

REGIONAL SHARK IDENTIFICATION GUIDES

International workshop on strategies and experiences for the
implementation of shark species included in Appendix II of CITES,
25-27 November: Santa Marta, Colombia

JUAN CARLOS CANTÚ
DEFENDERS OF WILDLIFE



Why is it necessary to identify shark species?

- Comply with CITES.
- Comply with RFMO's
- Comply with national laws.
- Implement chains of custody and traceability.
- Implement NDFs

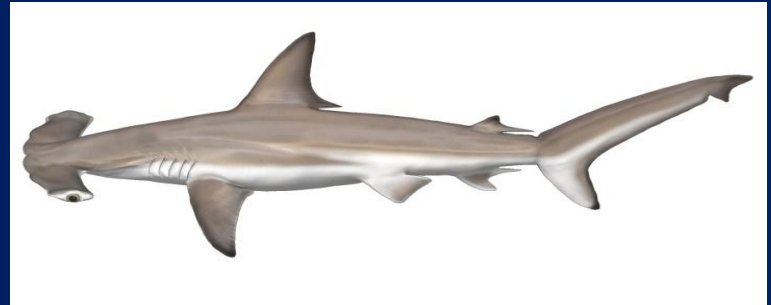


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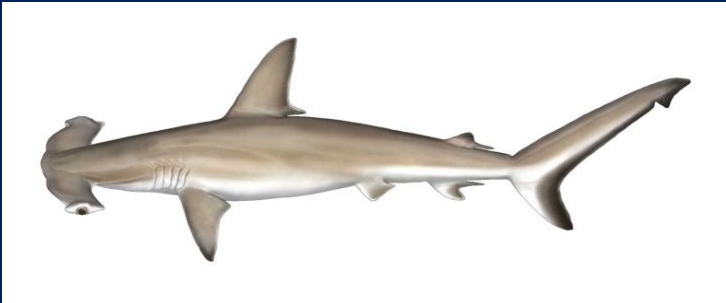
6 CITES species on the guides



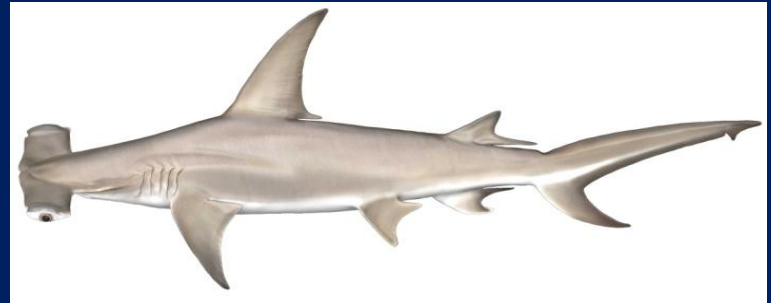
Carcharodon carcharias



Sphyrna lewini



Sphyrna zygaena



Sphyrna mokarran



Carcharhinus longimanus



Lamna nasus

CITES species NOT on the guides



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TARGET AUDIENCE OF THE GUIDES

- The guides were designed for fishermen.
- Artisanal or industrial fishermen.
- Not designed for marine, biologists, onboard observers or scientists.
- Minimal written information, no need to be able to read



FOUR REGIONAL IDENTIFICATION GUIDES

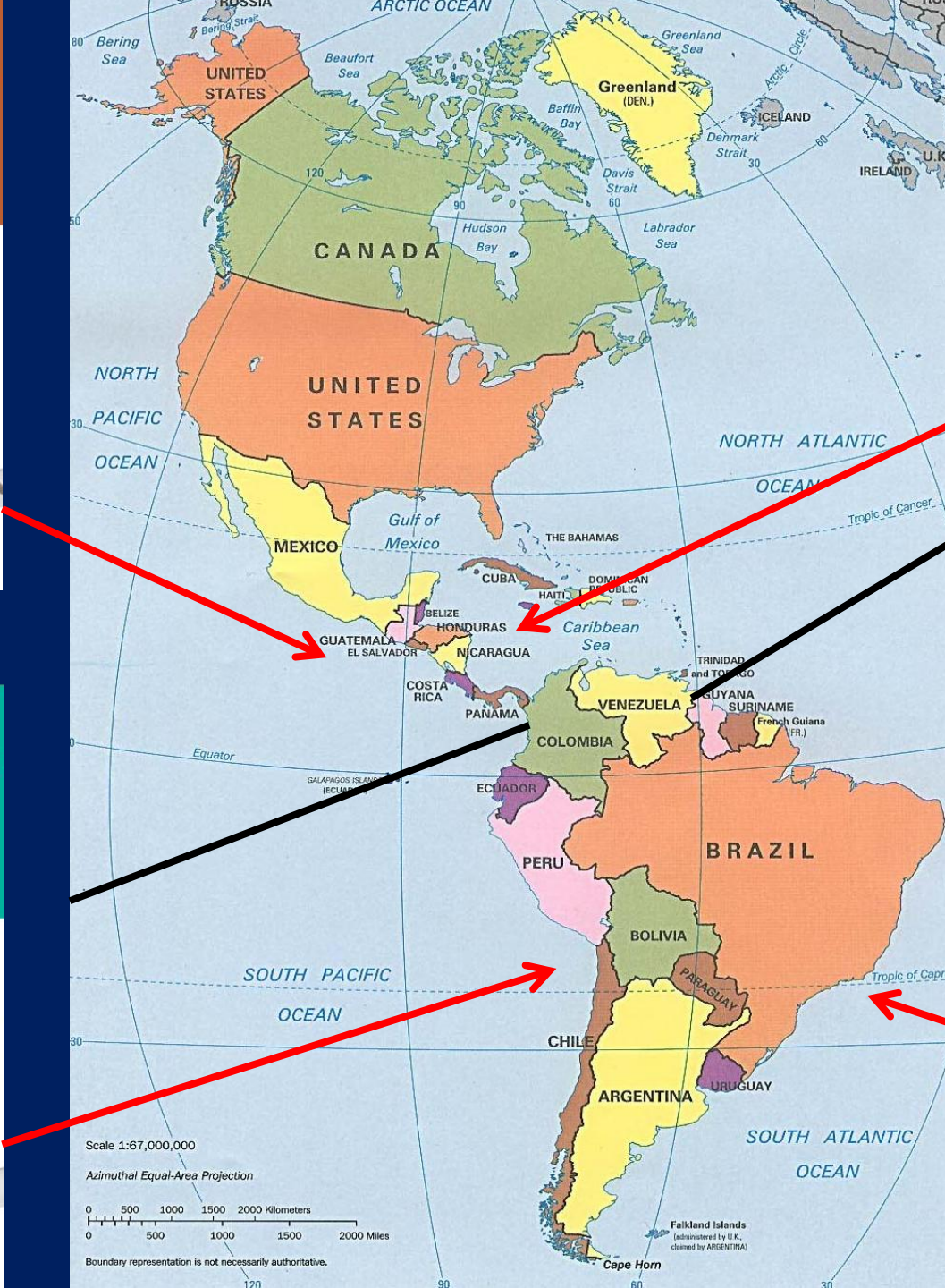


TIBURONES

de México y Centro América del Océano Pacífico

Autor / Juan Carlos Cento, Defenders of Wildlife.

Ilustraciones y diseño / Raelin Levi Méndez



TIBURONES

de México, Centro América y el Caribe

Autor / Juan Carlos Cento, Defenders of Wildlife.

Ilustraciones y diseño / Raelin Levi Méndez

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de Sur América del Océano Pacífico

Autor / Juan Carlos Cento, Defenders of Wildlife.

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TIBURONES

de Sur América del Océano Atlántico

Autor / Juan Carlos Cento, Defenders of Wildlife.

Ilustraciones y diseño / Raelin Levi Méndez

ACORDEON FORMAT

Tiburones de México y Centro América del Océano Pacífico

TIBURONES
de México y
Centro América
del Océano Pacífico

Autor / Juan Carlos Cantú,
Defenders of Wildlife.

Ilustraciones y diseño / Raziel Levi Méndez

Sphyrna tiburo
Cabeza de pala
Bonnethead shark

a. Cabeza en forma de pala.
b. Aleta dorsal larga.
c. Punta libre de aleta dorsal frente a origen de aleta pélvica.
d. Aleta anal con borde medio cóncavo.

Sphyrna coronata
Cornada coronada
Mallethead shark

a. Cabeza en forma de mazo con tres hendiduras laterales.
b. Punta libre de aleta dorsal sobre aleta pélvica.
c. Aleta anal con borde recto.

Prionace glauca
Asá
Bliss shark

a. Cabeza picuda y hocico largo.
b. Aleta pectoral muy larga.
c. Origen aleta dorsal muy por detrás de aleta pectoral.
d. Aleta dorsal mediana.

Sphyrna lewini
Cornada, martillo común, rosado
Scalloped hammerhead

a. Cabeza con 5 hendiduras.
b. Aleta pectoral con mancha oscura en la punta.
c. Aleta pélvica con borde recto.
d. Punta libre de 2da aleta dorsal muy cerca del origen de aleta caudal.

Rhizoprionodon longirostris
Bironcha, picudo común
Pacific sharpnose shark

a. Cabeza picuda y hocico largo.
b. Raya lateral superior larga.
c. Origen 2da aleta dorsal detrás de origen aleta anal.
d. Borde aleta caudal cóncavo.

Negaprion brevirostris
Limón
Lemon shark

a. Cabeza redonda y hocico corto.
b. Origen de aleta dorsal por detrás de aleta pectoral.
c. Aletas dorsales grandes del mismo tamaño.

Sphyrna zygaena
Cornada, martillo, prieta, blanca
Smooth hammerhead

a. Cabeza con hendidura en medio, 4 a los lados.
b. Aleta pélvica con borde recto.
c. Punta libre de 2da aleta dorsal separado del origen de aleta caudal.
d. Mancha oscura en borde de aleta caudal.

Trisopteron obesus
Aleta blanca
Whitely leaf shark

a. Cabeza chata, hocico corto.
b. Mancha blanca en aleta dorsal.
c. Algunas manchas oscuras en cuerpo.
d. Aleta dorsal grande, 2da aleta dorsal mediana.
e. Mancha blanca punta aleta caudal.

Carcharias albimarginatus
Punta blanca
Silvertip shark

a. Cabeza redonda, hocico largo.
b. Cresta interdorsal.
c. Borde marcadamente blanco en aletas dorsal, pectorales, pélvicas, anal y caudal.

