



# PHILIPPINE PROTECTED SHARKS & RAYS

IDENTIFICATION GUIDE TO SHARK FINS & OTHER DERIVATIVES  
FOR LAW ENFORCEMENT



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Cover photo:

Participants handling samples of dried shark fins during the ASEAN CITES Shark Fin ID Training in Metro Manila, March 2018.

# **PHILIPPINE PROTECTED SHARKS & RAYS**

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## ACKNOWLEDGEMENTS

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Editors:

Additional Input:

Design:



## INTRODUCTION

Sharks are amongst the oldest surviving marine vertebrates on the planet. Due to their life history and biological characteristics, they are particularly vulnerable to overexploitation and population declines. Sharks mature late, have few young, and are long-lived.

Sharks as defined under the Food and Agriculture Organization includes all Sharks, Batoids, and Chimaeras.

Despite the limited understanding of the various roles of sharks in ecosystems, it is clear that they are key players in structuring food webs, whether they are at the top of the food chain or at lower trophic levels. The removal of sharks from an ecosystem has the potential to create significant negative changes to predator-prey interactions. Aside from ecological benefits, sharks have also been proven to boost local economies through non-extractive tourism activities.

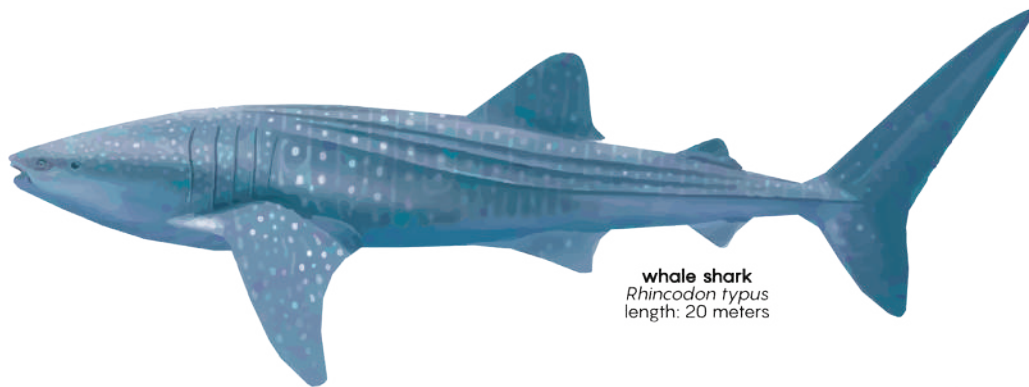
Several international treaties such as the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), Convention on the Conservation of Migratory Species (CMS), and regional fisheries management organizations (RFMOs) have been used to conserve targeted populations that have declined, many of which are still threatened due to illegal, unreported, unregulated fishing.

CITES is considered as one of the best tools to ensure that global trade does not threaten the survival of species. It operates through the listing of species on the respective Appendices. CITES regulates international trade in listed species through a system of permits and certificates in order to ensure that such trade is legal, sustainable, and traceable. As of 2019, CITES has enacted trade regulations for forty-six (46) of the commercially valuable and vulnerable shark and ray species.

The Philippines, a signatory to this convention, has a law that are anchored with the species listings in the CITES Appendices. As stipulated in the Philippine Fisheries Code, Republic Act (RA) 8550, as amended by RA 10654, species listed in the three CITES appendices are protected nationally unless a positive non-detriment finding (NDF) of trade/harvests to its population is provided.

As of August 2019, there are 25 species of sharks and rays present in the Philippines that are listed in the CITES Appendices. The occurrence of the species is based on *Pating Ka Ba? An Identification Guide to Sharks, Batoids, and Chimaeras of the Philippines* published in 2014 and updated based on current taxonomic nomenclature.

# PHILIPPINE PROTECTED SHARKS



**whale shark**  
*Rhincodon typus*  
length: 20 meters



**great white shark**  
*Carcharodon carcharias*  
length: 7.2 meters



**silky shark**  
*Carcharhinus falciformis*  
length: 3.5 meters



**oceanic whitetip shark**  
*Carcharhinus longimanus*  
length: 3.5 meters



**common thresher shark**  
*Alopias vulpinus*  
length: 3.9 meters



**big-eye thresher shark**  
*Alopias superciliosus*  
length: 4.8 meters



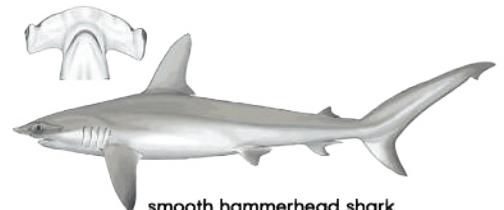
**pelagic thresher shark**  
*Alopias pelagicus*  
length: 3.9 meters



**scalloped hammerhead shark**  
*Sphyrna lewini*  
length: 4.2 meters



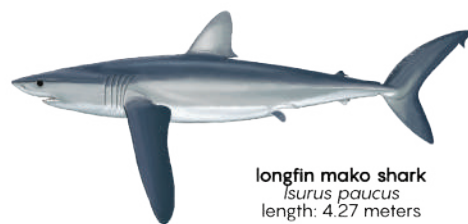
**great hammerhead shark**  
*Sphyrna mokarran*  
length: 5 meters



**smooth hammerhead shark**  
*Sphyrna zygaena*  
length: 5 meters



**shortfin mako shark**  
*Isurus oxyrinchus*  
length: 4.45 meters



**longfin mako shark**  
*Isurus paucus*  
length: 4.27 meters

Illustrations are not drawn to scale.

# PHILIPPINE PROTECTED RAYS



**reef manta ray**  
*Mobula alfredi*<sup>1</sup>  
disc width: 5.5 meters



**giant manta ray**  
*Mobula birostris*<sup>1</sup>  
disc width: 6.7 meters



**bentfin devil ray**  
*Mobula thurstoni*  
disc width: 2.2 meters



**giant devil ray**  
*Mobula mobular*<sup>2</sup>  
disc width: 3.1 meters



**Chilean devil ray**  
*Mobula tarapacana*  
disc width: 3.6 meters



**shortfin devil ray**  
*Mobula kuhlii*<sup>3</sup>  
disc width: 1.2 meters



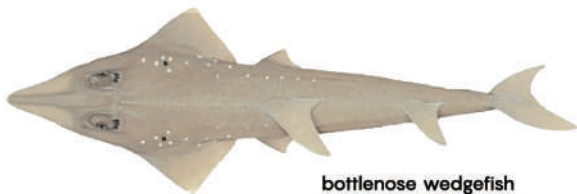
**green sawfish**  
*Pristis zijsron*  
length: 7.3 meters



**knifetooth sawfish**  
*Anoxypristis cuspidata*  
length: 4.7 meters



**largetooth sawfish**  
*Pristis pristis*  
length: 7 meters



**bottlenose wedgefish**  
*Rhynchobatus australiae*  
length: 3 meters



**broadnose wedgefish**  
*Rhynchobatus springeri*  
length: 2.13 meters



**bowmouth guitarfish**  
*Rhina ancylostoma*  
length: 2.7 meters



**giant shovelnose ray**  
*Glaucostegus typus*  
length: 2.7 meters

Illustrations are not drawn to scale.

<sup>1</sup> Synonymous with *Manta alfredi* and *Manta birostris*.

<sup>2</sup> *Mobula mobular* and *Mobula japonica* are conspecific, with *Mobula mobular* being the valid name.

<sup>3</sup> *Mobula kuhlii* and *Mobula eregoodootenkee* are conspecific, with *Mobula kuhlii* being the valid name.

# RATIONALE AND OBJECTIVES

The Philippine Protected Sharks and Rays: Identification Guide to Shark Fins and other derivatives (“ID guide”) is intended to help enforcement personnel identify the dried and wet fins, rostrum and gill rakers of traded CITES-listed shark species found in trade **based on their unprocessed morphological characteristics**. Once processed, these characteristics will be difficult to use and other identification methods, such as DNA testing, will be more appropriate.

The ID guide may be used by the Bureau of Fisheries and Aquatic Resources (BFAR) and the Bureau of Customs, members of the Philippine Coast Guard (PCG) and the Philippine National Police (PNP), deputized fish wardens or *Bantay Dagat* and other enforcement agencies.

This ID guide may also be used by citizen scientists, people’s organizations (POs), and non-governmental organizations (NGOs) in identifying commonly traded shark fins and other derivatives in their locality.

**The preliminary visual identification of shark fins and other derivatives will establish probable cause to detain shipments and other enforcement settings** so that expert opinion can be sought or genetic testing can confirm the visual identification.

The aim of this ID guide is to **aid the Philippine Government in supporting the implementation and enforcement of the CITES shark listings**, as well as the amended Philippine Fisheries Code, in promoting legal and sustainable trade.



# SHARKS IN THE PHILIPPINES

## *Shark Utilization, Trade, and Catch Information*

Shark products and by-products are historically of low economic value, but have increasingly become valuable fisheries resources.

Shark meat in domestic production is directly utilized in the local market as part of the local cuisine, or as minced fish products (i.e., fishballs) which are more difficult to trace. Anecdotal evidence suggests that there is generally no preference for species or size, and thus all may be utilized.

The shark fin trade is a major driver of shark overexploitation in the global trade. Shark fins are one of the most expensive seafood commodities in the market, estimated to be worth USD400-550 million annually. Nearly all species of sharks and rays are considered commercially valuable for their fins, but their value varies according to color, size, thickness and fin needle content (ceratotrichia).

Preferred species are the hammerheads, mako and blue sharks, followed by requiem sharks, great white, threshers, tiger and tope sharks. Wedgefishes and giant guitarfishes are considered as some of the most superior in quality, containing more fin needles than other species, fetching about USD 964/kg of dried fins.

The Philippine National Statistics Office listed at least eight countries importing dried, unsalted shark fins from the Philippines in 1990-1994, namely Australia, Brunei, PR China, Japan, Korea, Singapore, Taiwan, and Hong Kong SAR. Hong Kong SAR was the top importer then, receiving about 90% (86.7 mt) of the total traded shark fins from the Philippines.

From 2006-2015, Hong Kong SAR imported a total of about 500 mt originating from the Philippines.

## *Shark Utilization and Responsible Management*

Sustainable utilization of shark resources require responsible management, trade, and consumption. Each of these elements require adequate governance, transparency, and monitoring to provide confidence that traded shark products are from sustainable sources.

There is a need for a concerted effort to ensure that shark utilization in the country is sustainable.

## **RELEVANT POLICIES**

In the Philippines, the laws to conserve sharks are limited and varied. The first shark-related policy was enacted in 1998 to protect whale sharks and manta rays through a Fisheries Administrative Order. Nationally, only CITES-listed species are protected through the Philippine Fisheries Code. Only Cebu (the province and chartered cities within the island) has afforded full protection of all shark species. The province of Palawan affords full protection to shark species listed in the IUCN Red List that are classified under Critically Endangered, Endangered, and Vulnerable. Some Local Government Units have municipal ordinances protecting specific shark species of interest in the locality, such as Batangas, Panglao and Daanbantayan.

## **RELEVANT AGENCIES**

### **CITES Management Authority**

The CITES Management Authority (MA) has two of the most basic roles: granting permits and certificates under the terms of the Convention communicating with the CITES Secretariat and other Parties

The CITES MA also prepares and circulates official information on CITES, especially newly listed species on the Appendices and the dates wherein these regulations will enter into force.

Apart from those mentioned, the other tasks of the CITES MA include providing education and information materials and training to aid enforcement, as the CITES MA is also the lead enforcement agency

### **Philippine CITES Management Authority for Aquatic/Marine Species**

#### **Bureau of Fisheries and Aquatic Resources**

Fisheries Inspection and Quarantine Division

Officer-in-Charge, Edwyn Alesna

Tel: +63 (2) 455 28 87 Fax: +63 (2) 426 65 32

Email: edwyn\_alesna@yahoo.com; fqwrs\_bfar@gmail.com

*For Aquatic/Marine Species found in the Province of Palawan*

Palawan Council for Sustainable Development

Executive Director, Nelson Devanadera

Telefax: +63 (48) 434 42 34

Trunkline: +63 (48) 434 42 35;

+63 (2) 376 27 75 (Manila Liaison Office)

Email: oed@pcsd.gov.ph; nelson\_devanadera@yahoo.com

## CITES and Traceability

Traceability systems for trade are used to ensure the quality of fish and associated products, and as a tool to demonstrate their legality and origin from a sustainably managed fishery.

These systems provide a mechanism to store and exchange information throughout the supply chain, enabling the product to be traced no matter what process or transformation (processing) the product may undergo. This provides a mechanism to verify the integrity of chains of custody.

Traceability is fundamental to the effective operation and implementation of CITES, to support the system of permits and certificates required for listed species.

Parties to the convention are required to maintain records of international trade in listed species, and provide the CITES Secretariat with annual trade reports. An exporting State issues permits only after determining that the trade is not detrimental to the survival of the species in the wild (sustainable) through a Non-detriment Finding (NDF) and declaring that the specimens were lawfully acquired.

The declarations of legality made by National CITES Management authorities generally require information about the specimen's origin and any processing stages the specimen has undergone.

## Fisheries Law Enforcement: Standard Operating Procedures

1. Information collection / Planning
2. Operational Planning
3. Operation
  - a. Land-based
  - b. Sea-based
4. Detection and Apprehension
5. Investigation, Elements of Violations and Handling of Evidence
  - a. Secure the crime scene
  - b. Evidence tagging and labeling
  - c. Collection and packaging
  - d. Seizure and custody of evidence
  - e. Documentation and reporting
6. Administrative and criminal procedures

## Philippine Aquatic Red List Committee (PARLC) Subcommittee on Cartilaginous Fishes

The Philippine Aquatic Red List Committee (PARLC) for aquatic wildlife was created by the BFAR to develop the criteria for the determination of threatened aquatic wildlife in the Philippines and their classification as Critically Endangered, Endangered, Vulnerable or other internationally accepted categories. The PARLC is also in charge of developing the criteria for the determination and identification of critical habitats.

### For species identification

*Chair*, Francisco Torres Jr (francisco\_torresjr@yahoo.com)

*Co-Chair*, Moonyeen Alava (mnralava@gmail.com)

#### *Committee Members:*

Jean Asuncion Utzurum (jeanutz@gmail.com)

Joe Pres Gaudiano (adon.gaudiano@gmail.com)

Jo Marie Acebes (jomacebes@yahoo.com)

Arnel Yaptinchay (director@mwwphilippines.org)

Retch Pagliawan (retch\_418@yahoo.com)

Maita Verdote (maitaverdote@gmail.com)

Elson Aca (elsonaca@yahoo.com)

Emily Capuli (e.capuli@fin.ph)

Ma. Theresa Aquino (dugongdoc@gmail.com)

## National Fisheries Research and Development Institute

The National Fisheries Research and Development Institute was created to to recognize the important role of fisheries research in the development, management, conservation and protection of the country's fisheries and aquatic resources.

### For species identification

National Fisheries Research and Development Institute

<http://nfrdi.da.gov.ph/>

Tel: (+632) 376-5133

Fax: (+632) 372-5063

NFRDI Genetic Fingerprinting Laboratory (GFL)

<http://nfrdigfl.weebly.com>

Tel: (+632) 376-1178

Email: [nfrdi.gfl@gmail.com](mailto:nfrdi.gfl@gmail.com)

## Non Government Organizations (NGOs)

The Save Sharks Network Philippines (SSNP) is a coalition of organizations and institutions in the Philippines' scientific, NGO, and tourism communities working on shark and ray research and conservation.

It was co-founded in 2014 by Save Philippine Seas (SPS), Marine Wildlife Watch of the Philippines (MWWP), and Greenpeace Philippines. SSNP organizes a series of activities and creates campaigns to raise the public's awareness on sharks, and identify issues and ways forward for the conservation, management, and utilization of sharks.

Among its projects were the 1st Shark Summit in 2014 in Cebu, 2nd Shark Summit in Dumaguete in 2016, 3rd Shark Summit in Bohol in 2018 and national campaigns to support the protection of sharks and rays in the Convention on International Trade in Endangered Species of Flora and Fauna (CITES) and the Convention on the Conservation of Migratory Species (CMS).

The SSNP also launched several publications relating to the conservation of shark resources in the Philippines, including the *"Pating, Saan Ka Pararating?" 2020 Conservation Roadmap for Sharks and Rays in the Philippines*; and the *Shark Conservation Legislation: A Toolkit for Policymakers*.

### For trainings and other resources

Save Sharks Network Philippines  
Co-founder, Marine Wildlife Watch of the Philippines  
Executive Director, Arnel Yaptinchay  
Tel. No.: +63(2) 889-0733  
Email: [info@mwwphilippines.org](mailto:info@mwwphilippines.org)  
[savesharksnetworkph@gmail.com](mailto:savesharksnetworkph@gmail.com)

# PRACTICAL PROTOCOL TO IDENTIFICATION

For the identification of Philippine protected species of sharks and rays, be aware of any chain of custody procedure that needs to be adhered to for the evidence to be admissible in a court of law.

## **Guidelines for the identification of one shark fin**

Scenario: The investigator only has one single fin and would like to know if the shark species it belongs to is protected in the Philippines. No associated data are available.

Steps:

1. Identify the type of fin (dorsal, pectoral or others?)
  - Go to page 17 of this ID guide
2. Have a preliminary look at the pictures and descriptions of the characteristics of the different protected species in the Philippines based on this manual.
  - Based on physical characteristics of the fins, make a hypothesis on the species identification.

If some doubts remain and/or further verification of the identification of species is required:

3. Contact the PARLC-BFAR, NFRDI, or MWWP for species validation with photos.
4. Collect genetic sample from the shark fin.

## **Guidelines for the identification of multiple fins**

Scenario: *The investigator is presented with multiple fins.*

Steps

1. Record as much associated data as possible.  
NSAP Shark and Ray Form 7 (Next page)
2. Identify the type of fins, then manually separate into piles of fin types (i.e., dorsal, left and right pectorals)
3. Within each pile (e.g. dorsal), further sort into groups of visually similar fins.
  - See if the number of visually similar dorsal fins, matches the number of visually similar pectoral fins, and so on.
  - If yes, this will indicate if the fins can be matched to a whole animal and will help in the identification process.
4. Using this manual, visually identify the fins based on the physical characteristics.

If some doubts remain and/or further verification of the identification of species is required:

5. Contact the PARLC-BFAR, NFRDI, or MWWP for species validation.
6. Collect genetic sample from each of the visually similar fin groups.

