





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

## **REPORT**

# **BASELINE SURVEY ON SOCIO-ECONOMIC STATUS, FISHING AND** FISHERIES RESOURCES OF SHORT MACKEREL, AND LARVAL FISH SAMPLINGS IN KOH KONG PROVINCE IN SEPTEMBER 2019

**KOH KONG, CAMBODIA** 09-14 SEPTEMBER 2019

Prepared by FISHERIES ADMINISTRATION, CAMBODIA







United Nations Environment

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#### 1. Field Trip Objective

1) To monitor the development of mackerel gonad, interview mackerel fishermen, and collect sampling fish larvae in Koh Kong province from 09 to 14 September 2019, funded by SEAFDEC/UNEP/GEF.

#### 2. Involved Person

- 2) There are four leaders and officers from Department of Fisheries Conservation and two officers from Fisheries Administration Cantonment in Koh Kong, participating in doing a research of baseline survey short mackerel in Koh Kong province naming as following (see Annex 1, 2 & 5):
  - Ms. Ly Sokta, Officer of Department of Fisheries Conservation/FiA
  - Mr. Rous Saret, Officer of Department of Fisheries Conservation
  - Mr. Lieng Saroeun, Vice chief of Crocodile Industrial development and conservation, Department of Fisheries Conservation
  - Ms. Kin Samnang, Officer of Department of Fisheries Conservation
  - Mr. Nou Ngoy, Vice Chief of Fisheries Administration Division, Koh Kong FiAC
  - Mr. Seng Bunna, Vice Chief of Fisheries Administration Division, Koh Kong FiAC

#### 3. Field Trip Activities

#### A. Collection of fish samples at landing sites and markets

3) In September, it is found that mackerel is available at Dorng Tung and Village 4 market, but it is still fewer quantity. Teamwork from FiA and FiAC went down to collect the sampling short mackerel at Dorng Tung market, Village 4 market and bought 81 of fish to monitor the development of its gonad (see annex 2).

#### B. Operate fish to monitor its gonad development

- 4) 81 fish sampling is operated to monitor its gonad development, including 36 females, 41 males, and the rest of them for non sex.
- 5) According to data analysis for female, fish starting 1<sup>st</sup> maturity in September. Its average body weight is 45.88g and average body length is 16.40cm. For its gonad stage development, it varies from 1<sup>st</sup> stage to 5<sup>th</sup> stage, including 23 fish in 1<sup>st</sup> stage, 2 fish in 2<sup>nd</sup> stage, 3 fish in 3<sup>rd</sup> stage, 4 fish in 4<sup>th</sup> stage, and 4 fish in 5<sup>th</sup> stage.
- 6) As for data analysis for male, fish starting 1<sup>st</sup> maturity in September. Its average body weight is 50.37g and average body length is 16.92cm. For its gonad stage development, it varies from 1<sup>st</sup> stage to 5<sup>th</sup> stage, including 20 fish in 1<sup>st</sup> stage, 4 fish in 2<sup>nd</sup> stage, 2 fish in 3<sup>rd</sup> stage, 2 fish in 4<sup>th</sup> stage, and 11 fish in 5<sup>th</sup> stage.

### C. Preparing and storing DNA

7) Teamwork prepared and cut the part of 30 fish body that are stored in small plastic tubes to study and analyze its DNA (see annex 3).

#### D. Interview Fishermen at Village 4

8) The purpose of social economic and fishing survey is to want to know about short mackerel fishing status in the past until now, that provide more information on scientific data. 10 fishermen at village 4, Sangkhat Dorng Tung, Khan Kem Reak Phummin, Koh Kong province were interviewed by using semi structure questionnaire. Data collected are entered in Excel program to analyze (see annex 3).

## E. Sample larvae collection

9) Teamwork from FiA and FiAC went down to collect sampling fish larvae at Koh Yor, Chroy Pros, and Peam Krasob sites that are 8 stations. The bongo net with the size of 1 m diameter and 5.5 meter length was applied to collect sampling fish larvae and two times/station was practiced to collect fish larvae. All sampling fish larvae were stored and kept in plastic tube with ethanol of 99.7%.