Sphyrna mokarran
Cornada gigante
Great hammerhead

a. Cabeza recta, hendidura en medio.
b. Aleta dorsal muy larga.
c. Aleta anal con borde muy cóncavo.
d. 2da aleta dorsal alta y filiforme.

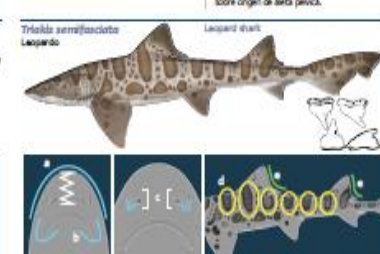
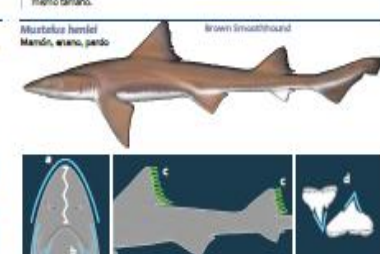
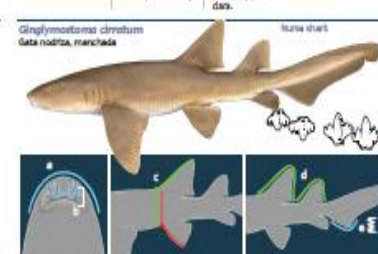
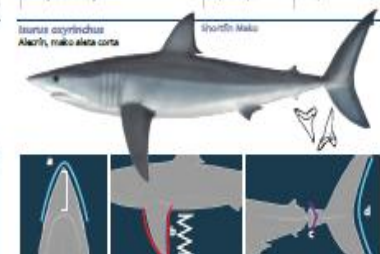
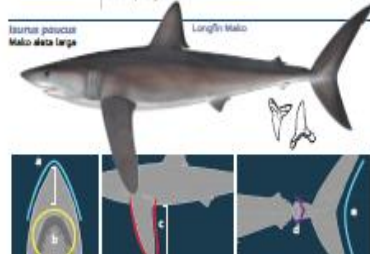
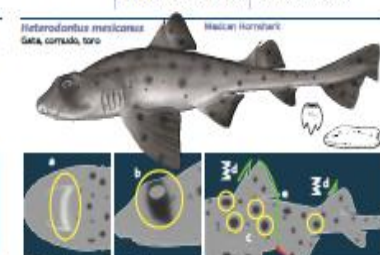
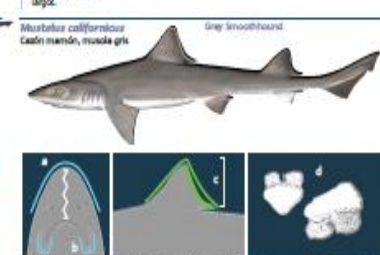
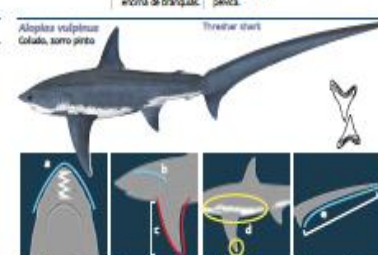
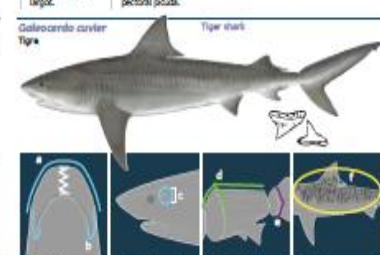
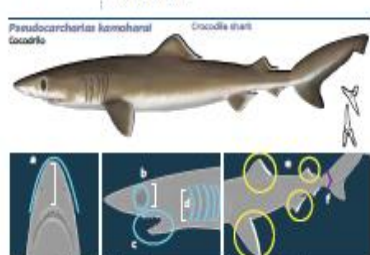
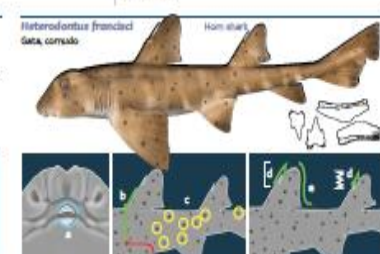
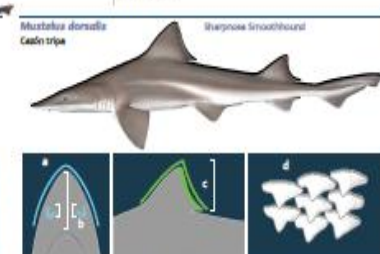
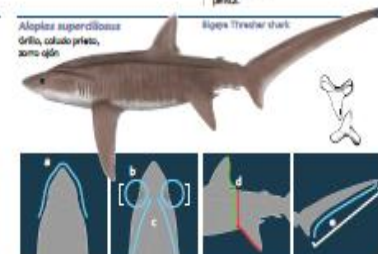
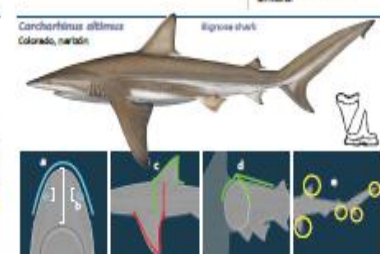
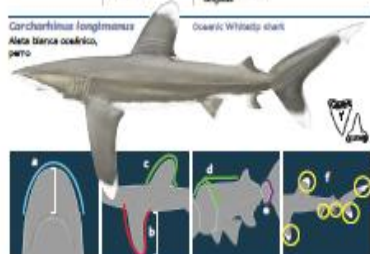
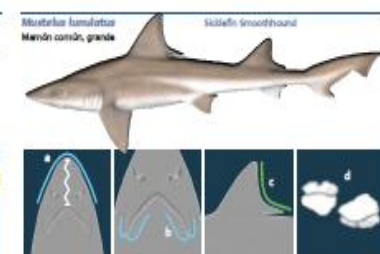
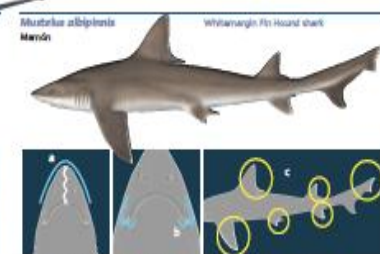
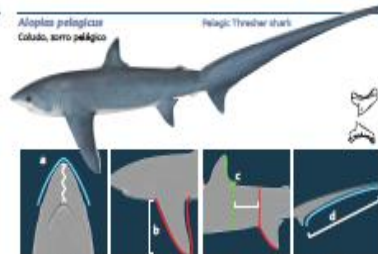
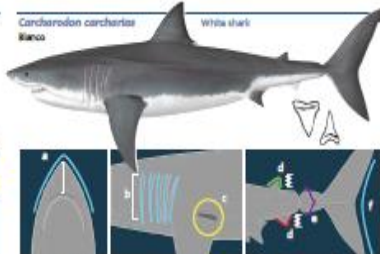
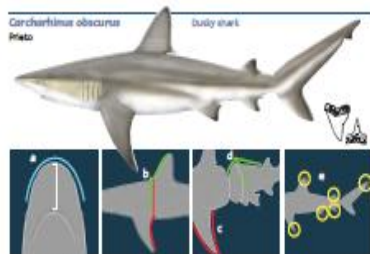
Megolomus velox
Coyote, pisco blanco, picudo fuscio
Whitenoise shark

a. Cabeza picuda, hocico largo.
b. Punta de hocico oscura con borde blanco.
c. Hocicos grandes y juntos.

Carcharias galapagensis
Galápagos
Galapagos shark

a. Cabeza chata, hocico largo.
b. Aleta dorsal mediana y su origen frente al Apice de aleta pectoral.
c. Aleta pectoral larga y filiforme.
d. Cresta interdorsal leve.

