GENDER IN PRODUCTION AND UTILIZATION OF BANGUS AT CEBU TECHNOLOGICAL UNIVERSITY, CEBU, PHILIPPINES

by:

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Cebu Technological University, Cebu City, Philippines

Introduction

- Cebu Technological University (CTU)
- Four (4) fishery campuses
- 55 hectares of instructional fish pond


China
Chengdu
成都
Chongqing
重庆
Wuhan
武汉
Nanjing
南京
Shanghai
上海
Gwangju
광주
Hiroshima
広島
Osaka
大阪
East
China Sea
Kagoshima
鹿児島
Nanchang
南昌
Hangzhou
杭州
Guiyang
贵阳
Changsha
长沙
Fuzhou
福州
Naha
那覇
Kunming
昆明
Nanning
南宁
Guangzhou
广州
台湾
Taiwan
Mvanmar
(Burma)
Ha Noi
Haikou
海口
香港
Hong Kong
澳門
Macau
Laos
Philippine
Sea
Yangon
บาะเทศไทย
South
China Sea
Manila
Thailand
Vietnam
Cambodia
Andaman
Sea
Philippines
Phnom
Penh
Gulf of
Thailand
Sulu Sea
Malaysia
Medan
Kuala
Lumpur
Celebes
Sea

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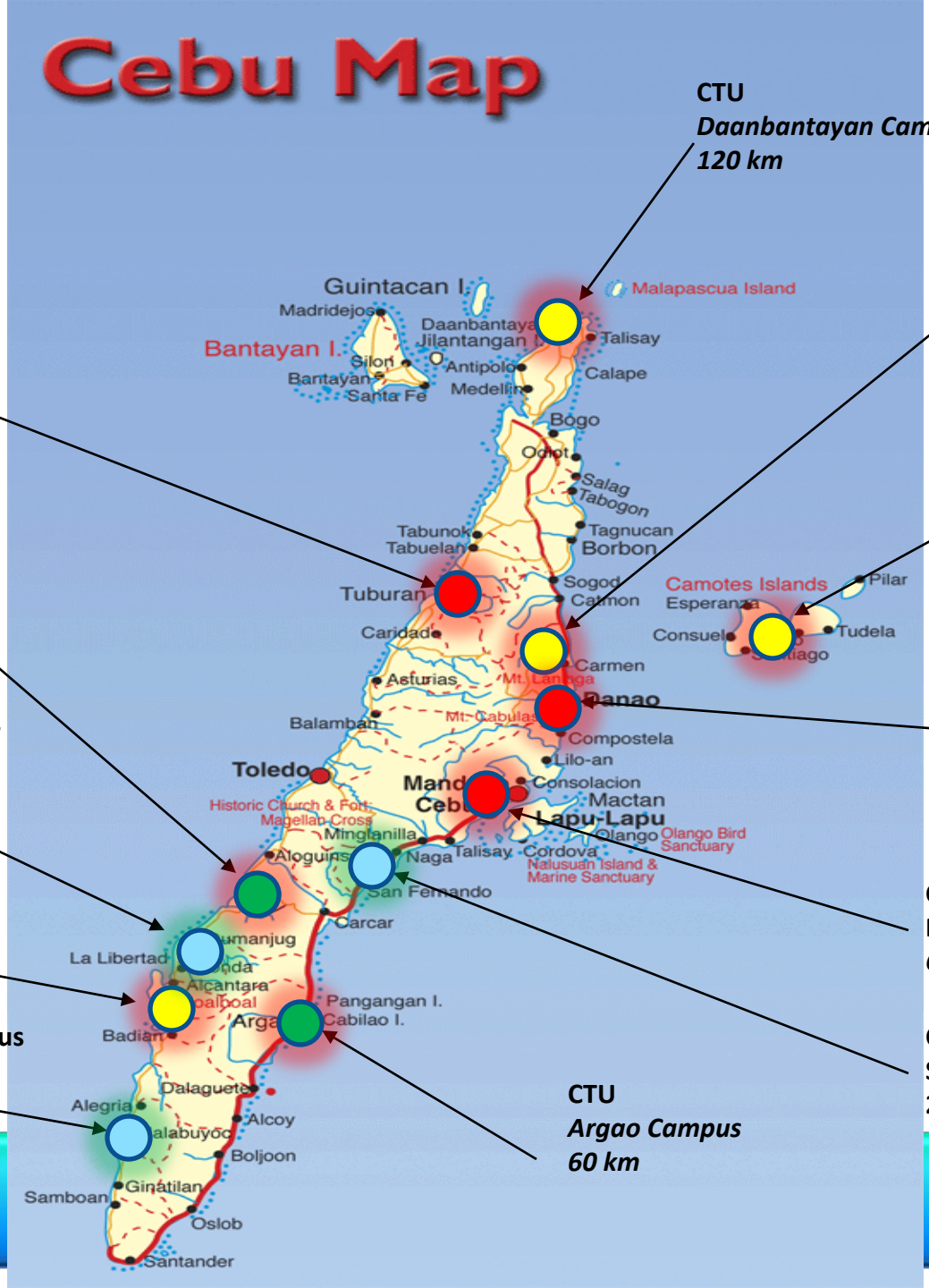
Location of 9 CTU Campuses and 3 Extension Campuses