ANNEX 1
List of participants attending the baseline survey of short mackerel gonad development from 09 to 14 September 2019 in Koh Kong province

No.	Name	Sex	Title	Organization	Telephone
1	Kin Samnang	F	Officer	DFC/FiA	077
2	Ly Sokta	F	Officer	DFC/FiA	092653427
3	Lieng Saroeun	М	Vice chief of Crocodile industrial and conservation division	DFC/FiA	092660267
4	Rous Saret	M	Officer	DFC/FiA	011664696
5	Seng Bunna	М	Vice chief of Fisheries Administration Division	Koh Kong FiAC	016885709
6	Nou Ngoy	М	Vice chief of Fisheries Administration Division	Koh Kong FiAC	016933192
7	Map Chanda	F	Student	Faculty of Fisheries Science /RUA	077511674

ANNEX 2
Schedule for baseline survey of short mackerel gonad development from 09 to 14 September 2019 in Koh Kong province

Date/Time	Description	Responsible person
09 September 2019		
9:00am-4:00pm	Leaving Phnom Penh for Koh Kong	<ul> <li>Mr. Lieng Saroeun,</li> <li>Mr. Leng Sy Vann,</li> <li>Ms. Ly Sokta, and</li> <li>Mr. Rous Saret</li> </ul>
10 September 2019		
9:00am- 12:00pm	Collect sampling short mackerel at Dorng Tung market in Koh Kong province	All
12:00pm-2:00pm	Lunch break	All
2:00pm-5:00pm	Operate fish to monitor fish gonad and collect its NDA	All
11 September 2019		
8:00am-1:00pm	Sample fish larvae collection at station 2, 4, 1 and 7	All
1:00pm -3:00pm	Lunch break	All
3:00pm -5:00pm	Interview fishermen of mackerel at Village 4, Koh Kong province	All
12 September 2019		
8:00-1:00pm	Sample fish larvae collection at station 6 and 8	All
1:00pm-3:00pm	Lunch break	All
3:00pm -5:00pm	Interview fishermen of mackerel at Village 4, Koh Kong province	All
13 September 2019		
8:00-12:00pm	Sample fish larvae collection at station 3 and 5	All
12:00pm-2:00pm	Lunch break	All
2:00pm-4:00pm	Interview fishermen of mackerel at Village 4, Koh Kong province	All
14 September 2019		
9:00am-4:00pm	Leaving Phnom Penh for Koh Kong	All

#### **ANNEX 3**

## Questionnaires on Socio-Economic Status, Fishing and Fisheries Resources ព័តមានទូទៅ General Information 1. ឈ្មោះអ្នកសម្ភាសន៍ Interviewee ......វិថ្ងូខែឆ្នាំសម្ភាសន៍ Date of Interview..... 2. ឈ្មោះអ្នកនេសាទ.Fishermen Name.......ភេទ Sex....... អាយុ 3. ជនជាតិ Nationality : 3.1 ខ្មែរ Khmer □3.2 វៀតណាម Vietnam □ 3.3 ម៉ូស្ល៊ីម Muslim □ 3.4 ដេដ្ងៗ Other □ 4. អាស៊ីយដ្ឋាន Address: ភូមិ Village......ឃុំ Commune......ស្រុក.District......ខេត្ត Province..... 5. ចំនួនសមាជិកក្នុងគ្រួសារ Family member 7.4 ចំនួនសមាជិក ចូលរួមក្នុងសកម្មភា **7.3** ស្រី Female 7.1 សរុប Total Member involved in fishing activity

