



Establishment and Operation of a Regional System of Fisheries *Refugia* in the South China Sea and Gulf of Thailand

REPORT

STAKEHOLDER CONSULTATION WORKSHOP

KOH KONG, CAMBODIA 12-14 SEPTEMBER 2017

Prepared by FISHERIES ADMINISTRATION, CAMBODIA

SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
TRAINING DEPARTMENT







Asian Fisheries United Nations
Hent Center Environment

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I. OPENING WORKSHOP

- 1) The stakeholder consultation workshop was organized by Fisheries Administration (FiA) of Cambodia collaborating with Koh Kong Fisheries Administration Cantonment on 12th to 14th September 2017 funded by SEAFDEC/UNEP/GEF Fisheries Refugia. At the first day (12th September 2017), The workshop was conducted at meeting room of Koh Kong Fisheries Administration Cantonment, participating 20 people from departments of agriculture, forestry, and fisheries, Koh Kong Fisheries Administration Cantonment, department of environment, tourism, and public works and transport, district and commune authorities, and provincial police (Annex 1 & 2).
- 2) **Mr. Ouk Vibol**, Director of Department of Fisheries Conservation, firstly expressed thanks to all participants who take their opportunities to attend the workshop today. He was happy to meet all you and has chance to discuss some issues related to Mackerel spawning time and habitat. He added that when is Mackerel closed and it is closed for 3 months from 15th January to 31st March. Then he asked again concerning spawning time of Mackerel during January to March or not. Participants replied that Mackerel can spawn during November to January or February. However, this is the Declaration Statement of the MAFF, so we need to respect that regulation. Therefore, please all stakeholders help protect Mackerel and identify its spawning habitat. He declared to open the workshop from now. (**Annex 1,2&3**)
- 3) At the secondary day (13th September 2017), the workshop was conducted at Peam Krasob commune's meeting room in Mondol Seima district, Koh Kong province, participating 39 people from fishermen and community fisheries.
- 4) **Ms. Neang Khun**, Peam Krasob Commune Council Head, firstly she thanked the project teamwork from FiA, especially **Mr. Ouk Vibol**, Director of Department of Fisheries Conservation and all fishermen who take their chances to join the workshop today. This is our chance again meeting together, which the teamwork presented short mackerel, so please pay attention for that point because that is a new project. That project is very important for us and targeted to enhance our livelihood. She added that she invited 30 fishermen, mostly saw women to attend that meeting because men were busy to work outside, so please all women transferred the knowledge learning from that workshop to their husband. (**Annex 1,2&3**)
- 5) Mr. Ouk Vibol, Deputy Director of Department of Fisheries Conservation, firstly expressed thanks to Ms. Neang Khun, Peam Krasob Communce Council Head and all fishermen who attended the workshop. He raised questions to participants related to fishing closed season of Mackerel for 3 months from 15th January to 31st March in order to want to know whether all fishermen heard that regulation. Mostly participants are not familiar with its fishing closed season. Then he asked again concerning spawning time of Mackerel during January to March or not. Participants replied that Mackerel can spawn during November to January or February. However, this is the Declaration Statement of the MAFF, so we need to respect that regulation. After that workshop, the project teamwork planned to create patrol group to protect illegal fishing of Mackerel based on the regulation of fishing closed season, so please all stakeholders help protect Mackerel and identify its spawning habitat. He declared to open the workshop from now. (Annex 1,2 & 3)
- 6) At the Third day (14th September 2017), the workshop was conducted at Koh kapi commune's meeting room in Mondol Seima district, Koh Kong province, participating 39 people from fishermen and community fisheries.
- 7) Mr. Khun Vanna, Koh Kapi Commune Council Head expressed thanks to Mr. Ouk Vibol, Director of Department of Fisheries Conservation and all participants. The project teamwork from FiA targeted to establish fisheries refugia in order to protect and ensure sustainable fish stock, especially contribute to the enhancement of fishermen livelihood. Therefore, please all participants help identify Mackerel spawning habitat. He added that 95% of people living in Koh Kapi are depending on fishing.