CTU
Daanbantayan Campus
120 km

CTU
Carmen Campus
41 km

CTU
Tuburan Campus
96.7 km

CTU
San Francisco Campus
64 km

CTU
Barili Campus
60 km

CTU
Danao City Campus
33 km

CTU Extension Campus,
Dumanjug, Cebu
70 km

CTU
Moalboal Campus
82 km

CTU
Main Campus
Cebu City

CTU Extension Campus
Malabuyoc, Cebu
120 km

CTU Extension Campus,
San Fernando , Cebu
20 km

CTU
Argao Campus
60 km

CTU

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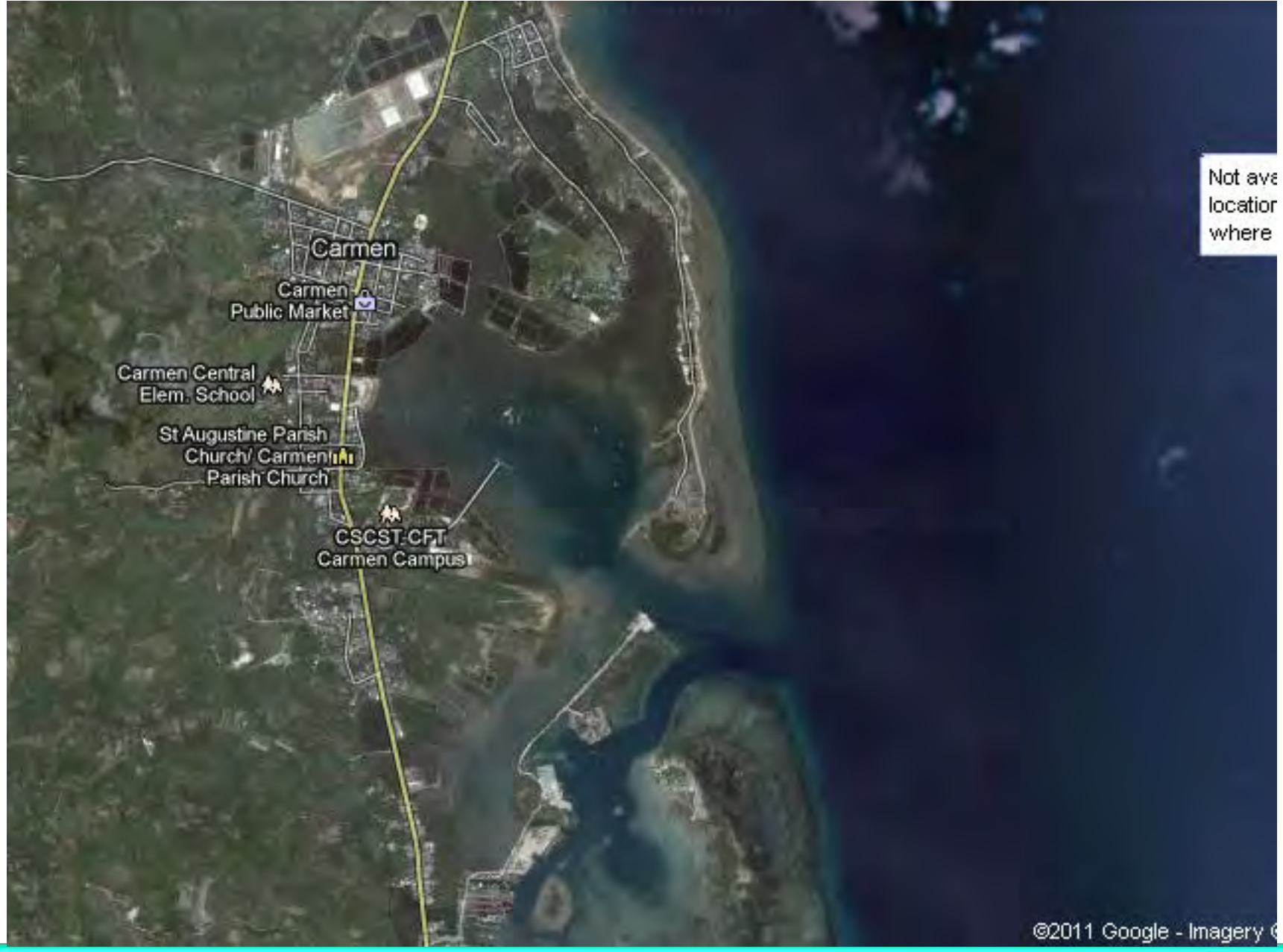
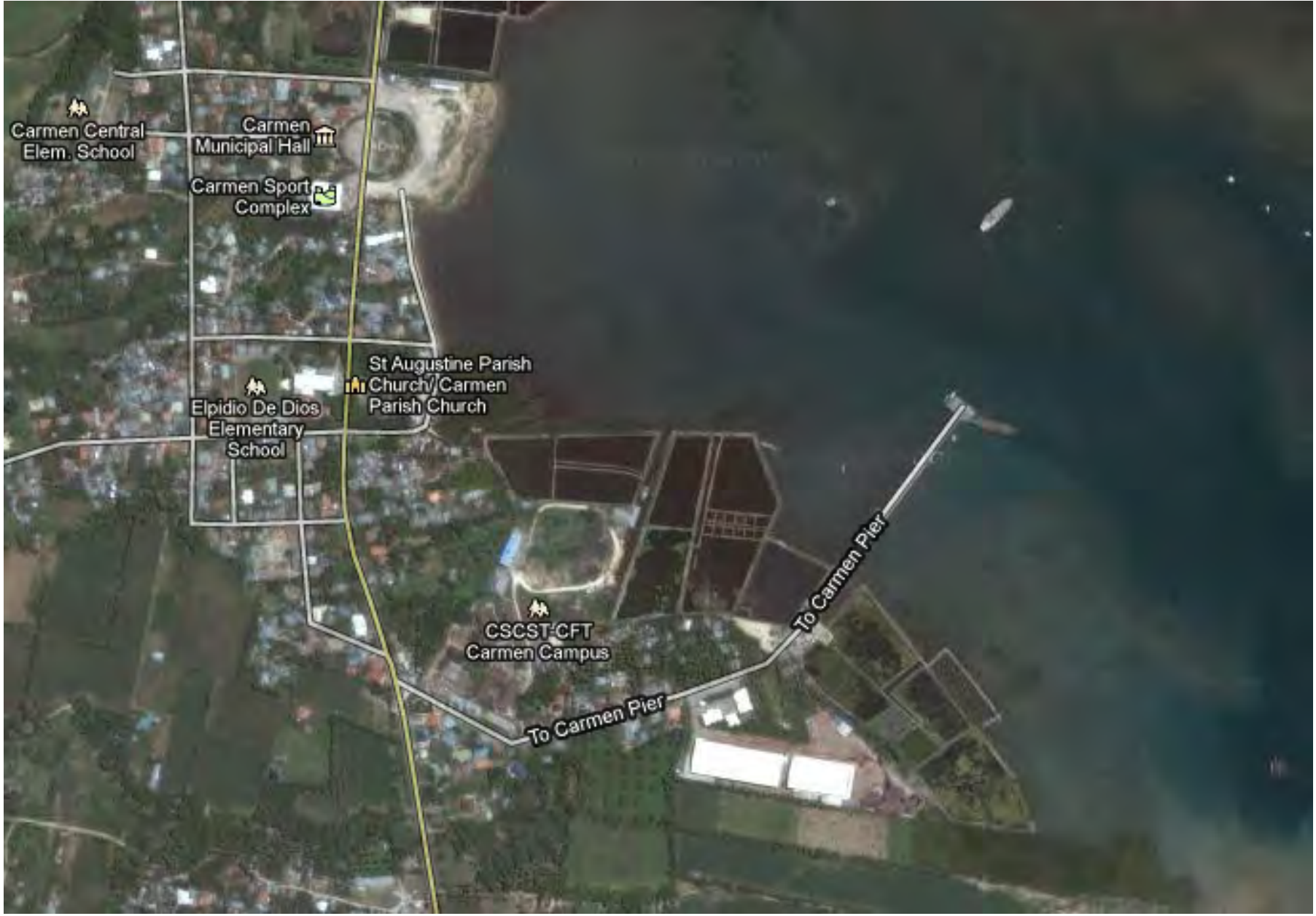