# 6. មុខរបរស្លូលនិងមុខរបរបន្ទាប់បន្សំ Main and secondary occupation

	ប្រភេទមុខរបរ categories of occupation	<b>8.1</b> ស្នូល Main	<b>8.2</b> ចំណូល ប្រចាំឆ្នាំ Annual income (Riel)	8.3 បន្ទាប់បន្សំ Secondary income (Riel)	<b>8.4</b> ចំណូល ប្រចាំឆ្នាំ Annual income (Riel)
1	ធ្វើស្រែ Rice field				
2	នេសាទ Fishing				
3	ដាំសារ៉ាយ Sea weed culture				
4	ចិញ្ចឹមសត្វ Animal husbandry				
5	ដាំបន្លែ Growing Vegetable				
6	ការងាររដ្ឋ (ក្រូ អាដ្តា ធរ) Public service officers				
11	លក់ដូរភូចតាច Small business				
12	ធ្វើឧបករណ៍នេសាទ លក់ making fishing gears				
13	រត់ម៉ូតូឌុប តាកស៊ី Taxi and motor driver				
14	កម្មករ លក់កំលាំង ពលកម្ម labor /worker				
15	ធ្វើទូក ដួសដុលទូក Boat/vessel repairing				
16	ផ្សេងៗ Other				

II.	សកម្មភាពនេសាទ	<b>Fishing</b>	activity
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- 7. រយៈពេលនេសាទ: Fishing period......ន្នាំ
- 8. ជំនួនថ្ងៃក្នុងមួយខែ Day number of fishing per month ......ំថ្ងៃ
- 9. ជំនួនខែក្នុងមួយឆ្នាំ Month number of fishing per year.......ខែ
- 10. តើមានប៉ុន្មានគ្រួសារដែលកំពុងធ្វើការនេសាទក្នុងភូមិ? How many families are doing fishing activity in the village?

11. ឧបករណ៍នេសាទដែលកំពុងប្រើប្រាស់ being used fishing gears

11. 5	اب اسابعانه العالمان أعال			2013	
Code	ប្រភេទឧបករណ៍	ជុំនិង	ប្រវែង	តម្លៃសរុប(រៀល)	រយៈ
	Types of fishing gears	Number	(ម៉ែក្រ)	Total cost (Riel)	ពេល
			Length (m)		អាចប្រើ
					បាន
					Life span
1	លបក្តាម Crab trap				
2	លបមឹក Squid trap				
3	លបត្រី Fish trap				
4	សន្លាប long line Hook				
5	អួនហ៊ី Circle seine				
6	រារដោយដៃ Catching by				
6	hand				
7	ឆឹបរុញ្ញដោយដៃ Push net				
8	ឆឹបរុញដោយម៉ាស៊ីន Push				
0	net with machine				
9	សំណាញ់ cast net				
10	មងក្រី Gill net				
11	មងត្រីកាម៉ុង Mackerel				
11	gill net				
12	ទូកអូស trawler vessel				
13	ឧបករណ៍ផ្សេងៗទៀត				
13	Other				

12. ប្រភេទធនធានដល់ដល់សំខាន់ៗចំនួន៥ប្រភេទដែលចាប់បាន Main 5 fish species caught

Rank	ប្រភេទ	មានប៉ុន្មានភាគ	តម្លៃក្នុង១គីឡូក្រាម
	Species	រព <b>(</b> %)	Riel/Kg
1			
2			
3			
4			
5			

13. សក្កានុពលនៃការចាប់ត្រីកាម៉ុងតាមខែ (កីឡូក្រាម) Catching fish by month (Kg)

						020					
ម	֓֞֞֞֜֜֞֜֜֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	ដ្ ស្	មេសា	ឧស ភ	ជិ ខ	צב צבי	ស៊ី ហ	#∃ J3	ដូ	J (C)	De ﷺ
Jan	Feb	Ma r	Apri I	Ma y	Jun e	ນ July	Aug	Sep	Oct	No v	С

