A manual for

Fish landing data management system

Southeast Asian Fisheries Development Center
(SEAFDEC)

Content

What is "FishBio"……3
Recommended system requirements ……..……3
Installation FishBio…….... 3- 5
FishBio User Guild

- **Login to program…….. 6**
- **General Information……...7-11**
- **Fishing Operation ……...12**
- **Species Composition……..……..13**
- **Length Frequency ……14-15**
- **Gonad Maturity ……16**
- **Search ……17**
- **Change Password …… 18**
- **Report ……....18-20**

What is “FishBio”

“FishBio” is a database application for managing fishery data

Output from the application can be easily exported to other fishery analytical software such as FISAT or the other spreadsheet software

“Fish Bio” is designed to be flexible and easy to use. User can identify their own principle fishery information by manually input or import from other spreadsheet file

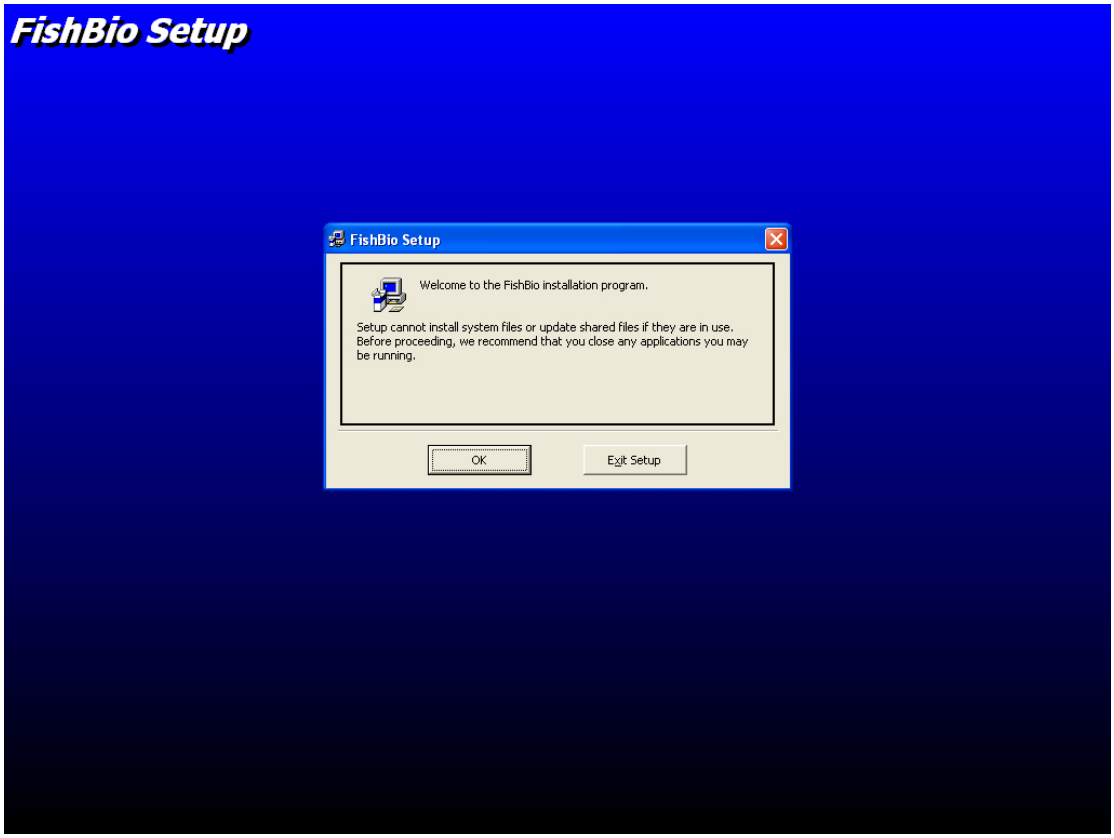
Recommended system requirements

1. Windows operating system : Windows XP or lower
2. Microsoft Access 2000, XP or 2003

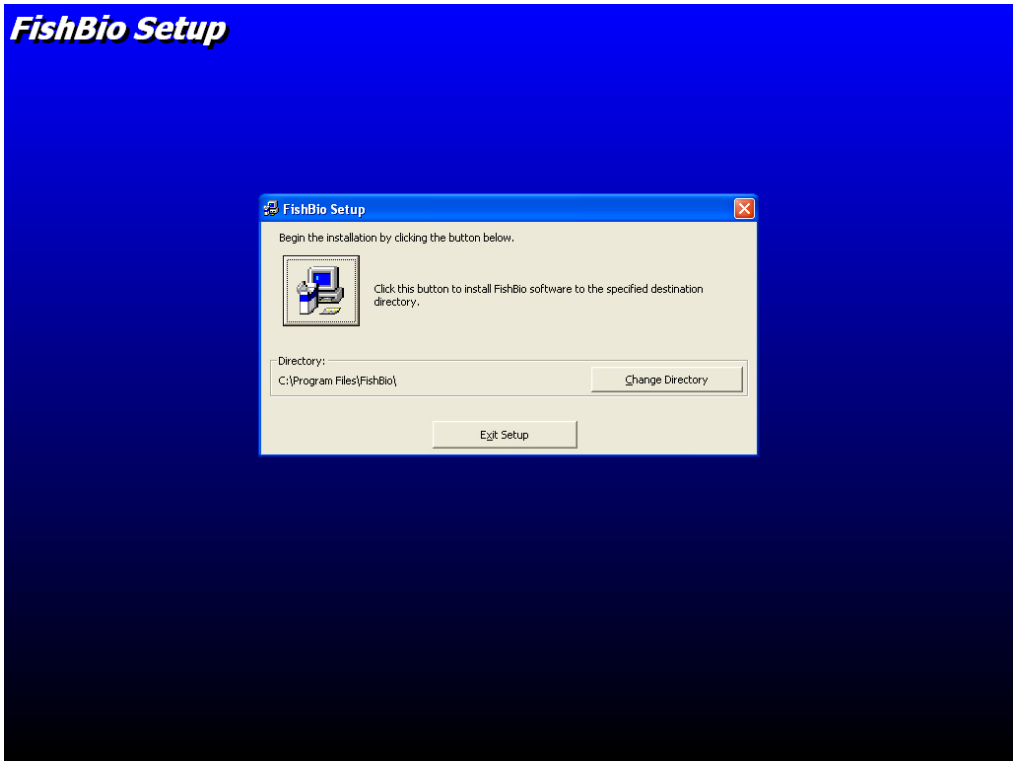
Installation FishBio

1. Insert FishBio installation CD, the installation program will run automatically. [Note: If the program does not start, open “CDRomDrive:Setup.exe” to start it manually.]

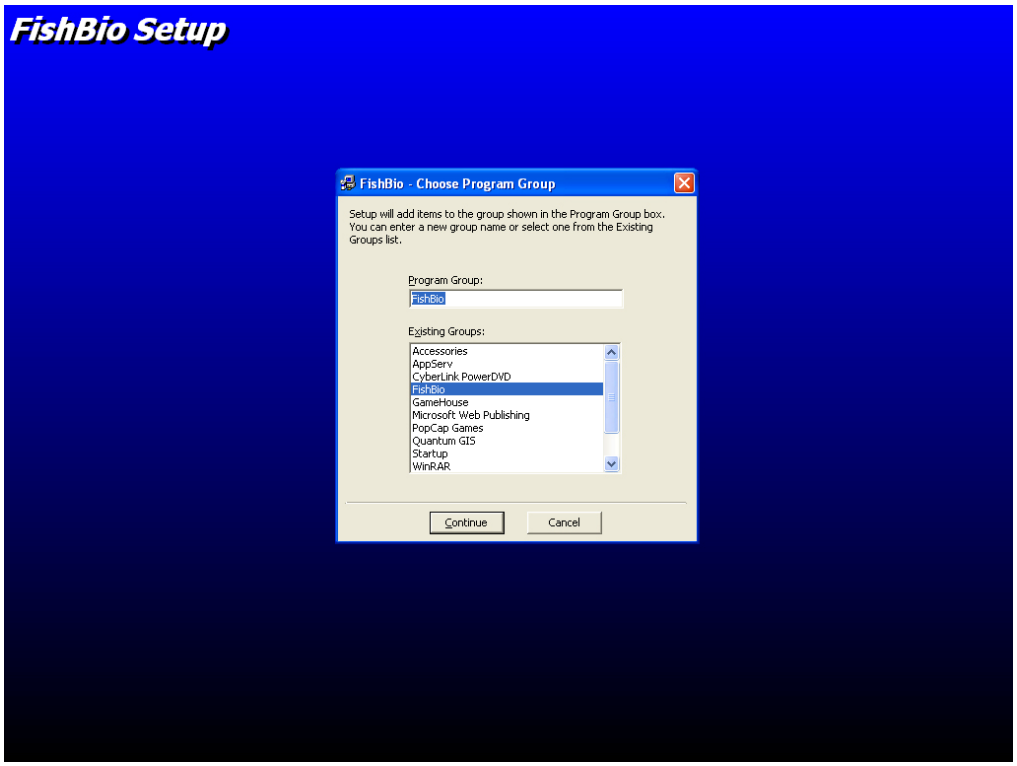
2. Then the installation of FishBio is started, Click OK to continue.



