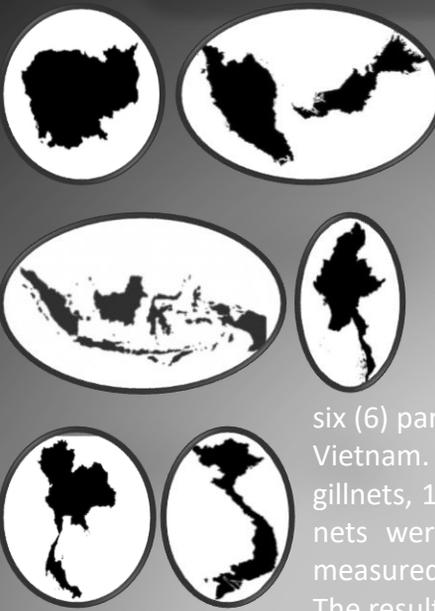


# Elasmobranch Data Collection in the Southeast Asian Region



Elasmobranch is one of the valuable resources of the Southeast Asian region. It contributes the livelihood of fishers, traders, and exporters. International trading of CITES listed some Elasmobranch species and has regulated by CITES Management Authority by trading permitting policy. Some CITES listed elasmobranch species are considered as common species and caught as by-catch regularly in the Southeast Asia countries. In order to mitigate the International trading issues as well as support the development of sustainable fisheries management, SEAFDEC has initiated regional project aiming at improving elasmobranch data collections at species level in the Southeast Asia correctly and systematically. There are six (6) participating countries, namely: Cambodia, Indonesia, Malaysia, Thailand and Vietnam. During 2015 to 2019, catch and fishing data from 1,913 trawl nets, 369 gillnets, 176 longlines, 35 purse seine, 35 handlines, 29 sets of bag nets and 3 stow nets were recorded. Totally, 56,655 tails of elasmobranchs were individually measured and weighted that including 27,007 sharks, 28,256 rays, and 1,392 skates. The results appear as following;

## Top two catch of sharks, rays and skates (by number), sex ratio and average catch size by weight (acsw)

*Chiloscyllium punctatum*



(source: [www.digitalfishlibrary.org](http://www.digitalfishlibrary.org))

Male:Female = 1:1  
Acsw = 1.12 kg

*Chiloscyllium hasseltii*



(<http://www.marinecompatibilityguide.com>)

Male:Female = 1:1  
acsw= 1.02 kg

*Telatrygon zugei*



(source: Tassapon Krajangdara)

Male:Female = 1:1.5  
acsw = 0.30 kg

*Brevitrygon heterura*



(source: Tassapon Krajangdara)

Male:Female = 1:0.8  
acsw = 0.27 kg

*Okamejei cairae*



(source: fishbase)

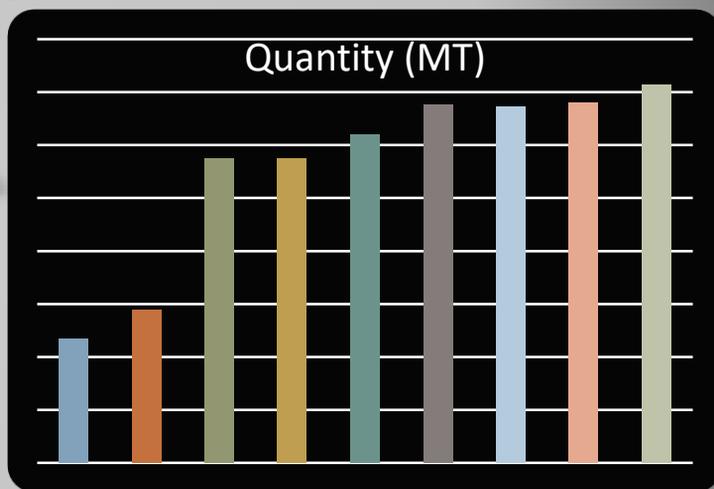
Male:Female = 1:1.2  
acsw = 0.18 kg

*Okamejei cf boesemani*



(source: Shark-references.com)

Male:Female = 1:1.5  
acsw = 0.11 kg



Elasmobranch catch from 2008 to 2016 with the last six-year catch annually increased about 4% in average (SEAFDEC Statistic Database)



**BANDED CATCH**

All sharks species and shark and ray species listed at CITES Appendix I and II have been banded by Brunei and Philippine fisheries, respectively

# Elasmobranch are typically caught utilizing two (2) types of fishing gear

## NOTE

\* The value showing in the table appears most often during data collection (mode)

\*\* Value showing in the table excluding Vietnam data because the size of boat in Vietnam recorded in length



Fishing gear

Trawl net

Gillnet

Size of gear \*

Mesh size 4 mm

Total length 2 km

Size of fishing boat\*\*

7.5-350 GRT

0.5-1.3 GRT

Day of operation \*

6 days/trip

12 days/trip

CPUE (kg/day)

1,034 kg/day

386 kg/day

Catch composition

Ray 0.50%

Ray 4.28%

Shark 0.26%

Shark 3.16%

Skate 0.10%

Skate 0.0001%

Bonyfish 99.14%

Bonyfish 92.56%

According catch composition results show that elasmobranchs caught in the Southeast Asian region are as by-catch with average elasmobranch catch per day per fishing boat of trawl net and gillnet are less than ten and thirty kilograms, respectively. Attempt to reduce catch, protect area of mating and nursing ground of elasmobranch and increase awareness of fishers are challenge in the region