8) **Mr. Ouk Vibol**, Deputy Director of Department of Fisheries Conservation, firstly expressed thanks to **Mr. Khun Vanna**, Koh Kapi Commune Council Head and all fishermen. He raised when Mackerel fishing time is closed? At that time, they cannot catch Mackerel, but can catch shrimp for example. Mackerel is closed for 3 months from 15th January to 31st March. But we don't know about its spawning habitat. Fisheries Refugia need to protect any specie during its spawning time, so please all participants help consider whether where Mackerel spawns and when. This is very important for project teamwork to prepare and protect fisheries resources. He declared to open the workshop from now. (**Annex 1,2&3**)

II. SUMMARY OF WORKSHOP OBJECTIVES AND PURPOSE

9) **Ms. Chin Leakhena**, Deputy Director of Department of Administration and Litigation introduced and presented the workshop objectives and purposes, focusing on the discussion of selected sites, aquatic species in selected sites, connection between fish biology and its environment, problem setting, and threating important fish species. Long-term results of the project included sustainable fishery resources management, increasing important fish species, marine natural balance, sustainable fishing fishermen, increasing local livelihood.

2.1 Overview of objectives of SEAFDEC/UNEP/GEF fisheries refugia initiative

10) Mr. Leng Sy Vann introduced and presented overview of objectives of SEAFDEC/UNEP/GEF FISHERIES REFUGIA INITIATIVE. His presentation focused on longer-term project goal, medium-term project objectives, and specific project objective. The longer-term project goals focused on transformational change in how the fisheries and environment sectors work together, medium-term project objectives focused on align with those of the fisheries component of the Strategic Action Programme for the South China Sea; and specific project objective focused on operational management of key threats to fish stock and critical habitat linkages. He added that the project of fisheries refugia has 4 components, including 1) component 1: Identification and management of fisheries and critical habitat linkages at priority fisheries refugia in the South China Sea; 2) component 2: Improving the management of critical habitats for fish stocks of transboundary significance via national and regional actions to strengthen the enabling environment and knowledge-base for fisheries refugia management in the South China Sea; 3) component 3: Information Management and Dissemination in support of national and regional-level implementation of the fisheries refugia concept in the South China Sea and Gulf of Thailand; and 4) component 4: National and regional cooperation and coordination for integrated fish stock and critical habitat management in the South China Sea and Gulf of Thailand.

2.2 Background of strategic action program for south china sea and development of fisheries refugia initiative

11) Mr. Leng Sy Vann presented the Background of Strategy Action Program for South China Sea and Development of fisheries *refugia* initiative, focusing on GEF's role in addressing global environment problems, especially South China Sea and Gulf of Thailand. The GEF is established in 1992 in Brazil, and which has its mechanism to solve these problems happening through TDA (Transboundary Diagnosis Analysis) and SAP (Strategic Action Program). To address these issues, GEF setting its goal is to promote collective management of transboundary water system and implementation of full range of policy, legal and institutional reforms, and investment contributing to sustainable use and maintenance of ecosystem services. He added that so the Project of Establishment and Operation of Regional System of Fisheries *Refugia* in South China Sea and Gulf of Thailand has been developed in GEF-6 IW

Strategy that is the project to help and solve global environment issues and also to ensure sustainable fishery resources uses. Therefore, Fisheries *Refugia* concept developed and what is the Fisheries *Refugia*? Fisheries *Refugia* are "Spatially and geographically defined, marine or coastal areas in which specific management measures are applied to sustain important species [fisheries resources] during critical phases of their life-cycle, for their sustainable use.". So far, the regional fisheries refugia sites are identified for 52 known spawning and nursery areas.

2.3 Discusson of watching video clip on fisheries refugia initiative

12) **Ms. Chin Leakhena** introduced and presented Video Clip on fisheries refugia initiative prepared by SEAFDEC. She explained the importance of the video clip providing ideas and experiences done in Southeast Asia countries. And then she raised main points of the video, including pressure of fishing ground, blast fishing, seagrass and coral reef destruction, water pollution from factories and tourism sector development. In particular, Thai expert from SEAFDEC raised and warried about the capture of juvenile making impact of fish stock and brood stock at future. These make fisheries resources declined gradually. Therefore, fisheries refugia initiative plays main roles in ensuring food security, income, and enhancement of local livelihood with more than 270 million people living on SCS' s coastal to promote sustainable use rather than prohibiting fishing.