# National Stock Assessment Program

NSAP FORM 7  
SHEET NO. \_\_\_\_\_

REGION \_\_\_\_\_

## SHARK AND RAY DATA SHEET

ENUMERATOR/S:			
LANDING CENTER:		DATE:	
BOAT NAME:			
FISHING GEAR:		FISHING DEPTH (m):	
FISHING TIME	DEPARTURE	ARRIVAL	LOCATION CODE:
SAMPLE CODE	TOT (CM)	PHOTO DOCUMENTATION	SAMPLE COLLECTED (ONLY FOR WEDGEFISH)
E N U - M M D D Y Y Y Y R - - - X X		1 <input type="checkbox"/> WHOLE BODY (DORSAL SIDE) 2 <input type="checkbox"/> HEAD (CLOSE-UP) 3 <input type="checkbox"/> CENTER OF DISC 4 <input type="checkbox"/> WHOLE BODY (SIDE VIEW) 5 <input type="checkbox"/> HEAD SIDE (CLOSE-UP)	1 <input type="checkbox"/> WHOLE FISH 2 <input type="checkbox"/> WHOLE FISH W/O FINS 3 <input type="checkbox"/> MUSCLE 4 <input type="checkbox"/> PECTORAL FIN CLIP 5 <input type="checkbox"/> OTHER/S
SEX			
<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> U			
REMARKS:		IF SPECIMEN IS PREGNANT Total no. of Pups      No. of Pups collected	
		NOTE: Please note down TOT and weight of each pup under remarks or at the back of the sheet with the corresponding mother's sample code.	
SAMPLE CODE	TOT (CM)	PHOTO DOCUMENTATION	SAMPLE COLLECTED (ONLY FOR WEDGEFISH)
E N U - M M D D Y Y Y Y R - - - X X		1 <input type="checkbox"/> WHOLE BODY (DORSAL SIDE) 2 <input type="checkbox"/> HEAD (CLOSE-UP) 3 <input type="checkbox"/> CENTER OF DISC 4 <input type="checkbox"/> WHOLE BODY (SIDE VIEW) 5 <input type="checkbox"/> HEAD SIDE (CLOSE-UP)	1 <input type="checkbox"/> WHOLE FISH 2 <input type="checkbox"/> WHOLE FISH W/O FINS 3 <input type="checkbox"/> MUSCLE 4 <input type="checkbox"/> PECTORAL FIN CLIP 5 <input type="checkbox"/> OTHER/S
SEX			
<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> U			
REMARKS:		IF SPECIMEN IS PREGNANT Total no. of Pups      No. of Pups collected	
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SEX			
<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> U			
REMARKS:		IF SPECIMEN IS PREGNANT Total no. of Pups      No. of Pups collected	
		NOTE: Please note down TOT and weight of each pup under remarks or at the back of the sheet with the corresponding mother's sample code.	
SAMPLE CODE	TOT (CM)	PHOTO DOCUMENTATION	SAMPLE COLLECTED (ONLY FOR WEDGEFISH)
E N U - M M D D Y Y Y Y R - - - X X		1 <input type="checkbox"/> WHOLE BODY (DORSAL SIDE) 2 <input type="checkbox"/> HEAD (CLOSE-UP) 3 <input type="checkbox"/> CENTER OF DISC 4 <input type="checkbox"/> WHOLE BODY (SIDE VIEW) 5 <input type="checkbox"/> HEAD SIDE (CLOSE-UP)	1 <input type="checkbox"/> WHOLE FISH 2 <input type="checkbox"/> WHOLE FISH W/O FINS 3 <input type="checkbox"/> MUSCLE 4 <input type="checkbox"/> PECTORAL FIN CLIP 5 <input type="checkbox"/> OTHER/S
SEX			
<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> U			
REMARKS:		IF SPECIMEN IS PREGNANT Total no. of Pups      No. of Pups collected	
		NOTE: Please note down TOT and weight of each pup under remarks or at the back of the sheet with the corresponding mother's sample code.	

**LEGEND:**

ENU - Enumerator MM - Month DD- Day YYYY-Year R- Region XX- Specimen No. TOT- Total length

**IDENTIFICATION GUIDE TO SHARK FINS  
& OTHER DERIVATIVES**

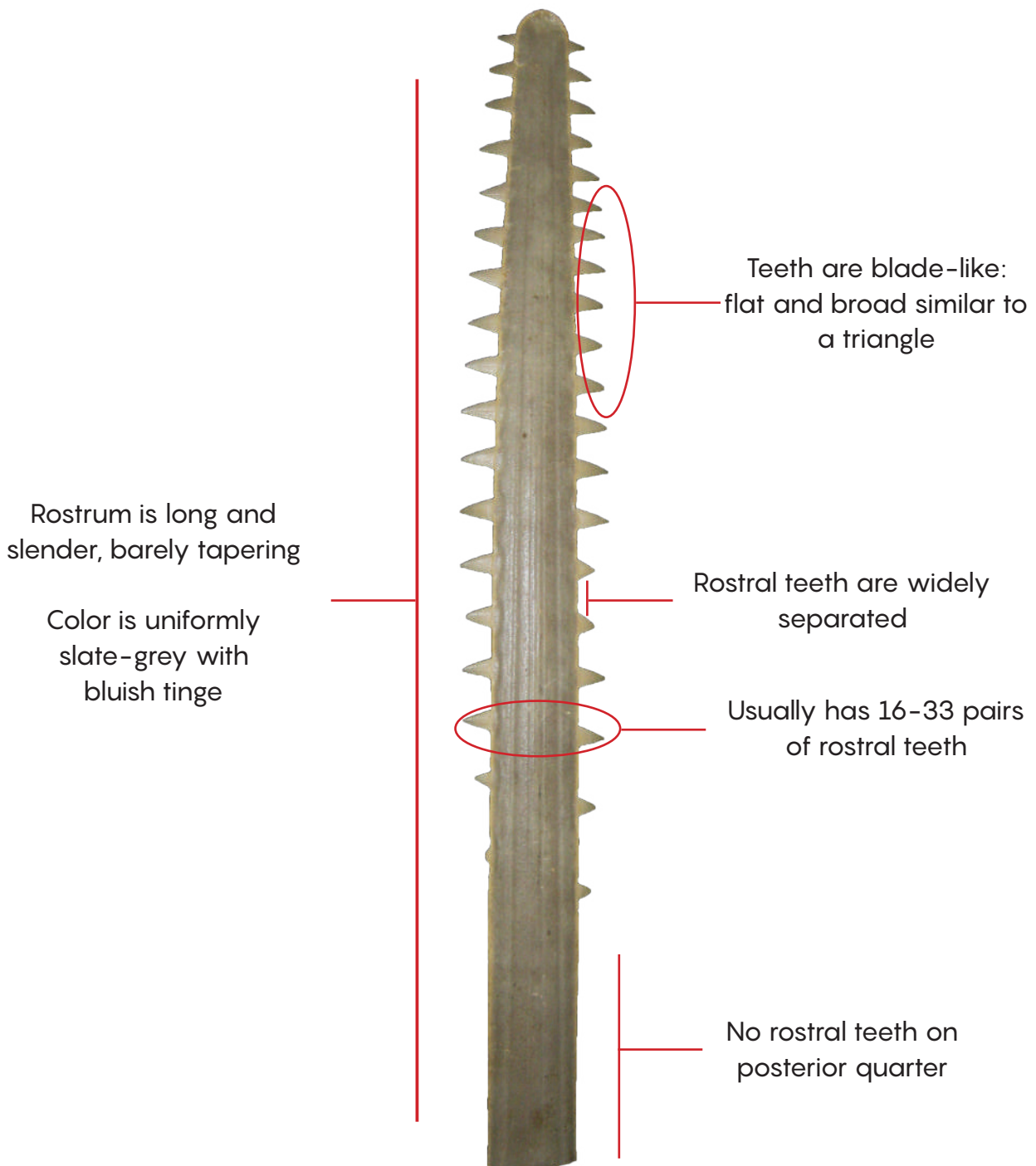
# SAWFISHES

Family *Pristidae*

## Knifetooth sawfish *Anoxypristis cuspidata*

CITES	CMS	IUCN Red List Status
Appendix I (2007)	Appendices I and II (2014)	

ENDANGERED



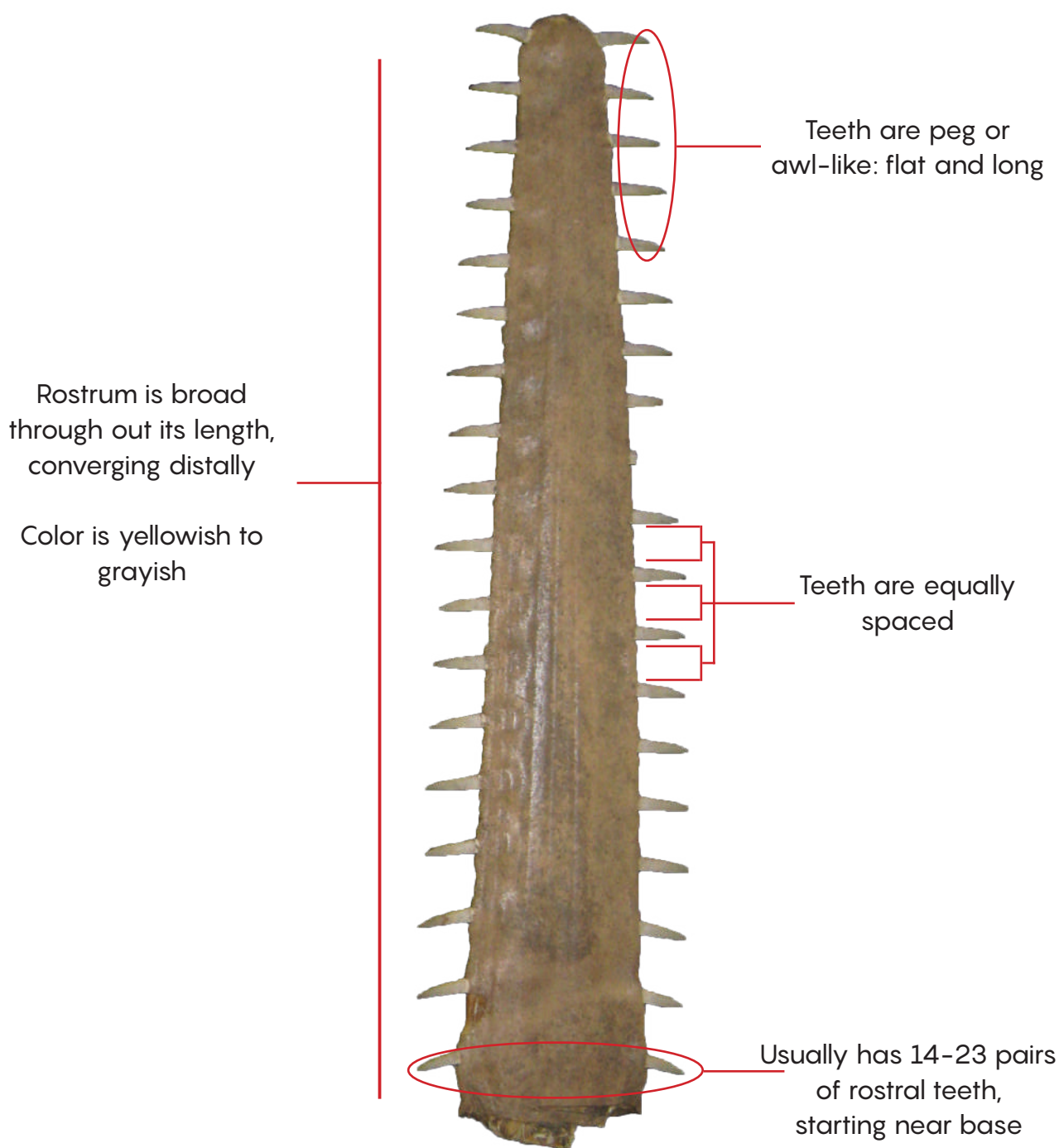
# SAWFISHES

Family *Pristidae*

## Large-tooth sawfish *Pristis pristis*

CITES	CMS	IUCN Red List Status
Appendix I (2007)	Appendices I and II (2014)	

**CRITICALLY  
ENDANGERED**



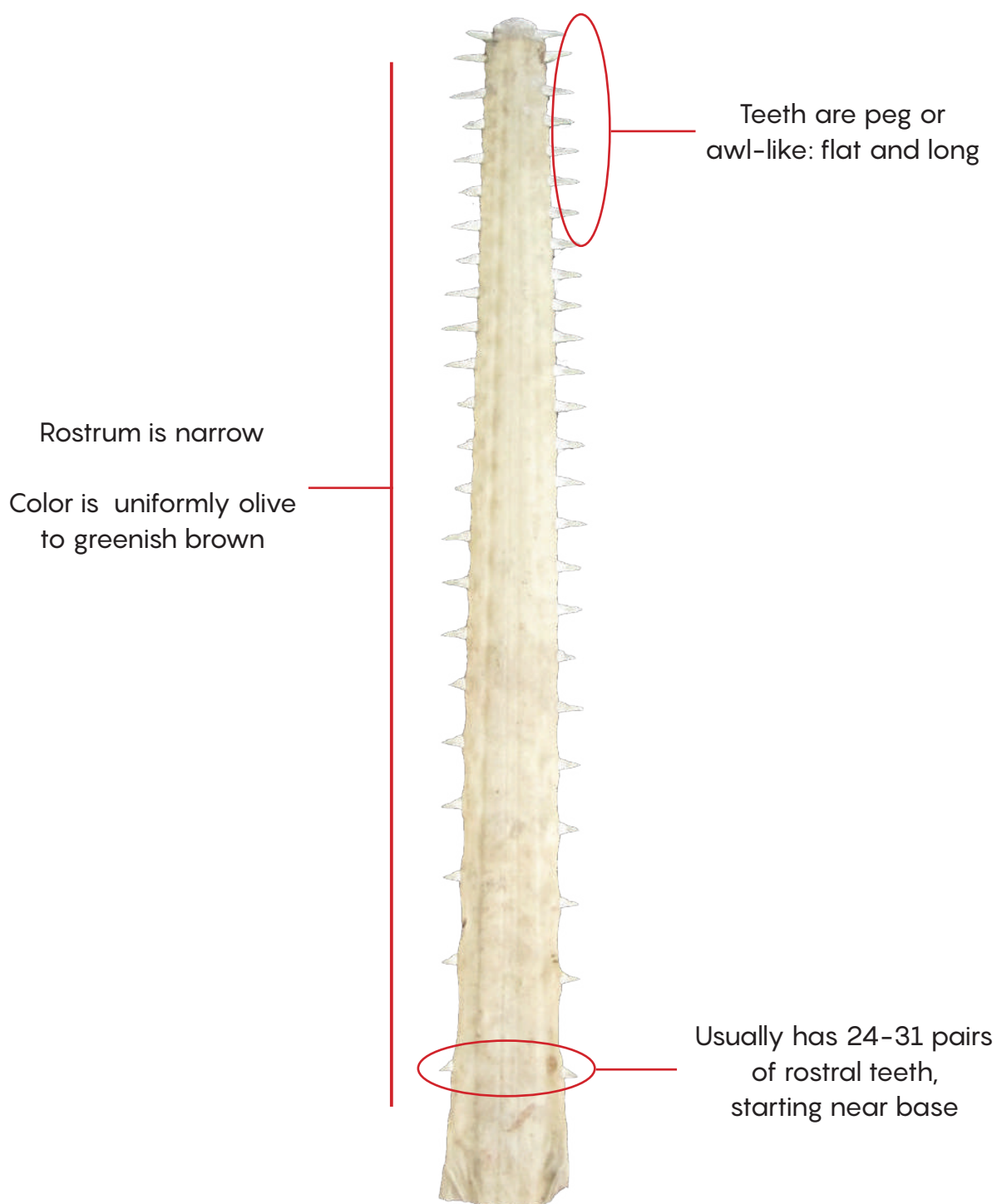
# SAWFISHES

Family *Pristidae*

## Green sawfish *Pristis zijsron*

CITES	CMS	IUCN Red List Status
Appendix I (2007)	Appendices I and II (2014)	

CRITICALLY  
ENDANGERED



# MANTAS AND DEVIL RAYS

## Genus *Mobula*

### Distribution:

- Mobulid rays are found worldwide in tropical and temperate waters and caught in targeted fisheries as well as incidental catch in a variety of gear types.

### Trade:

- Mobulids were traditionally utilised for their meat, but the largest species are now targeted specifically for their gill plates which are marketed as a medicinal product in Asian communities.

The two *Manta* species (reclassified as *Mobula* in 2017) and the other species of *Mobula* rays are difficult to identify and distinguish without an identification guide.

### Reef manta ray

#### *Mobula alfredi*

CITES	CMS	IUCN Red List Status
Appendix II (2014)	Appendix I (2014)	<b>VULNERABLE</b>

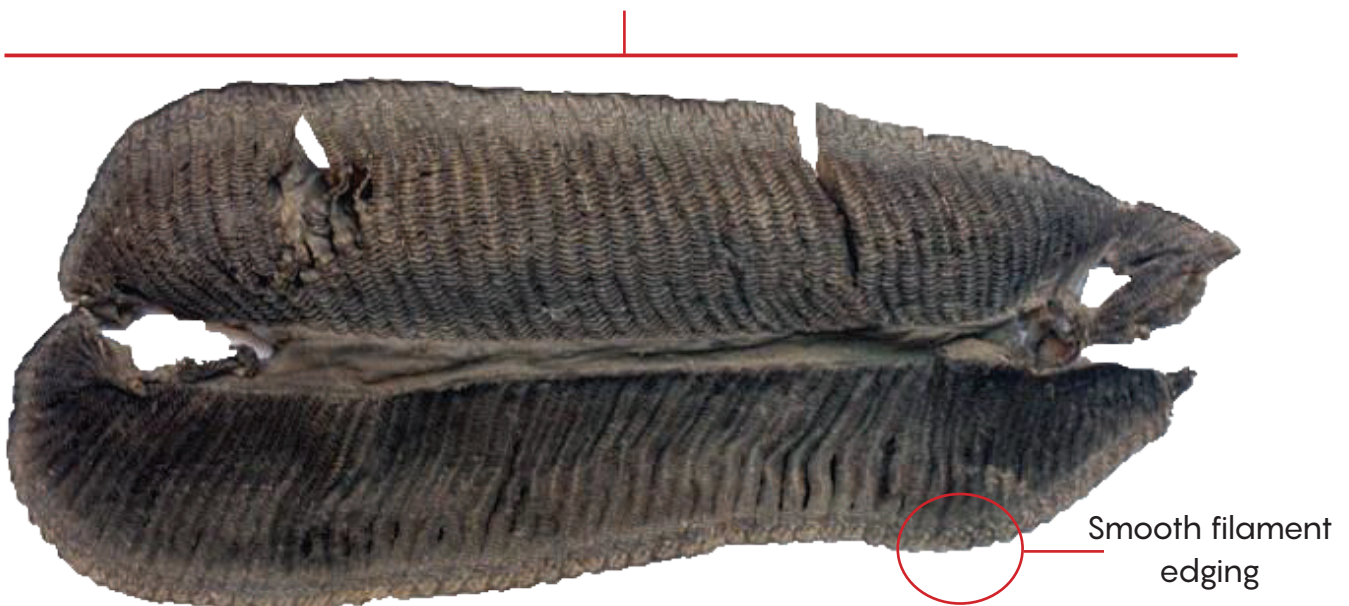
### Giant manta ray

#### *Mobula alfredi*

CITES	CMS	IUCN Red List Status
Appendix II (2014)	Appendix I (2014)	<b>VULNERABLE</b>