	1		1				1
2 2 3							
សរុ័ប(ក្រី							
ជម្រុះ)							
Total							
catch (%)							
សរុប% (គ្រីកា ម៉ុង) %							
ريريزاً)							
덕려) %							
of							
mackerel							
តម្លៃត្រី							
កាម៉ុង/							
ភក្រ							
Mackerel							
price							
(Riel/Kg)							
ទម្ងន់ត្រឹ កាម៉ុង							
កាមុង							
ក្នុងមួយ							
ក្នុង <u>ម</u> ួយ ក្បាល							
mackerel							
weight							
/head (g)							
ប្រភេទ ឧបករ							
ណ៍ Types							
of fishing							
gear							
ប្រវែង មងត្រី កាម៉ុង							
មងគើ							
កាម៉ង							
Length of							
mackerel							
gill net							
(m)							
ទំហំ							
ក្រឡា							
មដ							
mesh							
size							
(mm)							L
ទីតាំង					 		
នេសាទ							
(ប្រើ							
លេខកូដ							
ខាង							
ក្រោម)							
fishing							
ground							
(Using							
fishing							
location							
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~ ~ ,	<u> </u>	 		L			

# សម្គាល់ទីតាំងនេសាទ៖ Remark fishing ground

- 1. កោះយ៉Yor Koh 2. កោះគុដKoh Kuch 3. មុខ៣មក្រសោបOpposite Peam Krasob 4. មុខកោះកាពិOpposite Koh Kapi 5. កោះកុងក្រៅOutside Koh Kong 6. កោះ ឆ្លាមKoh chlarm 7. ទីតាំងផ្សេងៗទៀតOther
- 14. និន្នាការនៃផលគ្រីកាម៉ុងដែលចាប់បានចាប់ពីឆ្នាំ២០១០ ដល់២០១៨ Trend of fish production of mackerel from 2010 to 2018

ឆ្នាំ Year	2010	2011	2012	2013	2014	2015	2016	2017	2018
កក្រ									
Production									
(Kg)									
ចំនួនទូក									
ចំនួនទូក ត្រីកាម៉ុង									
Vessel									
Number									
ចំនួនអ្នក									
នេសាទ									
Fishermen									
number									

III. ការវិភាគសេដ្ឋកិច្ច Economic analysis

15. ការចំណាយក្នុងមួយជើងៗ

មុខចំណាយ Items	ឯកភា (Unit)	តម្លៃក្នុង១ឯកតា (រៀល) Unit Cost /Riel	ចំណាយ សរុប (រៀល) Total Cost/Riel
អាហារ Food			
កម្មករ Labor	មនុស្ស Person		
អ្នកបើកទូក Boat Driver	មនុស្ស Person		
ប្រេង (សាំង ម៉ាសូត ប្រេងម៉ាស៊ីន)	លីក្រ Liter		
Gasoline			
ដួសដុលមដ Reparing Gill net			
ជួសជុលទូក Repairing Boat			
ចំណាយផ្សេងៗ Other expenditures			
N 6 H	Total		_

16.	មួយជើងៗបានចំណូលប៉ុន្មាន? How much you can get income/time	
(Riel)		

17.	ការចែកចាយជល	រគើកាម៉ង	Mackerel	distribution
<b>1</b> /.			WIGCKCICI	aistribation

- 17.1 កន្លែងឡើងត្រឹ៖ how many of landing site......%
- 17.2 លក់ដុំ how many of fish trader.....%
- 17.3 លក់រាយ how many of retailer .....%
- 17.4 អាហារប្រចាំថ្ងៃ how many of daily consumption ......%
- 18. បញ្ហាក្នុងសកម្មភាពនេសាទៈ Meeting Constrains during fishing activity
- 19. សូម៉ស់រសេរឱ្យអស់នូវត្រីនិងធនធានជ័លជលដែលអ្នកនើសាទប៉ាប់បាន់ក្នុងទីតាំងដែល គាត់នេសាទ

Please write all fish species catching at above mentioned fishing ground

### **ANNEX 4**

Participants' Photos attending the baseline survey of short mackerel gonad development from 09 to 14 September 2019 in Koh Kong province













## SEAFDEC-UNEP-GEF-CAMBODIA: REP-CAM52







ANNEX 5

Database of short mackerel collected from local market in Koh Kong on 09 to 14 September 2019