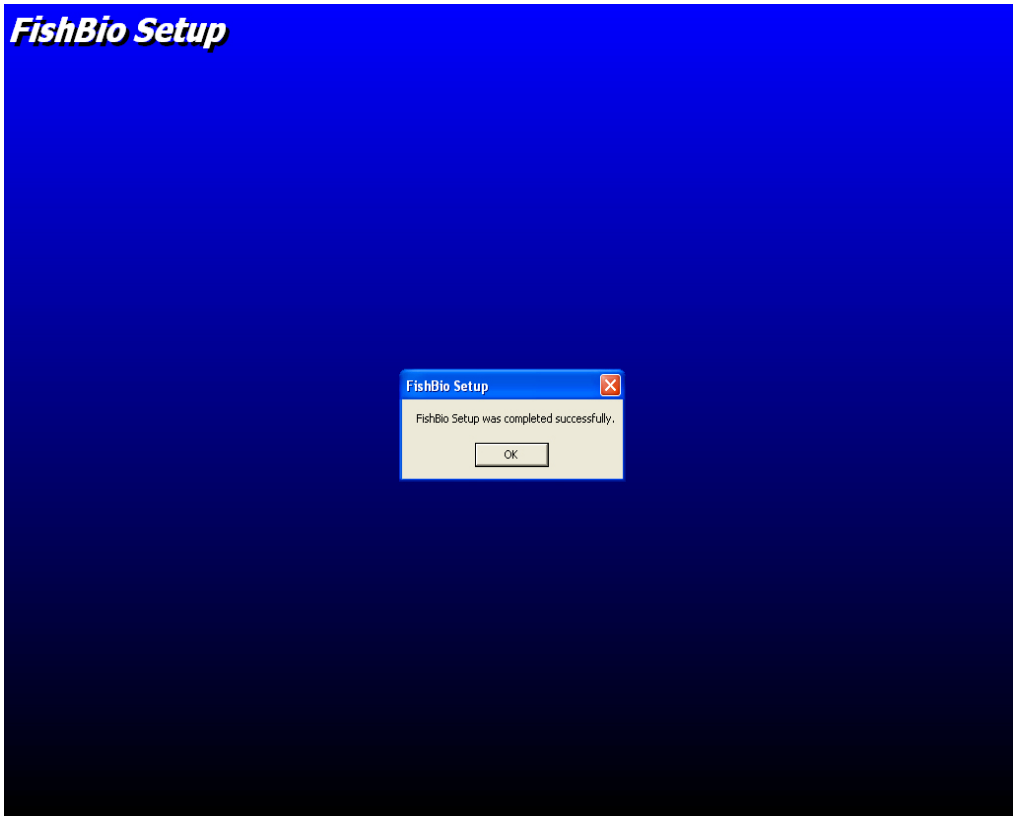
3. Click to continue setup or Change Directory for the location of software



4. Click Continue to Continue setup.



5. Wait for installation



6. Then click Start → Program → FishBio for open program.

FishBio User Guild

1. Login to program and Main page

First window of the software is login page (fig.1.1)

Figure 1.1

The default login and Password to access the software is “Administrator”. User can change it later. Click “Log in” to open main page of FishBio in fig. 1.2

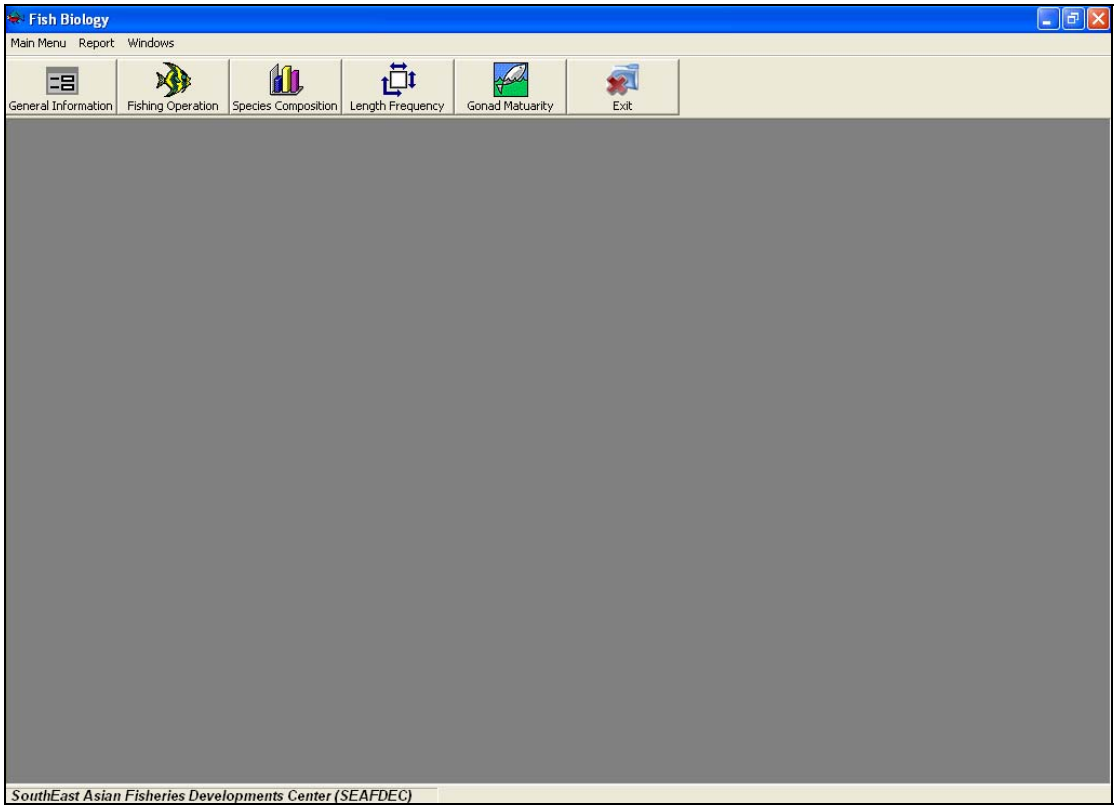


Figure 1.2

In the main page that contain Menu

Main menu
Provide “Search” and “Change Password” function

Report
Provide output query by “Fishing operation”, “Species composition”, “Length frequency” and “Gonad maturity data”.

General information
It is an input window of “Fishing area”, “State”, “Province”, “Fishing gear”, “Fishing method”, “Target species” and “Vessel”.

Fishing Operation
Let you input fish landing data including “Vessel name”, “Vessel register id”, “Fishing gear”, “Fishing method”, “Fishing area”, “State/province”, “Landing port”, “Sampling date”, “Fishing position”, “Fishing time”, “Bottom depth”, “Fishing depth”, “Number of haul per trip”, “Duration of trip” and “Total catch”.