### Gill Plate Identification

Large size, longer than 30 cm



Color is uniformly brown or black

# MANTAS AND DEVIL RAYS

## Genus *Mobula*

### Giant devil ray

*Mobula mobular*, includes *M. japanica*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix I (2014)	

ENDANGERED

### Shortfin devil ray

*Mobula kuhlii*, includes *M. eregoodootenkee*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix I (2014)	

DATA DEFICIENT

### Chilean devil ray

*Mobula tarapacana*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix I (2014)	

VULNERABLE

### Bentfin devil ray

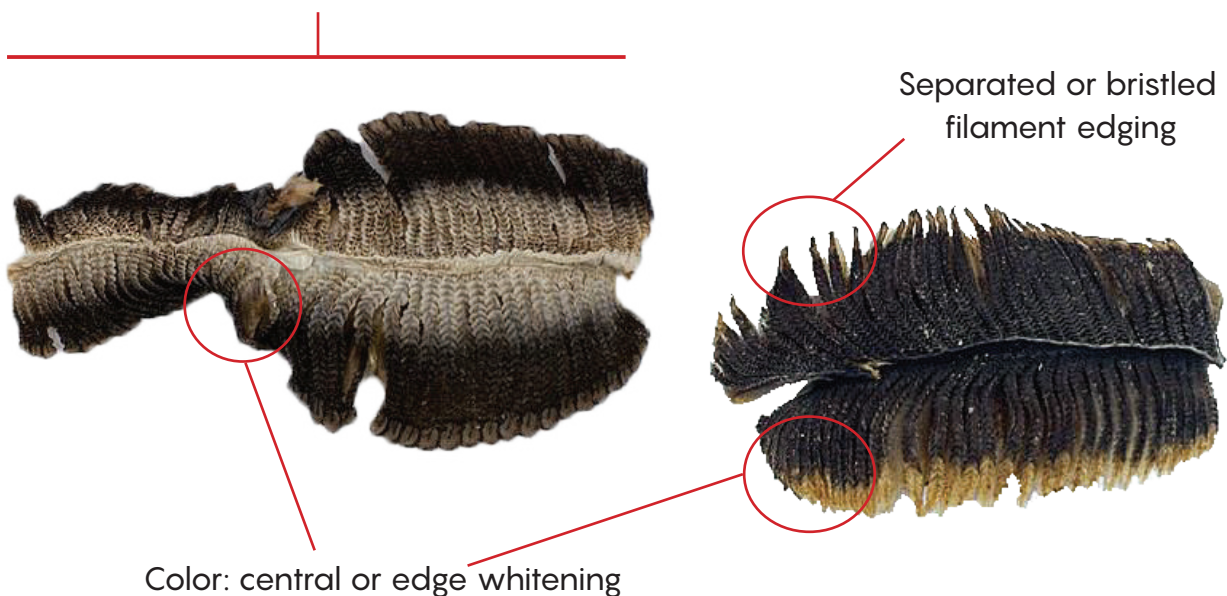
*Mobula thurstoni*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix I (2014)	

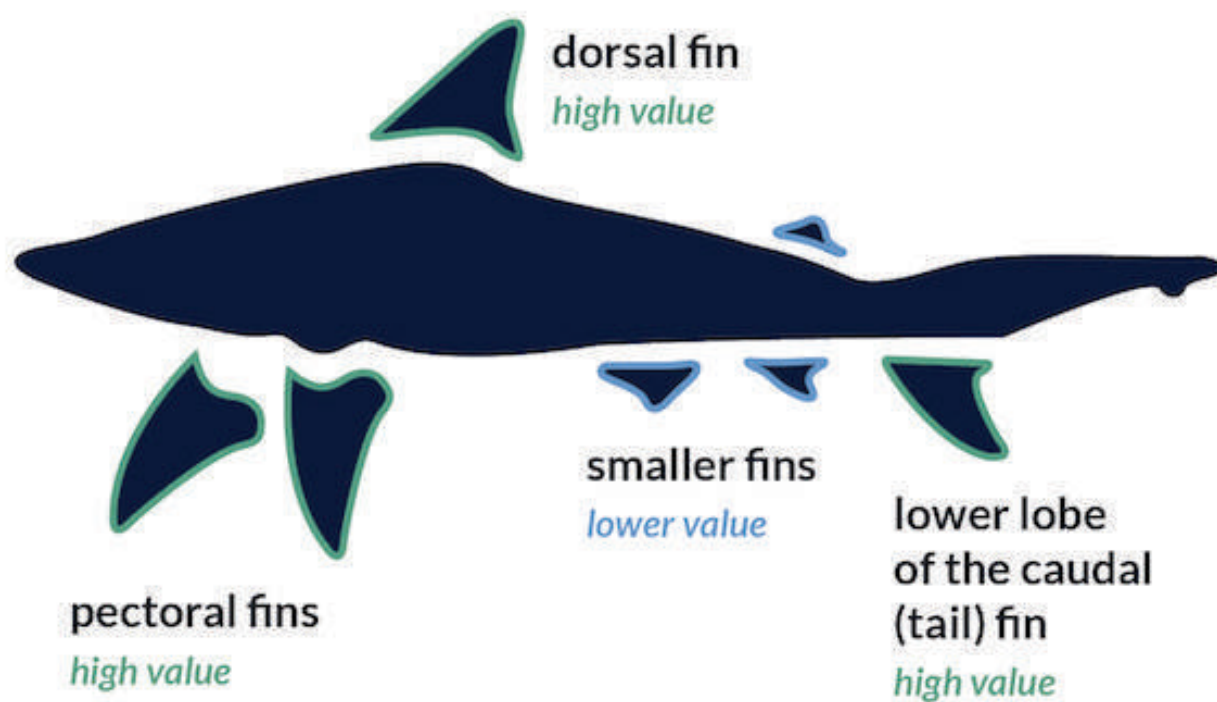
NEAR THREATENED

### Gill Plate Identification

Small, not more than 30 cm




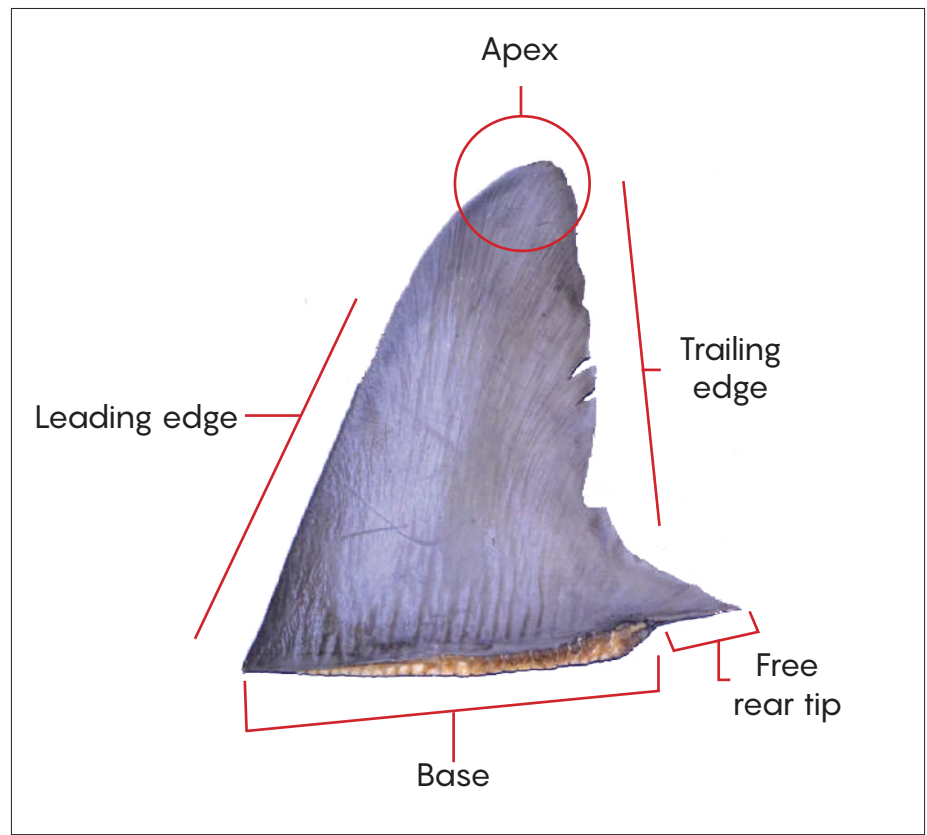
# PARTS OF A SHARK



# PARTS OF A SHARK FIN

## Dorsal Fin


Color

Same color for both sides

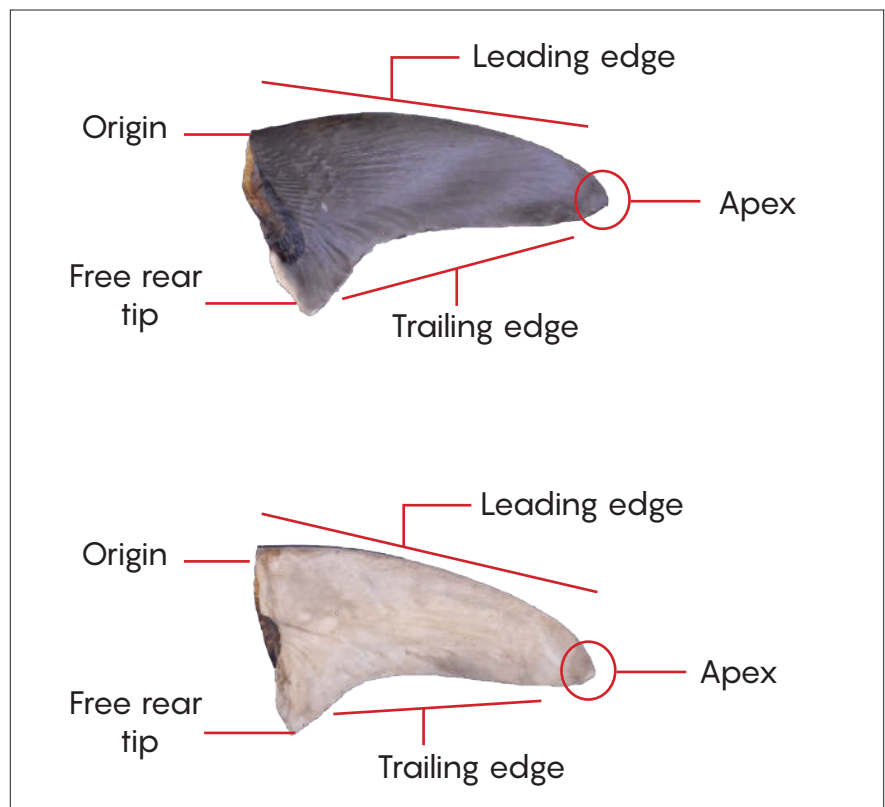


## Pectoral Fins

Dorsal Side (Top view)

Darker color

Ventral Side (Bottom view)

Lighter color



# THRESHER SHARKS

## Genus *Alopias*

### Distribution:

- *A. superciliosus* and *A. vulpinus* have a circumglobal distribution
- *A. pelagicus* is only found in the Indo-Pacific

### Trade:

- All three species are traded primarily for their highly valuable fins, and fetch high prices in market destinations such as Indonesia, Singapore and Japan.

### Philippines:

- There were records of long-line fisheries in Donsol Sorsogon specifically targeting thresher sharks.
- There are records of thresher shark meat in Cebu being used in fishballs.

## Pelagic thresher shark

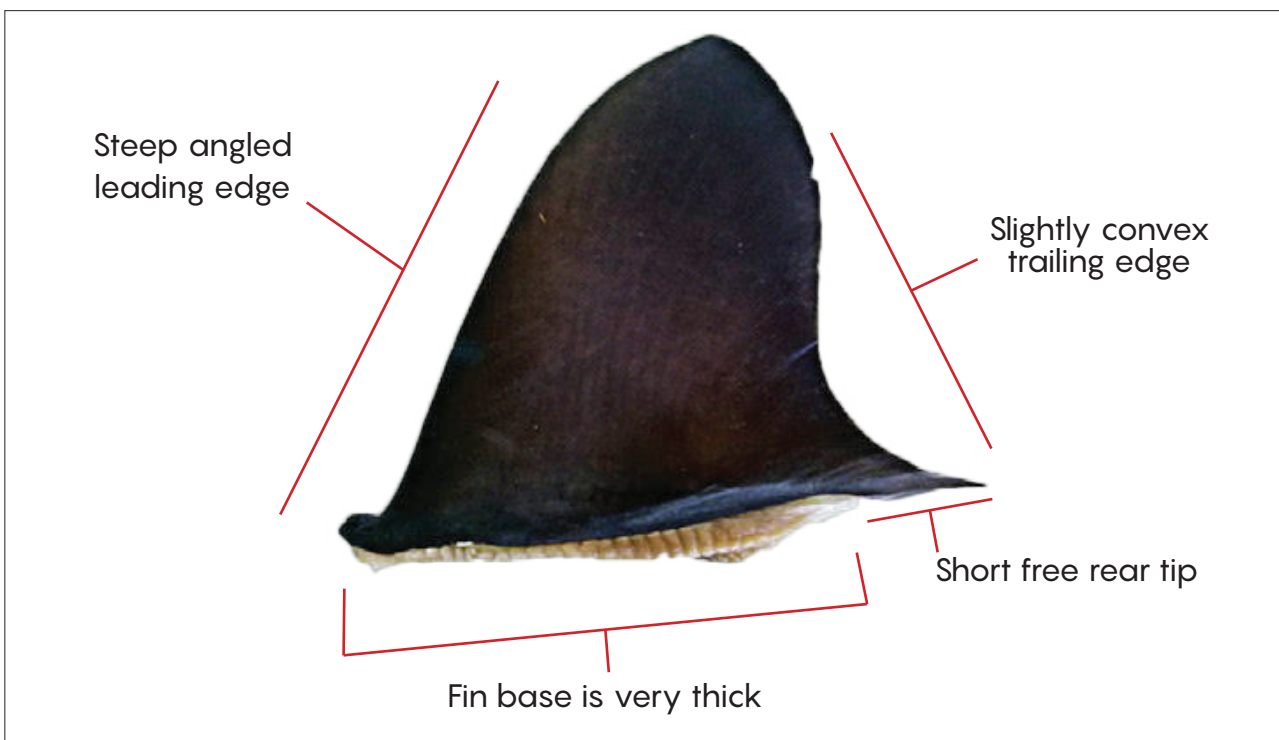
### *Alopias pelagicus*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix II (2015)	