38-39 SPECIES PER GUIDE



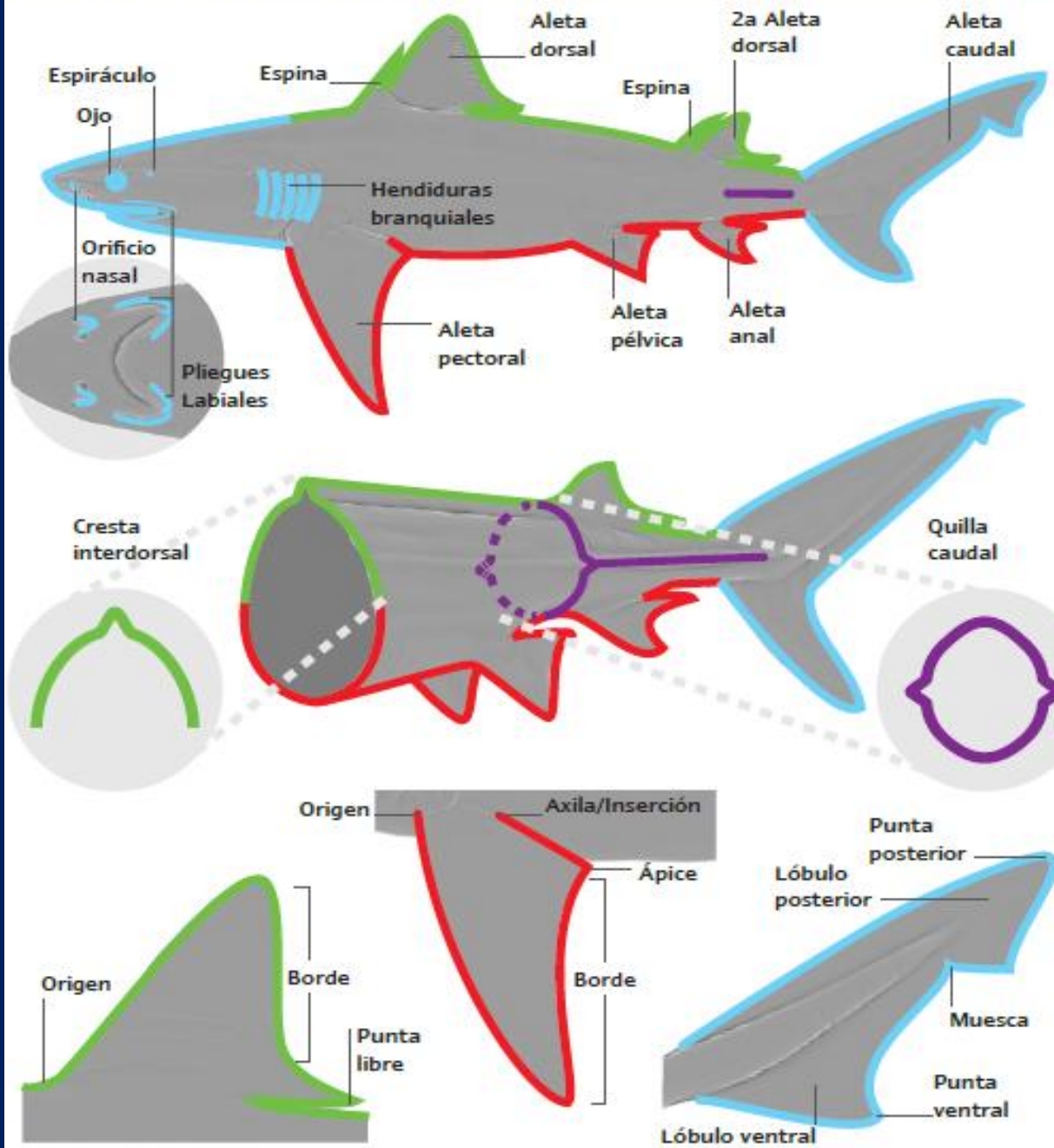
HIGH QUALITY ILLUSTRATIONS



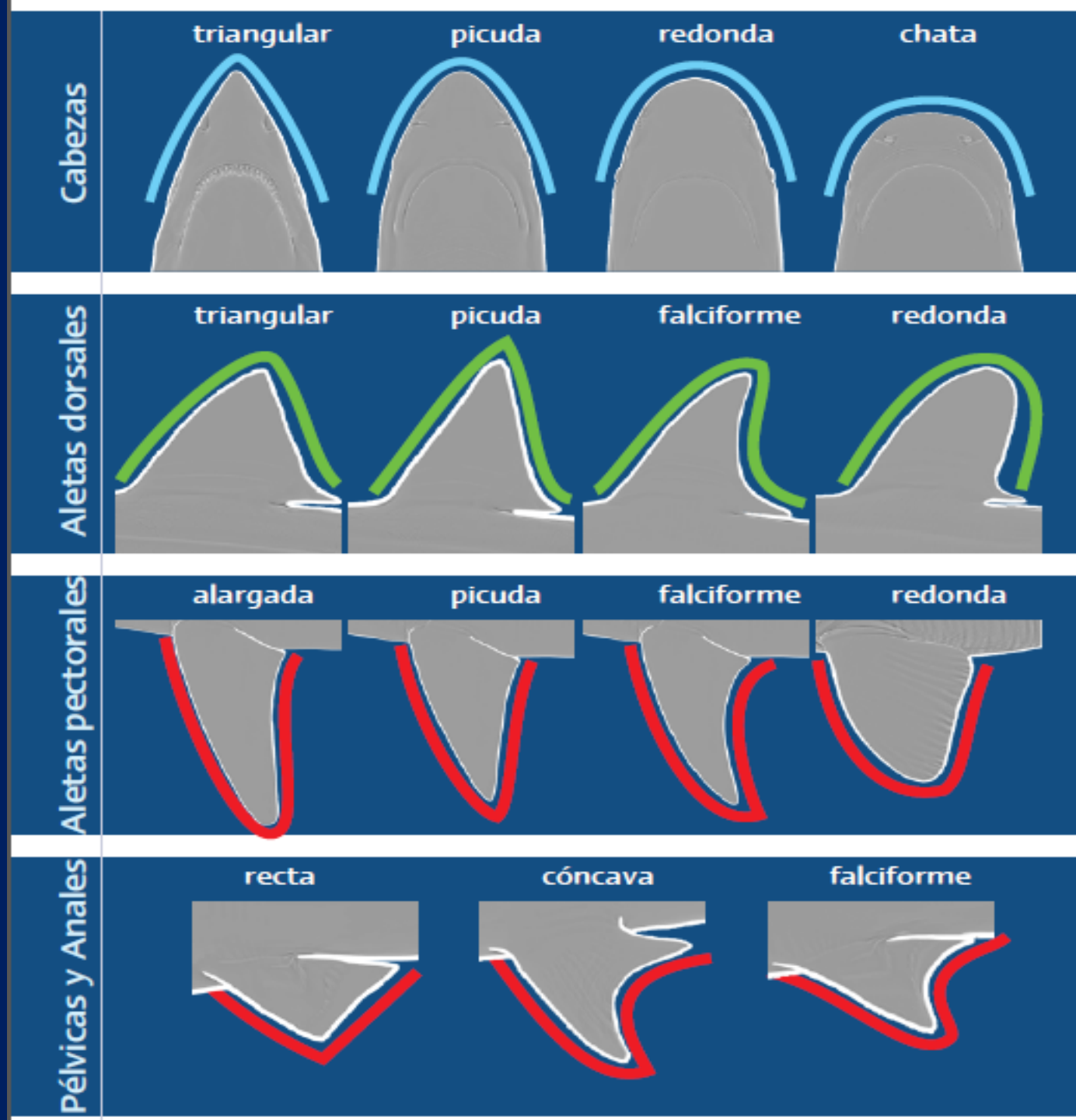
Partes del tiburón

INDICATION OF PARTS OF SHARKS

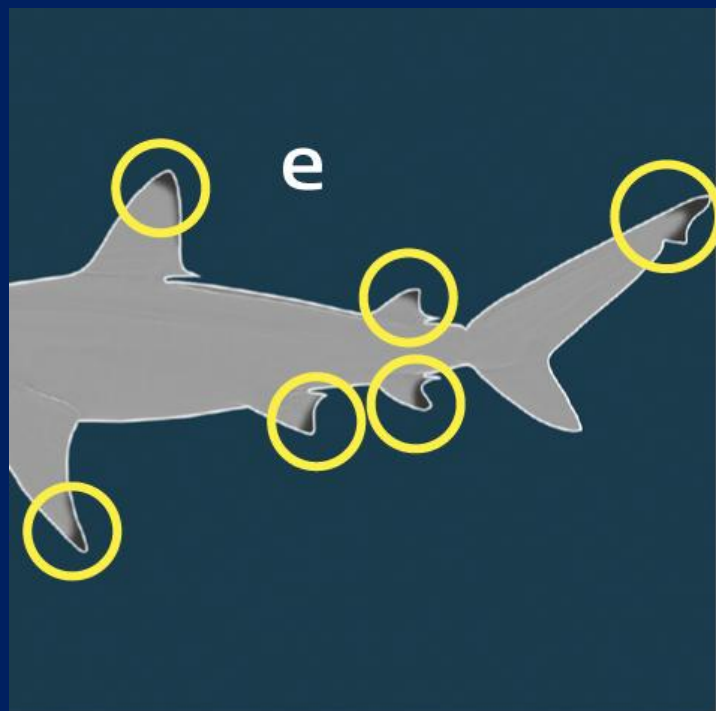
ZONES DIVIDED BY COLOR



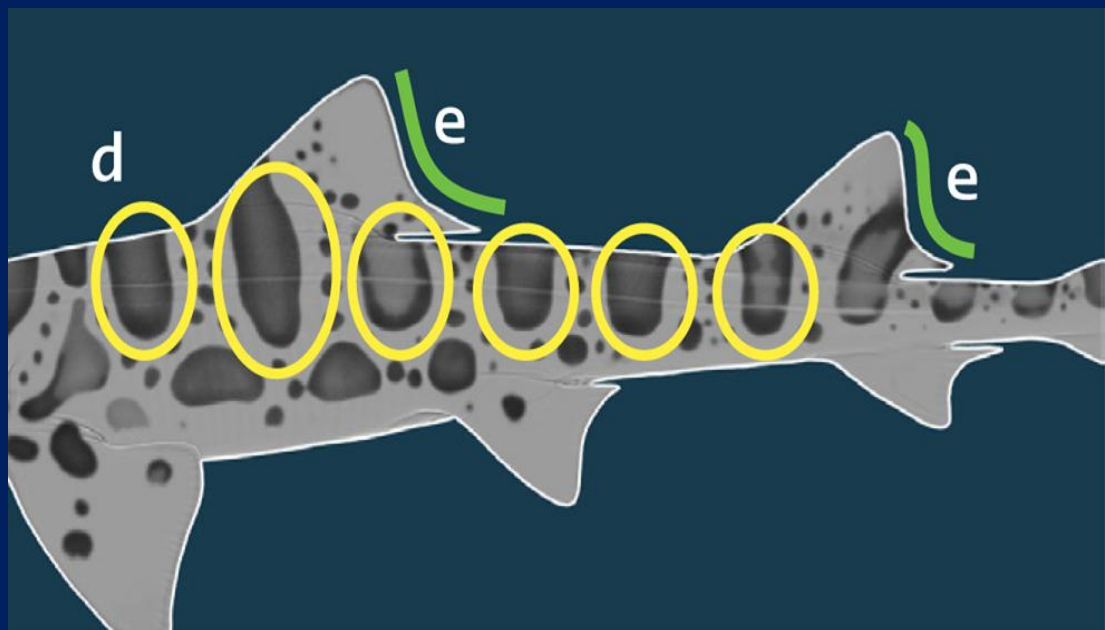
FORMS
OF
HEADS
AND FINS
ARE
COLOR
CODED