No	TL	FL(cm)	BD(cm)	BW(g)	Sex	Stage	GW(g)	GSI	Area	Species	Date	FL/BD¹
KKDT0001	17.3	15.2	3.7	54.0	М	1	0.00	0.00	DT Market	SM	10/9/19	4.11
KKDT0002	15.5	13.6	3.6	36.4	М	1	0.00	0.00	DT Market	SM	10/9/19	3.78
KKDT0003	15.5	13.7	3.3	36.3	F	1	0.00	0.00	DT Market	SM	10/9/19	4.15
KKDT0004	16.0	14.0	3.5	39.2	Μ	1	0.00	0.00	DT Market	SM	10/9/19	4.00
KKDT0005	17.5	15.6	3.8	54.5	Μ	1	0.00	0.00	DT Market	SM	10/9/19	4.11
KKDT0006	16.0	14.0	3.4	40.7	F	1	0.00	0.00	DT Market	SM	10/9/19	4.12
KKDT0007	17.7	15.6	3.8	52.1	М	5	0.60	1.15	DT Market	SM	10/9/19	4.11
KKDT0008	16.0	14.1	3.4	43.0	М	1	0.00	0.00	DT Market	SM	10/9/19	4.15
KKDT0009	15.5	13.9	3.4	37.6	F	1	0.00	0.00	DT Market	SM	10/9/19	4.09
KKDT0010	16.5	14.6	3.4	42.3	F	1	0.00	0.00	DT Market	SM	10/9/19	4.29
KKDT0011	15.0	13.4	3.2	33.7	F	1	0.00	0.00	DT Market	SM	10/9/19	4.19
KKDT0012	15.9	14.0	3.3	40.1	F	1	0.00	0.00	DT Market	SM	10/9/19	4.24
KKDT0013	16.0	14.2	3.6	40.0	F	2	0.30	0.75	DT Market	SM	10/9/19	3.94
KKDT0014	16.2	14.4	3.4	41.8	М	1	0.00	0.00	DT Market	SM	10/9/19	4.24
KKDT0015	15.3	13.7	3.4	36.3	М	2	0.30	0.83	DT Market	SM	10/9/19	4.03
KKDT0016	15.2	13.2	3.4	35.4	F	2	0.20	0.56	DT Market	SM	10/9/19	3.88
KKDT0017	16.2	14.9	3.8	52.4	F	1	0.00	0.00	DT Market	SM	10/9/19	3.92
KKDT0018	15.1	13.5	3.3	34.5	М	1	0.00	0.00	DT Market	SM	10/9/19	4.09
KKDT0019	16.0	14.4	3.5	42.2	F	1	0.00	0.00	DT Market	SM	10/9/19	4.11
KKDT0020	16.3	14.6	3.4	44.7	F	1	0.00	0.00	DT Market	SM	10/9/19	4.29
KKDT0021	16.3	14.4	3.5	44.6	Μ	5	0.00	0.00	DT Market	SM	10/9/19	4.11
KKDT0022	17.3	15.3	3.8	57.5	F	5	0.60	1.04	DT Market	SM	10/9/19	4.03
KKDT0023	16.9	15.0	3.6	51.1	F	1	0.00	0.00	DT Market	SM	10/9/19	4.17

<sup>&</sup>lt;sup>1</sup> Fork Length (FL)/Body Deep(BD): less than or equal to 4.30) is short mackerel (SM), *Rastrelliger brachysoma* more than 4.30 is long mackerel (LM), *Rastrelliger kanagurta* 