Species Composition
Provide input window for specie composition of sample including result window of calculated species composition of each fishing boat

Length Frequency
Provide input window for length frequency data

Gonad Maturity
Provide input window for gonad maturity data

2. General Information

First task of user is input data in the “General information” window. It has three tap including General, Target species and fishing vessel (Fig. 2.1)

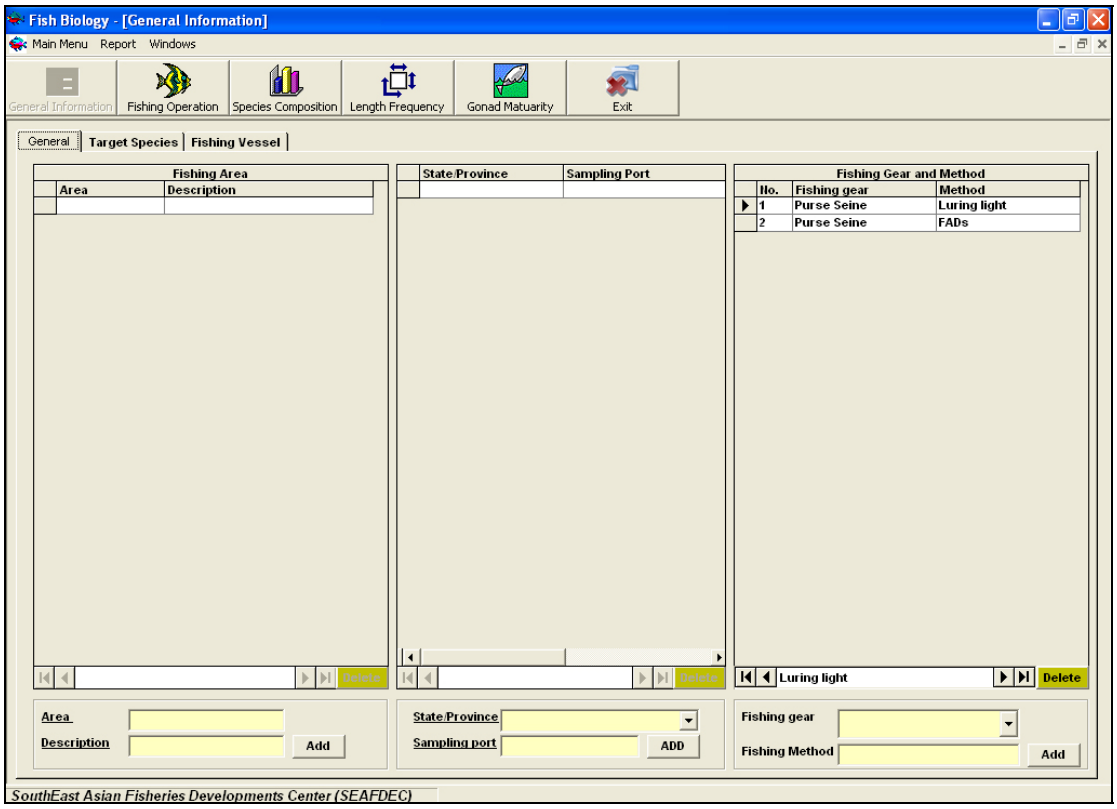


Figure 2.1

In general Tab containing

Fishing Area

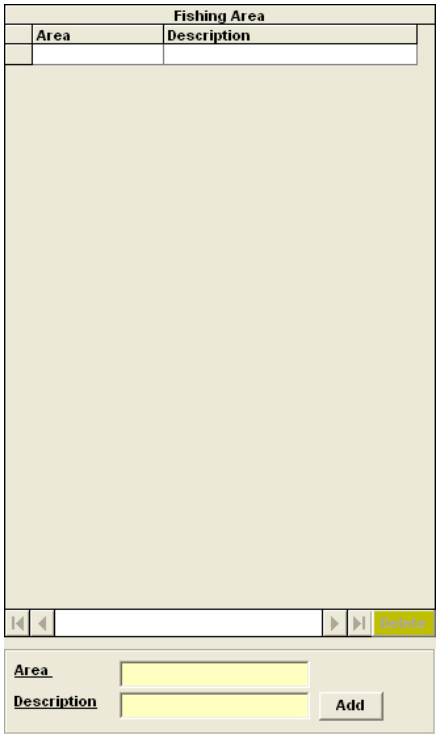


Figure 2.2

In put name of fishing area in you country and description to explain more about that fishing area such as coordinate of the area or other information and then click "*Add*". If you want to delete click in area that you want to delete and Click "*Delete*" button

State/Province

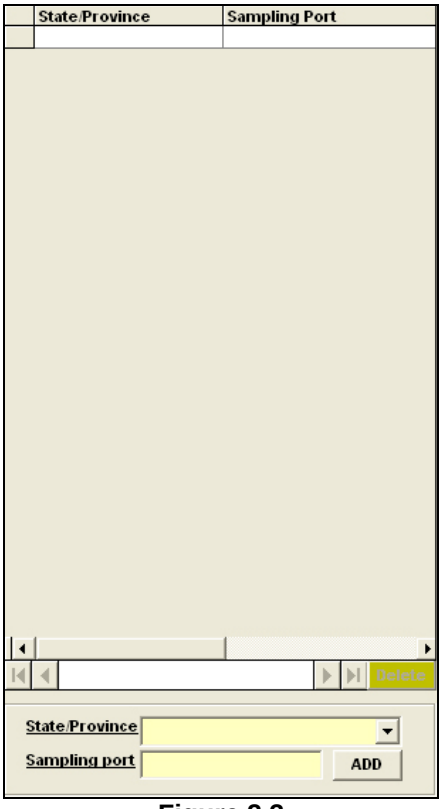


Figure 2.3

For State/Province, you may choose from pull down or Type state/province name then input sampling port name. Click "*Add*" to accept the new data. If you want to delete click the row and then click "*Delete*" button.

Fishing gear and fishing method

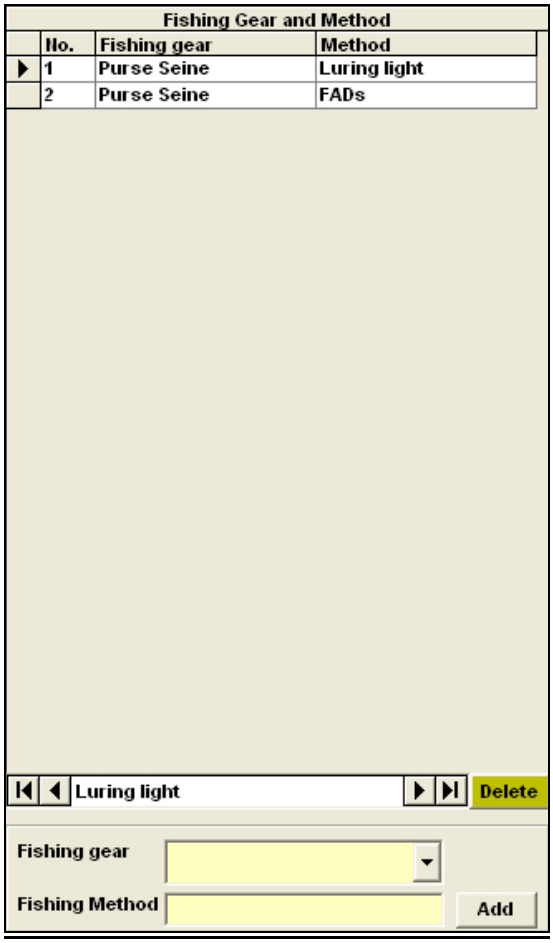


Figure 2.4

You can choose type of fishing gear from pull down or type new fishing gear name then type fishing method. Click "*Add*". If you want to delete click row and click "*Delete*" button

Target species

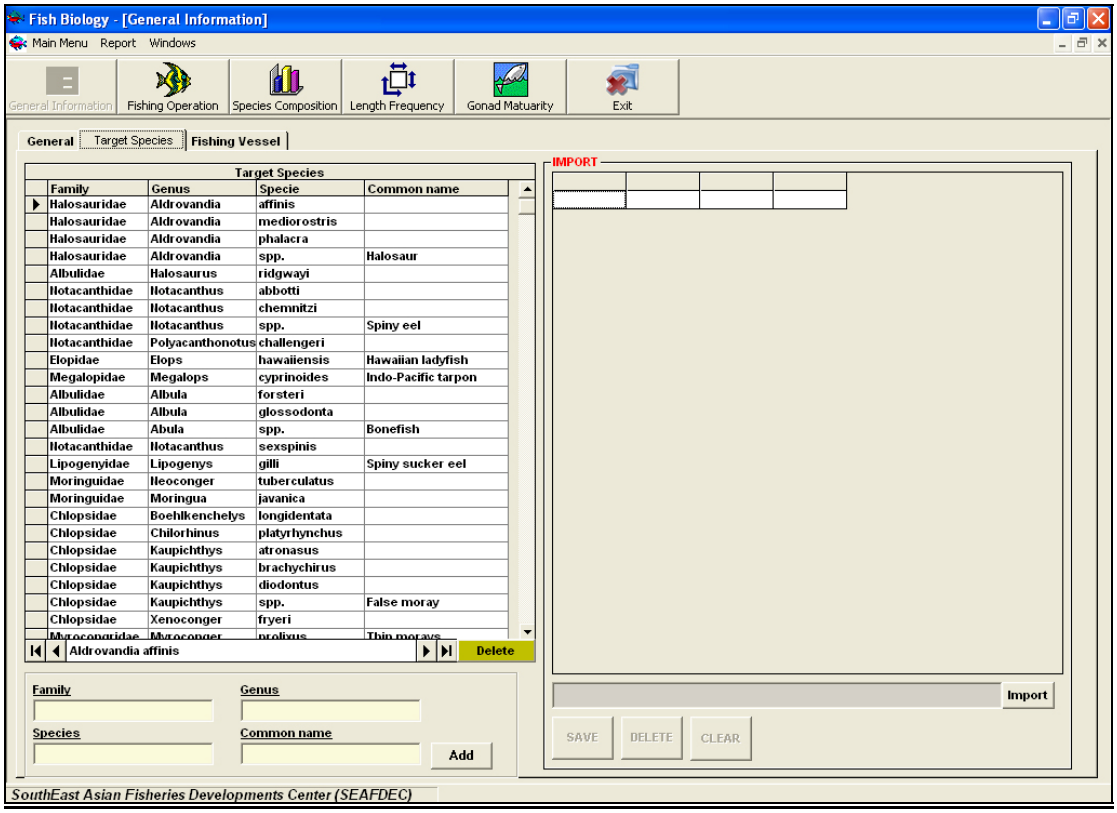


Figure 2.5

For target species, you can input the each species one by one or import from spreadsheet file.