COLOR MARKINGS INDICATED BY YELLOW CIRCLES

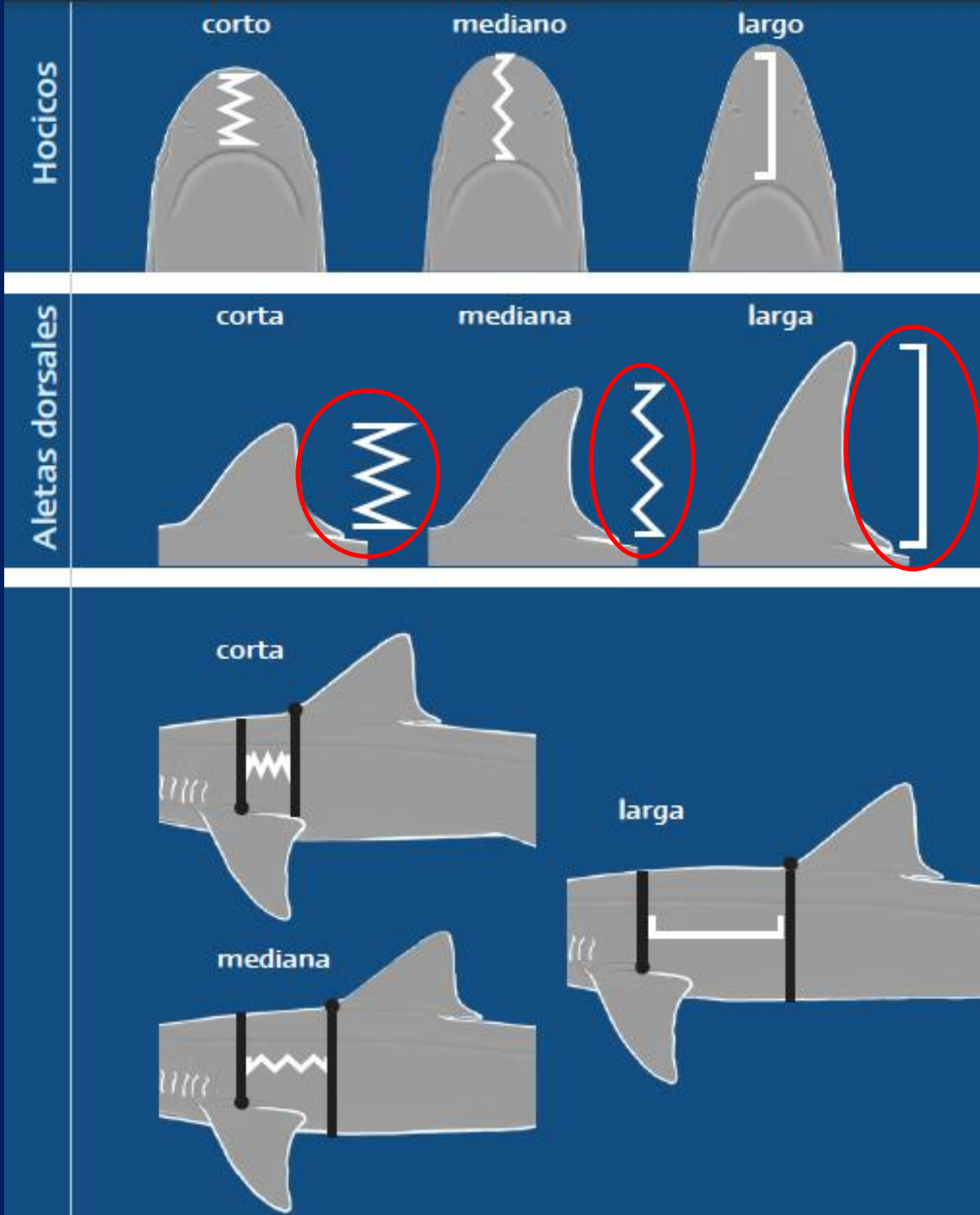


e. Puntas de aletas oscuras.

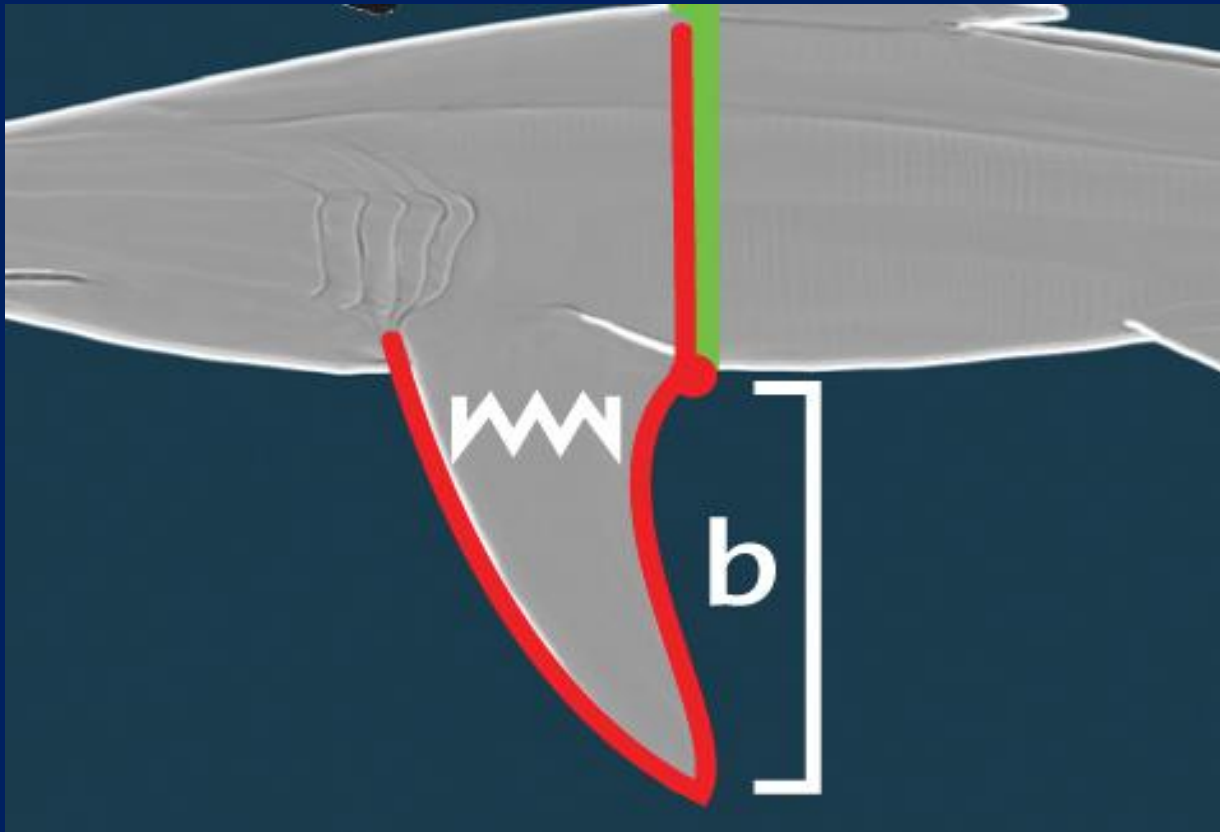


d. Manchas alargadas.

MEASUREMENTS THROUGH SYMBOLS

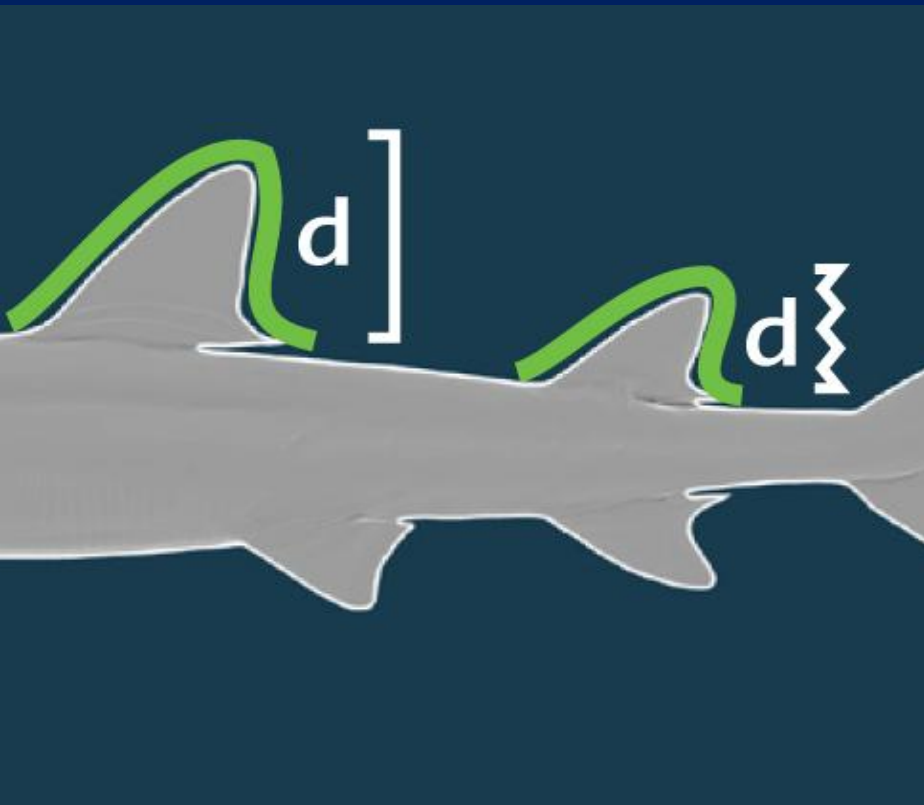


EXAMPLE OF MEASUREMENTS

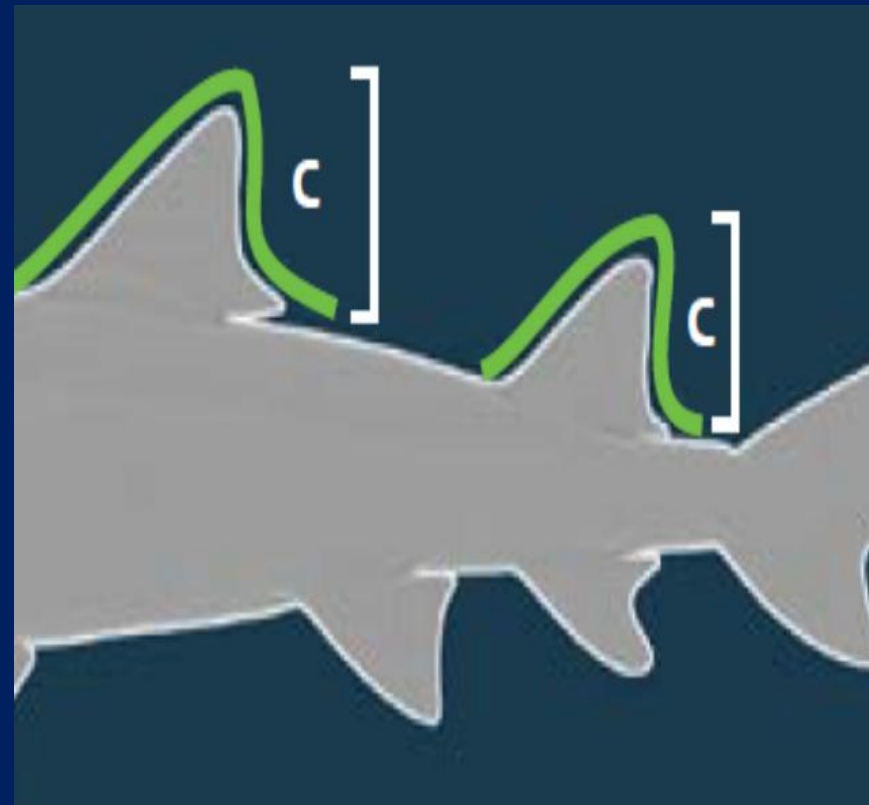


b. Aleta pectoral larga y angosta.

