpatimakorn)

13 July (Saturday)

09.00 - 16.30

:

14 July (Sunday)

: Excursion : Damnernsaduak floating market, Nakhon Pathom, Rose Garden and Buddha Monton (Mr. Somnuk Pornpatimakorn)

15 July (Monday)

08.50 - 12.00

: Prioritize Needs and Determination of Communication Strategies (Mr. Suchote Daosukho, Mr. Narong Sompong, Mr. Somnuk Pornpatimakorn)

13.00 - 16.00

: Development of Materials (Mr. Suchote Daosukho, Mr. Narong Sompong, Mr. Somnuk Pornpatimakorn)

16 July (Tuesday)

08.50 - 12.00

: Development of Materials (Mr. Suchote Daosukho, Mr. Narong, Sompong, Mr. Somnuk Pornpatimakorn)

13.00 -16.00

- ditto -

17 July (Wednesday)

08.50 - 12.00

- ditto -

13.00 - 16.00

- ditto -

18 July (Thursday)

08.50 - 12.00

: Pre-testing of Draft Materials (Mr. Suchote Daosukho, Mr. Narong Sompong, Mr. Somnuk Pornpatimakorn)

13.00 - 16.00

: Revision and Finalization (Mr. Suchote Daosukho, Mr. Narong Sompong, Mr. Somnuk Pornpatimakorn)

19 July (Friday)

08.50 - 12.00

: Preparation for Presentation (Mr. Suchote Daosukho, Mr. Narong Sompong, Mr. Somnuk Pornpatimakorn)

13.00 - 16.00 : Presentation of the Output (Mr. Suchote Daosukho, Mr. Narong Sompong, Mr. Somnuk Pornpatimakorn) 20 July (Saturday) 08.00 - 16.00 : Return to SEAFDEC Training Department 21 July (Sunday) : Free 22 July (Monday) 08.50 - 12.00 : Fishery Cooperatives (Mr. Masahiro Yamao) 13.00 - 16.00 - ditto -23 July (Tuesday) 08.50 - 12.00- ditto -13.00 - 16.00 : - ditto -24 July (Wednesday) 08.50 - 12.00 - ditto -13.00 - 16.00 : Fishery Cooperatives of Thailand (Miss Panipa Hanvivatanakit) 25 July (Thursday) 08.50 - 12.00 : Fishing Communities (Mr. Kungwan Juntarashote) 13.00 - 16.00 : Socio-economic Aspect of Fishing Communities (Mr. Kungwan Juntarashote) 26 July (Friday) 08.50 - 12.00 : Socio-economic Survey Methodology (Mr. Kungwan Juntarashote) 13.00 - 16.00 - ditto -

27 July (Saturday)

09.00 - 16.00

: Visit to Fishery Cooperatives and Fishermen's Groups and the Marine Science Center in Chon Buri Province (Mr. Kungwan Juntarashote and Miss Pouchamarn Sorayuthasene)

28 July (Sunday)

: Free

29 July (Monday)

08.50 - 12.00

: Preparation for Fishing Communities

Survey

:

(Mr. Kungwan Juntarashote and Miss Pouchamarn Sorayuthasene)

13.00 - 16.00

- ditto -

30 July (Tuesday)

08.00

: Field Trip to the Selected Fishing Communities for Survey Practice

(Chanthaburi Province)

(Mr. Kazuo Inoue, Mr. Chumpol

Nagalaksana, Mr. Kungwan Juntarashote and Miss Pouchamarn Sorayuthasene)

31 July (Wednesday)

08.00 - 17.00

: Field Survey Operation

1 August (Thursday)

08.00 - 17.00

: Field Survey Operation

2 August (Friday)

08.00 - 17.00

: Field Survey Operation

3 August (Saturday)

09.00

: Return to SEAFDEC Training Department

4 August (Sunday)

: Excursion : Bangkok

5 August (Monday) 08.50 - 12.00 : Data Processing (Mr. Kungwan Juntarashote and Miss Pouchamarn Sorayuthasene) 13.00 - 16.00 - ditto -: 6 August (Tuesday) 08.50 - 12.00 - ditto -13.00 - 16.00 - ditto -7 August (Wednesday) 08.50 - 12.00 : Discussion on Fishing Communities Survey (Mr. Kungwan Juntarashote and Miss Pouchamarn Sorayuthasene) 13.00 - 16.00 - ditto -8 August (Thursday) 08.50 - 12.00: Report Preparation (Mr. Kungwan Juntarashote and Miss Pouchamarn Sorayuthasene) 13.00 - 16.00 - ditto -9 August (Friday) 08.50 - 12.00 - ditto -13.00 - 16.00 - ditto -10 August (Saturday) : Field Trip : Samut Sakhon, Samut Songkhram; and excursion to Phetchaburi (Mr. Bundit Chokesanguan) 11 August (Sunday) : Excursion : Ancient City and