III. RESULTS OF WORKSHOP

A. Group discussion on identification of provincial program/project related to sustainable development

- 13) **Ms. Chin Leakhena** explained to participants from the relevant departments, district and commune authorities, provincial police related to provincial sustainable development projects/programs. There are many provincial development projects/programs raised during the discussion. They included as follow:
 - Sewage Filtered Project supported/funded by ABD has costed USD 1million to USD 1.5millions. That project has been started in 2017, that is implemented by Ministry of Tourism collaborating with Department of Tourism at Kep province. That project has targeted to work at Crab market in Damnak Chorng Oeur District, Kep province.
 - Corridor Project funded by ADB has been implemented by the Ministry of Environment, focusing on mangroves plantation at Peam Krasob area and supporting alternative livelihood for local people since 2016 until now.
 - IIRR funded by EU has implemented activities of mangroves plantation at Peam Krasob area and supporting alternative livelihood since 2016.
 - Dolphin Conservation Project funded by IUCN

B. Group discussion on priority fisheries specie and threat to fish life cycle and critical habitat linkage

14) **Ms. Chin Leakhena** explained to participants about how to do the matrix of priority fisheries specie and threat to fish life cycle and critical habitat linkage. There are many stages of fish life cycle such as spawning, juvenile, and adult. She added that one specie, Mackerel, is selected to discuss in Koh Kong province. Then she was divided into 2 groups and each group used flipchart to write on the matrix.

15) In general, the discussion results from the relevant departments, district and commune authorities, provincial police showed in the matrix below (Annex 4):

SPECIES	LIFE-CYCLE STAGE	THREAT	IMMEDIATE CAUSE	ROOT CAUSE	MANAGEMENT ACTION
Mackerel	Spawning	Spawning Habitat loss	 Illegal fishing Purse seine net trawlers with light Trawlers with mosquito size net from 2.5 to 3cm 	 High market demand High price Illegal fishing from outside area of Preah Sihanouk 	 Establishment of fisheries refugia Strengthening patrolling group to make MCS Strengthening law enforcement Extending fisheries law Making cooperation with relevant stakeholders Strengthening transboundary-bilateral operation

16) But the discussion results from fishermen generally showed in the matrix below (Annex 5):

SPECIES	LIFE-CYCLE STAGE	THREAT	IMMEDIATE CAUSE	ROOT CAUSE	MANAGEMENT ACTION
Mackerel	Spawning From November to January at Koh Kapi, Prek 3& 2, Boeung Kachang, Koh Yor, and Koh Nou	 Habitat loss Seagrass loss Over fishing 	 Electro fishing Illegal fishing Mackerel Gill net with mosquito size net Light Luring Trawlers Purse seine net trawlers from Thailand and Vietnam 	 High market demand High market demand in Thailand and Vietnam High price Destructive fishing gears 	 Establishment of fisheries refugia Strengthening patrolling group to make MCS Strengthening law enforcement Extending fisheries law Making cooperation with relevant stakeholders Strengthening transboundary-bilateral operation

C. Group discussion on stakeholder analysis and engagement planning

- 17) Ms. Chin Leakhena explained to participants about how to do stakeholder analysis using the chart of X-axis talking about Interest and Y-axis talking about Influence. Scoring is from 0 to 10 meaning that the score is more and more higher, interest and influence are more and more stronger. Then she was divided into 3 groups to discuss this question and each group used flipchart and to write sticky notes on it.
- 18) In general, the discussion results from the relevant departments, district and commune authorities, provincial police showed there are many stakeholders concerning fisheries refugia project, including provincial authority, district authority, commune council, provincial relevant

departments, provincial armed forces, NGOs, private sector, and local community. Each stakeholder has made strong commitments and supported fisheries recourse protection, especially fisheries resource protection project. For example, provincial armed forces, district, and commune authorities' interests and influences is strongest to protect fisheries resources and crack down illegal fishing. Koh Kong Fisheries Administration Cantonment of Department of Agriculture, Forestry, and Fisheries are highly interested and strongly influential (i.e. Interests=10 and Influence=9), but provincial other relevant departments (Environment and Tourism Departments) are high interested but their influences are still low. However, they still pay attention and join to fisheries resource protection and crack down illegal fishing when there are illegal fishing happening. For NGOs, their interests are high, but low influence. (Annex 6)

