# PROCESSING OF FRIGATE MACKEREL Auxis thazard: GENDER ROLE ON PRODUCT SAFETY

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Tuna remained as one of the top export fishery commodity and these are exported in forms of fresh, chilled, frozen, smoked, dried and canned. Most of the municipal tuna catch is landed as wet fish in thousands of landing sites all over the Philippines (Barut and Garvilles, 2009).

- One of the fish landing sites in Cebu Province, Philippines is Danao City, fishports
- Tuna-like species particularly frigate mackerel is abundant in this fishports which are processed into *tinap-anan*, a hot smoked

frigate mackerel

- Danao City is a 3rd class city in the province of Cebu, Philippines. According to the 2007 census, it has a population of 109,534 people.
- Out of this populace, there are 30 households who are *tinap-anan*

processors

Post harvest facilities (ie access to salt, ice and cold storage etc) are lacking in strategic locations in many areas. There is a need for more private-sector participation in providing such facilities

(<a href="http://www.fao.org/fi/oldsite/FCP/en/PHL/profile.htm">http://www.fao.org/fi/oldsite/FCP/en/PHL/profile.htm</a>.)

## Introduction Danao City, Philippines Fishports



Plete (1985) characterizes smoked frigate mackerel *tinap-anan*, as to its proximate composition, histamine and Aw level, to determine its safety

Macachor (2005) determine the histamine level with time of processing in participation of the tinap-anan processors of Danao City, Phil

### Research Sites CTU Main Campus, Cebu Philippines



### Objective

This study was conducted to investigate the role of gender on the safety of processed smoked frigate mackerel prior to consumption



#### Methods



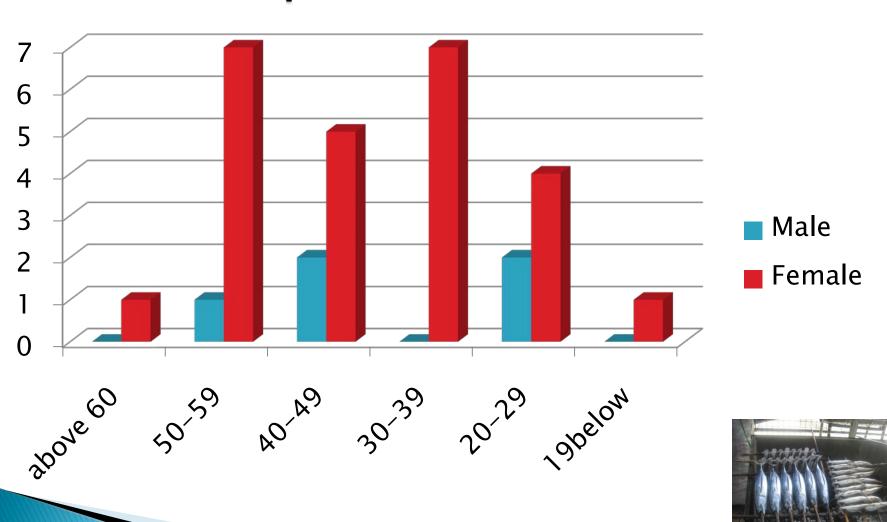


Villareal and Turner, FAO questionnaire on gender

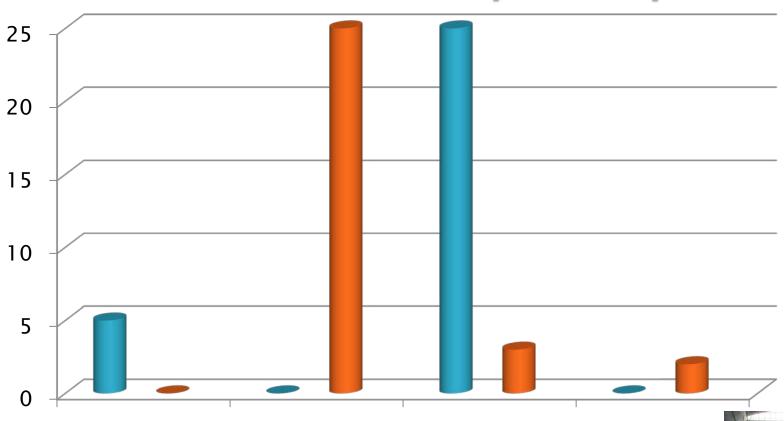
Data
Organizing
and
Analyses



#### Results Respondents Profile



## Results Main and Subsidiary Occupations



Fish catching with boats in open sea

Fish Marketing Fish Processing

Service sector employee

Results Gender Role on Food Safety

Activity	Men	Women
Harvesting	> Crew on local vessels while	❖ Port samplers
	fishing	❖ Observe proper icing of
	➤ Boat cleaning, sanitizing,	fish
	repairs and maintenance	❖ Immediate preparation of
	Fishing gear maintenance and	fish to processing and
	construction	proper application of
	Proper fish handling to shore	chilled brine to fish
<b>Processing</b>	Purchasing and icing fresh	❖ Hot-smoking of cleaned-
	frigate mackerel	chilled frigate mackerel
	➤ Hot-smoking of cleaned frigate	into tinap-anan
	mackerel	Marketing processed
11111111	Deliver processed <i>tinap-anan</i> to	tinap-anan by retail or
	restaurants	wholesale basis in
		restaurants situated on the
		2 <sup>nd</sup> floor of the fish port

## Gender role on *Tinap-anan* food safety



### Conclusion

The smoked frigate mackerel is within the acceptable safety level as prepared by women dominated processors.

#### Recommendation

Danao tinap-anan processors who are dominated by women needs to be trained by other frigate mackerel value added products to enhance their know how on processing other than smoking

### Acknowledgment

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#### References

Barut, Noel C. and Elaine G. Garvilles. 2009. Philippine Annual Fishery Report Update. Part 1: Information on Fisheries, Research, and Statistics for Western and Central Pacific Fisheries Commission (WCPFC)-SC5-AR/CCM-19 in <a href="http://www.google.com.ph/url?q=http://www.wcpfc.int/system/files/documents/meetings/scientific-committee/5th-regular-session/annual-report-part-i/SC5-AR-CCM19%2520%255BPhilippines">http://www.wcpfc.int/system/files/documents/meetings/scientific-committee/5th-regular-session/annual-report-part-i/SC5-AR-CCM19%2520%255BPhilippines</a>.

Salavo, Nerissa D. 2000, Marketing and post-harvest Research (MPR) in the Philippines Fisheries: A Review of Literature, Discussion Paper Series No. 2006-16 in <a href="http://www3.pids.gov.ph/ris/pdf/pidsdps0016.PDF">http://www3.pids.gov.ph/ris/pdf/pidsdps0016.PDF</a>

Villareal, Lolita V. and J. M. Turner. Food Agricultural Organization in <a href="http://www.fao.org/docrep/006/y5055e/y5055e0e.htm">http://www.fao.org/docrep/006/y5055e/y5055e0e.htm</a>

#### End

#### Thank You for Listening