Input family, genus, species and common name then click "*Add*"

Or

Import from CSV file (if you have excel format(.xls) you can "*save as*" .. and select CSV file type). The column sequence should be same as in fig 2.6. You can import data by click "*Import*" then choose file name and click "*SAVE*".
If you want to delete some species click row and click "*DELETE*" button. And if you want to cancel the import click "*CLEAR*"

For delete some species on the left side click row and click "Delete"

	A	B	C	D
1	Family	Genus	Species	Common name
2	Scombridae	Rastrelliger	brachysoma	Short mackerel
3	Scombridae	Rastrelliger	kanagurta	Indian mackerel
4	Carangidae	Decapterus	macrosoma	Shortfin scad
5	Carangidae	Decapterus	maruadsi	Amberstripe scad
6	Carangidae	Decapterus	russelli	Indian scad

Figure 2.6

***First column should be Family then follow by Genus, Species, Common name respectively**

Fishing Vessel

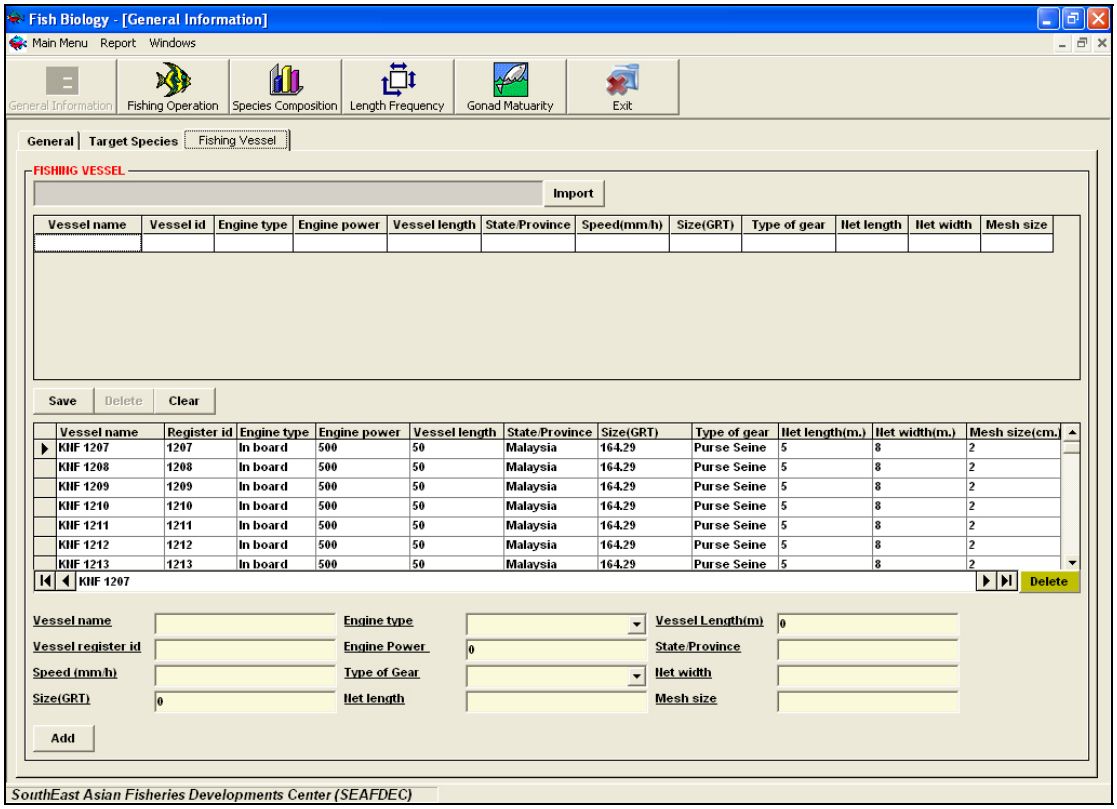


Figure 2.7

You can input each fishing boat data one by one or import data from existing CSV file. If you want to input one by one, input all of data and click “Add”

Or

By import click “*Import*” and select your file and click “*Save*”. If you want to delete data from import file click row and click “*Delete*” or you want to delete all of data from import click “*Clear*”

The format of vessel file should be same as fig. 2.8

	A	B	C	D	E	F	G	H	I	J	K
1	vessel name	vessel register id	engine type	engine power	length(m)	state/province	size(GRT)	type of gear	net length(m)	net width(m)	mesh size(cm)
2	KNF 1207	1207	In board	500	50	Malaysia	164.29	trawl	5	8	2
3	KNF 1208	1208	In board	500	50	Malaysia	164.29	trawl	5	8	2
4	KNF 1209	1209	In board	500	50	Malaysia	164.29	trawl	5	8	2
5	KNF 1210	1210	In board	500	50	Malaysia	164.29	trawl	5	8	2
6	KNF 1211	1211	In board	500	50	Malaysia	164.29	trawl	5	8	2
7	KNF 1212	1212	In board	500	50	Malaysia	164.29	trawl	5	8	2
8	KNF 1213	1213	In board	500	50	Malaysia	164.29	trawl	5	8	2
9	KNF 1214	1214	In board	500	50	Malaysia	164.29	trawl	5	8	2
10	KNF 1215	1215	In board	500	50	Malaysia	164.29	trawl	5	8	2
11	KNF 1216	1216	In board	500	50	Malaysia	164.29	trawl	5	8	2
12	KNF 1217	1217	In board	500	50	Malaysia	164.29	trawl	5	8	2
13	KNF 1218	1218	In board	500	50	Malaysia	164.29	trawl	5	8	2
14	KNF 1219	1219	In board	500	50	Malaysia	164.29	trawl	5	8	2

Figure 2.8

You can delete fishing boat information after save by select row then click “*Delete*” (the yellow button)

Please note that information that you input in “General Information” menu will be a list in pull down of other data input window.