- 19) But the discussion results from fishermen generally showed there are many stakeholders concerning fisheries refugia project, including provincial authority, district authority, commune council, provincial relevant departments, provincial armed forces, NGOs, private sector, and local community. Each stakeholder has made strong commitments and supported fisheries recourse protection, especially fisheries resource protection project. For example, provincial authority's interests and influences is strongest (i.e. interests=10 and influence=10) and provincial relevant departments are high interested but their influences are still low if compared with armed force and provincial, district, and commune authorities. For exception, Koh Kong Fisheries Administration Cantonment of Department of Agriculture, Forestry, and Fisheries are highly interested and strongly influential (i.e. Interests=10 and Influence=9). However, they still pay attention and join to fisheries resource protection and crack down illegal fishing when there is illegal fishing happening. (Annex 7):
 - D. Discussion of the collation of baseline information and data related to fish life cycle and critical habitat links, as well as fishing effort dynamices
- 20) **Ms. Chin Leakhena** introduced and explained to all participants from relevant departments and fishermen. The project has planned to collect the baseline information related to fish life cycle and critical habitat links as well as fishing effort dynamics. The information is very important for the project to prepare work plan for project implementation.
- 21) Plans for the baseline information collection will be conducted in Peam Krasob, Koh Kapi area, and Village 4, providing useful information for the fisheries refugia project at Koh Kong province. In addition, the information of fishing effort dynamics consists of electro fishing, Mackerel grill net, pair purse seine net trawler, and destructive fishing gear, that those fishing gears are applied at fishing ground of Koh Nou, Bak Klorng channel, Peam Krasob, Koh kapi, Koh Moul, because those grounds are productive of Mackerel.
- 22) Generally, based on discussion results indicated Mackerel spawns from November to January at Koh Kapi, Peam Krasob, Prek 3& 2, Boeung Kachang, Koh Yor, and Koh Nou. The mostly spawning habitats are found at Koh Kapi, Peam Krasob and Koh Nou (ANNEX 3). Juveniles are found from January to March at Peam Krasob channel and Mangroves area, and Koh Moul (Lamdam). For adults they are found from April to July at Koh Kong Krao to Thailand border.
 - E. Discussion of planning socio economic survey in use assessment impact of area based management in the localities of fisheries refugia sites
- 23) **Ms. Chin Leakhena** introduced and explained to participants that the project will plan to conduct socio economic survey to evaluate the project impact assessment after end project. The survey will be possible at 4th quarter of this year and it is so useful for the project implementation specially to compare pre- and post-project.

F. Discussion of communication and use of media

24) Ms. Chin Leakhena introduced and explained to participants about communication and use of media at Koh Kong province. According to the discussion result, many kinds of media have been communicated through Telegram, Facebook, and Messengers. Mostly, they have used Facebook for communication in their workplace and private services, and it also becomes a popular media at Koh Kong province.

IV. CLOSE OF THE WORKSHOP

25) **Mr. Ouk Vibol**, Director of Department of Fisheries Conservation, on behalf of Fisheries Refugia Project Teamwork from FiA expressed very much thanks to all participants from relevant departments, district and commune authorities, provincial police and fishermen, especially Koh Kong Fisheries Administration Cantonment helping the workshop organization for 3 days. The result of the workshop provided good information and inputs which is useful for the project teamwork to prepare workplan for the upcoming project implement. The workshop was closed at 5:30pm.