Carmen
Carmen
Public Market
Carmen Central
Elem. School
St Augustine Parish
Church/ Carmen
Parish Church
CSCST CFT
Carmen Campus
Not ava
location
where
©2011 Google - Imagery



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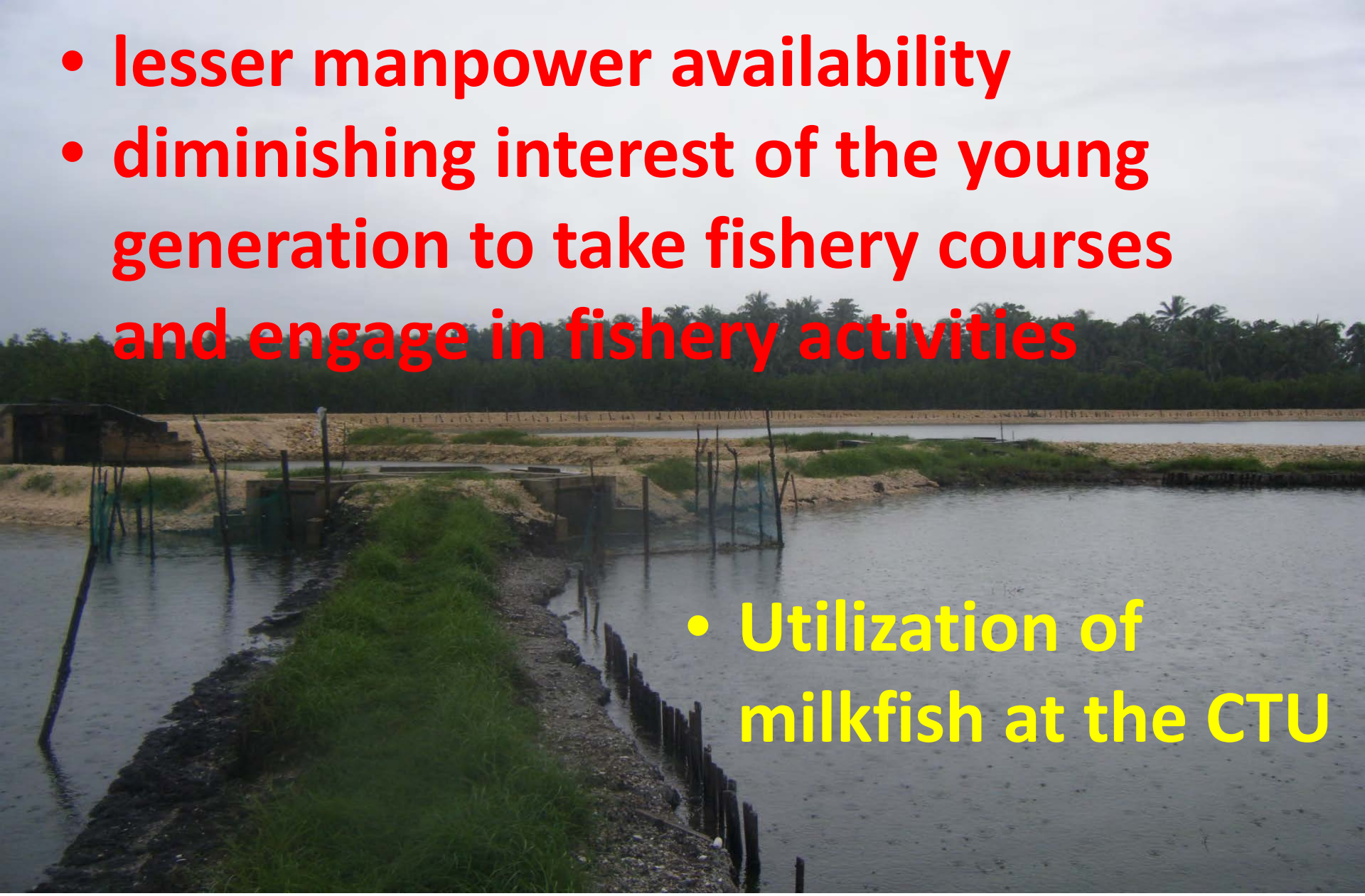
Introduction