VULNERABLE

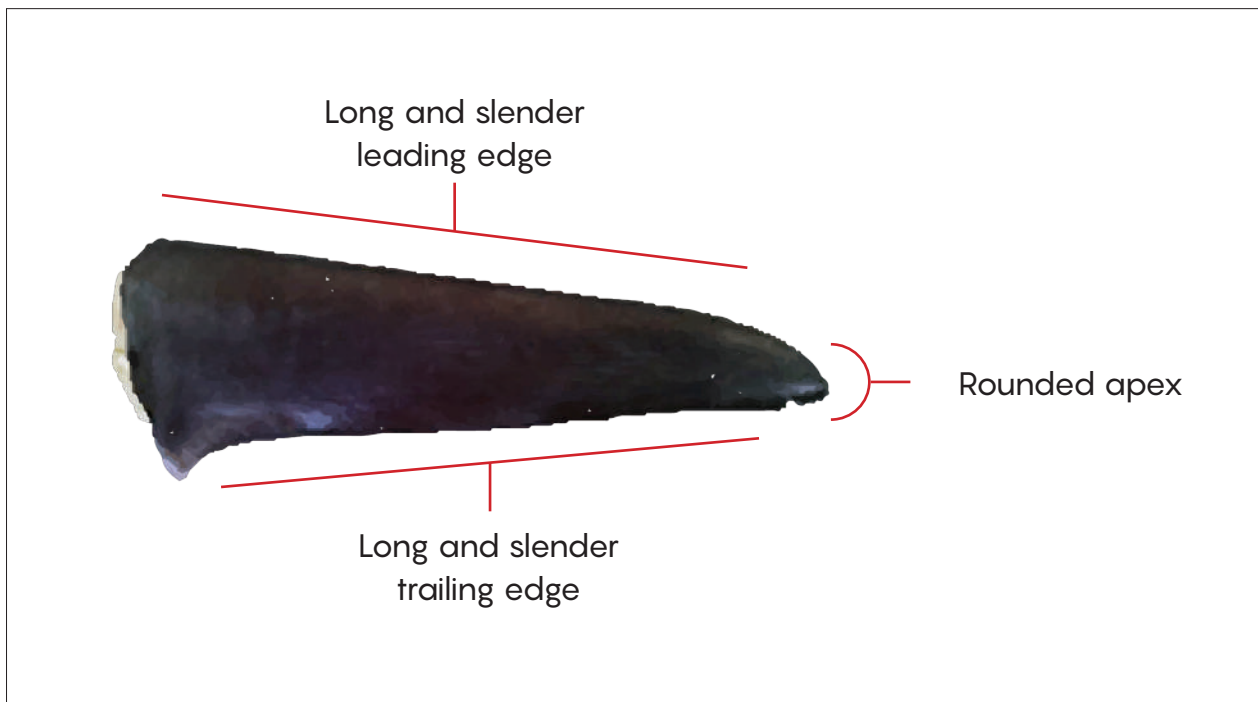
### 1st Dorsal Fin

Shape	Color
Broad & upright	 <p>Dark grey to dark grey-brown</p>

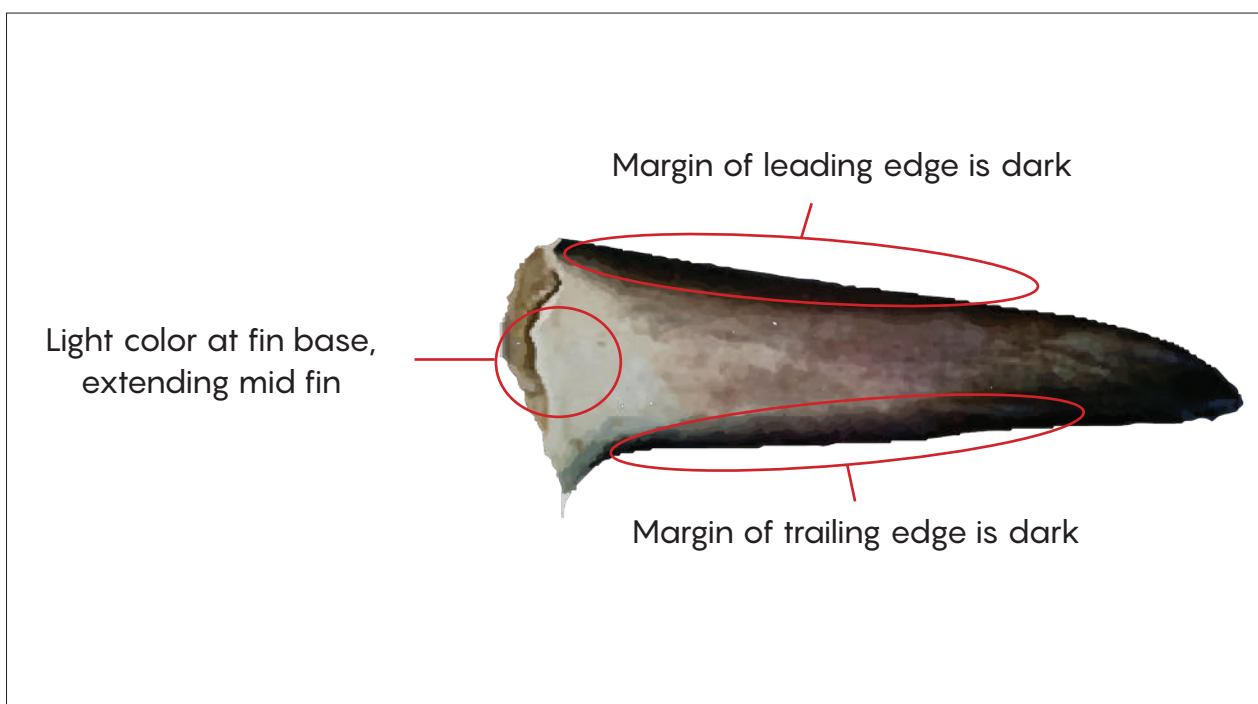


**Pelagic thresher shark**  
*Alopias pelagicus*

**Pectoral Fin**  
**Dorsal (Top) View**



**Pectoral Fin**  
**Ventral (Bottom) View**



# THRESHER SHARKS


Genus *Alopias*

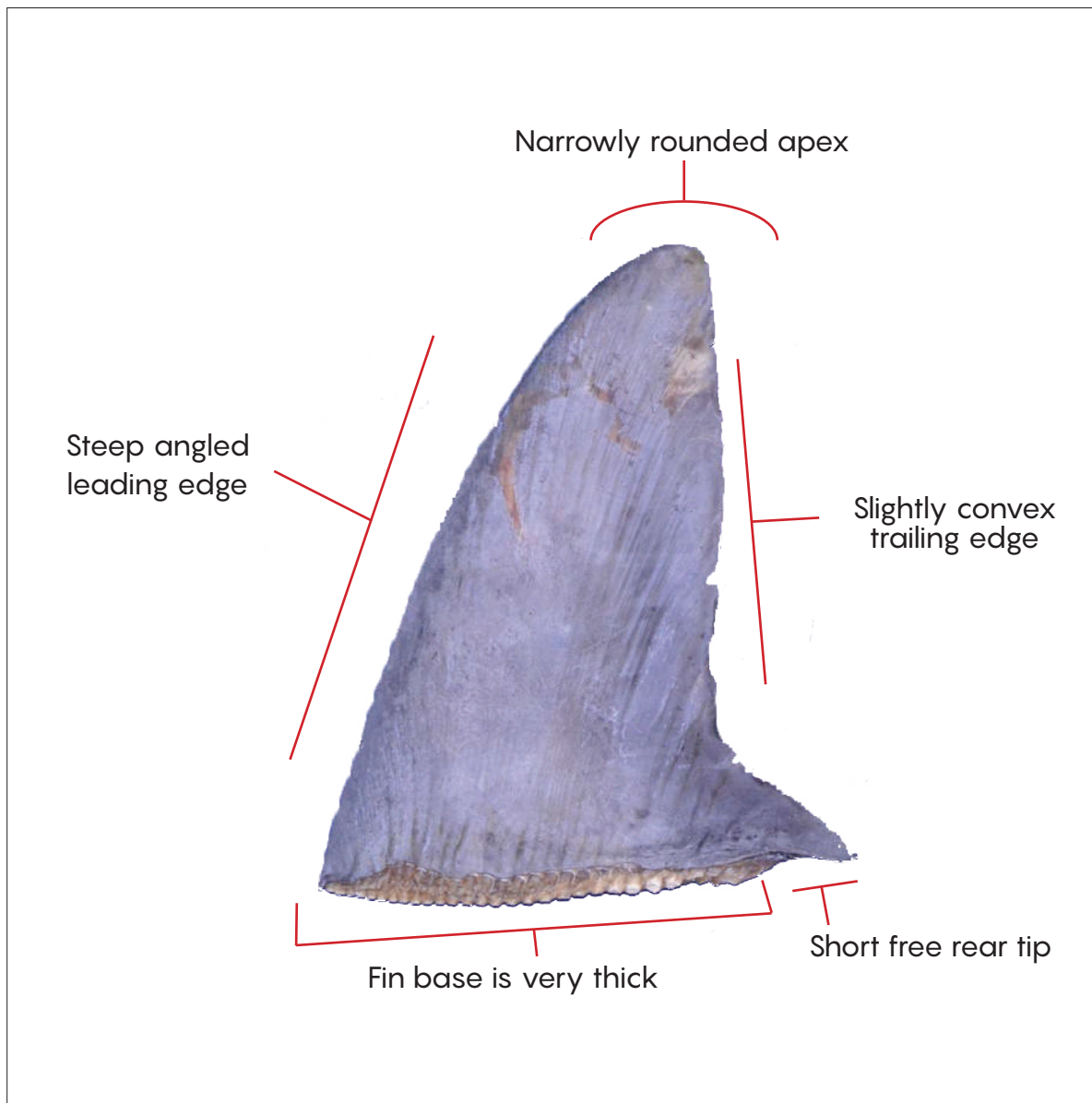
## Common thresher shark

*Alopias vulpinus*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix II (2015)	<b>VULNERABLE</b>

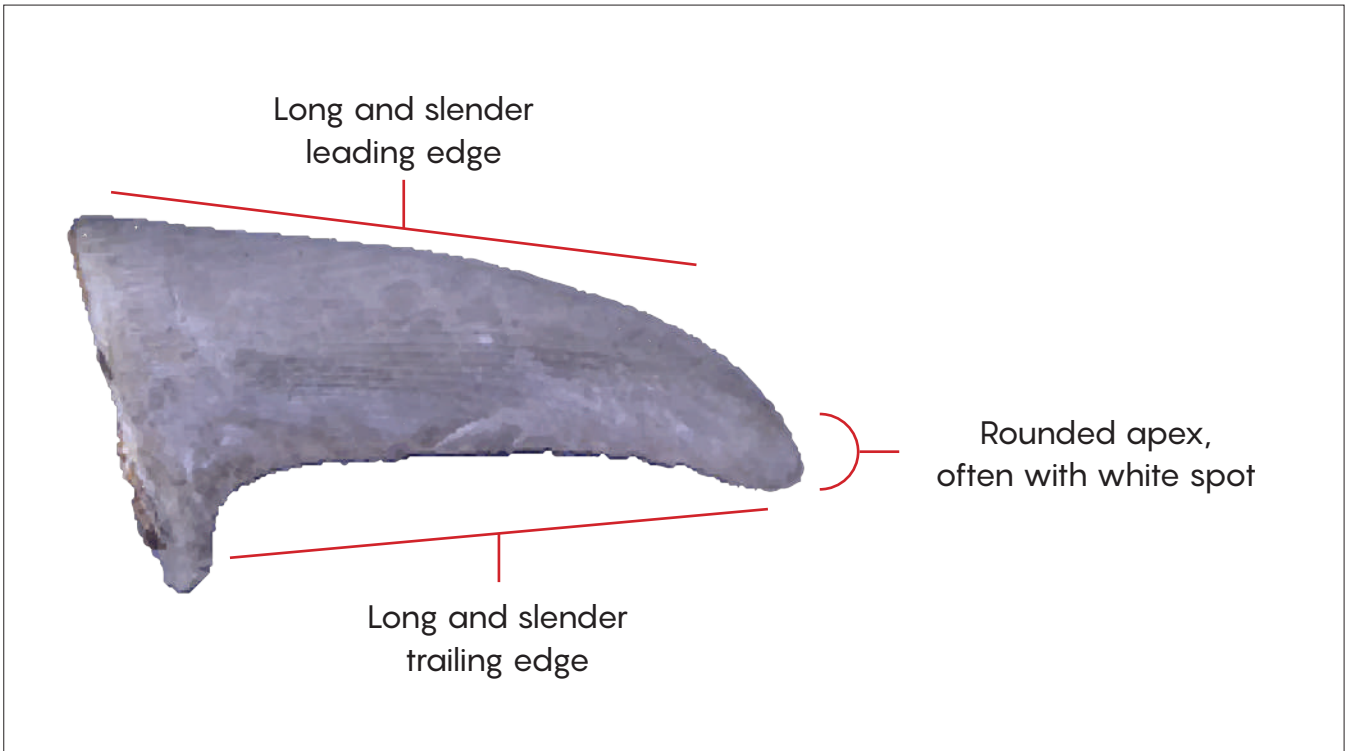
### 1st Dorsal Fin

Shape	Color
Tall & erect	 <p>Dark grey to dark grey-brown</p>



**Common thresher shark**  
*Alopias vulpinus*

**Pectoral Fin  
Dorsal (Top) View**



**Pectoral Fin  
Ventral (Bottom) View**



# THRESHER SHARKS

Genus *Alopias*

## Big-eye thresher shark

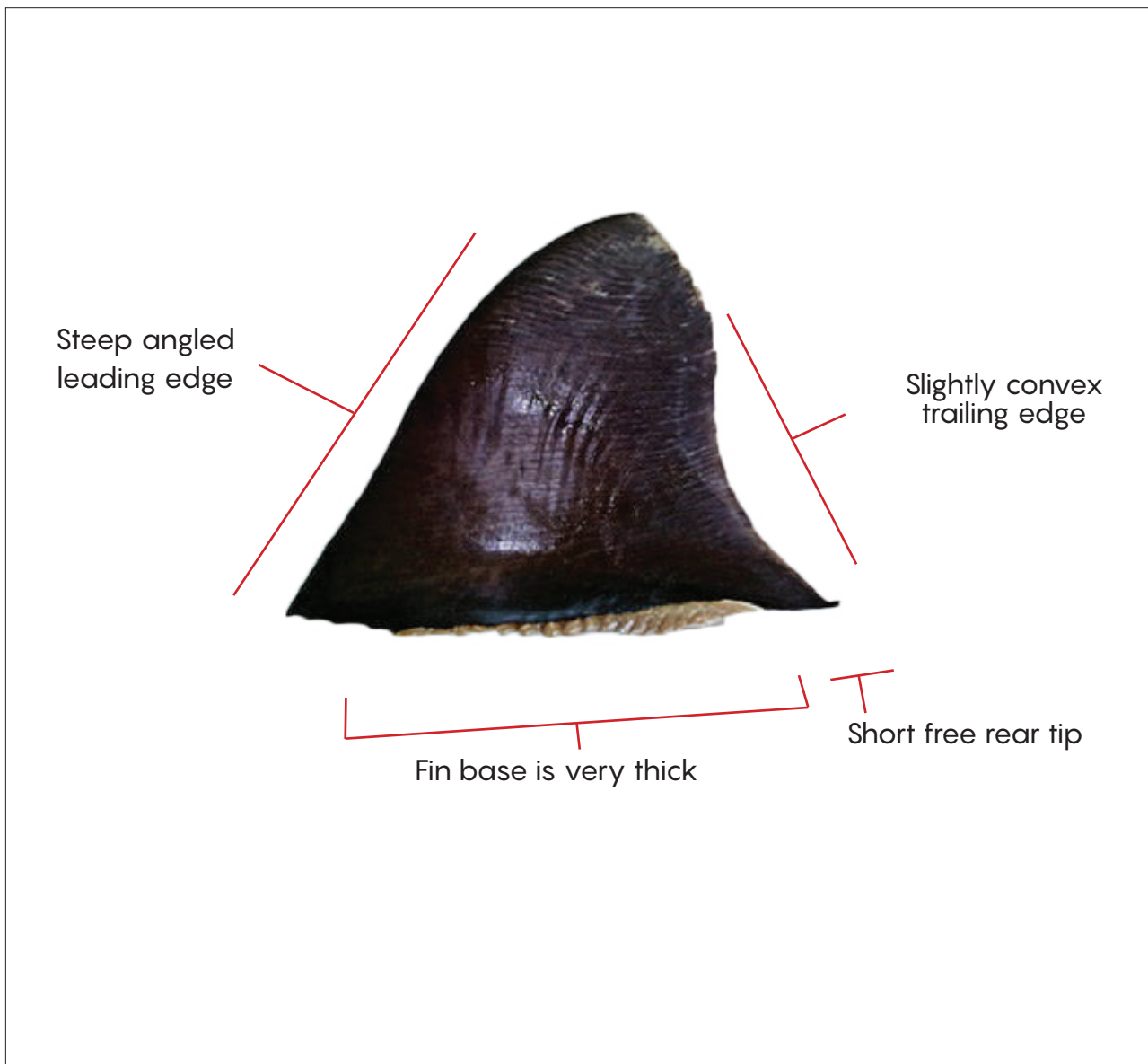
*Alopias superciliosus*

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix II (2015)	

**VULNERABLE**

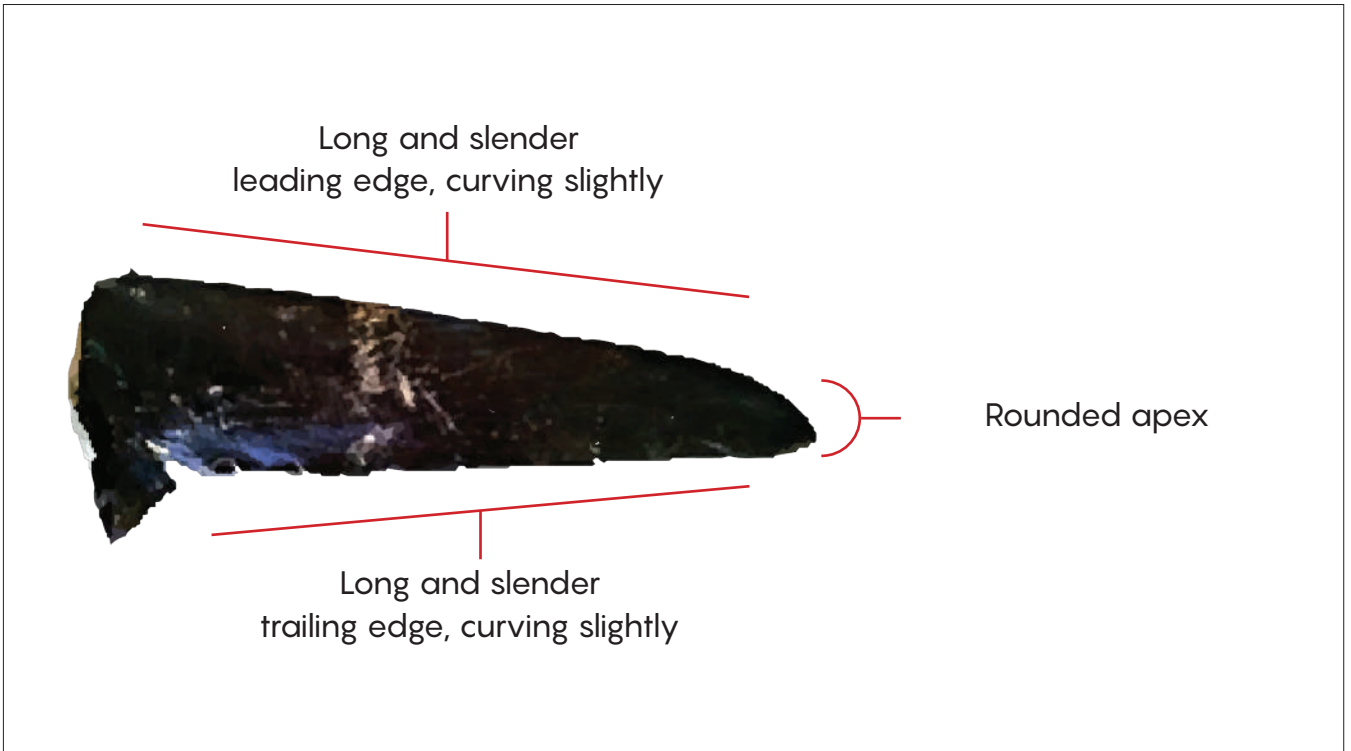
### 1st Dorsal Fin

Shape	Color
Broad & Erect	 <p>Dark grey to dark grey-brown</p>

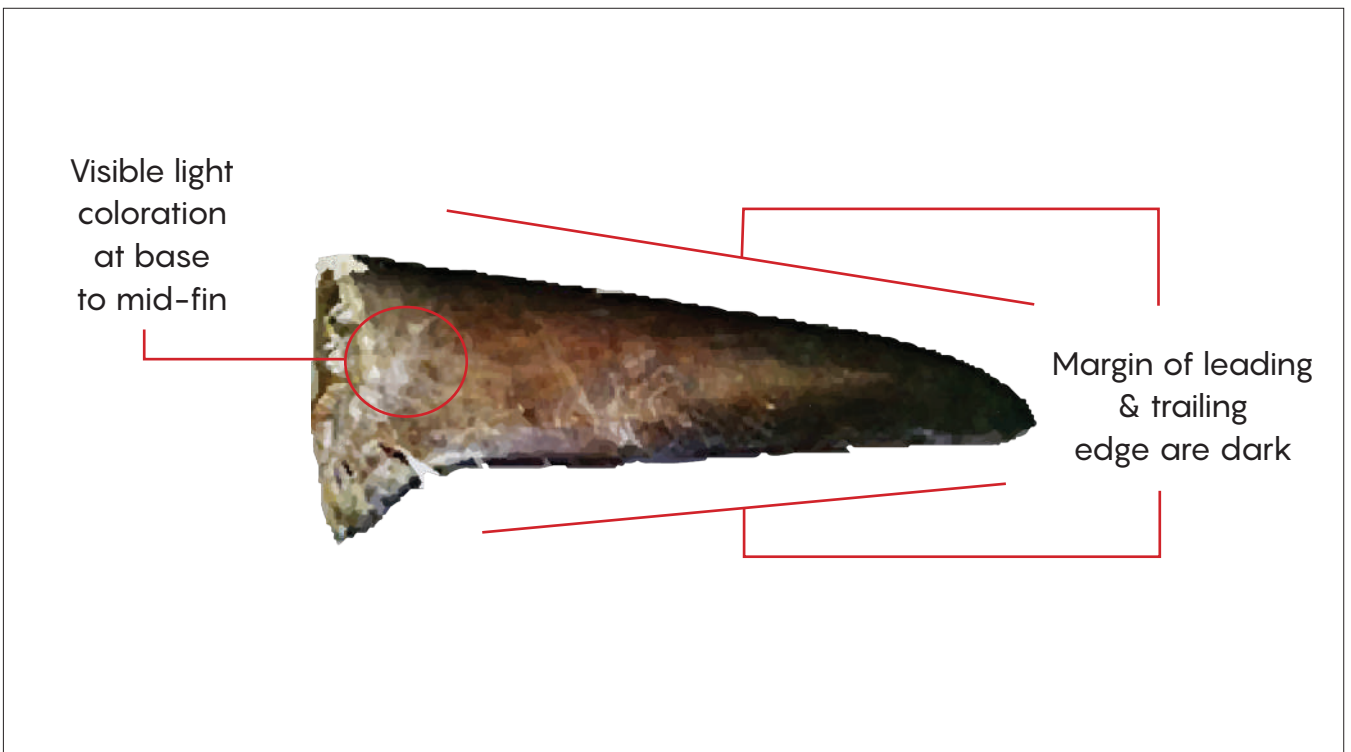


**Big-eye thresher shark**  
*Alopias superciliosus*

**Pectoral Fin**  
**Dorsal (Top) View**



**Pectoral Fin**  
**Ventral (Bottom) View**



# SILKY SHARK

## *Carcharhinus falciformis*

### Trade:

- Both its meat and fins are traded, but its fins are considered high-value and is the second most commonly traded in the global fin trade.


