



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

**REPORT**

**DATA ANALYSIS OF FISH LARVAE COLLECTION IN KOH KONG  
FROM JANUARY TO MARCH 2020**

**KOH KONG, CAMBODIA  
JANUARY-MARCH 2020**

Prepared by  
**FISHERIES ADMINISTRATION, CAMBODIA**

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**SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER  
TRAINING DEPARTMENT**



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Southeast Asian Fisheries Development Center  
Training Department  
P.O.Box 97, Phrasamutchedi, Samut Prakan, Thailand  
Tel: (66) 2 425 6100  
Fax: (66) 2 425 6110  
<https://fisheries-refugia.org> and  
<https://seafdec.or.th>

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## 1. Objective

To analyze the data of sampling fish larvae collection in Koh Kong from January to March 2020, funded by SEAFDEC/UNEP/GEF Fisheries *Refugia* Project in Cambodia.

## 2. Involved Person

This work is implemented by marine fisheries research and development institute led by Dr. Chea Tharith and his assistant Mr. Lang Sin, collaborating with staff from Department of Fisheries Conservation to do that job (see annex 1 and 2).

## 3. Methodology

The monitoring marine fish larvae have been conducted in Koh Kong province from January to March 2020 in 8 stations (St1-St8), including 4 stations at Peam Krasob, 2 stations at Chroy Pros, and other 2 at Koh Yor (see Table 1). The sampling fish larvae collection is applied by using bongo net with 1m diameter and the length of 5.5 meters with a mesh size 500 $\mu$ m. 2 times per station is applied to collect fish larvae every 5 minutes of each station.

Table 1: Location of each station for fish larvae collection in Koh Kong province

Location	Axis X	Axis Y	Remark
Station1	0280685	1268881	Peam Krasob
Station2	0274835	1274167	Prek Bak Klorng
Station3	0273056	1283297	Koh Yor (near Thai border)
Station4	0273540	1268641	Peam Krasob
Station5	0270809	1281513	Koh Yor (near Thai border)
Station6	0287417	1258595	Chroy Pros
Station7	0280697	1271240	Peam Krasob
Station8	0287208	1252481	Chroy Pros

## 4. Results

### 4.1 Fish Larvae Collection in January

Fish larvae collection in January showed in Table1 that total fish larvae of 55 individuals was harvested belonged to 4 families such as Apogonidae, Mullidae, Aploactinidae, and Scombridae, which was identified in 5 stations (St2, St3, St4, St5, St6, and St7). Scombridae (*Rastrelliger spp*) is the most abundant family and occurred in St2, St4, St5, and St7 with total 49 individuals. In particular, 25 individual is collected in St2 and 17 individual in St5

Table1: Fish larvae collection in January 2020

Families	Station2	Station3	Station4	Station5	Station6	Station7	Total
Apogonidae		1	1				2
Mullidae		1			1		2
Aploactinidae	1					1	2
Scombridae	25		6	17		1	49
<b>Grand Total</b>	<b>26</b>	<b>2</b>	<b>7</b>	<b>17</b>	<b>1</b>	<b>2</b>	<b>55</b>

## 4.2 Fish Larvae Collection in February

Fish larvae collection in February as shown in Table 2 that the total 93 individual of fish larvae was harvested belonged to 6 families such as Engraulidae, Clupeidae, Triacanthidae, Mullidae, Aploactinidae, Scombridae, which was identified in 5 stations (St2, St3, St4, St5, St7 and St8). Engraulidae (55 individuals) is the most abundant family, following Scombridae (*Rastrelliger spp*) (21 individuals) and Clupeidae were (16 individuals).

Table 2: Fish larvae collection in February 2020

Families	Station2	Station3	Station4	Station5	Station7	Station8	Total
Engraulidae					51		51
Clupeidae				1	15		16
Triacanthidae						1	1
Mullidae	1		1				2
Aploactinidae			1	1			2
Scombridae	1	12	4	2	2		21
<b>Grand Total</b>	<b>2</b>	<b>12</b>	<b>6</b>	<b>4</b>	<b>68</b>	<b>1</b>	<b>93</b>

## 4.3 Fish Larvae Collection in March

Fish larvae collection in March as shown in Table 3 that a total 30 individuals of fish larvae was harvested belonging to 6 families such as Scombridae, Gobiidae, Terapontidae, Cheilodactylidae, Clupeidae, Engraulidae, which was identified in 7 stations (St1-St7). Clupeidae (Anchovy) (14 individuals) was the most abundant family presented in St6 and St7, following Scombridae (7 individuals) presented in St1, St3, St5 and St7.

Table 3: Fish larvae collection in March 2020

Families	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Total
Scombridae	1		2	1	2		1	7
Gobiidae	1			1		1		3
Terapontidae		1						1
Cheilodactylidae			2	1	1			4
Clupeidae						6	8	14
Engraulidae							1	1
<b>Grand Total</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>10</b>	<b>30</b>

**Annex 1: Participants' Photo in the process of data analysis of fish larvae collection in Koh Kong**