- *Chanos chanos* (milkfish, locally known as “bangus” in Filipino and Cebuano)
- most common species of cultured fish in the Philippines.

- University's fish pond for instruction and production
- Gender in bangus production and utilization


• lesser manpower availability
• diminishing interest of the young generation to take fishery courses and engage in fishery activities
• Utilization of milkfish at the CTU

Objectives

The study aimed to determine the:

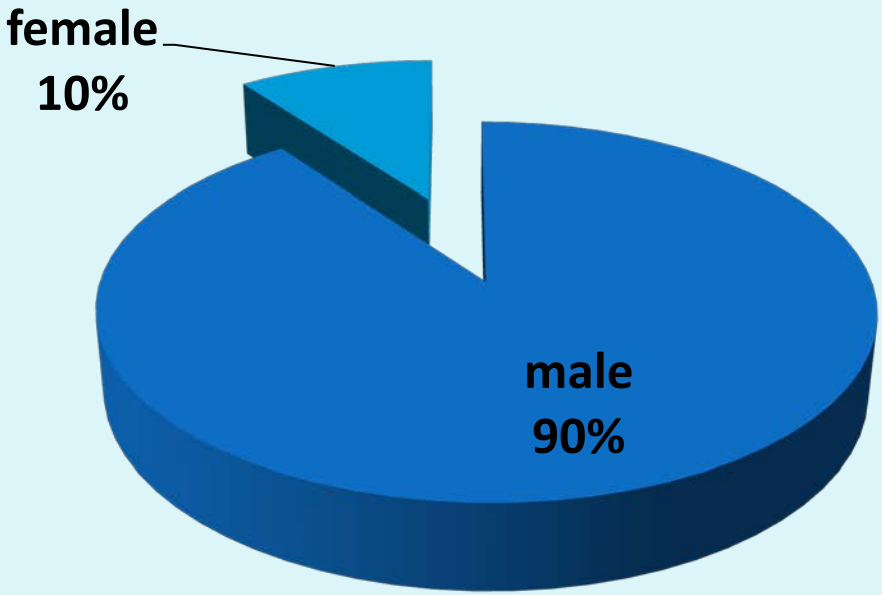
- **socio-economic and demographic profile of respondents;**
- **gender involvement in milkfish production and utilization; and**
- **extent of milkfish production in CTU.**