ANOTHER EXAMPLE OF MEASUREMENTS



d. Aleta dorsal grande, 2da aleta dorsal mediana.



c. Aletas dorsales grandes del mismo tamaño.

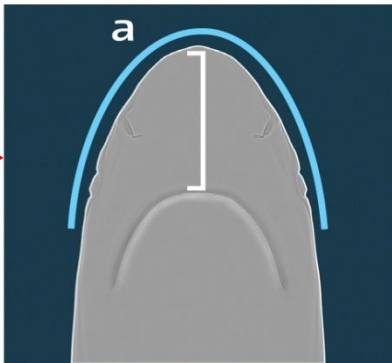
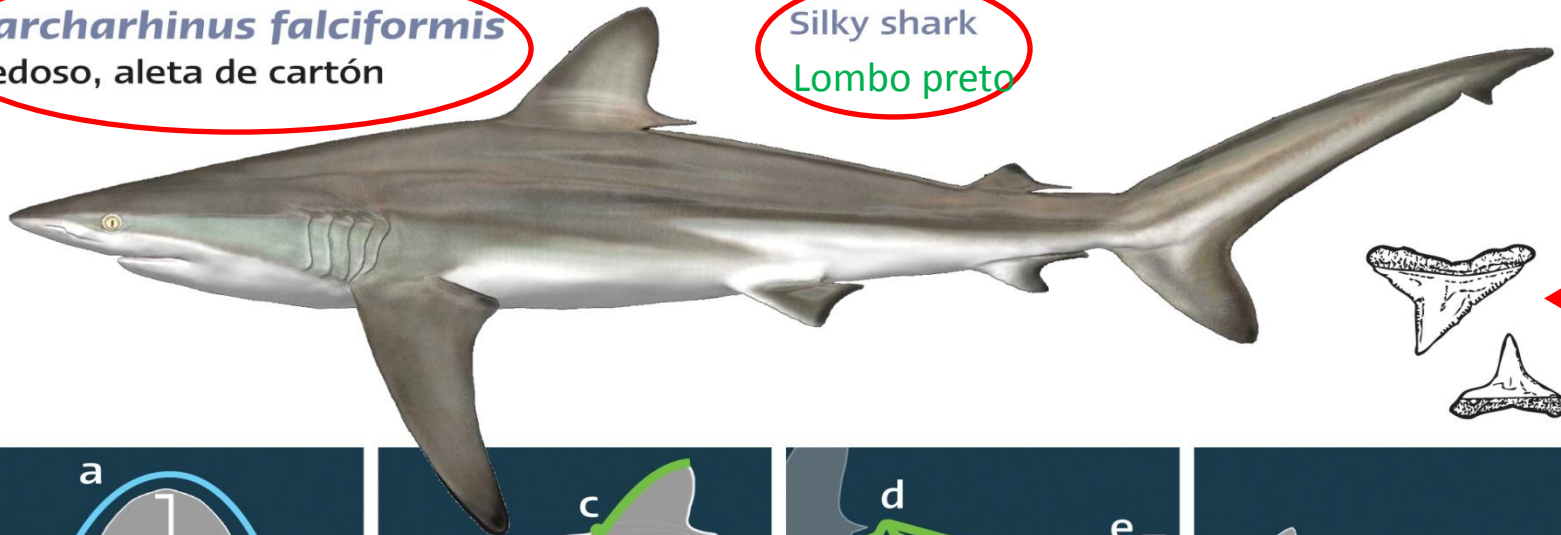
VISUAL GUIDE

Carcharhinus falciformis

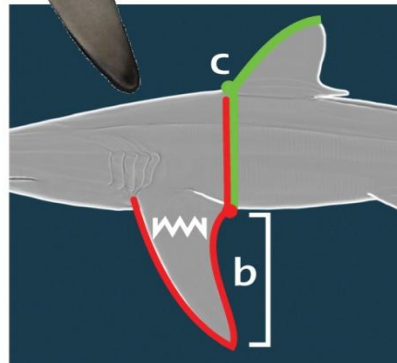
Sedoso, aleta de cartón

Silky shark

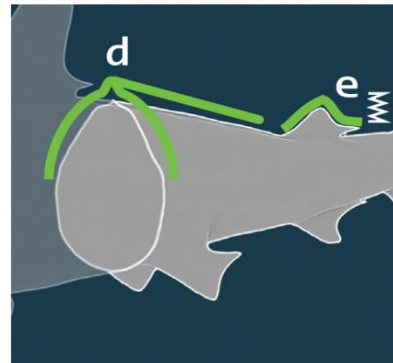
Lombo preto



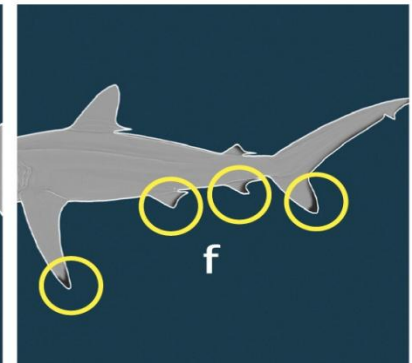
a. Cabeza redonda y hocico largo.



b. Aleta pectoral larga y angosta.
c. Origen de aleta dorsal detrás de aleta pectoral.



d. Cresta interdorsal.
e. 2da aleta dorsal pequeña.

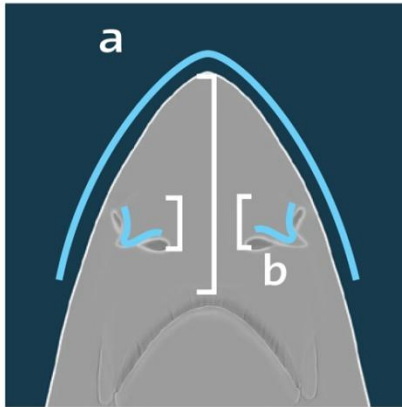


f. Manchas oscuras en puntas de aletas.

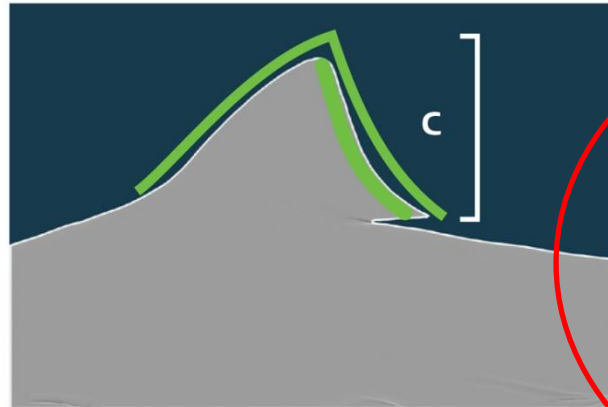
Mustelus dorsalis

Cazón tripa

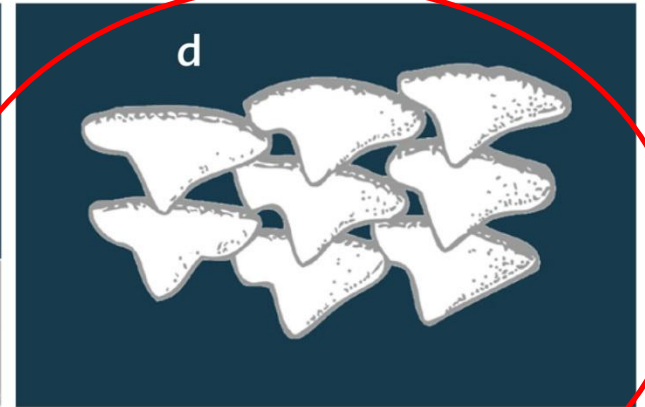
Sharpnose Smoothhound



a. Cabeza picuda, hocico largo.
b. Pliegues nasales largos.



c. Aleta dorsal grande triangular con borde no deshilachado.

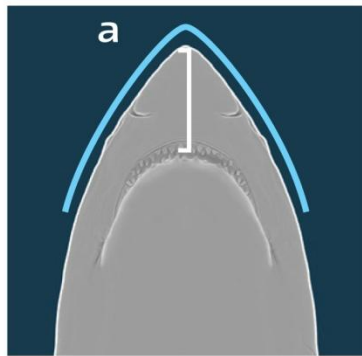
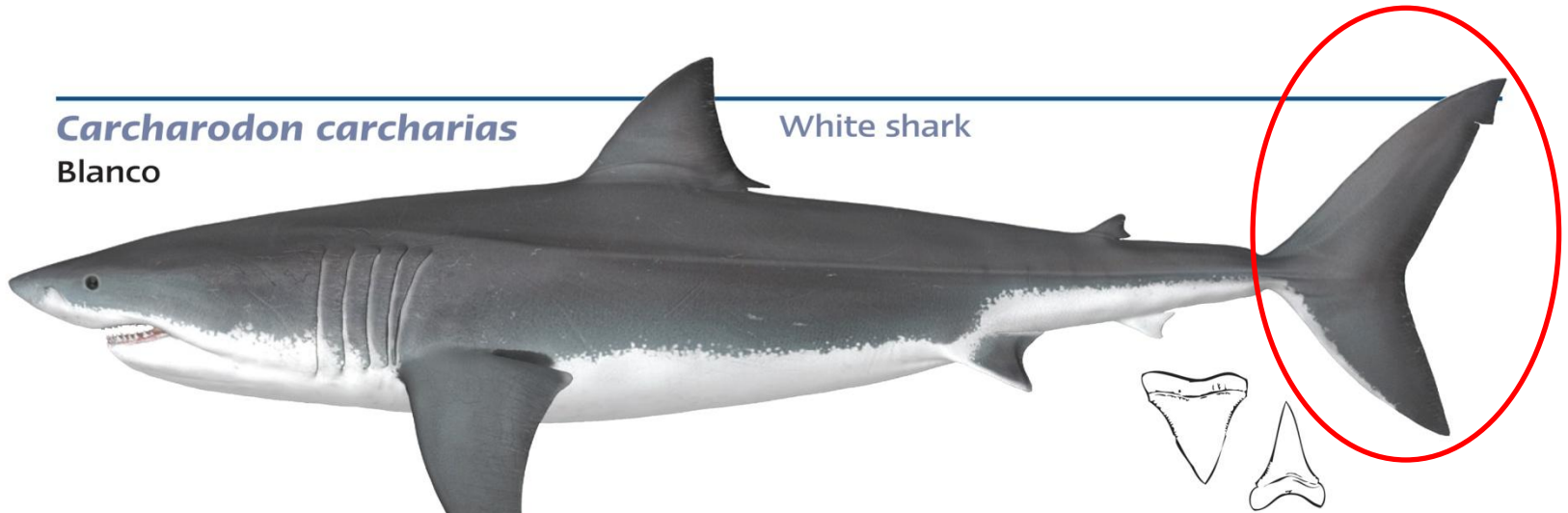


d. Dientes en forma de empedrado.