ANNEX 1 Agenda for stakeholder consultation workshop at Koh Kong











Seafdec/unep/gef/cambodia project "establishment and operation of a regional system of fisheries refugia in the south china sea and gulf of thailand"

Provisional time table and agenda for stakeholder consultation workshop at koh kong

Piovisional ti	For relevant departments and NGOs
	•
00.00	1 st day: 12 September 2017 (Tue)
08.00	Registration
08.30-08.45	Agenda 1: Opening of the Meeting by Director of DFC, and National Scientific
22.45.22.25	Focal Point
08.45-09.05	Agenda 2: Summary of workshop objectives and purposes
09.05-09.30	Agenda 3: Overview of Objectives of SEAFDEC/UNEP/GEF Fisheries refugia Initiative
09.30-09.50	Agenda 4: Background of strategic action program for South China Sea and the development of fisheries <i>refugia</i> initiative
09.50-10.10	Coffee break and group photo
10.10-10.50	Agenda 5: Identification of provincial programs/projects relating to sustainable development - Group of relevant departments - Group of NGOs
10.50-11.10	Presentation of the results of group discussion
11.10-12.00	Agenda 6: Discussion of priority fisheries species and threat to fish life cycle and critical habitat linkages - Group of relevant departments - Group of NGOs
12.00-13.30	Lunch
13.30-13.50	Presentation of the results of group discussion
13.50-14.20	Agenda 7: The collation of baseline information and data relating to fish life cycle and critical habitat links, as well as fishing effort dynamics
14.20-15.00	Agenda 8: Conduct stakeholder analysis and engagement planning - Group of relevant departments - Group of NGOs Presentation of the results
15.00-15.20	Coffee break
15.20-15.40	Agenda 9: The planning socio economic survey in use assessing impacts of area based management in the localities of fisheries <i>refugia</i> sites
15.40-16.00	Agenda 10: Communication and use of media
16.00-17.00	Agenda 11: Application of Aerial Visual Survey Technology in baseline setting and monitoring
17.00-17.30	Agenda 12: Presentation of 4-year project work plan
	For fisher folks and its stakeholders
	2 nd day: 13 September 2017 (Wed)
08.00	Registration
08.30-08.45	Agenda 1: Opening of the Meeting by Director of DFC, and National Scientific Focal Point
08.45-09.05	Agenda 2: Summary of workshop objectives and background

09.05-09.35	Agenda 3: Overview of SEAFDEC/UNEP/GEF Fisheries refugia Initiative
	Agenda 4: Discussion of priority fisheries species and threat to fish life cycle and
09.35-11.00	critical habitat linkages
09.55-11.00	- Group of fisher folks
	- Group of stakeholders
11.00-11.20	Coffee break and group photo
11.20-12.00	Continue agenda 4
12.00-13.30	Lunch
13.30-14.30	Presentation of the results of group discussion
14.30-15.30	Agenda 5: The collation of baseline information and data relating to fish life cycle
14.50-15.50	and critical habitat links, as well as fishing effort dynamics
15.30-15.50	Coffee break and group photo
15.50-16.30	Continue agenda 5
	3 rd day: 14 September 2017 (Thu)
	Agenda 6: Conduct stakeholder analysis and engagement planning
08.30-10.00	- Group of fisher folks
08.30-10.00	- Group of stakeholders
	Presentation of the results
10.00-10.20	Coffee break
10.20-11.30	Agenda 7: The planning socio economic survey in use assessing impacts of area
10.20-11.30	based management in the localities of fisheries refugia sites
11.30-12.00	Agenda 8: Communication and use of media
12.00-13.30	Lunch
13.30-16.00	Agenda 9: Application of Aerial Visual Survey Technology in baseline setting and monitoring
16.00-16.30	Agenda 10: Presentation of 4-year project work plan