Methods

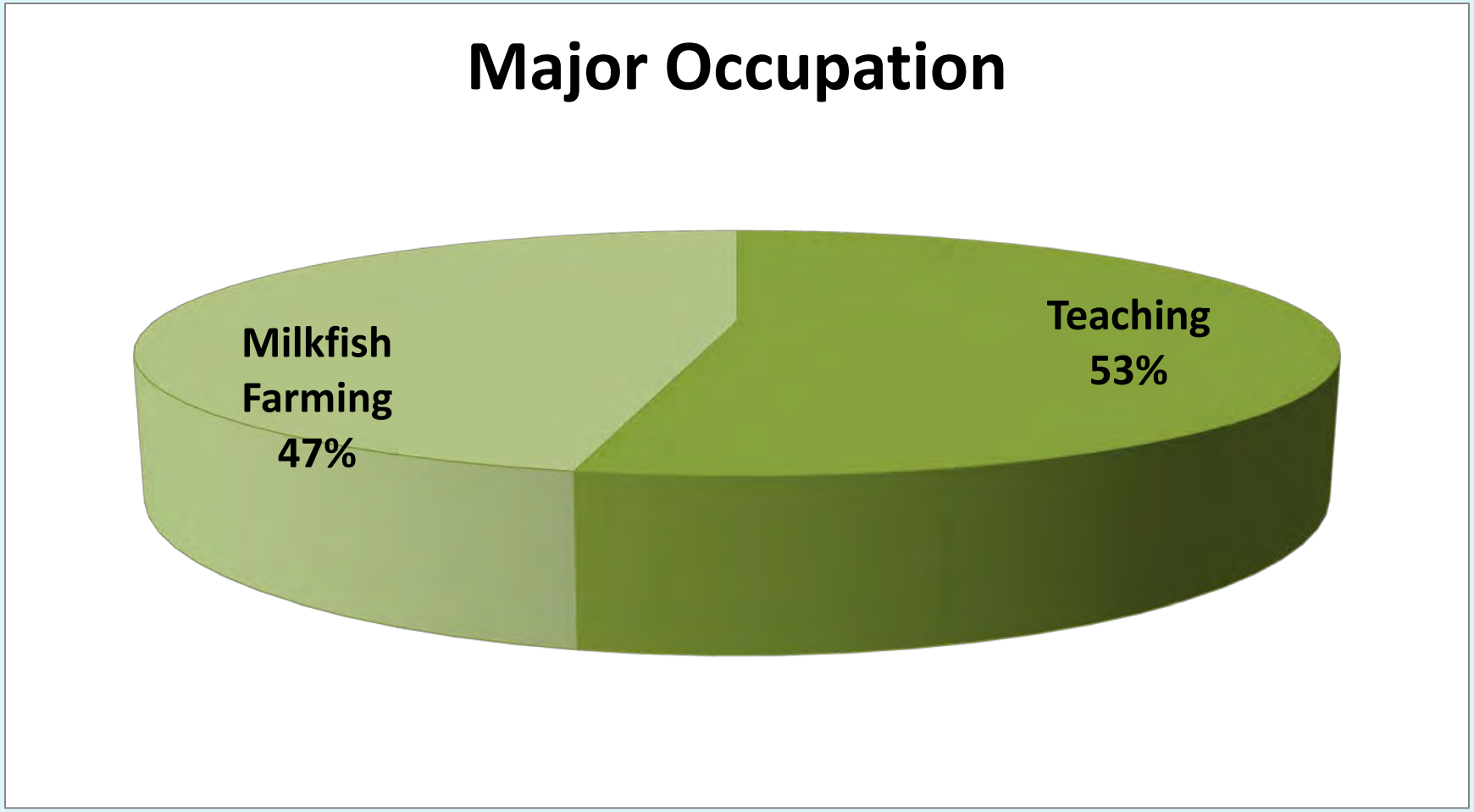
- **Descriptive Method**
- **Purposive Sampling**
- **Questionnaire (Villareal and Turner)**
- **Interview**