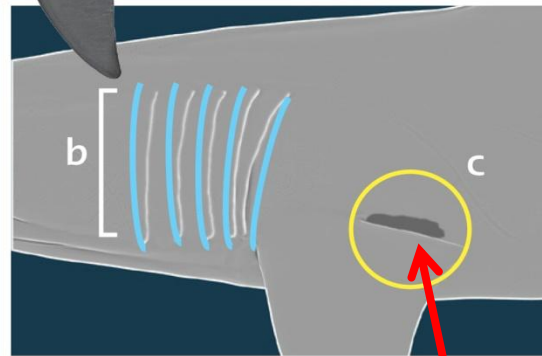
Carcharodon carcharias

Carcharodon carcharias
Blanco

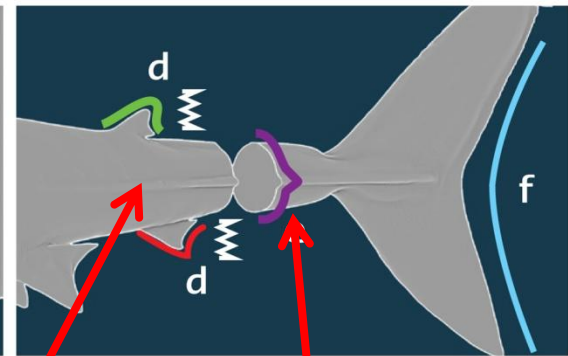
White shark



a. Cabeza triangular, hocico largo.



b. Branquias grandes.
c. Mancha oscura en axila.

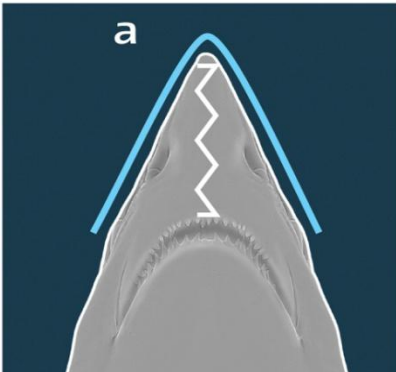
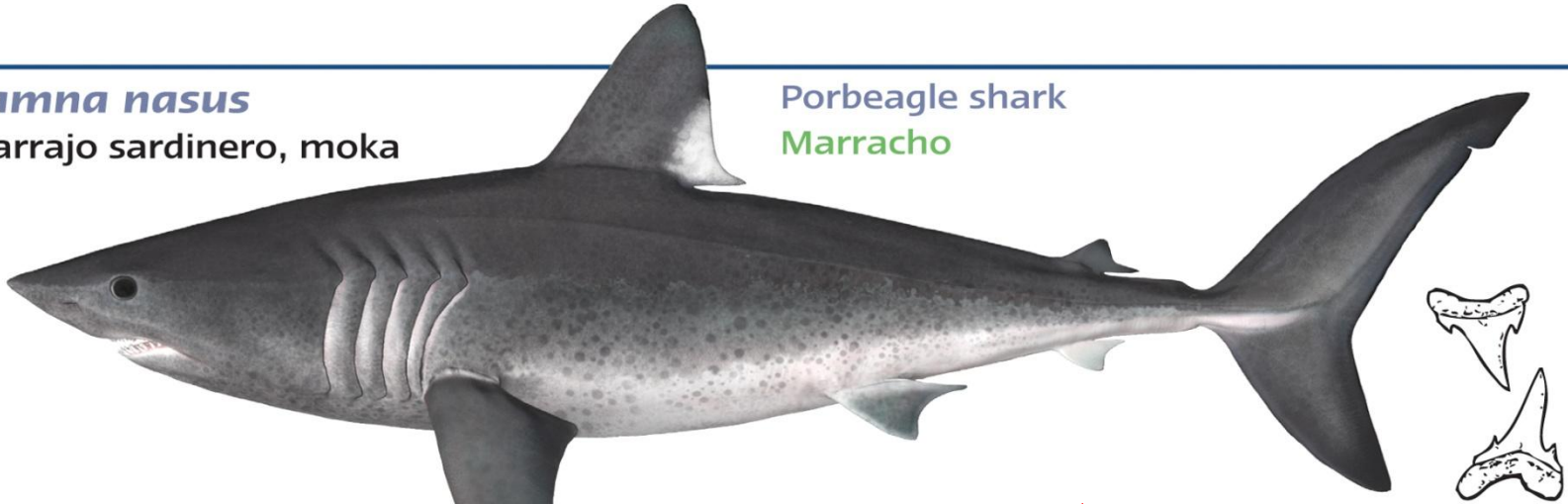


d. 2da aleta dorsal y anal pequeñas.
e. Quilla caudal.
f. Aleta caudal en forma de semiluna.

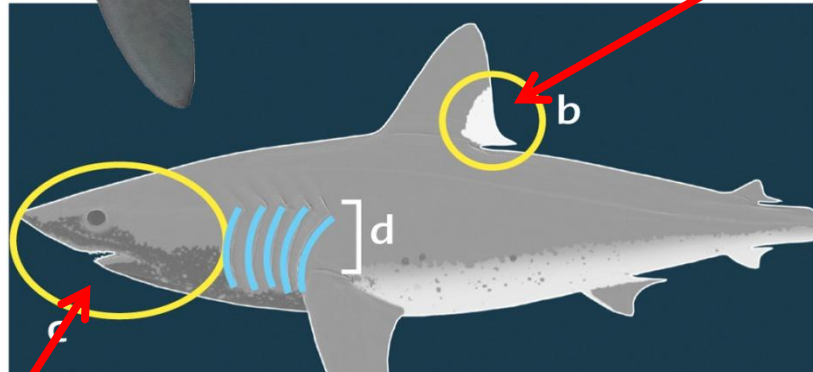
Lamna nasus

Lamna nasus
Marrajo sardinero, moka

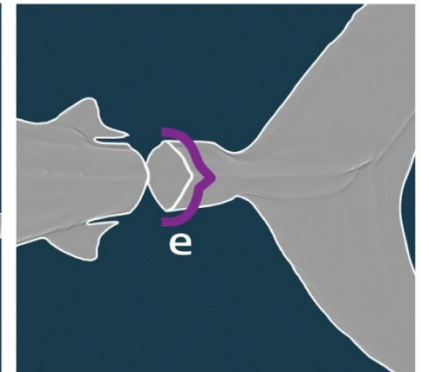
Porbeagle shark
Marracho



a. Cabeza triangular, hocico mediano.



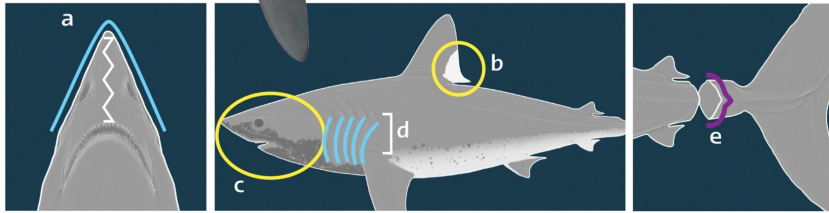
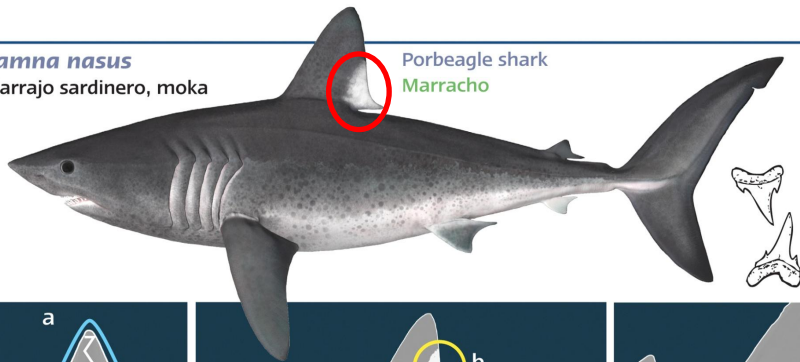
b. Mancha blanca en punta libre de aleta dorsal.
c. Cabeza y partes inferiores oscuras.
d. Branquias grandes.



e. Quilla caudal.

Lamna nasus
Marrajo sardinero, moka

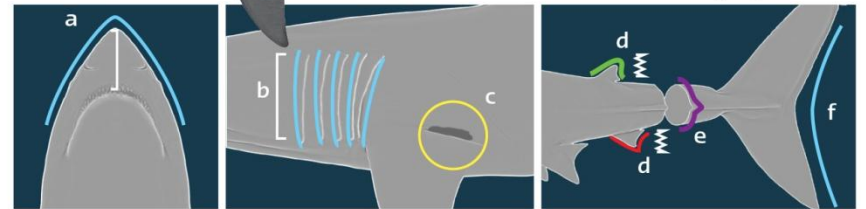
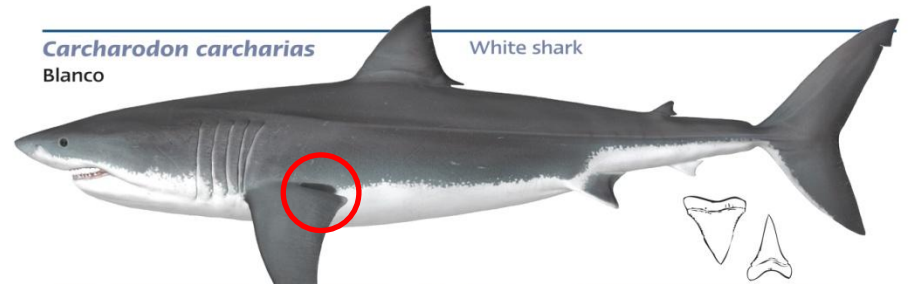
Porbeagle shark
Marracho



- a. Cabeza triangular, hocico mediano.
- b. Mancha blanca en punta libre de aleta dorsal.
- c. Cabeza y partes inferiores oscuras.
- d. Branquias grandes.
- e. Quilla caudal.