ANNEX 2 List of Participants

Name	Sex	Title	Organization	Telephone
1. Nou Ngov	М	Vice Chief of Pem	Koh Kong FiA	016933192
-		Krasob FiA Division	Cantonment	
2. Heng Sok Sambath	F	Officer	Department of Public	016691432
			Works and Transport	
3. Seng Bunna	М	Vice Chief of Pem	Koh Kong FiA	016885709
		Krasob FiA Division	Cantonment	
4. Veth Sonym	М	Officer	Department of	087440144
			Environment	
5. Chhun Sam Khith	М	Deputy Director	Tourism Department	011886414
6. Sakhun Pheakdey	М	Vice chief Division	Tourism Department	015333778
7. Horm Radong	М	Officer	FiA	069578227
8. Hay Marady	М	Officer	Mondol Seima District	0977648841
			Hall	
9. Ben Vanna	М	Deputy Governor	Mondol Seima District	016948231
10. Say Bunly	М	Chief of Patrolling	Provincial Police	098260243
		Division		
11. Seang Phun	М	Chief of Solution	Provincial Police	090899222
		Division		
12. Chea Sovannarith	М	Chief of	Provincial Police	016730998
		Administrative		
		Division		
13. Real Chhan Dara	М	Chief of Traffic	Provincial Police	06932766
		Division		
14. Kong Bun Thurn	M	Deputy Director	Department of	016707311
			Agriculture, Forestry,	
			Fisheries	
15. Leng Sy Vann	M	Deputy Director	DFC/FiA	017446373
16. Chin Leakhena	F	Deputy Director	DAAL/FiA	0788686840
17. Leng Sam Arth	M	Acting Chief	Marine Fisheries	012752370
			Conservation Center	
18. Vong Dara	M	Commune Council	Peam Krasob Commune	015732969
		Member		
19. Ouk Vibol	M	Director	DFC/FiA	012908121
20. Sary Sarym	F	Officer	Mondol Seima District	071874779
			Hall	
21. Neang Khun	F	Chief of Commune	Peam Krasob Commune	0163074769
		Council		
22. Tum Chhem	M	Vice Chief of	Peam Krasob	0969349162
		Commune		
23. Chhey Yoeun	M	Chief of Village 2	Peam Krasob Commune	0964310169
24. Sok Bun Thurn	M	Member of	Peam Krasob	0978099399
		Community Fisheries	Community Fisheries	
25. Tith Rith	M	Chief of Community	Peam Krasob	0969990558
		Fisheries	Community Fisheries	
26. Heng Sokha	M	Member of	Peam Krasob	0977257745
		Community Fisheries	Community Fisheries	
27. Ul Ran	M	Director of Peam	Environment	0886767995
		Krasob Wildlife Park	Department	

28. Seak Sabun	М	Chief of Community Fisheries	Village 2	015952917
29. Nory Leng	М	Member of Commune Council	Peam Krasob Commune	016774759
30. Tun Chhan Thorn	М	Fisher	Village 1	0883890869
31. Long Roth Orthorm	М	Vice chief Police Post	Peam Krasob Commune	016558645
32. Manh Nguy	М	Fisher	Village 2	0978077980
33. Po Pheng	М	Fisher	Village 2	
34. Duk Srey	F	Fisher	Village 2	
35. Nin Doun	F	Fisher	Village 2	
36. San Than	F	Fisher	Village 2	
37. Toeng Phal	F	Fisher	Village 2	
38. Pi Dang Ry	М	Fisher	Village 2	
39. Sam Dina	F	Fisher	Village 1	
40. Korng Sopheak	M	Fisher	Village 2	
41. Tha Khun	M	Fisher	Village 1	
42. Em Pech	F	Fisher	Village 2	
43. Arb Meas	F	Fisher	Village 1	
44. Hem Sam	M	Fisher	Village 1	
45. Chhin Por	M	Fisher	Village 1	
46. Nov Ren	F	Fisher	Village 2	
47. Nak Mom	F	Fisher	Village 2	
48. Yim Mom	F	Fisher	Village 2	
49. Nhor Mom	F	Fisher	Village 2	
50. Mov Vuthy	М	Fisher	Village 2	
51. Khorn Kheng	M	Rector	Peam Krasob Primary	
J. Kliotii Klieng	101	Rector	School	
52. Thy Vech	М	Commune Clerk	Peam Krasob Commune	016504333
53. Ngoun Vannak	М	Fisher	Village 2	0_000
54. Kuy Ra	M	Fisher	Village 2	
55. Kao Moeung	M	Fisher	Village 1	
56. Mao Chea	М	Fisher	Village 1	
57. Yem Suang	М	Fisher	Village 2	
58. Khun Vanna	M	Chief of Koh Kapi	Koh Kapi Commune	0884439123
		Commune Council		
59. Van Naro	М	Chief of Community	Koh Kapi Community	016933192
		Fisheries	Fisheries	
60. Sam Piseth	M	Chief of Division	Koh Kong District	016569267
61. Keath Sopheak	M	Village agency	Koh Kapi	086012895
62. Khun Srey Neang	F	Village agency	Koh Kapi	087448188
63. Sor Suth	M	Member of	Koh Kapi Commune	070960086
		Commune council		
64. Yeang Suy	M	Chief of Community	Koh Kapi	0889757356
		Fisheries		
65. Trum Ngon	M	Fisher	Village Koh Kapi 1	
66. Men Pros	M	Officer	Environment	0977936822
C7. Us Bloom	-	Fish an	Department	0067204000
67. Un Phorn	M	Fisher	Koh Kapi village	0967394920
68. Or ly	M	Fisher	Koh Kapi village	015239274
69. Pov Vong	M	Vice chief of Village	Koh Kapi Village	097304411
70. Meas Ros	M	Fisher	Koh Kapi Village	087363757