### Philippines:

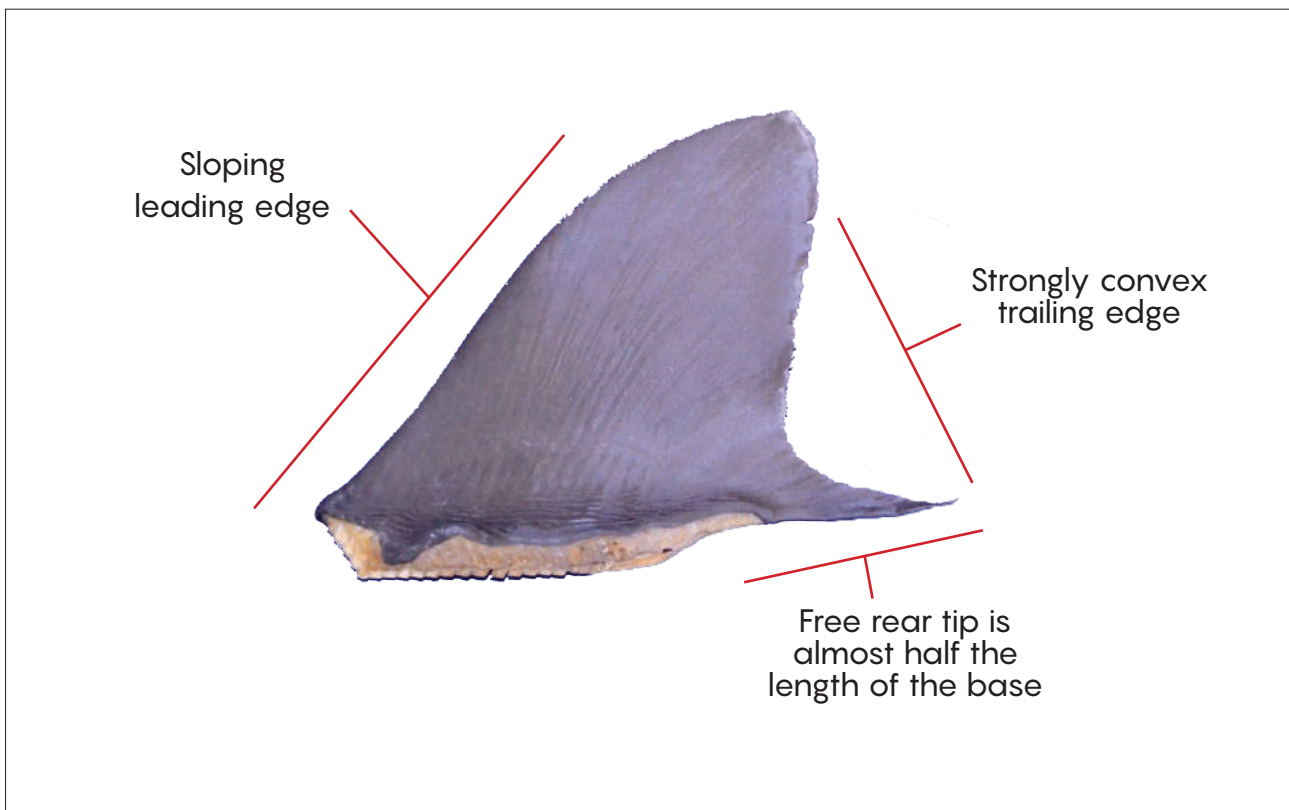
- Retention of silky shark is prohibited in many oceanic pelagic fisheries outside of the Indian Ocean, including the Pacific Ocean under the WCPFC, which the Philippines is a member of.

CITES	CMS	IUCN Red List Status
Appendix II (2017)	Appendix II (2015)	


**VULNERABLE**

### 1st Dorsal Fin

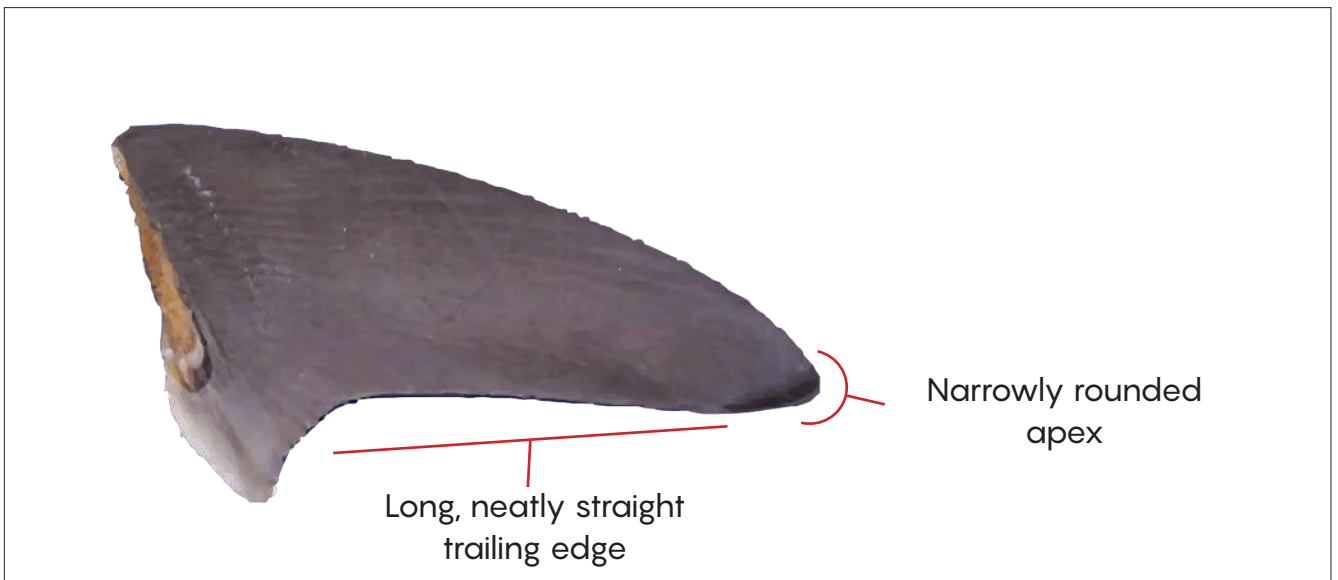
Shape	Color	Texture
Sloping	 <p>Uniform grey to grey-brown</p>	Dull when dry, smooth with small denticles



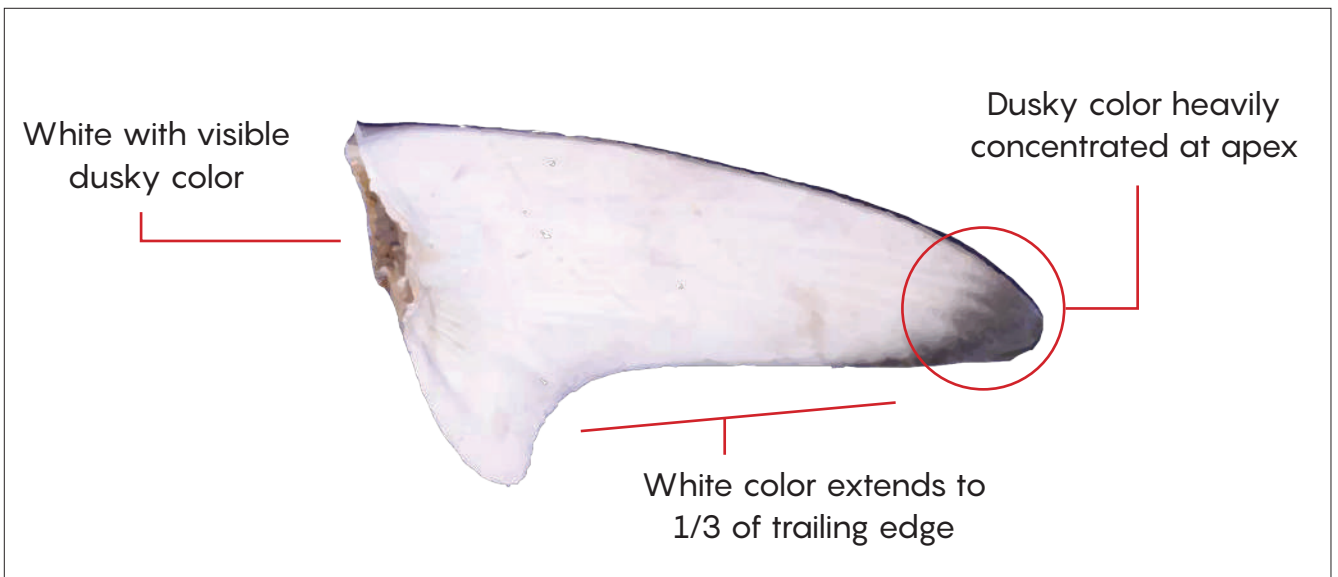
**Silky shark**  
*Carcharhinus falciformis*

Pectoral Fins		
Shape	Color	Texture
Long	 Uniform grey to grey-brown	Dull when dry, smooth with small denticles

**Pectoral Fin  
 Dorsal (Top) View**



**Pectoral Fin  
 Ventral (Bottom) View**



# OCEANIC WHITETIP SHARK

## *Carcharhinus longimanus*

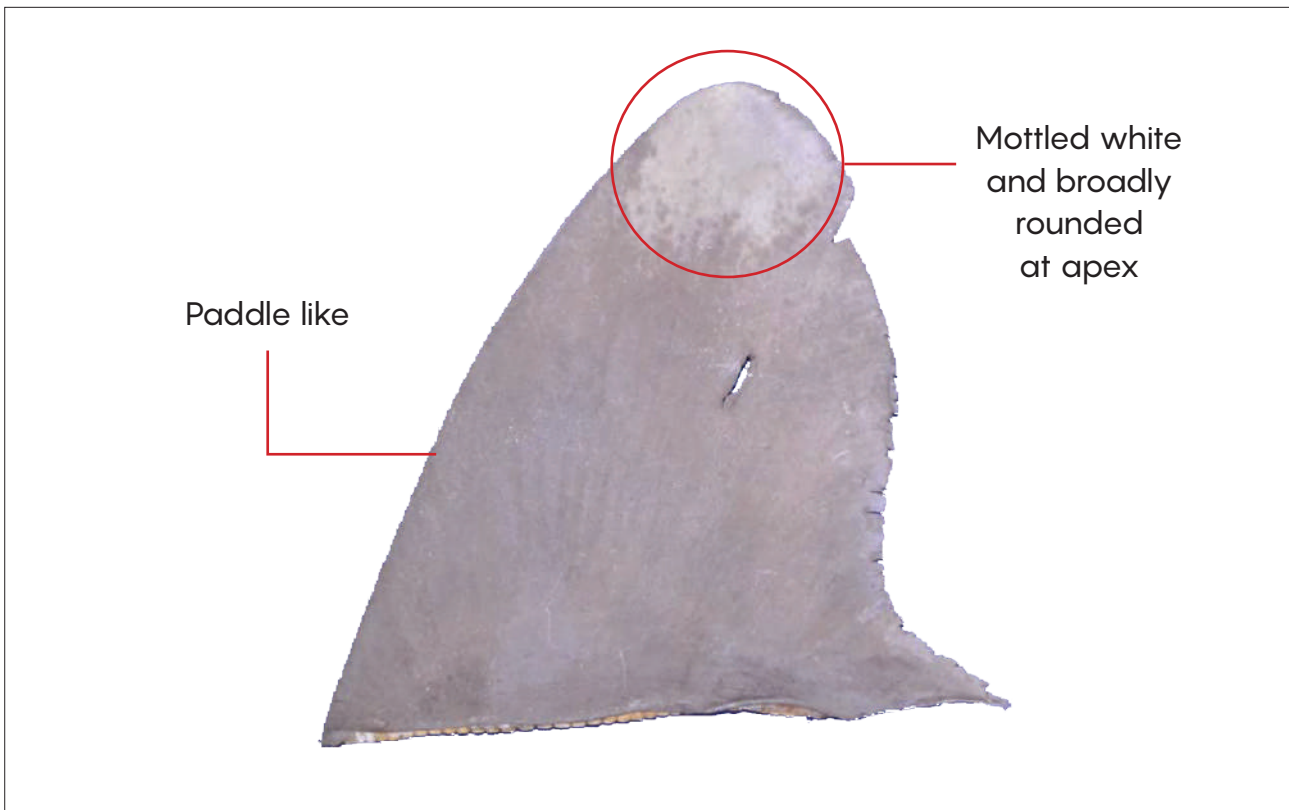
### Philippines:

- Retention of Oceanic whitetip sharks is prohibited by all the tuna RFMOs, including the WCPFC in 2011 which the Philippines is a member of.

<b>CITES</b>	<b>IUCN Red List Status</b>	<b>VULNERABLE</b>
Appendix II (2014)		

### Pectoral Fins

Size & Shape	Color	Texture
Long and paddle-like	 Grey to white	Not shiny when dry, smooth

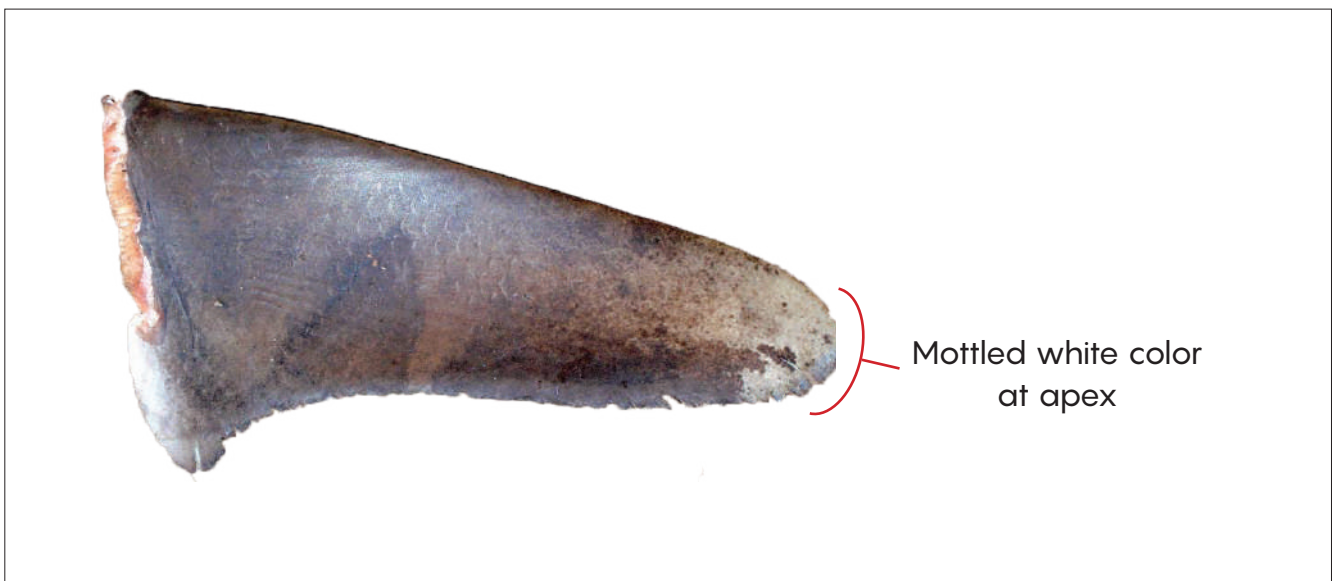


**Oceanic whitetip shark**  
*Carcharhinus longimanus*

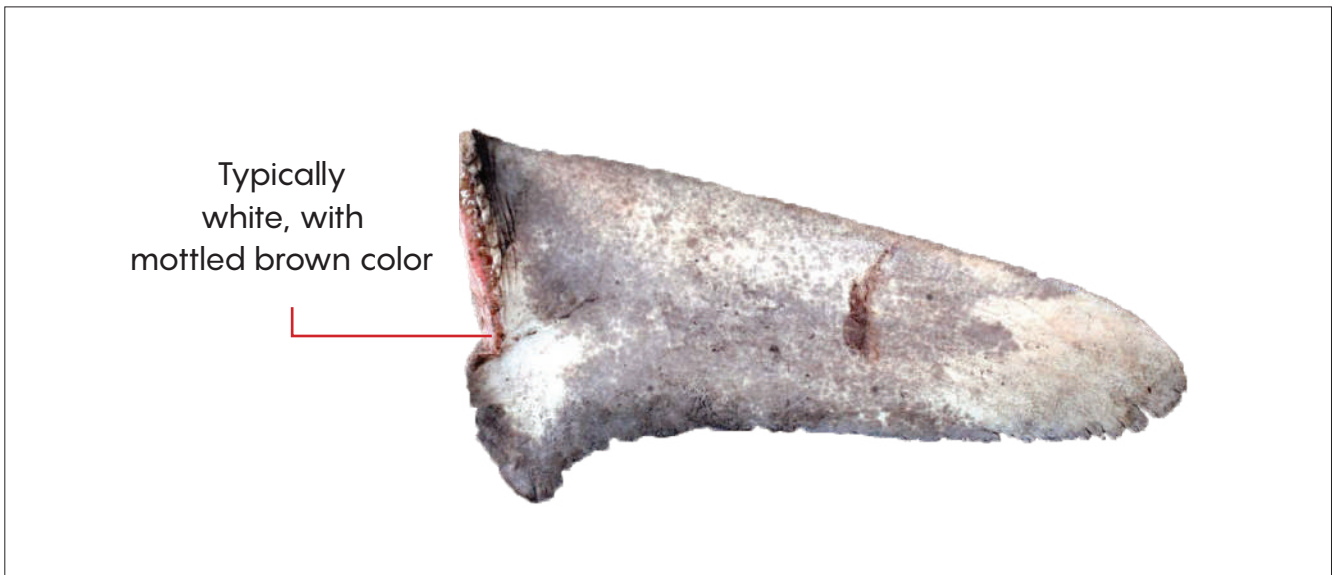
**Pectoral Fins**

Size & Shape	Color	Texture
Long, broadly rounded at apex	 Grey to white	Not shiny when dry, smooth