3. Fishing Operation

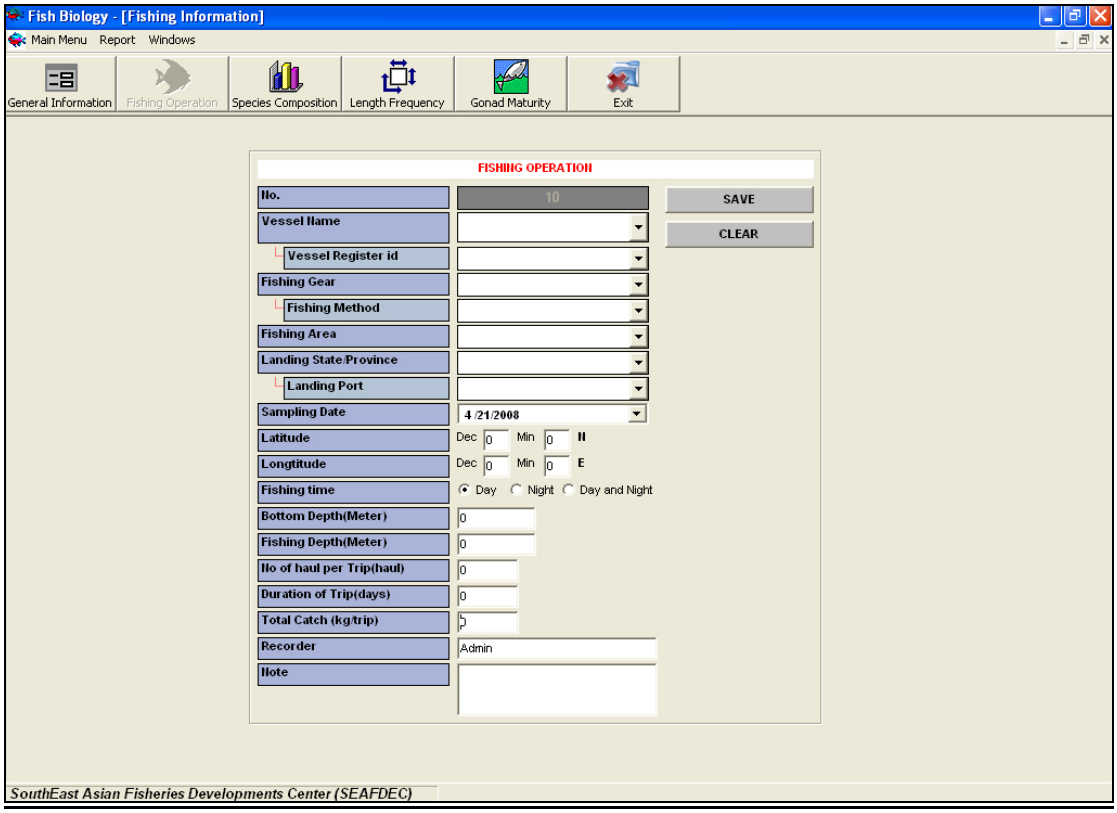
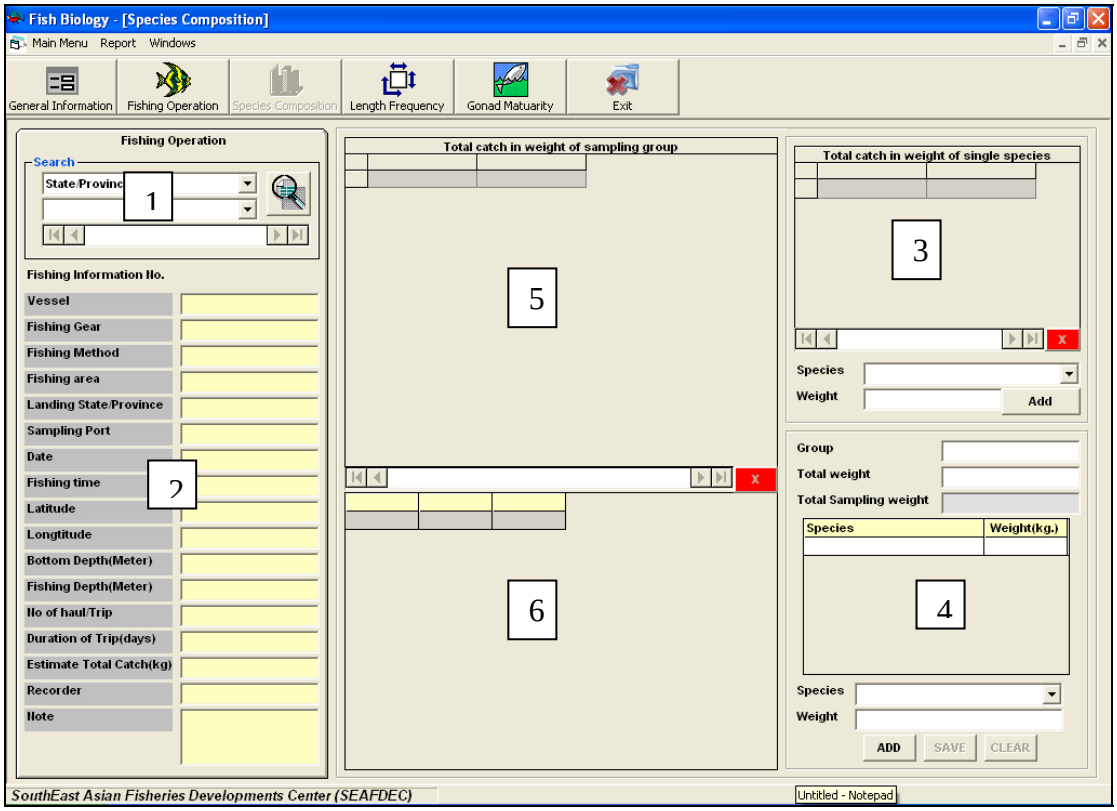


Figure 3.1

Fishing operation data input window contain all information related to fishing operation. Vessel name, Vessel registration id, Fishing gear, Fishing method, Fishing area, Landing State/Province, Landing port, Sampling date are input by choose from pull down list. While the less have to type.

After input click "*SAVE*" if you want to cancel click "*CLEAR*". After "*SAVE*", you can input Species Composition, Length frequency or Gonad maturity for this operation.

4. Species Composition



Picture 4.1

Part [1] you can search the fishing operation to input species composition, the searched data of fishing operation will show in the part [2]. However if you open this page after input fishing operation, the detail will show automatically from the previous page.

Species composition can be input both single species and mix species.
For single species sample input in part [3]

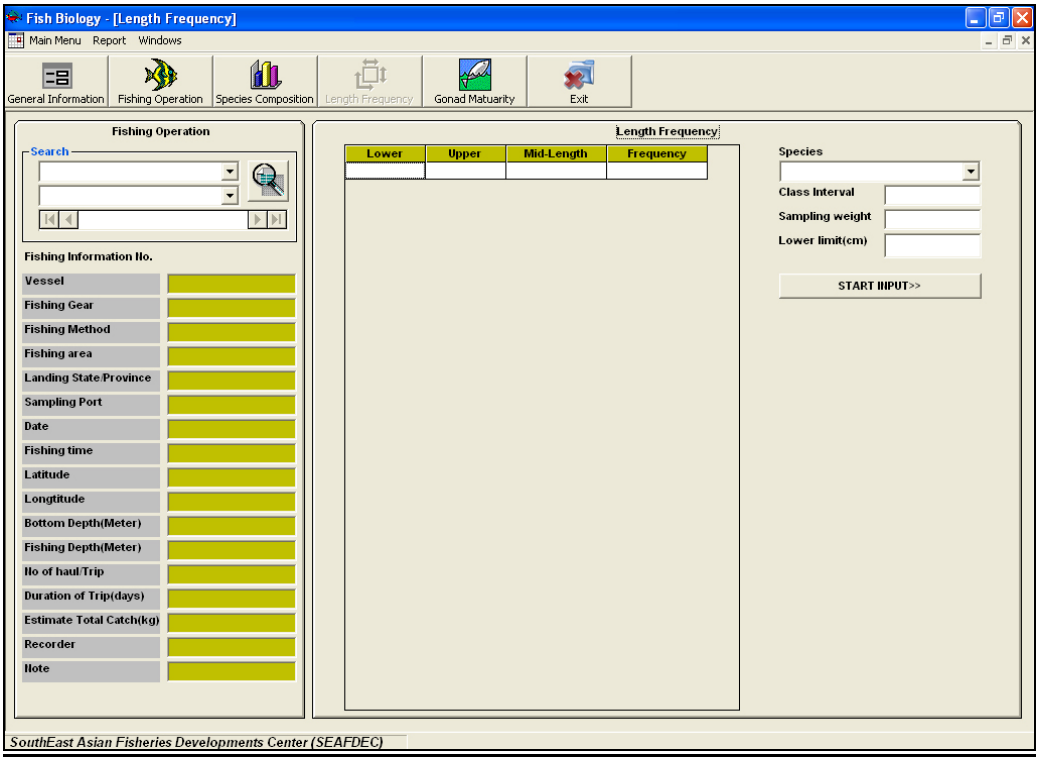
- select species from the pull down
- input weight of that single species
- *ADD*

For mix species input in group [4]
Data collector has to sampling for group species composition

- Input group name from pull down list
- Input total weight of the group
- Input sampling weight
- Select species from pull down
- Input weight of each species
- *ADD*

Software will calculate species composition after each “add” in part [5] and [6]

5. Length Frequency



Picture 5.1

You can search the fishing operation to input length frequency, the searched data of fishing operation will show at the left part. However if you open this page after input fishing operation, the detail will show automatically from the previous page (Fig. 5.2).
Start length frequency by choose species from pull down list, then type class interval and lower limit (after input class interval Lower limit, Upper limit and Mid-length will show automatically as shown in the fig.5.2)