71. Sam Socheath	М	Vice chief of Commune	Koh Kapi Commune	016445841
72. Nang Tey	М	Fisher	Koh Kapi village	0976433446
73. Seng Chheung	М	Chief of Village	Koh Kapi village	0978763066
74. Chheng Sok Heng	М	Fisher	Koh Kapi Village	
75. Vinh Suy	М	Fisher	Koh Kapi	
76. Meng Pov	М	Fisher	Koh Kapi	
77. Men Nhor	М	Fisher	Koh Kapi Village	
78. Doung Seth	М	Fisher	Koh Kapi Village	
79. Yarth Sarun	М	Fisher	Koh Kapi Village	
80. Chhan Thorn	М	Fisher	Koh Kapi village	
81. Narth Sophorn	М	Fisher	Koh Kapi village	
82. Vann Chheng	М	Fisher	Village 1	
83. Ek Narth	F	Fisher	Village 2	
84. San Soeun	F	Fisher	Village 2	
85. Seang Soeun	F	Fisher	Village 1	
86. Eng Ky	М	Fisher	Village 1	
87. Moeun Sipov	М	Fisher	Village 1	
88. Seang Mak	М	Fisher	Village 1	
89. Theang Chhan	М	Fisher	Village	
90. Nov Chhanna	F	Fisher	Koh Kapi	
91. Tep Pun	М	Fisher	Koh Kapi	
92. Ben Tha	М	Fisher	Koh Kapi	
93. Dam Chea	М	Fisher	Village 2	
94. Peth Leang	М	Fisher	Village 2	

ANNEX 3

Participants' Pictures of Stakeholder Consultation Workshop













SEAFDEC-UNEP-GEF-CAMBODIA: REP-CAM09













ANNEX 4

Group Discussion on Threats to Fish Life Cycle and Critical Habitat Linkages from Relevant Departments

Results of Group Discussion: (G1)

SPECIES	LIFE-CYCLE	THREAT	IMMEDIATE	ROOT CAUSE	MANAGEMENT
Mackere I	Fage Abundance from September to February at Koh Kapi and Koh Kong Krao, Peam Krasob and Koh Yor Adult from September to October Spawning time from November to December at shallow water about 0.5 to 1.5 meter Juvenile from January to February at Peam Krasob	 Destructive fishing gears Over fishing Habitat loss 	Illegal fishing Trawlers with mosquito size net from 2.5 to 3cm Purse seine net trawlers with light	 Illegal fishing from outside area of Preah Sihanouk 	- Establishment of fisheries refugia - Strengthening patrolling group to make MCS - Making cooperation with relevant stakeholders and bilateral parts - Strengthening law enforcement - Extending fisheries law - Creating fisheries refugia