Carcharodon carcharias
Blanco

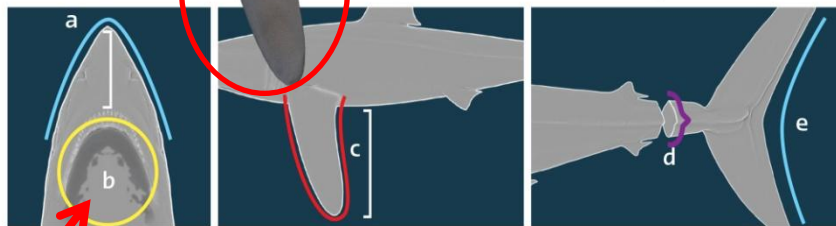
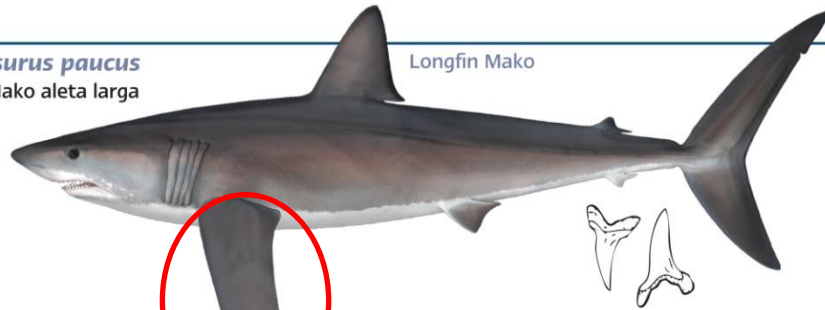
White shark



- a. Cabeza triangular, hocico largo.
- b. Branquias grandes.
- c. Mancha oscura en axila.
- d. 2da aleta dorsal y anal pequeñas.
- e. Quilla caudal.
- f. Aleta caudal en forma de semiluna.

Isurus paucus
Mako aleta larga

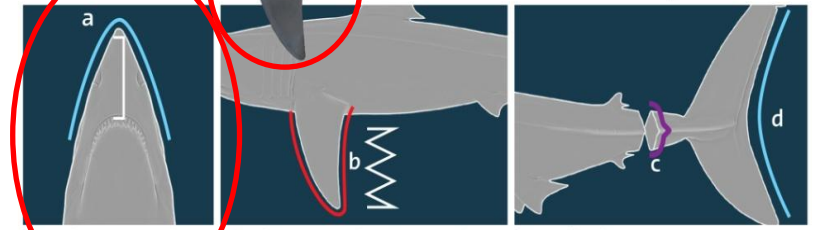
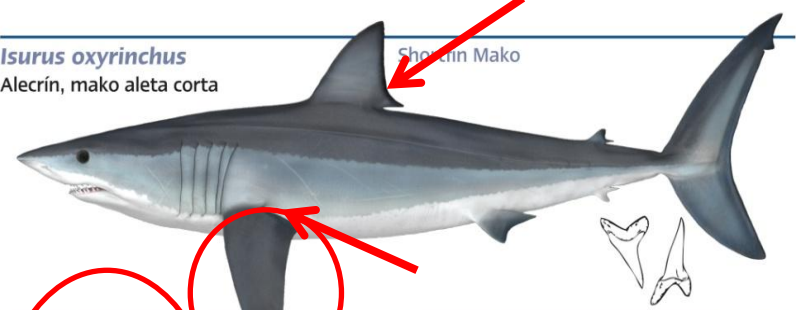
Longfin Mako



- a. Cabeza triangular, hocico largo.
- b. Mancha oscura alrededor de boca.
- c. Aleta pectoral larga y redonda.
- d. Quilla alta.
- e. Aleta caudal en forma de semiluna.

Isurus oxyrinchus
Alecrin, mako aleta corta

Shortfin Mako



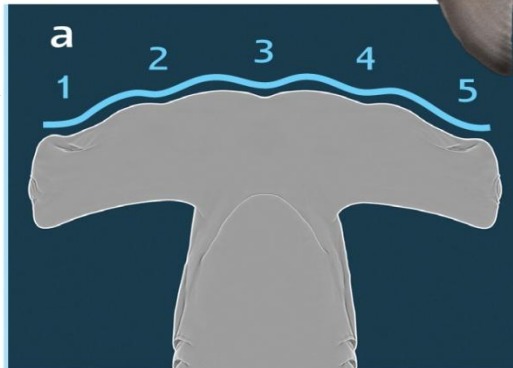
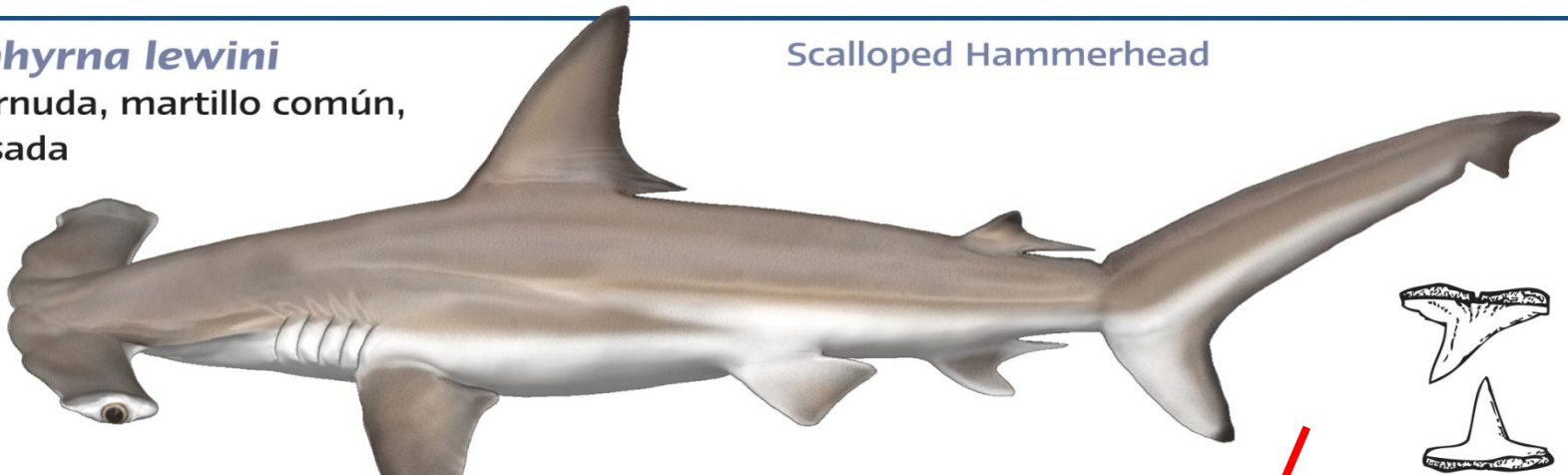
- a. Cabeza triangular y hocico largo.
- b. Aleta pectoral corta y picuda.
- c. Quilla alta.
- d. Aleta caudal en forma de semiluna.

Sphyrna lewini

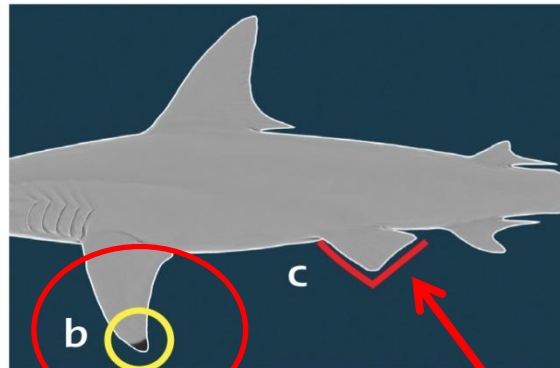
Sphyrna lewini

Cornuda, martillo común,
rosada

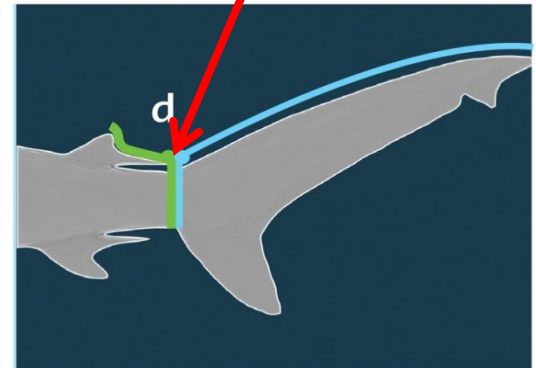
Scalloped Hammerhead



a. Cabeza con 5 hendiduras.



b. Aleta pectoral con mancha oscura en la punta.
c. Aleta pélvica con borde recto.



d. Punta libre de 2da aleta dorsal muy cerca del origen de aleta caudal.

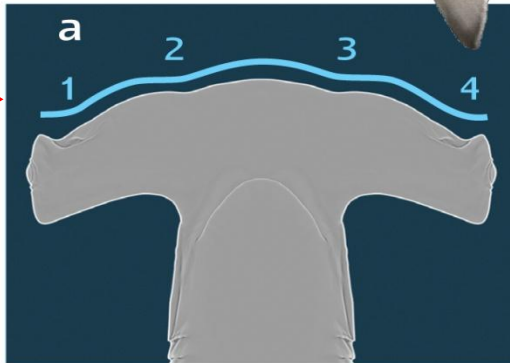
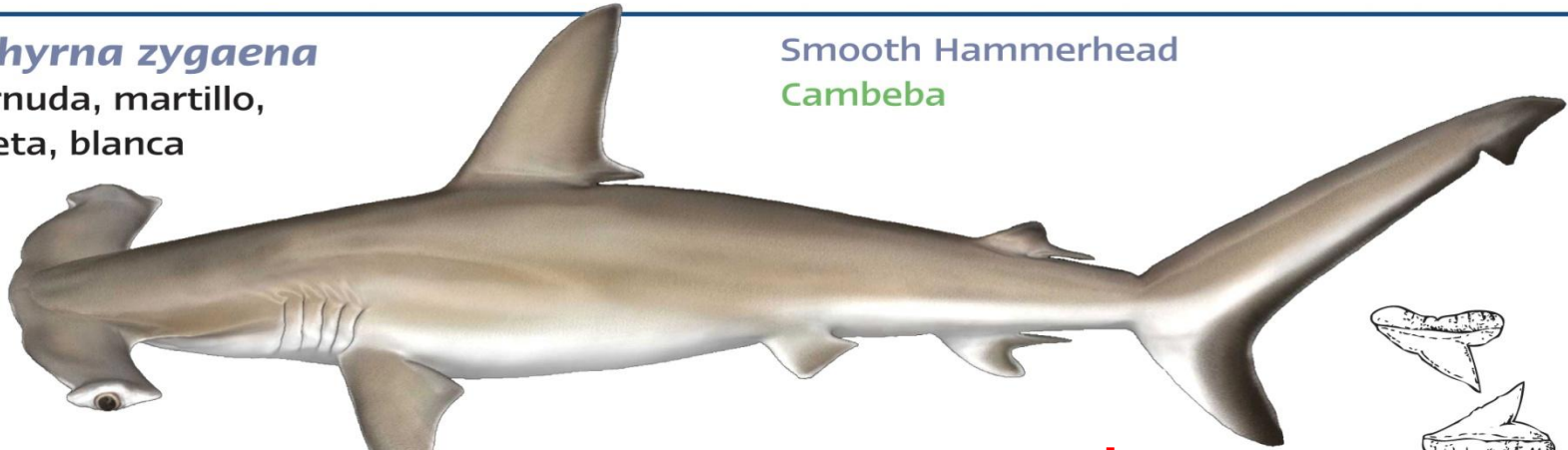
Sphyrna zygaena