**Pectoral Fin  
 Dorsal (Top) View**



**Pectoral Fin  
 Ventral (Bottom) View**




# WHITE SHARK

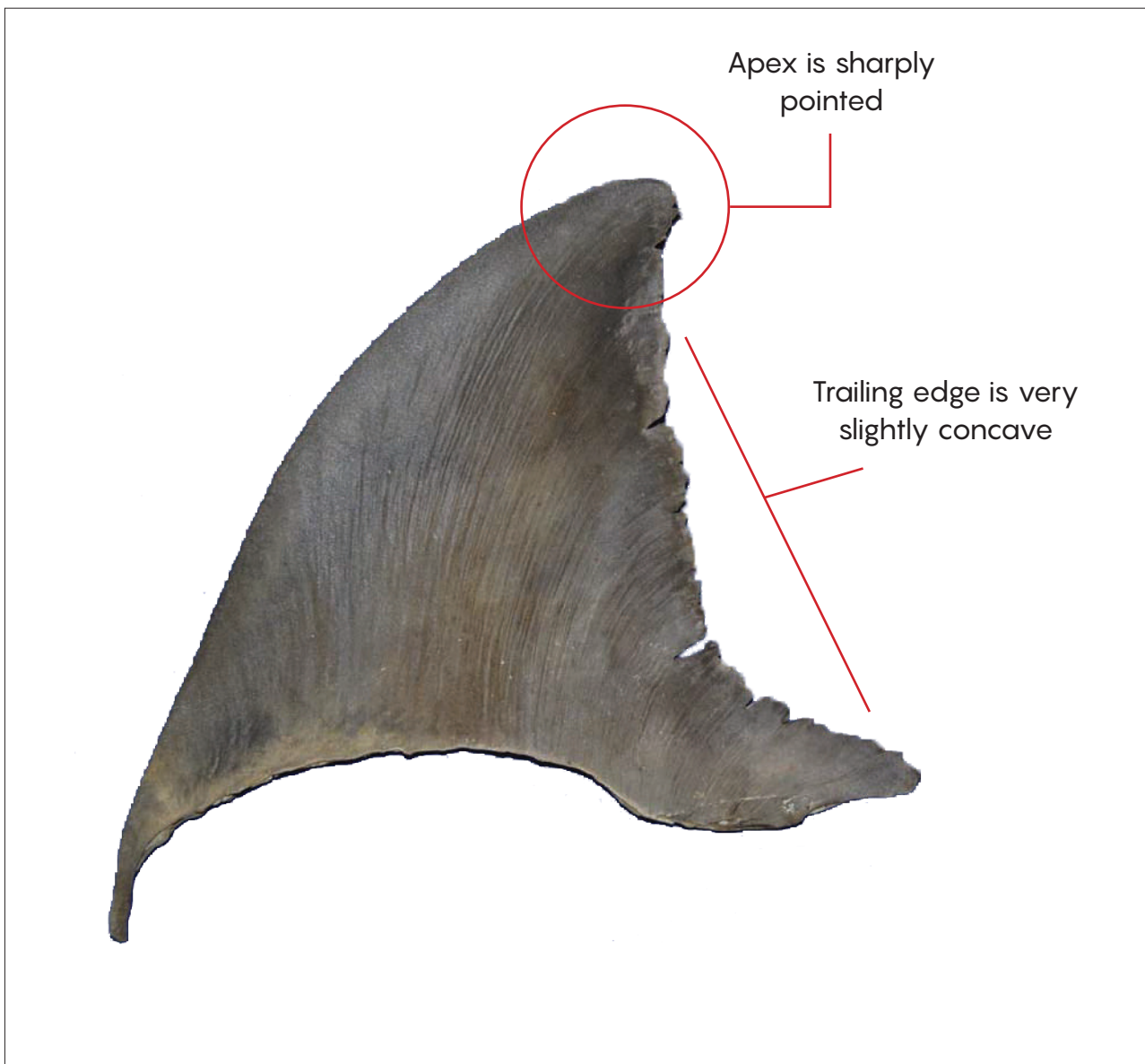
*Carcharodon carcharias*

CITES	CMS	IUCN Red List Status
Appendix II (2003)	Appendix II (2014)	

**VULNERABLE**

## 1st Dorsal Fin


Size & Shape	Color
Medium to large, tall and upright	 <p>Blue-grey to grey brown</p>



**White shark**

*Carcharodon carcharias*

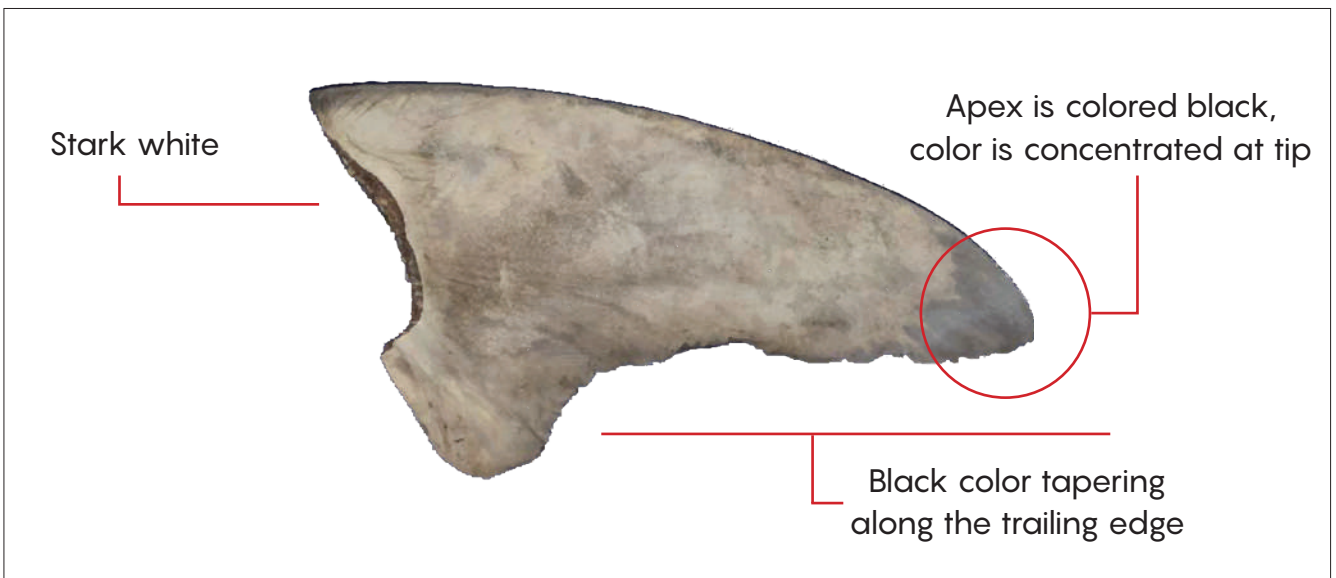
**Pectoral Fins**

Size & Shape	Color
Large, straight & upright	 Blue-grey-brown

**Pectoral Fin  
Dorsal (Top) View**



**Pectoral Fin  
Ventral (Bottom) View**




# WHALE SHARK

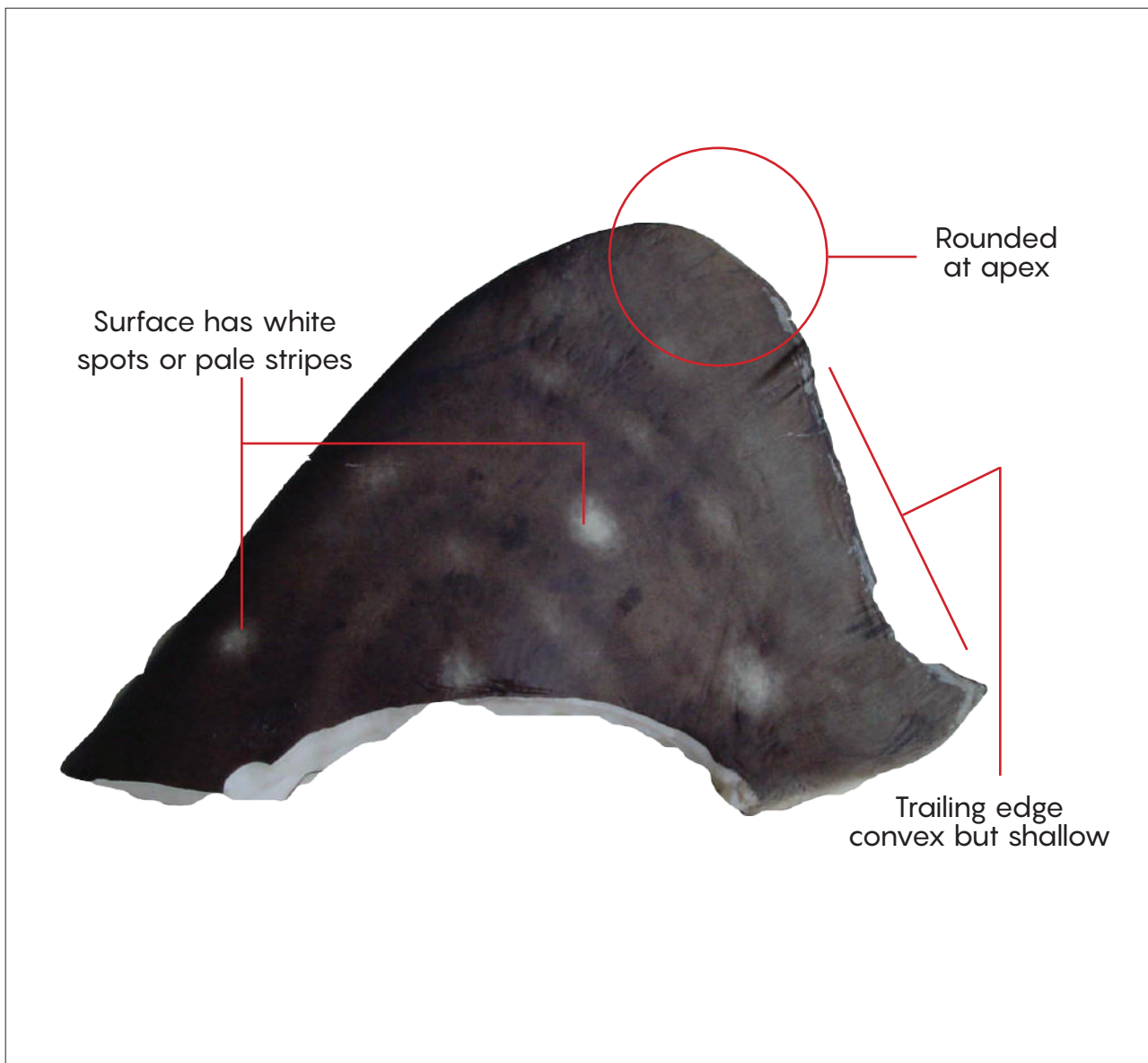
*Rhincodon typus*

<b>CITES</b>	<b>CMS</b>	<b>IUCN Red List Status</b>
Appendix II (2005)	Appendix II (2017)	

**ENDANGERED**


## 1st Dorsal Fin

Size & Shape	Color
Very large, broadly rounded	 <p>Grey, blue or brown</p>

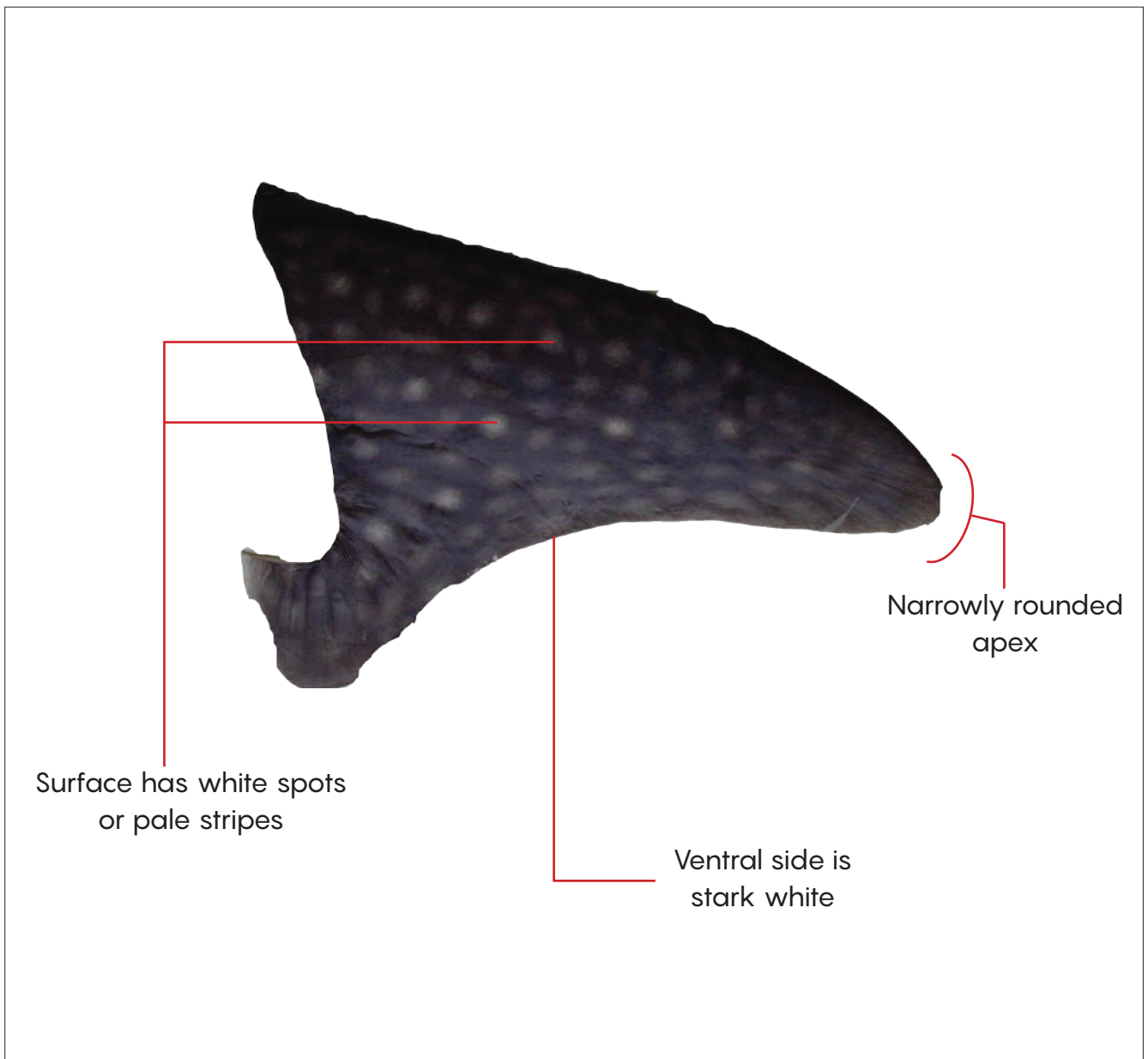


**Whale shark**  
*Rhincodon typus*

**Pectoral Fins**

Size & Shape	Color
Very large, narrowly rounded	 Grey, blue or brown

**Pectoral Fin  
Dorsal (Top) View**



# HAMMERHEAD SHARKS

## Genus *Sphyrna*

### Distribution:

- *S. lewini* and *S. mokarran* are found worldwide in coastal temperate and tropical waters.
- *S. zygaena* is found in similar coastal and open ocean temperate and tropical waters, but has a wider range extending into higher latitudes.

### Trade:

- Primarily traded for their fins and are amongst the preferred species for shark fin soup.


## Scalloped hammerhead shark

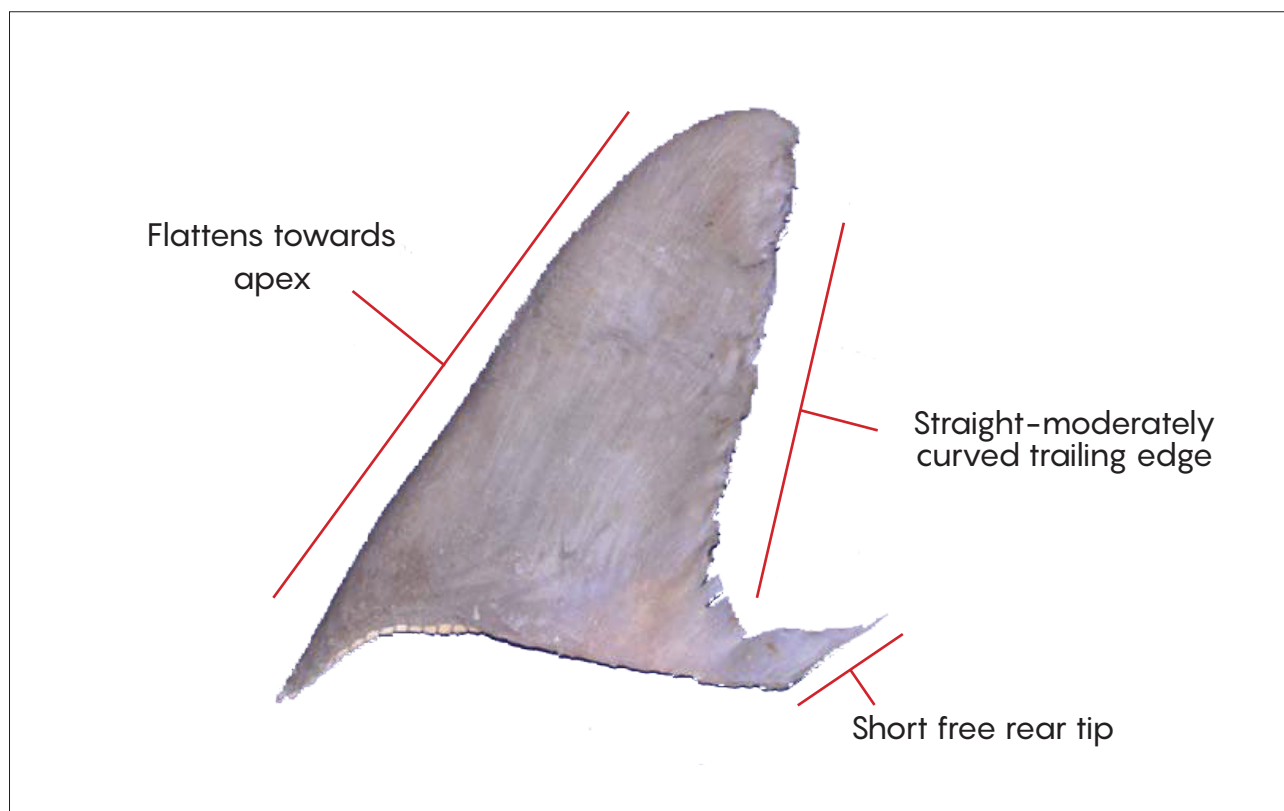
### *Sphyrna lewini*

CITES	CMS	IUCN Red List Status
Appendix II (2014)	Appendix II (2015)	

**ENDANGERED**

### 1st Dorsal Fin

Shape	Color	Texture
Tall	 Dull brown to light grey	Dull when dry, smooth with small denticles