SPECIES	LIFE-CYCLE STAGE	THREAT	IMMEDIATE CAUSE	ROOT CAUSE	MANAGEMENT ACTION
Mackerel	Spawning from 1 st January to 31 st March from Chroy Pros beach to Koh Kbal, and Peam Bak Klorng	Spawning Habitat loss	 Illegal fishing Purse seine net trawlers with light 	High market demandHigh price	 Establishment of fisheries refugia Strengthening patrolling group to make MCS Strengthening law enforcement Extending fisheries law

ANNEX 5

Group Discussion on Threats to Fish Life Cycle and

Critical Habitat Linkages from Fishermen

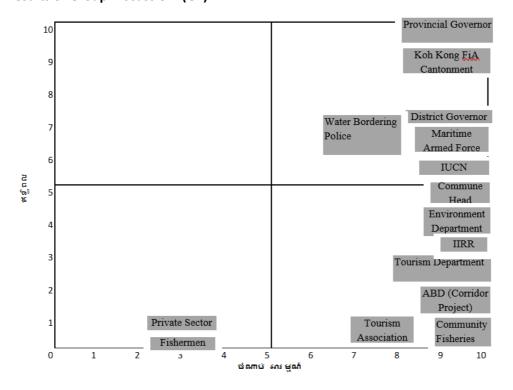
Results of Group Discussion: (G1)

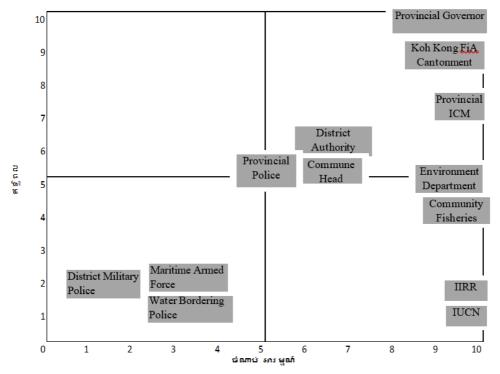
SPECIES	LIFE CYCLE STAGE	THREAT	IMMEDIATE CAUSE	ROOT CAUSE	MANAGEMENT ACTION
Mackere	Spawning From November to January at Koh Kapi, Prek 3& 2, Boeung Kachang, Koh Yor, and Koh Nou	 Habitat loss Seagrass loss Over fishing 	 Electro fishing Illegal fishing Mackerel Gill net with mosquito size net Light Luring Trawlers Purse seine net trawlers from Thailand and Vietnam 	 High market demand in Thailand and Vietnam High price Destructive fishing gears 	 Establishment of fisheries refugia Strengthening patrolling group to make MCS Strengthening law enforcement Extending fisheries law Making co- operation with relevant stakeholders Strengthening transboundary- bilateral operation

SPECIES	LIFE-CYCLE STAGE	THREAT	IMMEDIATE CAUSE	ROOT CAUSE	MANAGEMENT ACTION
			 Light Luring Trawlers Purse seine net trawlers from Thailand and Vietnam 	 High market demand Destructive fishing gears 	 Establishment of fisheries refugia Strengthening patrolling group to make MCS Strengthening transboundary-bilateral operation

SPECIES	LIFE-CYCLE STAGE	THREAT	IMMEDIATE CAUSE	ROOT CAUSE	MANAGEMENT ACTION
Mackere I	Spawning From November to January at shallow water from 0.5 to 1.5meter	 Illegal fishing Destructiv e fishing gear 	Purse seine net trawlers from outside of country from October to March in 10 to 15 meters depth at Peam Krasob and Koh Kapi to Koh Kong krao	 Destructive and modern fishing gear from outside of country 	 Establishment of fisheries refugia Creation of communication network provided to competent authorities Closed fishing from November to February Strengthening fisheries law enforcement Co-operation with relevant stakeholders and bilateral partner

ANNEX 6
Group Discussion of Stakeholder Analysis from Relevant Departments
Results of Group Discussion: (G1)





ANNEX 7

Group Discussion of Stakeholder Analysis from Fishermen

Results of Group Discussion: (G1)