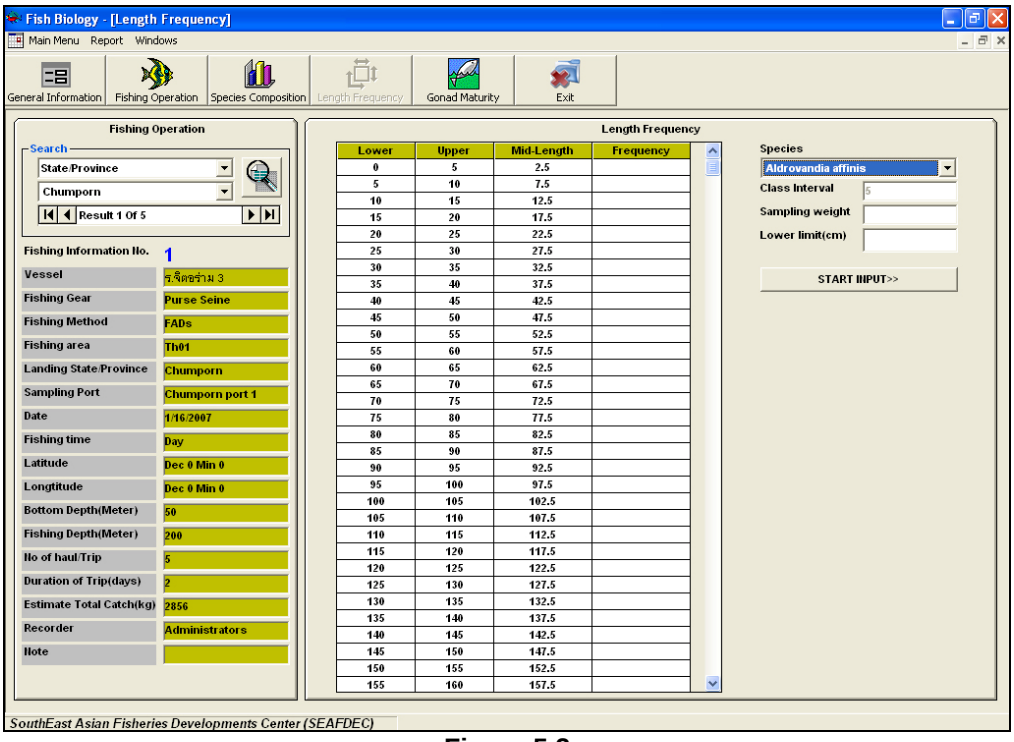


Figure 5.2

Click "*START INPUT*" to input number of fish in each class interval (Fig. 5.3). After complete data input click "*FINISH*"

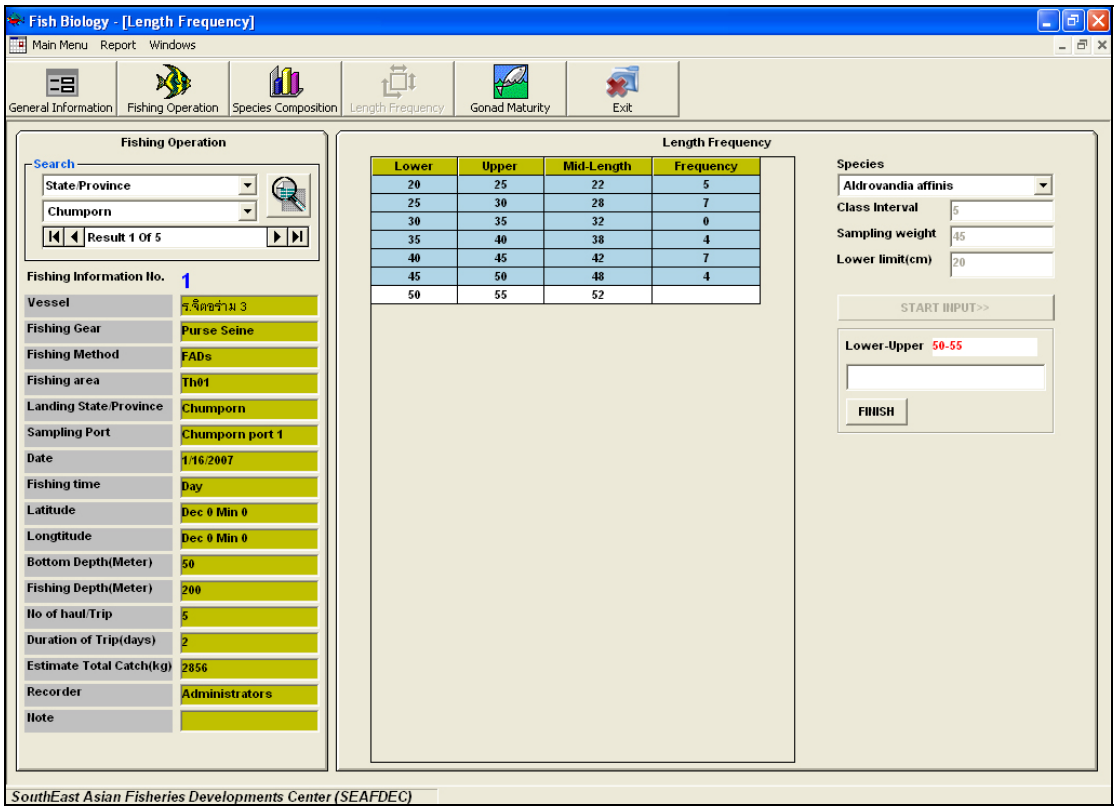
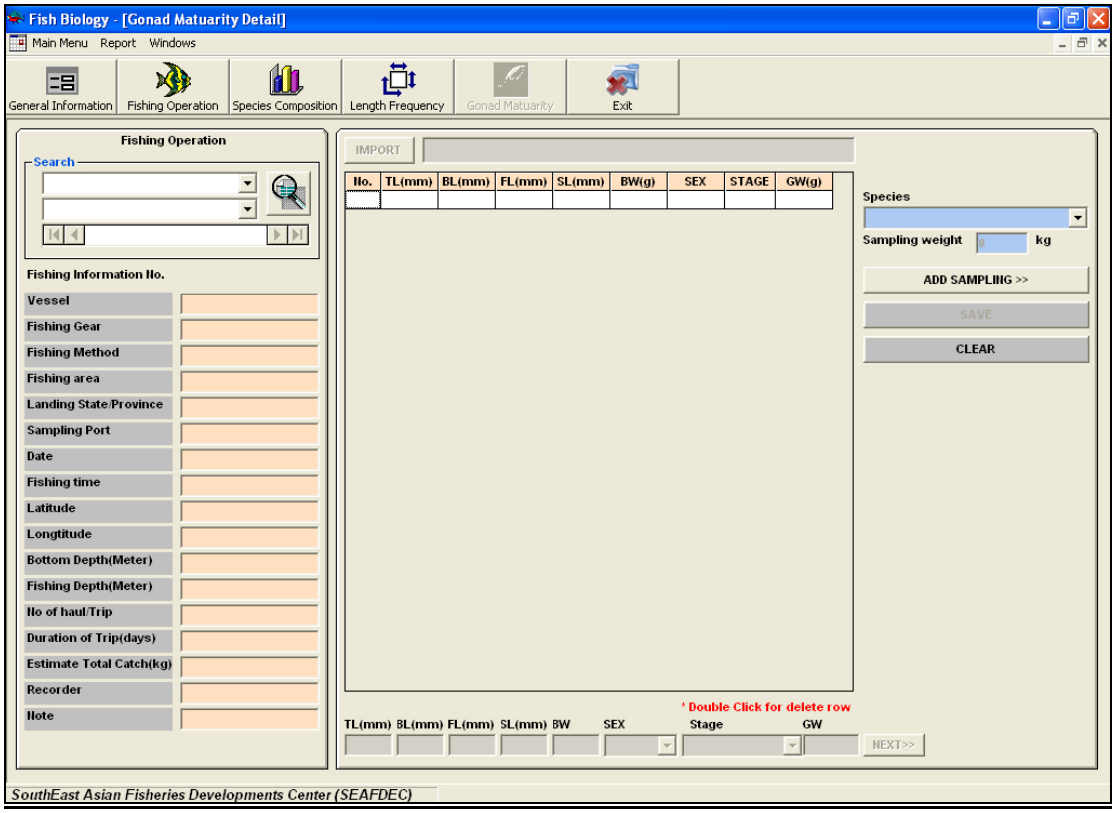


Figure 5.3

6. Gonad maturity



Picture 6.1

For gonad maturity, you can input one by one data or import from CSV file. Data input start from choose species from pull down list. The sampling weight will summation of each fish weight. Then click "*ADD SAMPLING*" you can input one by one data or import from CSV File which have column sequence same as fig. 6.2

	A	B	C	D	E	F	G	H
1	TL	BL	FL	SL	BW	SEX	Stage	GW
2	210	175	189	183	118.2	F	3	3.1
3	170	144	157	153	57.2	F	1	0.1
4	160	133	146	142	47.7	F	1	0.1
5	167	140	154	150	49.5	F	1	0.1
6	200	164	180	175	87.1	F	1	0.1
7	178	145	155	150	57.7	F	1	0.1
8	180	147	160	152	64.9	F	1	0.1
9	160	132	145	140	45.2	F	1	0.1
10	175	145	155	150	61.3	F	1	0.1