No	TL	FL(cm)	BD(cm)	BW(g)	Sex	Stage	GW(g)	GSI	Area	Species	Date	FL/BD¹
KKDT0024	16.5	14.9	3.5	43.9	М	1	0.00	0.00	DT Market	SM	10/9/19	4.26
KKDT0025	15.1	13.2	3.2	33.9	F	1	0.00	0.00	DT Market	SM	10/9/19	4.13
KKDT0026	16.0	14.3	3.4	45.4	F	1	0.00	0.00	DT Market	SM	10/9/19	4.21
KKDT0027	18.0	16.0	3.6	52.0	М	1	0.00	0.00	DT Market	LM	10/9/19	4.44
KKDT0028	15.3	13.5	3.6	33.6	F	1	0.00	0.00	DT Market	SM	10/9/19	3.75
KKDT0029	15.9	14.0	3.4	40.8	М	2	0.20	0.49	DT Market	SM	10/9/19	4.12
KKDT0030	15.1	13.5	3.2	34.3	F	1	0.00	0.00	DT Market	SM	10/9/19	4.22
KKDT0031	16.4	14.6	3.2	41.2	ND	ND	ND	ND	DT Market	LM	10/9/19	4.56
KKDT0032	16.0	14.0	3.5	43.0	F	3	0.30	0.70	DT Market	SM	10/9/19	4.00
KKDT0033	18.0	15.3	3.9	59.7	М	5	0.00	0.00	DT Market	SM	10/9/19	3.92
KKDT0034	16.0	14.1	3.4	44.0	М	3	0.80	1.82	DT Market	SM	10/9/19	4.15
KKDT0035	15.3	13.6	3.4	40.9	М	1	0.00	0.00	DT Market	SM	10/9/19	4.00
KKDT0036	15.7	14.1	3.3	36.8	ND	ND	ND	ND	DT Market	LM	10/9/19	4.27
KKDT0037	15.8	14.0	3.4	38.2	М	1	0.00	0.00	DT Market	SM	10/9/19	4.12
KKDT0038	16.0	14.0	3.3	37.7	М	1	0.00	0.00	DT Market	SM	10/9/19	4.24
KKDT0039	17.0	15.1	3.6	51.8	М	2	0.00	0.00	DT Market	SM	10/9/19	4.19
KKDT0040	15.0	13.2	3.2	30.2	F	1	0.00	0.00	DT Market	SM	10/9/19	4.13
KKDT0041	15.5	13.9	3.4	33.1	F	1	0.00	0.00	DT Market	SM	10/9/19	4.09
KKDT0042	16.2	14.1	3.6	43.8	F	1	0.00	0.00	DT Market	SM	10/9/19	3.92
KKDT0043	15.1	13.5	3.4	38.3	F	1	0.00	0.00	DT Market	SM	10/9/19	3.97
KKDT0044	16.5	14.7	3.2	44.0	М	1	0.00	0.00	DT Market	LM	10/9/19	4.59
KKDT0045	16.0	14.2	3.4	42.8	М	1	0.00	0.00	DT Market	SM	10/9/19	4.18
KKDT0046	15.9	14.1	3.2	33.2	ND	ND	ND	ND	DT Market	SM	10/9/19	4.41
KKV40001	19.0	16.5	3.9	65.1	М	5	0.00	0.00	Village 4Market	SM	10/9/19	4.23
KKV40002	17.4	15.5	3.8	53.7	М	2	0.90	1.68	Village 4Market	SM	10/9/19	4.08
KKV40003	17.5	15.4	3.9	57.8	F	4	1.40	2.42	Village 4Market	SM	10/9/19	3.95
KKV40004	17.2	15.2	3.5	49.8	М	1	0.00	0.00	Village 4Market	SM	10/9/19	4.34

No	TL	FL(cm)	BD(cm)	BW(g)	Sex	Stage	GW(g)	GSI	Area	Species	Date	FL/BD¹
KKV40005	17.0	15.0	3.7	51.8	F	4	2.00	3.86	Village 4Market	SM	10/9/19	4.05
KKV40006	17.1	15.0	3.9	58.6	М	ND	ND	ND	Village 4Market	SM	10/9/19	3.85
KKV40007	16.6	14.5	3.7	48.1	F	4	0.80	1.66	Village 4Market	SM	10/9/19	3.92
KKV40008	19.0	16.5	4.3	78.2	М	5	0.70	0.90	Village 4Market	SM	10/9/19	3.84
KKV40009	16.2	14.5	3.6	46.1	М	5	0.30	0.65	Village 4Market	SM	10/9/19	4.03
KKV40010	16.5	14.6	3.7	48.8	F	3	0.60	1.23	Village 4Market	LM	10/9/19	3.95
KKV40011	18.0	16.1	3.9	61.9	М	4	1.20	1.94	Village 4Market	SM	10/9/19	4.13