Results and Discussion

Gender Involvement in Milkfish production



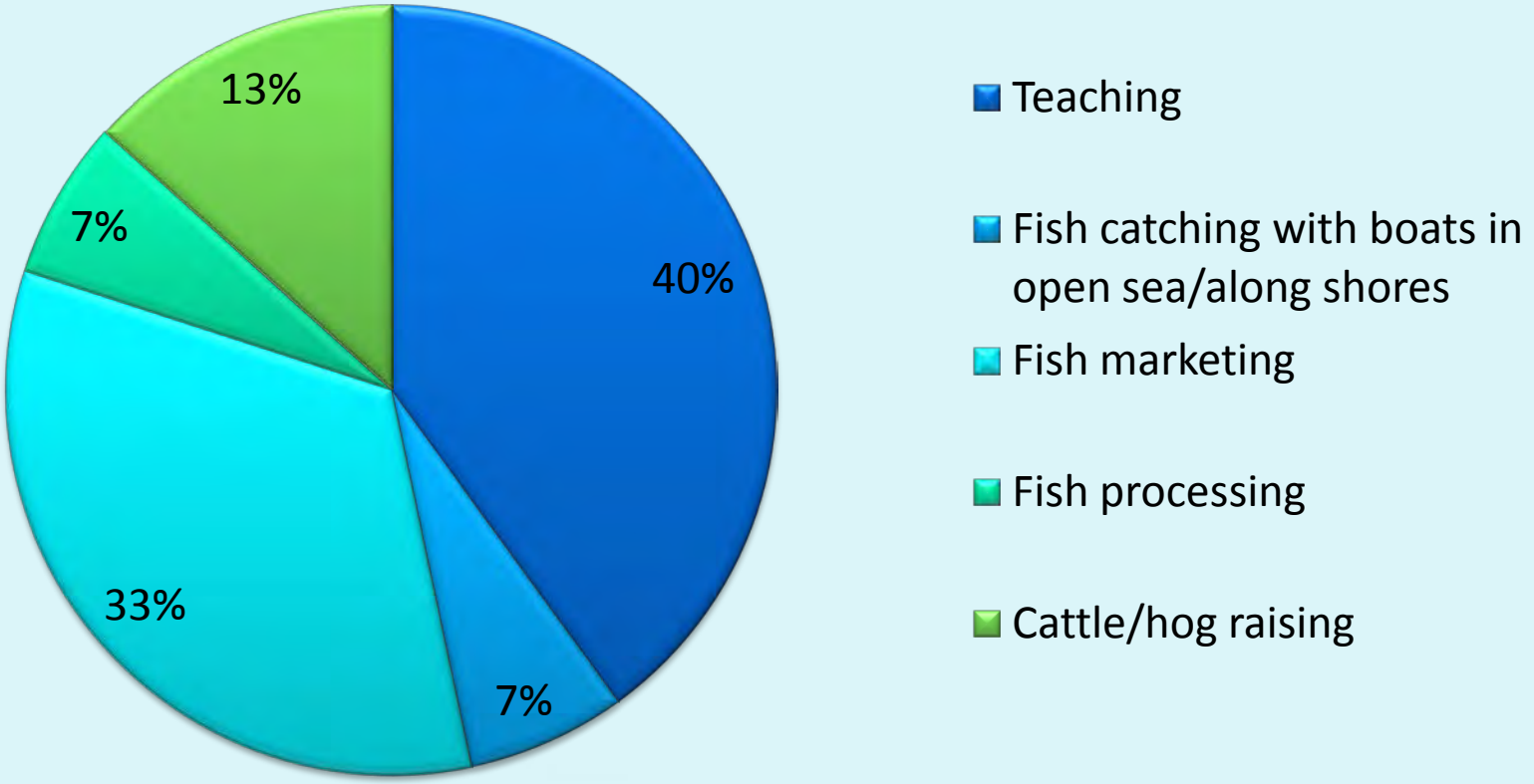
Occupation of Respondents



Demographic Profile of Respondents

- 60% of the respondents were residents of Carmen, Cebu
- 20% came from the other towns of Cebu
- 20% came from nearby islands of Cebu

Subsidiary Occupation of Respondents



Milkfish Production Activities (Pond Preparation)

Male	Female
• Pond draining, soil sealing, leveling and repair • Pond drying • Pest screening • Pest predator control • Liming • Washing • Organic fertilization • Stock	• Pond drying • Pest screening • Pest predator control • Liming • Washing • Organic fertilization

Milkfish Production Activities (Pond water management)

Male	Female
• Increase water depth • Monitor water parameters • Install water-standby pump	• Monitor water parameters • Change water • Sampling