Picture 6.2

Click "*IMPORT*" for select your file and then click "*SAVE*" .
Click "*CLEAR*" for input data of next species**.**

7. SEARCH

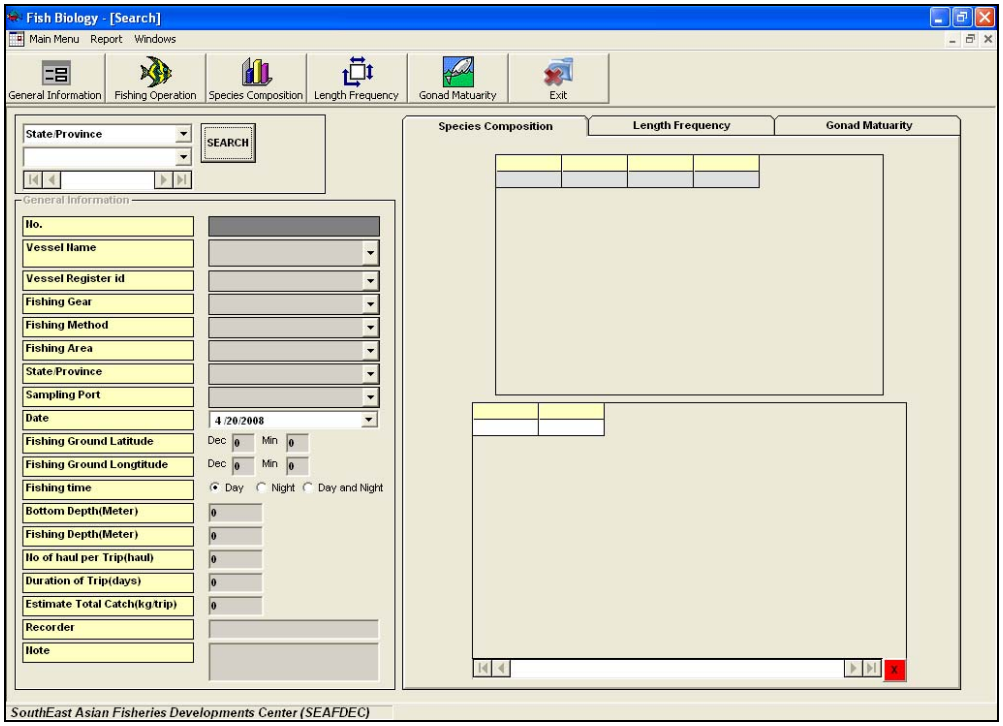
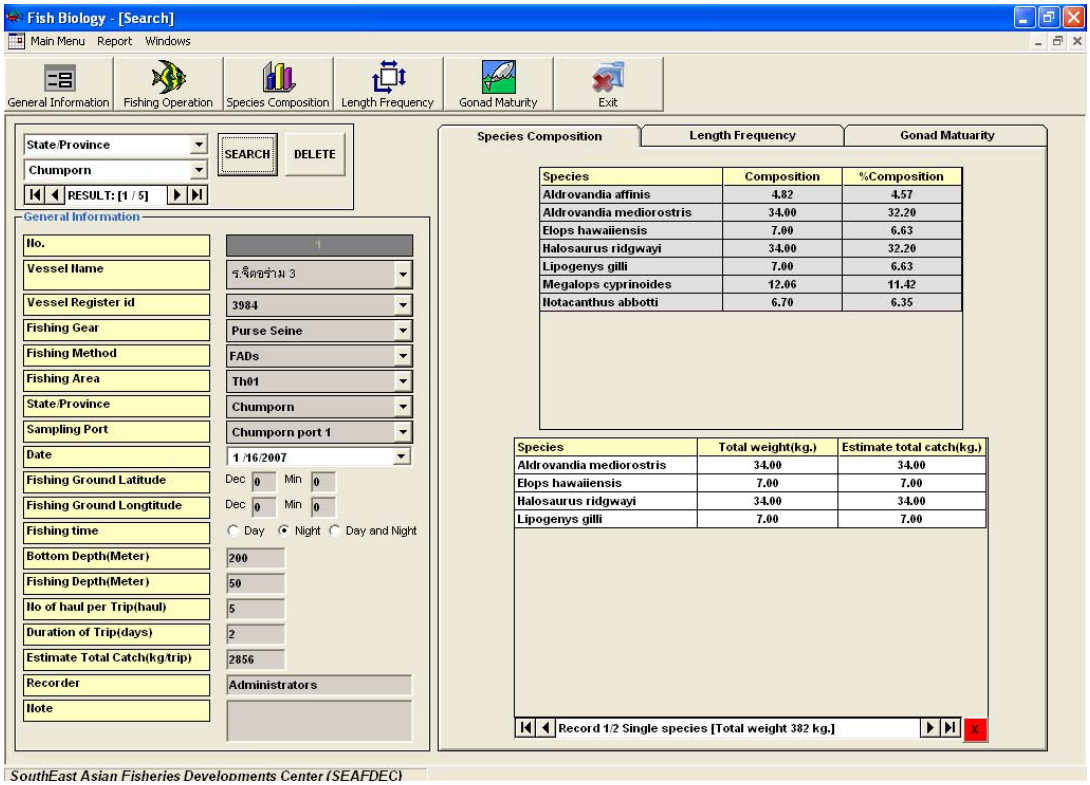


Figure 7.1



You can search for fishing operation data using “Search” in the main menu. There are five name on the pull down lists that you can search from: State/Province, Sampling port, Fishing area, Vessel and Fishing gear. Choose one of the lists, click “SEARCH” button. Then the data of fishing operation, Species composition, Length frequency and Gonad maturity will be shown. Example result of search was shown in fig. 7.2 below.

Figure 7.2

8. Change Password

Picture 8.1

You can change your password from the “Main menu”.

9. Report

You can query data of “Fishing operation”, “Species composition”, “Length frequency” and “Gonad maturity data” from this menu.

Fishing Operation

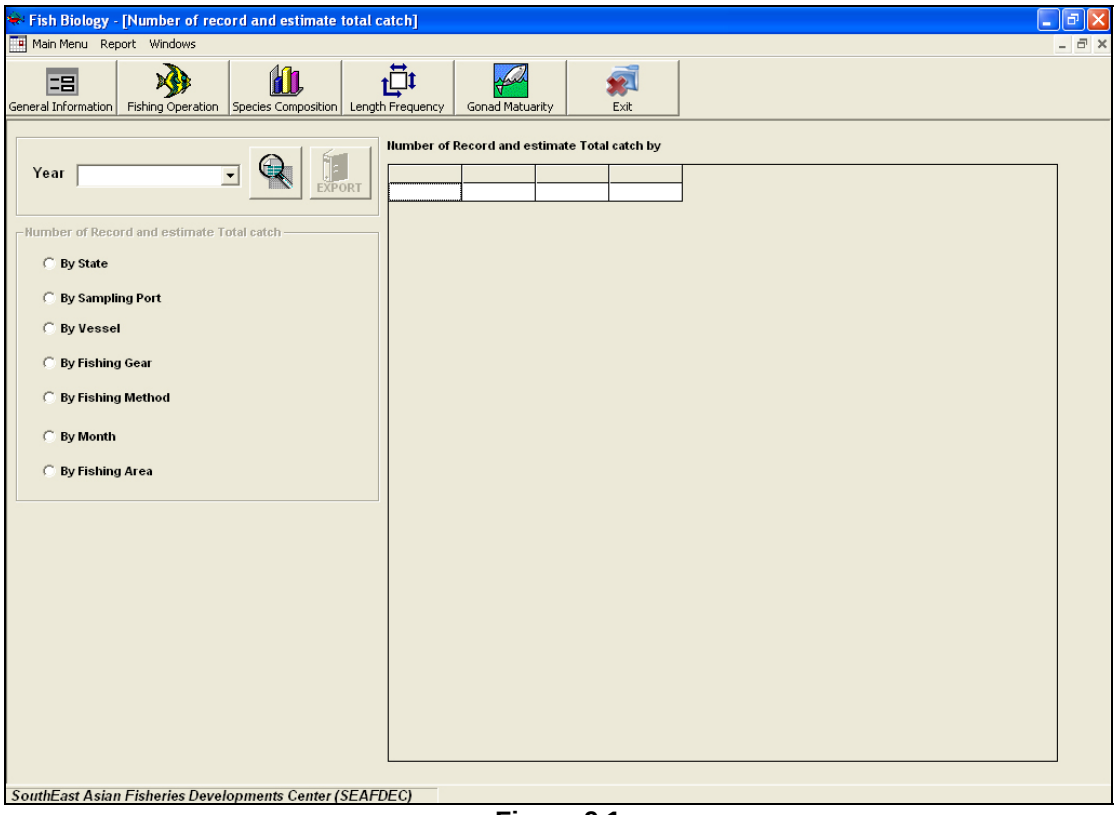


Figure 9.1

In fishing operation, you have to choose ‘Year’ of the report and click “*SEARCH*”. Check one radio box such as By state, By Sampling port or By Vessel below ‘Year’. The data will be presented on the right side. You can also export the data to CSV file by using “*EXPORT*” button.