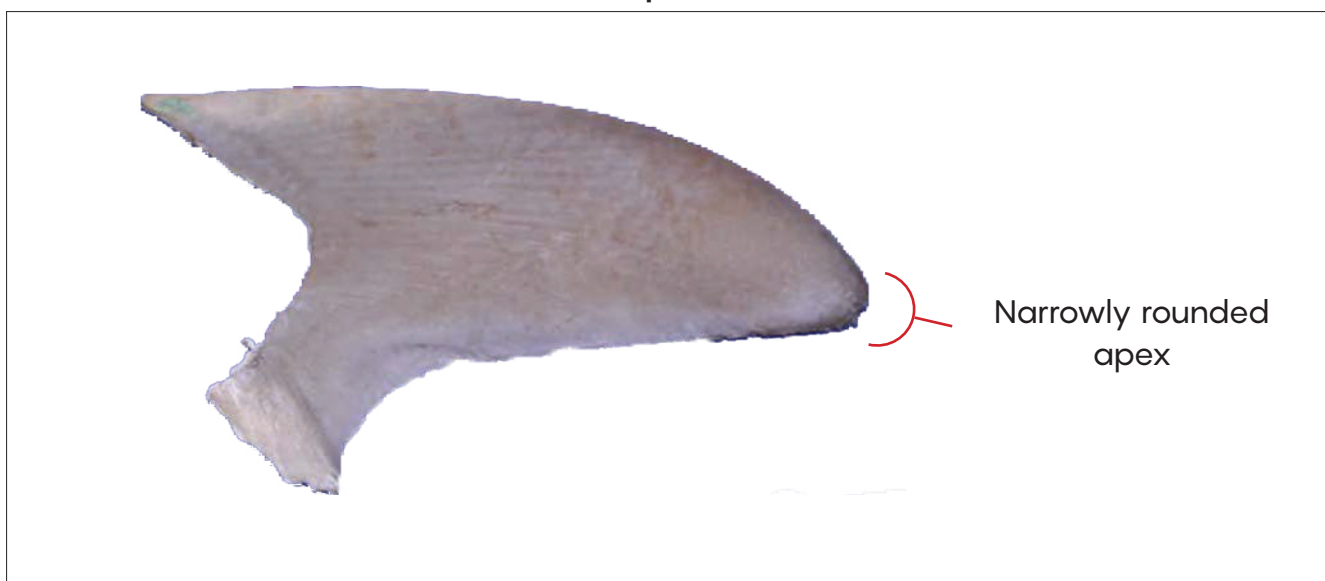


**Scalloped hammerhead shark**  
*Sphyrna lewini*

**Pectoral Fins**

Shape	Color	Texture
Short & broad	 Dull brown to light grey	Dull when dry, smooth with small denticles

**Pectoral Fin  
 Dorsal (Top) View**



**Pectoral Fin  
 Ventral (Bottom) View**



# HAMMERHEAD SHARKS

Genus *Sphyrna*

## Great hammerhead shark

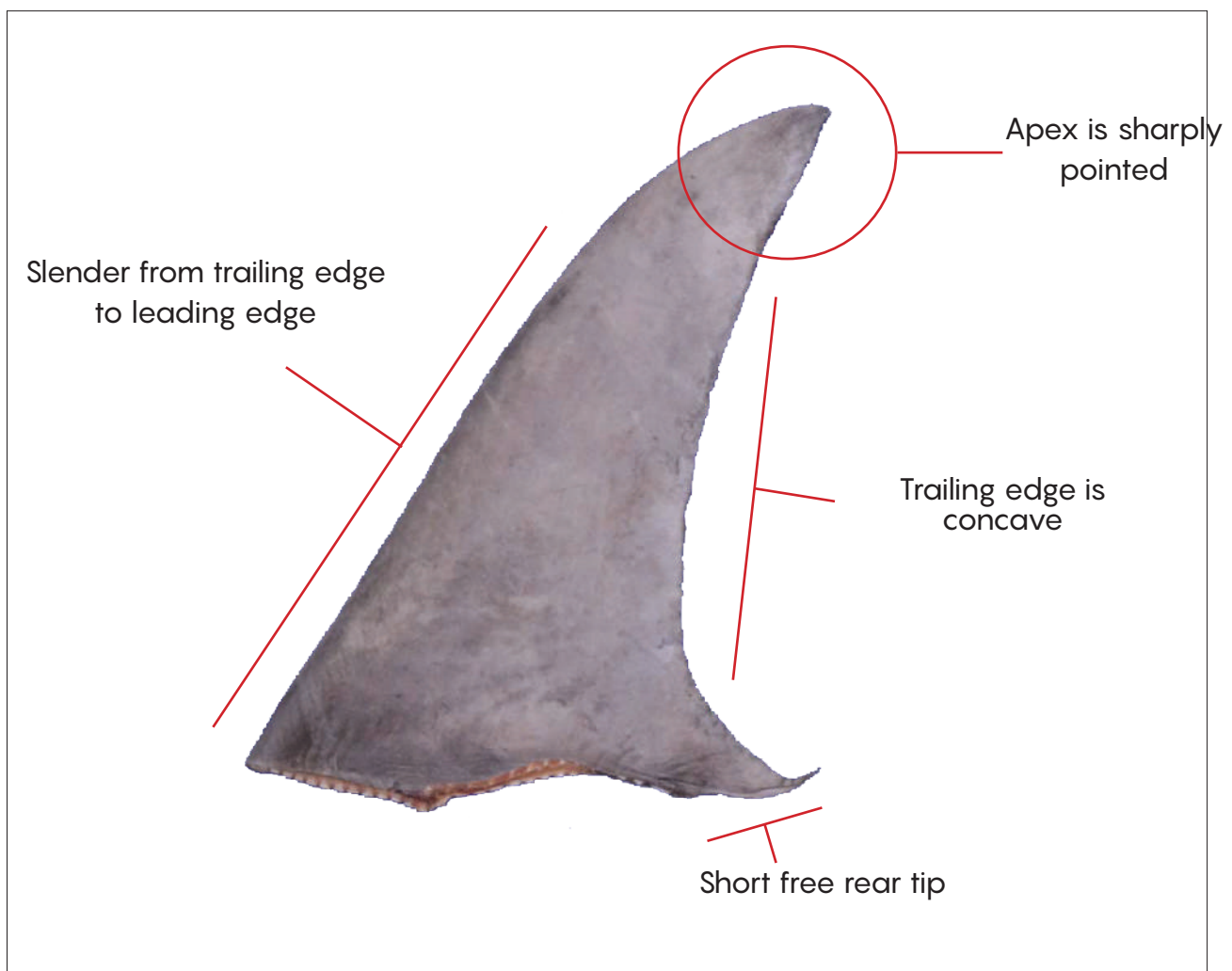
*Sphyrna mokarran*

<b>CITES</b>	<b>CMS</b>	<b>IUCN Red List Status</b>
Appendix II (2014)	Appendix II (2015)	

**ENDANGERED**


### 1st Dorsal Fin

Shape	Color	Texture
Tall & elongated	 Grey to light greyish-brown	Quite rigid in structure when wet

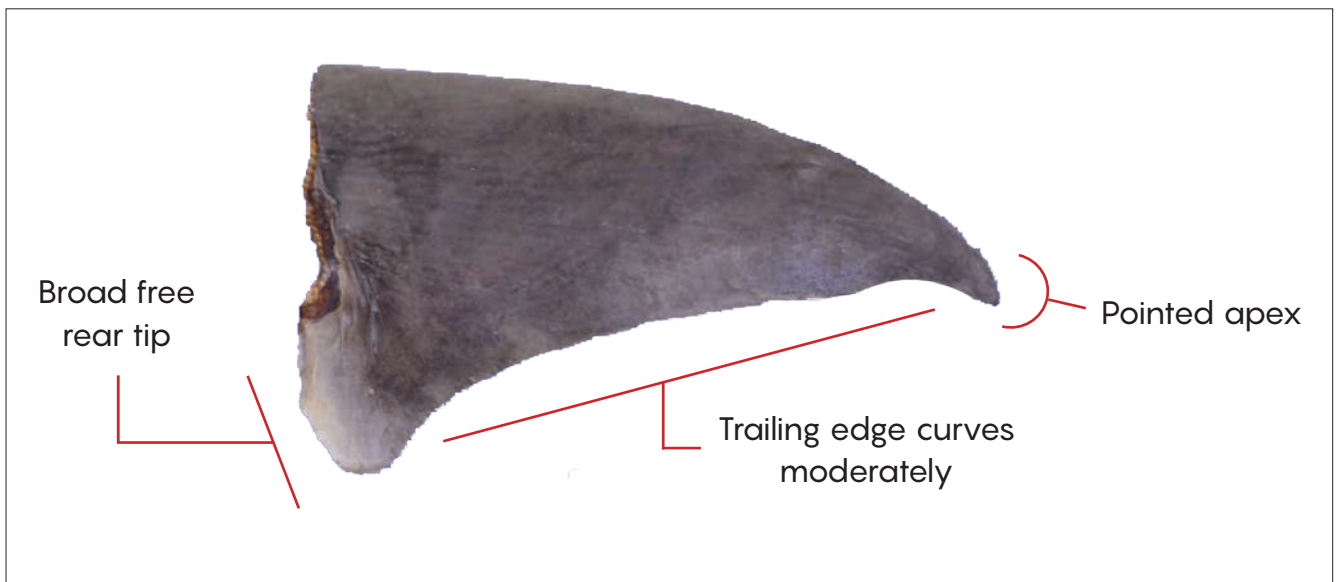


**Great hammerhead shark**  
*Sphyrna mokarran*

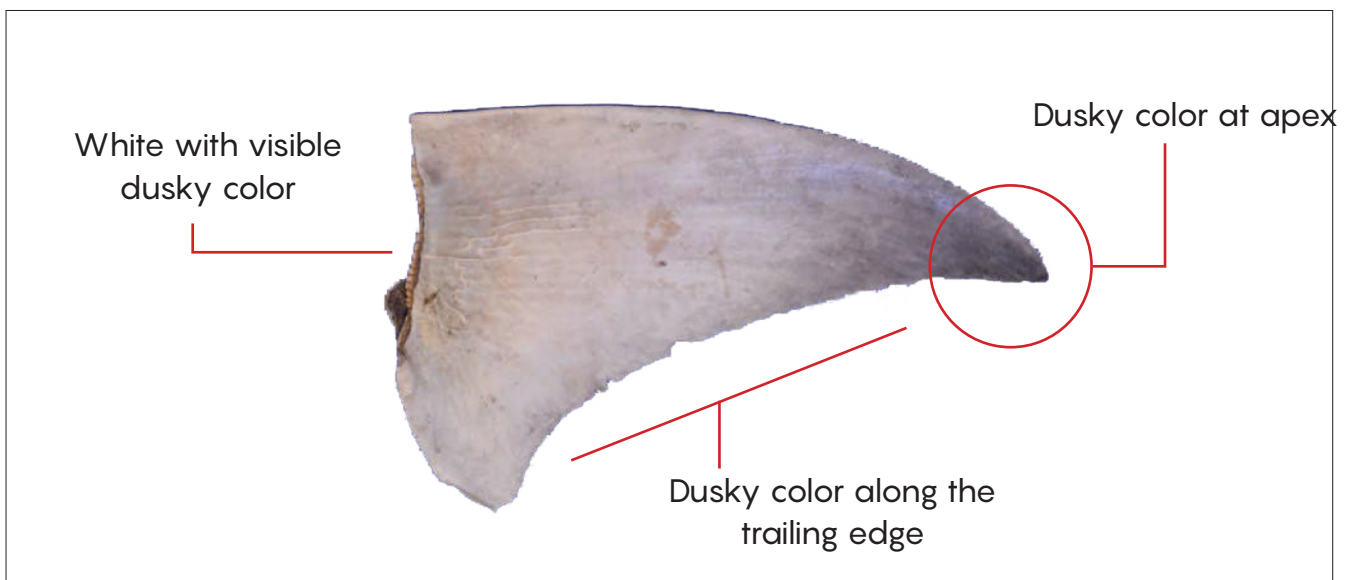
**Pectoral Fins**

Shape	Color	Texture
Broad	 Grey to light greyish-brown	Quite rigid in structure when wet

**Pectoral Fin  
 Dorsal (Top) View**



**Pectoral Fin  
 Ventral (Bottom) View**



# HAMMERHEAD SHARKS

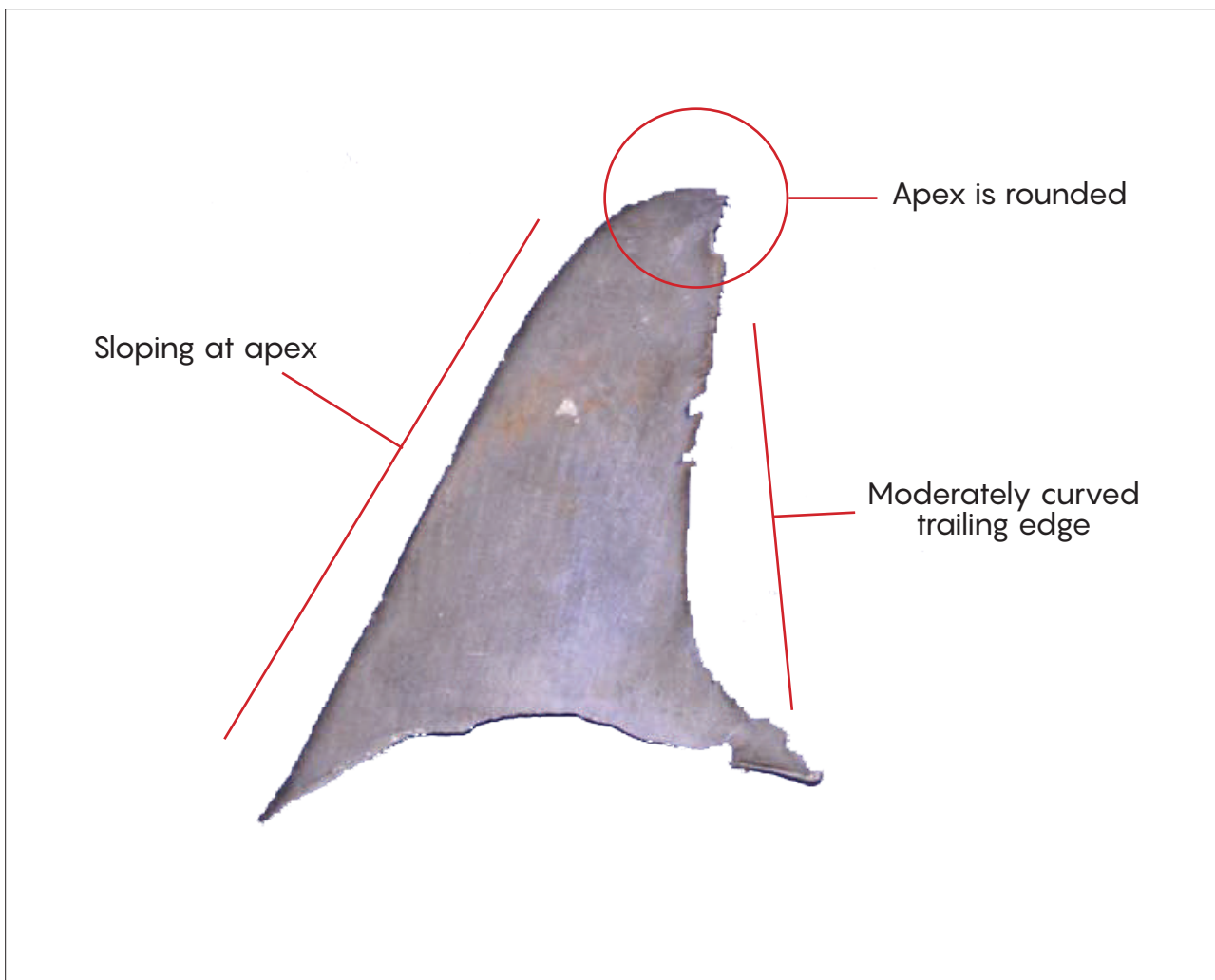
Genus *Sphyrna*

## Smooth hammerhead shark

*Sphyrna zygaena*

CITES	IUCN Red List Status	VULNERABLE
Appendix II (2014)		

1st Dorsal Fin		
Shape	Color	Texture
Tall	 Light brown to light greyish-brown	Dull, velvety when dry with small denticles

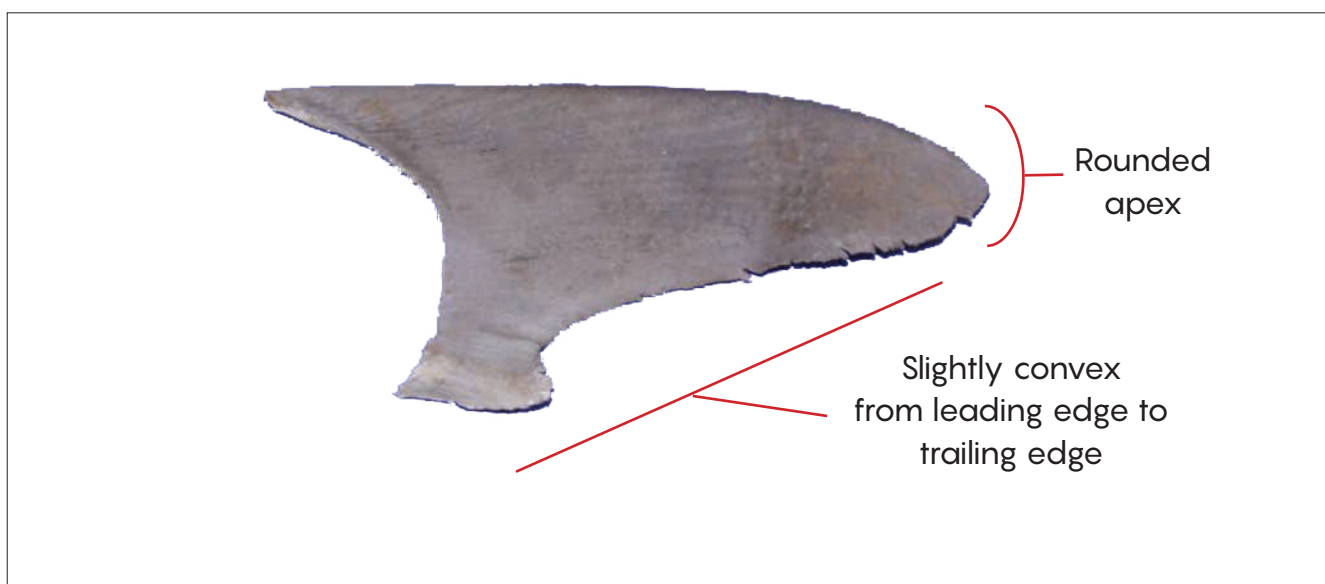


**Smooth hammerhead shark**  
*Sphyrna zygaena*

**Pectoral Fins**

Shape	Color	Texture
Short & broad	 Light brown to greyish-brown	Dull, velvety when dry with small denticles

**Pectoral Fin  
 Dorsal (Top) View**



**Pectoral Fin  
 Ventral (Bottom) View**



# MAKO SHARKS

## Genus *Isurus*

### Distribution:

- Mako sharks occur globally in temperate and tropical oceans and are highly migratory in nature.

### Trade:

- *I. oxyrinchus* is valued for its meat as well as its fins and skin, and is ranked as the 5th most common species in the fin trade in Hong Kong SAR.
- Liver oil is extracted for vitamins, fins for shark fin soup, its jaws and teeth are also sold as ornaments and trophies.
- *I. paucus* are utilized fresh, frozen, dried or salted meat. Fins are of high value compared to the carcass.