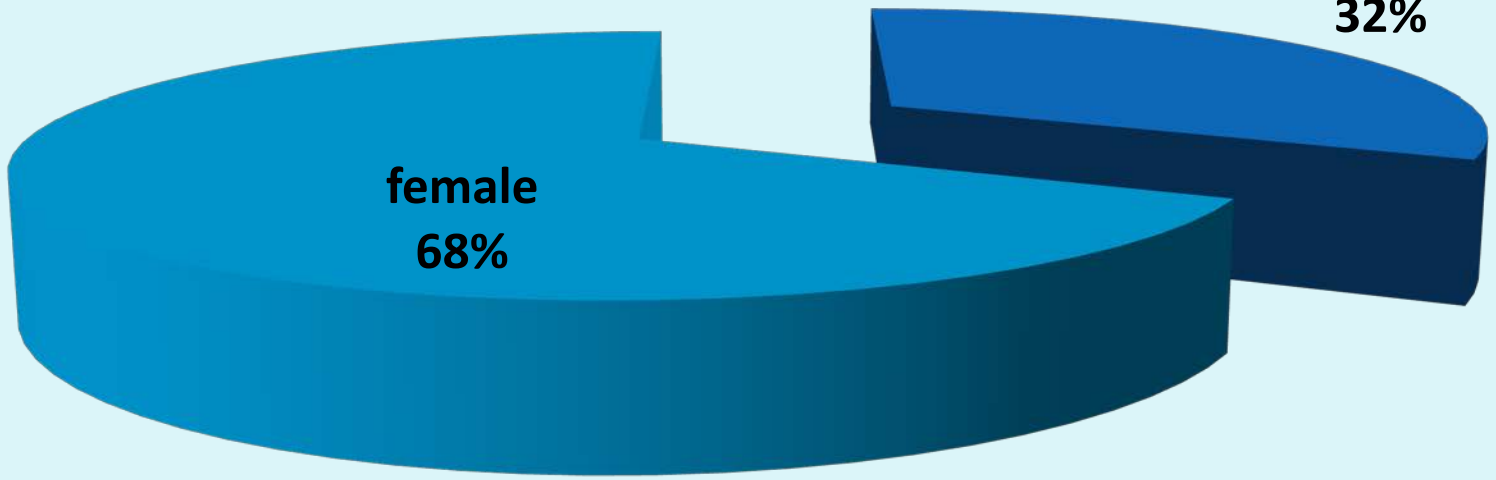
Milkfish Production Activities (Harvesting)

Male	Female
• Total draining • Collecting and picking • Packing for transport	• Weighing • Selling • Packing for transport

- **Milkfish culture in tanks, in rearing pond, and in the fish pond.**
- **Women usually take care of tanks while men take care of the pond.**

Results and Discussion

Gender Involvement in Milkfish utilization



Milkfish Utilization Activities (Harvesting)

Male	Female
• Packing for Transport • Chilling	• Weighing • Chilling

Milkfish Utilization Activities (Milkfish deboning)

Male	Female
• Purchasing materials • Chilled brine preparation • Splitting • Removing spines • Curing	• Purchasing materials • Chilled brine preparation • Splitting • Removing spines • Curing

Milkfish Utilization Activities (Soft-boned milkfish)

Male	Female
• Purchasing materials • Brine-chilling • Packing • Processing	• Purchasing materials • Brine-chilling • Packing • Processing

Milkfish Utilization Activities (Milkfish Relleno)

Male	Female
• Purchasing materials • Separating flesh from skin • Sauteeing • Stuffing • Cooking	• Purchasing materials • Separating flesh from skin • Sauteing • Stuffing • Cooking

Milkfish Utilization Activities (Milkfish Nuggets and Sticks)

Male	Female
• Purchasing materials • Filleting • Forming into steaks and sticks • Adding condiments • Cooking	• Purchasing materials • Filleting • Forming into steaks and sticks • Adding condiments • Cooking

Milkfish Production at CTU

Year	Area Utilized (Ha)	Production (kg/yr)	Gross Income (PhP/yr)	Ave. Prod'n. (kg/Ha/ yr)	Ave. Income (PhP/yr)
2008	4	2,442.70	171,019.00	618.97	PhP 186,704.33 (US$ 4,243.28)
2009	4	2,751.00	210,040.00		
2010	4	2,230.30	179,054.00		


• The respondents still engaged in subsidiary occupation despite their major occupation.
• Milkfish production is dominated by male workers.

- Women dominated in post harvest activities.
- Male and female engage in the same tasks in milkfish utilization.

Conclusion

1. Heavy activities in milkfish production were still dominated by men while lighter activities, i.e. milkfish utilization (post harvest activities) were done by women.
2. The aquaculture activities, though instructional in nature, have augmented the income of the Cebu Technological University.

Acknowledgment

- Dr. Bonifacio S. Villanueva, University President
- Bureau of Fisheries and Aquatic Resources
- 9AFAF and GAF3 Secretariat and Staff

References

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- Brugere, et al, 2001. Capability Improvement Framework for Women in Aquaculture: Aims, Description and Guidelines for Use
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End

Thank you!