12 August (Monday) (Public Holiday)

: Excursion : Bangkok

(Mr. Bundit Chokesanguan)

Crocodile Farm

13 August (Tuesday)

08.50 - 12.00

: Problems and Constraints of Small-scale Fisheries (Dr. Veravat Hongskul)

13.00 - 16.00

: Small-scale Fisheries Development
Programs (Miss Laddawan Praditpolpanich)

14 August (Wednesday)

08.50 - 12.00

: Small-scale Fisheries Development Programs (Mr. Somsak Chullasorn)

13.00 - 16.00

: Small-scale Fisheries Development Programs (Mr. Somsak Pramokeshutima)

15 August (Thursday)

08.50 - 12.00

: Evaluation (Capt. M.R. Vudhi Sudhasaneya, RTN, Mr. Kungwan Juntarashote, Mr. Somnuk Pornpatimakorn and Miss Pouchamarn

Sorayuthasene)

18.00 - 21.00

: Closing Ceremony

(Dr. Veravat Hongskul)

ANNEX C

RESULTS OF EVALUATION (Inquiry by Questionnaire)

1. Training duration

Too short: 3 Too long: 2 Fair: 20

2. Number of subjects

Too many: 0 Too few: 2 Fair: 23

3. The content of subjects

Too brief: 5 Too long: 2 Appropriate: 18

4. Method of training

Need more theory: 1 Need more practice: 7 Efficient: 17

- 5. Comments on training facilities, training site, etc.
 - 1. Training facilities are limited. (3)
 - 2. It would be better if Navigation and Fishing Methods were added. (1
 - A ventilation fan is needed since some participants smoke in the lecture room. (4)
 - 4. Entertainment program should be provided. (1)
 - 5. The existing training program is too tight and this causes a slight strain on the participating officers. (1)
 - 6. Training site is too far from town. (1)
- Comments on "Extension Methodology" and "Socio-Economic Aspect of Small-Scale Fisheries" regarding the training duration and content.
 - A knowledge of the socio-economic aspect of small-scale fisheries is of most interest to me; however, a knowledge of extension methodology is also useful when making plans for fisheries extension in my office.

- A knowledge of the socio-economic aspect of small-scale fisheries is more beneficial than extension methodology. But when considering the duration and materials, the socio-economic aspect content was rather limited.
- 3. Both subjects bear equal importance and I therefore, feel that the main focus should be on strategies in relation to the actual problems, and also that the cross-examination of the socio-economic aspect, in the actual areas of study, should be given as targets.
- 4. Need more practice for extension methodology.
- The duration of the extension methodology training is too short, it should be 3-4 weeks.
- 6. The time spent on the socio-economic aspect is too short. The topics and their practices should be examined in relation to participant country conditions, not just those of Thailand, for better application of the training.
- 7. The training course should be shortened to one month.
- The course content on extension methodology is too brief.
 But the socio-economic content is fair.
- The extension methodology is based mainly on agricultural aspects rather than marine fisheries.
- 10. More emphasis should be given to the socio-economic aspects, since this subject is the key to extension services.
- 7. Are study trips to places related to fisheries beneficial to participants?

Yes: 24 No: 0 No reply: 1

In what respect?

- 1. In understanding the real situation of fishing households. (8)
- 2. In understanding fisheries. (1)
- In understanding the function of agencies related to fisheries.
- 4. To gain much practical knowledge about fisheries. (2)

8.

9.

10.

3. In understanding the role of fishery cooperatives. (1)				
6. To gain experience. (3)				
7. To acquire a better understanding of fishery administration. (1)				
Back at home, are you going to continue to work in the field of Fisheries Extension?				
Yes: 21 No: 0				
. That depends on the government policy (2)				
. That depends on the administrators (2)				
Appropriate scheduling for training				
. Any month (10)				
. April to October (1)				
. Latter part of the year (12)				
. March to August (1)				
5. September to February (1)				
Comments on the SEAFDEC dormitory.				
1. Bathroom facilities should be improved. (8)				
. Difficult to communicate with the dormitory staff. (1)				
. Food quality is not consistent. (3)				
4. Food and accommodation is fair to excellent. (11)				
5. No comment. (2)				
Suggestions for course improvement.				
1. Need more practice. (4)				

2. Need more emphasis on Extension Methodology. (1)

3. Need more field practice. (3)

- 4. Need more detail in each subject. (1)
- Lectures should be in the morning session and practice in the afternoon. Lectures should also be given in the evening in order to transfer detailed knowledge. (1)