Species Composition

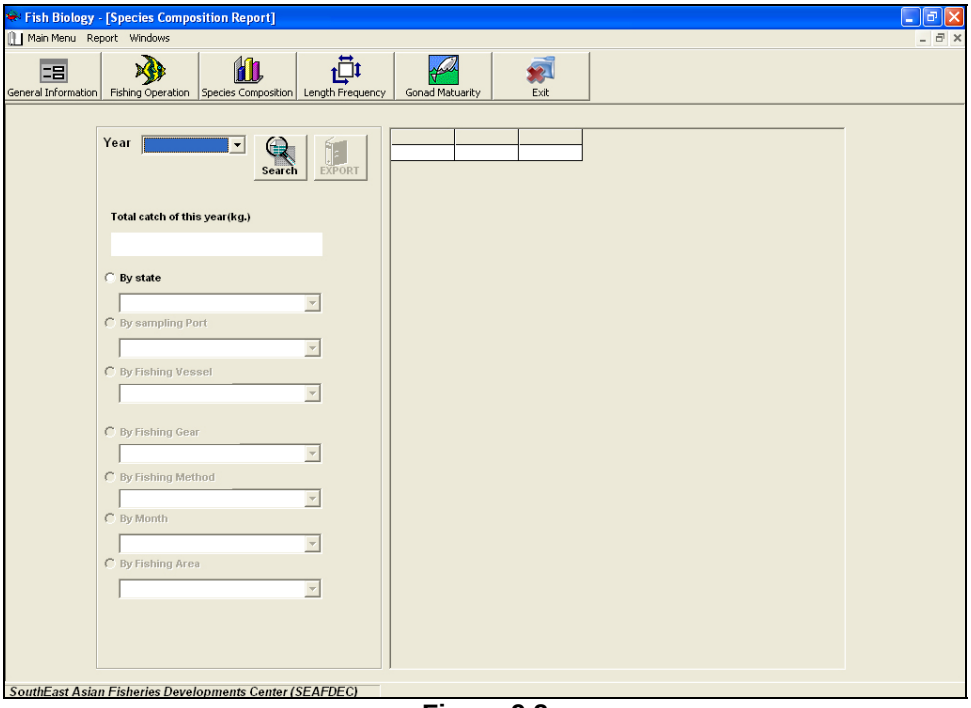


Figure 9.2

In species composition, you should follow the same procedure as fishing operation. But you have to select one of list under the radio box that you have chosen. You can also export the data to CSV file by using "*EXPORT*" button.

Length Frequency

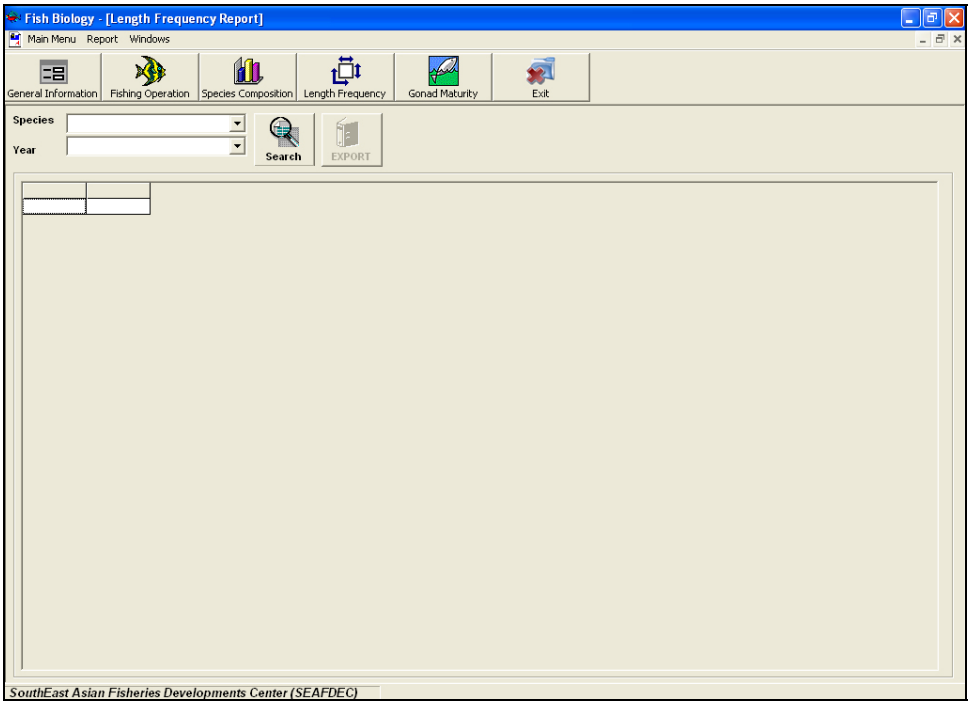


Figure 9.3

In length frequency, you have to choose 'Species' and 'Year'.Then click "*Search*". You can also export the data to CSV file by using "*EXPORT*" button.

Gonad maturity

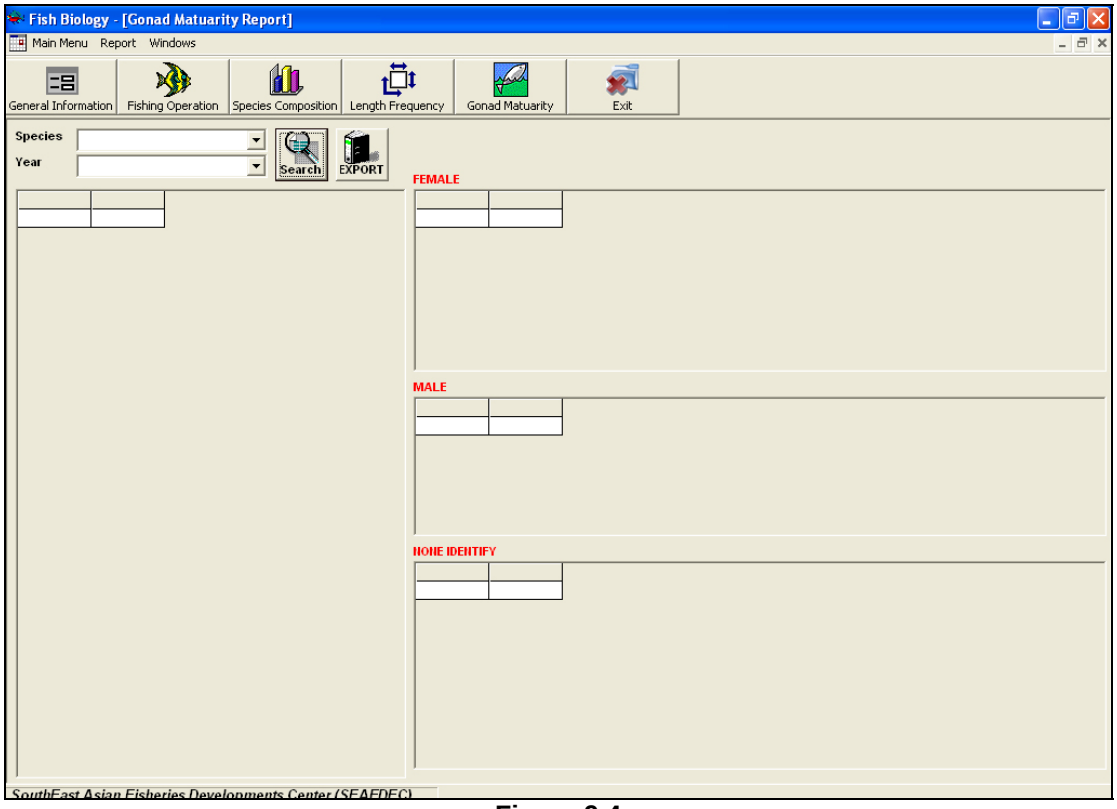


Figure 9.4

In gonad maturity, the procedures are the same as using Length frequency.