### Shortfin mako shark

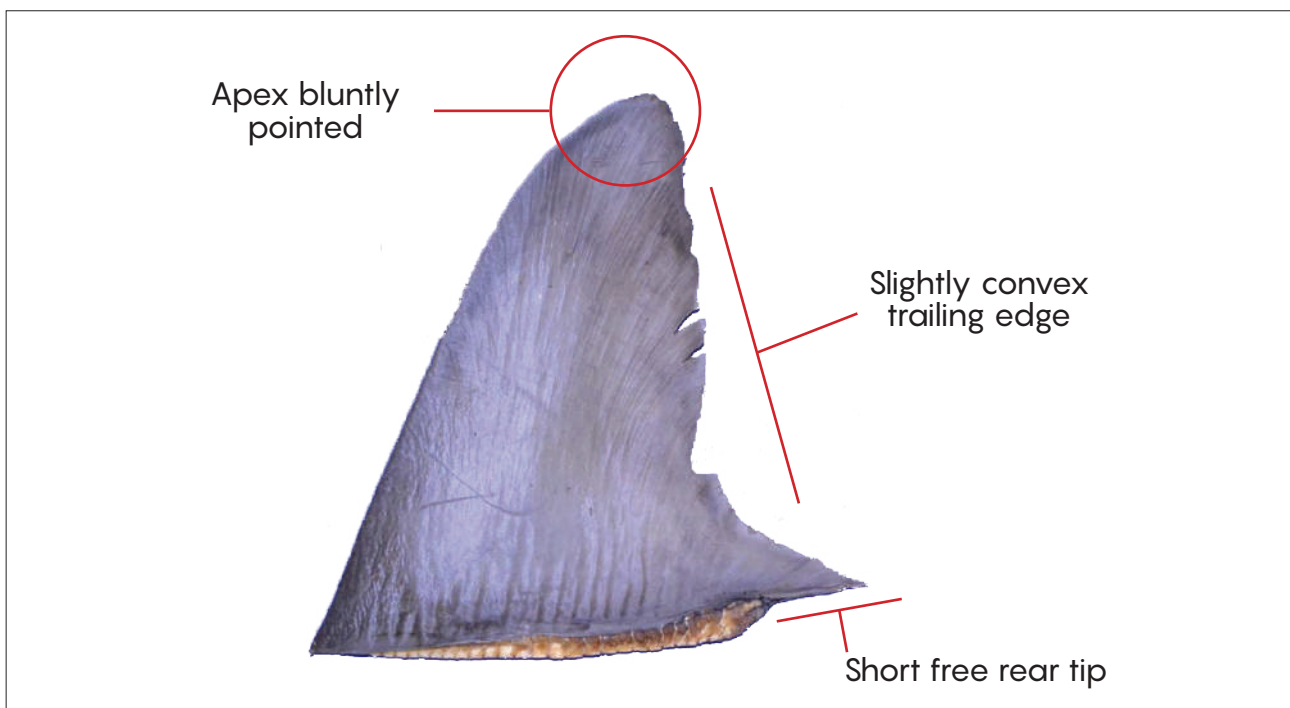
#### *Isurus oxyrinchus*

<b>CITES</b>	<b>CMS</b>	<b>IUCN Red List Status</b>
Appendix II (2019)	Appendix II (2009)	

**ENDANGERED**


#### 1st Dorsal Fin

Size & Shape	Color	Texture
Large, tall and upright	 Indigo blue or dark grey-black	Dull when dry with small denticles



**Shortfin mako shark**  
*Isurus oxyrinchus*

**Pectoral Fins**

Color	Texture
 Dark grey-brown or slate grey	Dull when dry with small denticles

**Pectoral Fin  
Dorsal (Top) View**



**Pectoral Fin  
Ventral (Bottom)  
View**



# MAKO SHARKS

Genus *Isurus*



## Longfin mako shark

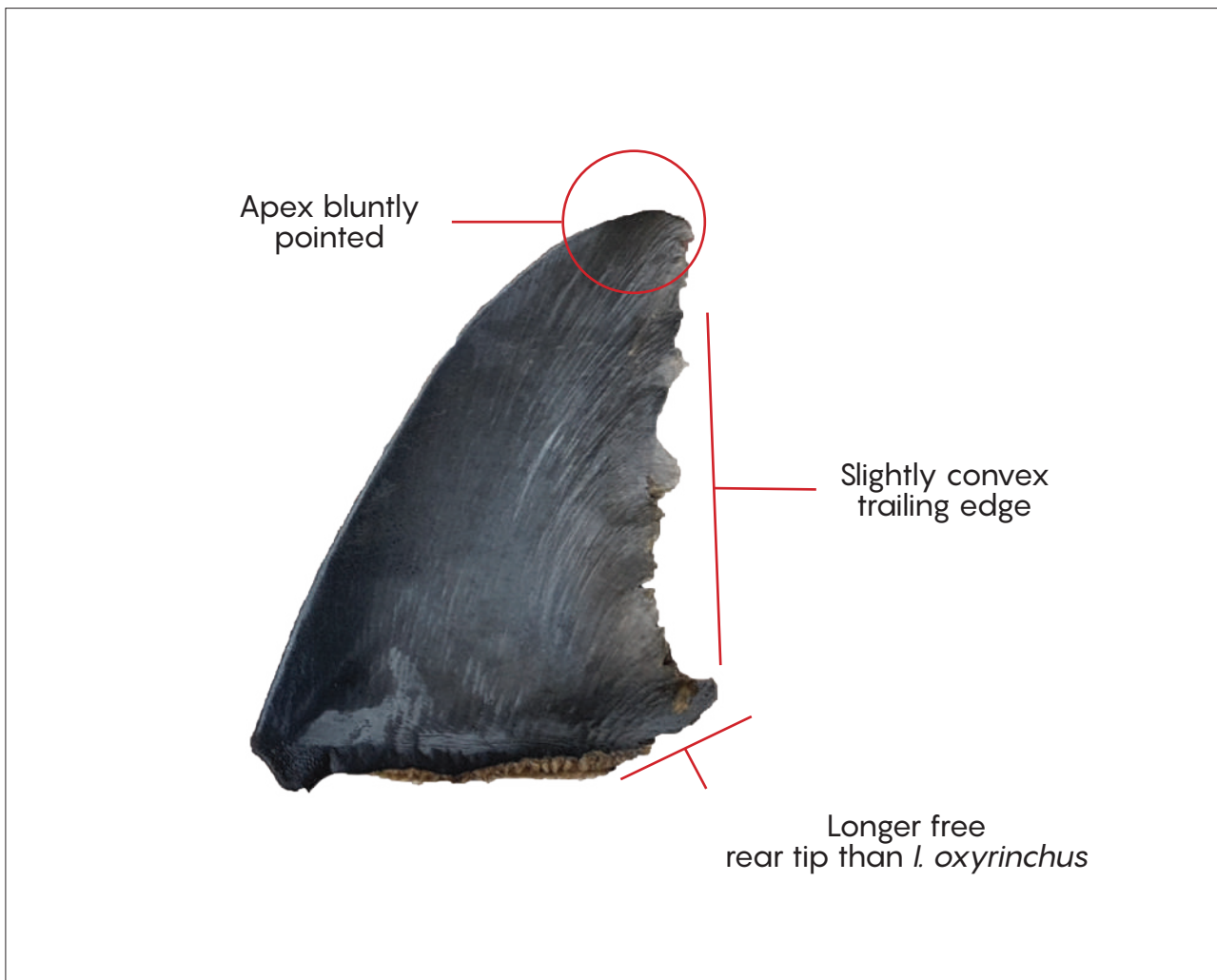
*Isurus paucus*

CITES	CMS	IUCN Red List Status
Appendix II (2019)	Appendix II (2009)	

ENDANGERED


### 1st Dorsal Fin

Size & Shape	Color
Large, tall and upright	  Indigo blue or dark grey-black



**Longfin mako shark**  
*Isurus paucus*

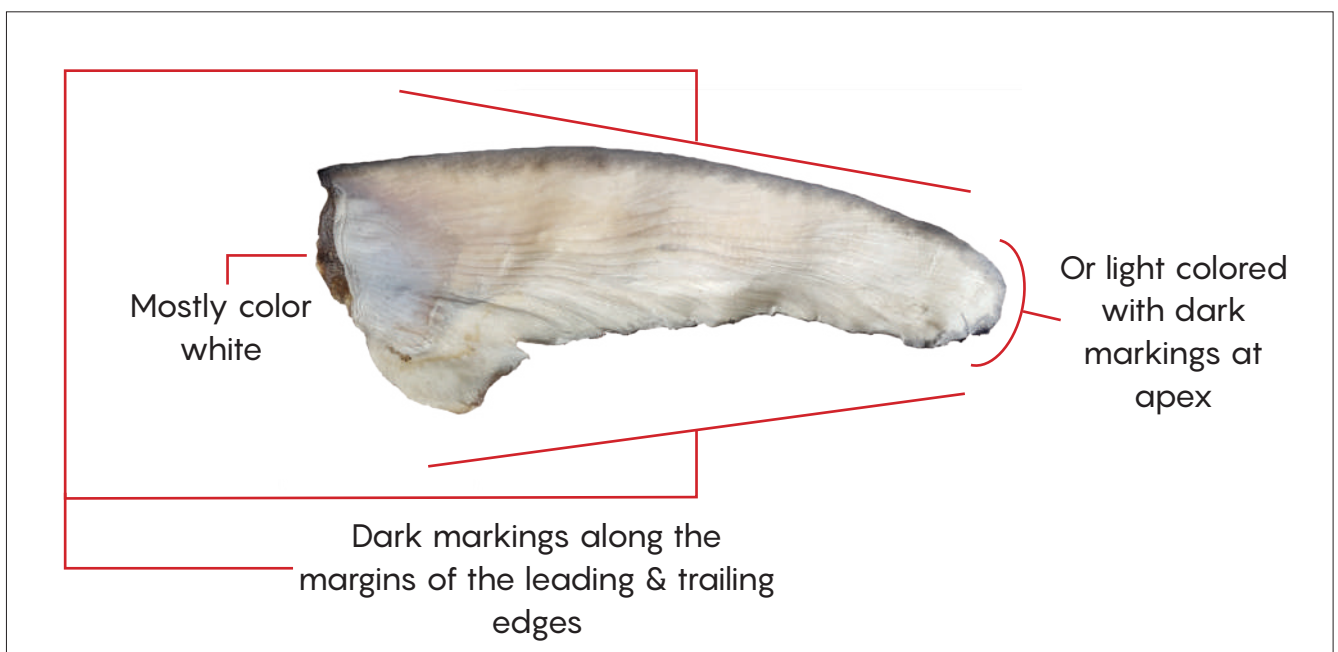
**Pectoral Fins**

Color
 
Dark grey-brown or slate grey

**Pectoral Fin  
Dorsal (Top) View**



**Pectoral Fin  
Ventral (Bottom) View**



# WEDGEFISHES

## Family *Rhinidae*

### Distribution:

- The wedgefishes typically occur in inshore habitats on the continental shelf including shallow bays, estuaries and coastal coral reefs mainly in the Indo-Pacific.

### Trade:

- Wedgefish fins are considered amongst the best quality and highest value in the global shark fin trade.

## Bowmouth guitarfish

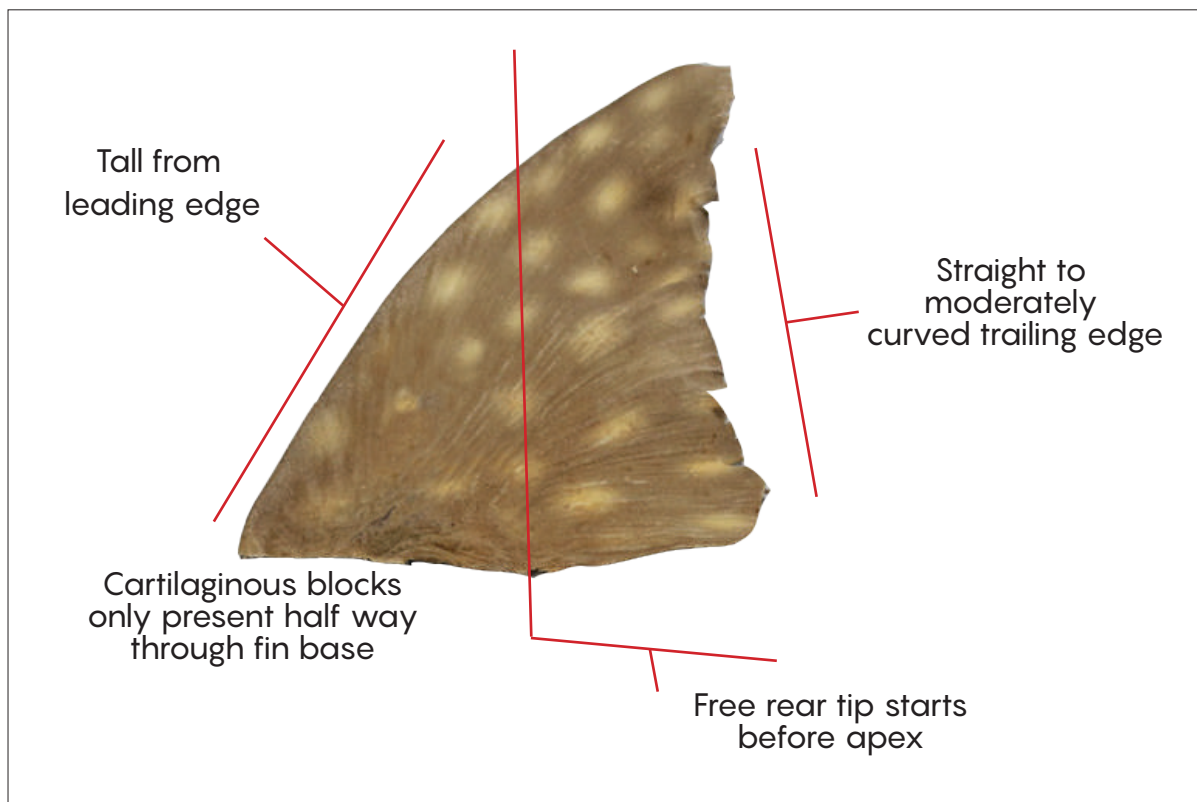
### *Rhina ancylostoma*

CITES	CMS	IUCN Red List Status
Appendix II (2019)	Appendix II (2017)	

**CRITICALLY ENDANGERED**

### 1st and 2nd Dorsal Fin for *Rhina ancylostoma*

Shape	Color	Texture
Tall & slender	 <p>Dark brown or grey, with white spots</p>	Denticles visible, smooth & shiny



**Bottlenose wedgefish**  
*Rhynchobatus australiae*

<b>CITES</b>	<b>CMS</b>	<b>IUCN Red List Status</b>
Appendix II (2019)	Appendix II (2017)	


**CRITICALLY ENDANGERED**

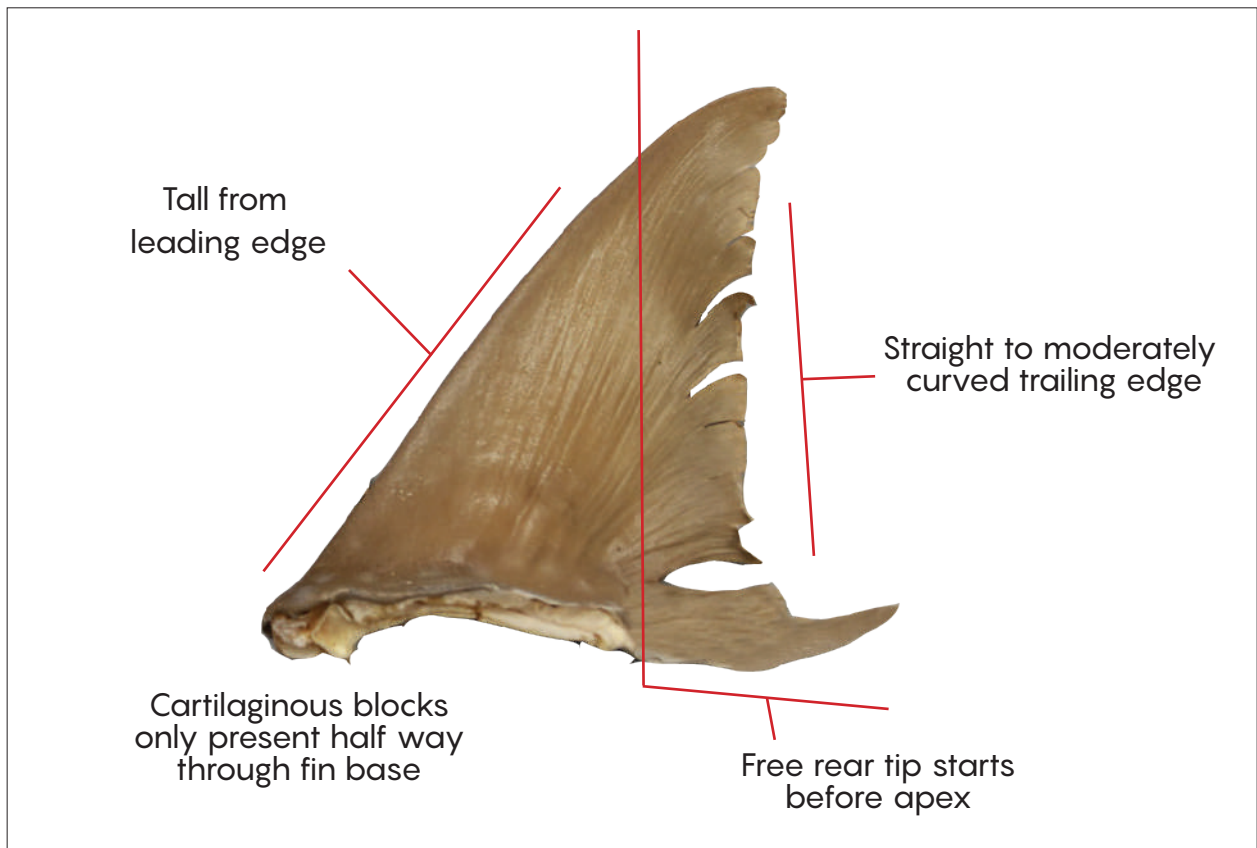
**Broadnose wedgefish**  
*Rhynchobatus springeri*

<b>CITES</b>	<b>CMS</b>	<b>IUCN Red List Status</b>
Appendix II (2019)	Appendix II (2017)	

**CRITICALLY ENDANGERED**

**1st and 2nd Dorsal Fin for *R. australiae* and *R. springeri***

Shape	Color	Texture
Tall & slender	 Dull brown or light grey	Denticles visible, smooth & shiny



# GUITARFISHES

## Family *Glaucostegus*

### Trade:


- Much like the wedgefishes, they are largely traded for their high value fins and are known to occur in markets in Hong Kong SAR.

### Giant guitarfish

#### *Glaucostegus typus*

CITES	CMS	IUCN Red List Status
Appendix II (2019)	Appendix II (2017)	

**CRITICALLY ENDANGERED**

Dorsal Fin		
Shape	Color	Texture
Tall & slender	 <p>Dull brown or light grey</p>	Enlarged denticles visible, rough texture