Sphyrna zygaena

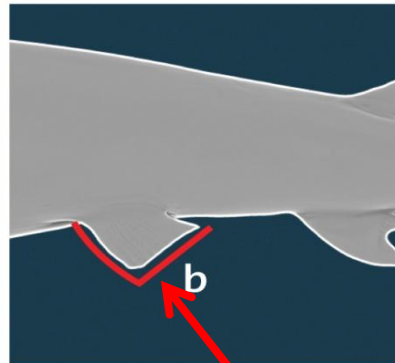
Cornuda, martillo,
prieta, blanca

Smooth Hammerhead

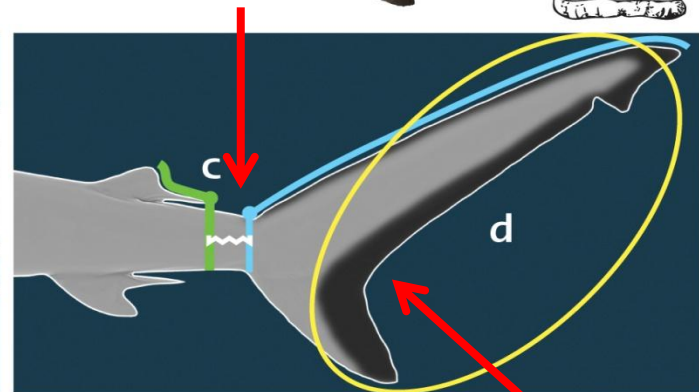
Cambeba



a. Cabeza sin hendidura en medio, 4 a los lados.



b. Aleta pélvica con borde recto.

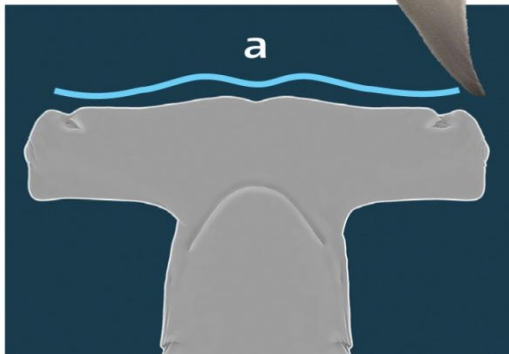
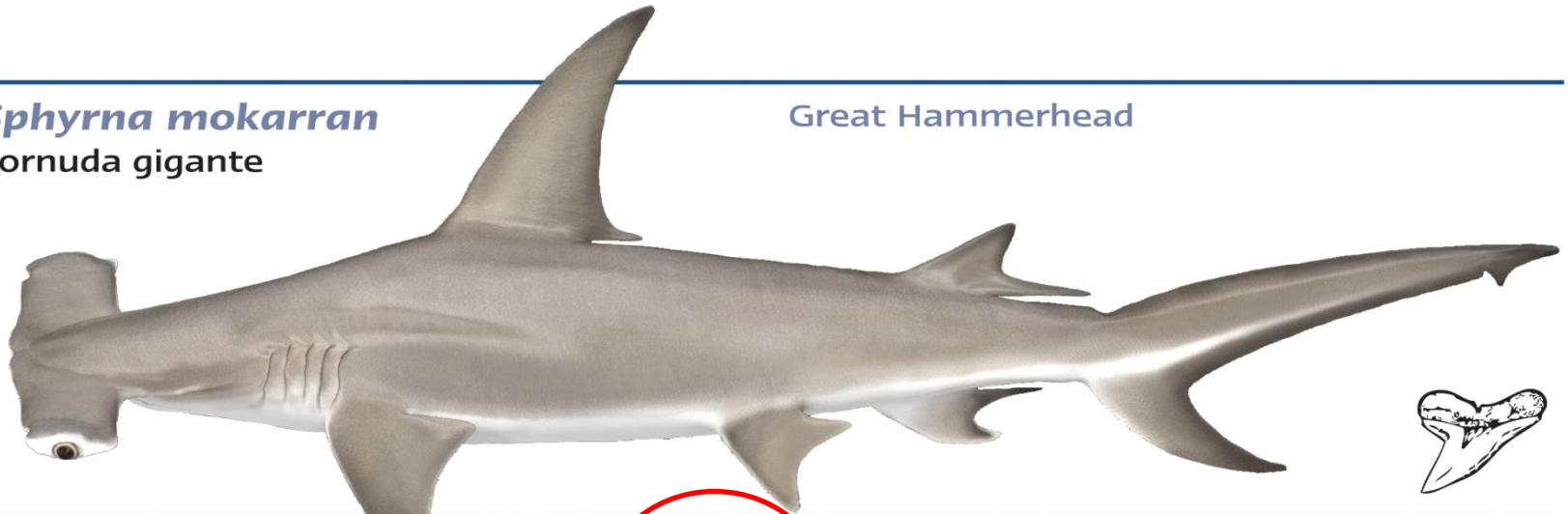


c. Punta libre de 2da aleta dorsal separado del origen de aleta caudal.
d. Mancha oscura en borde de aleta caudal.

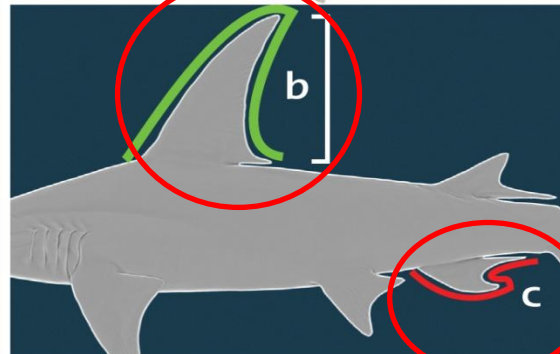
Sphyrna mokarran

Sphyrna mokarran
Cornuda gigante

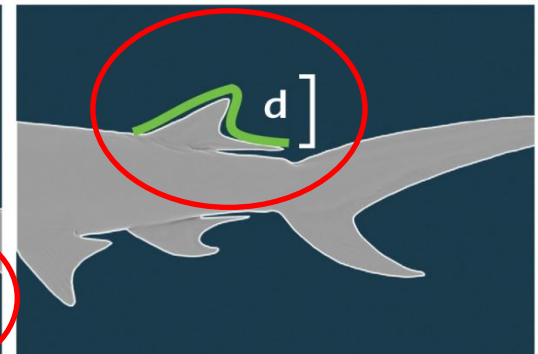
Great Hammerhead



a. Cabeza recta, hendidura en medio.



b. Aleta dorsal muy larga.
c. Aleta anal con borde muy cóncavo.



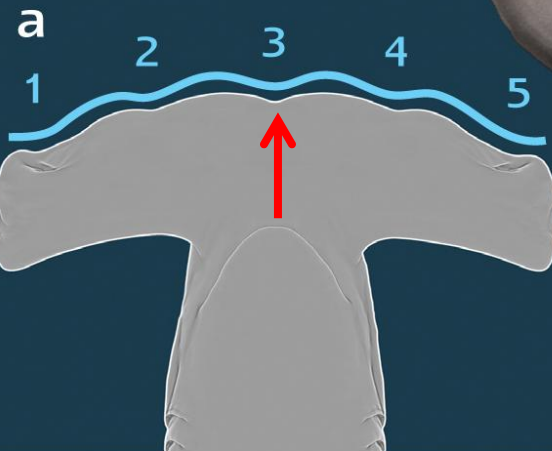
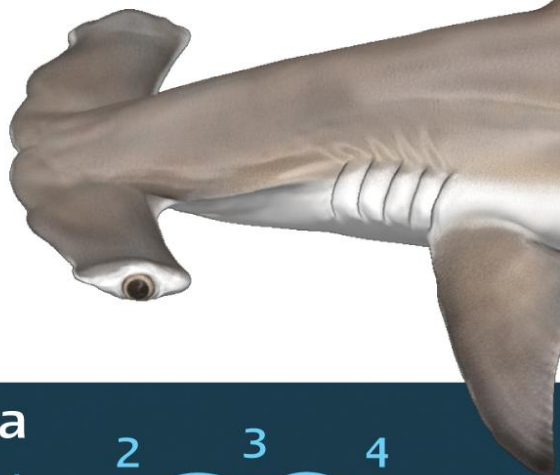
d. 2da aleta dorsal alta y falciforme.

Difference of the three species of Sphyrna in CITES

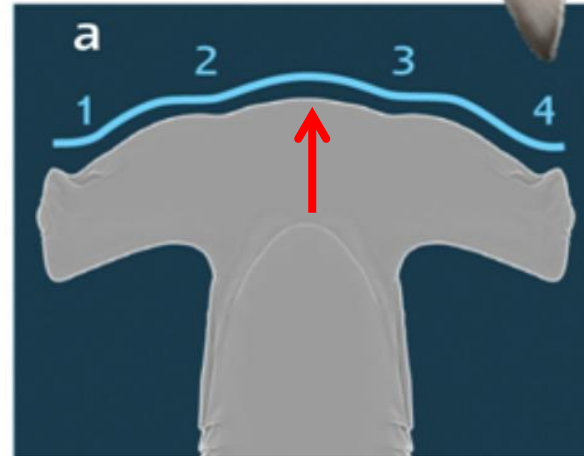
Sphyrna lewini

Sphyrna zygaena

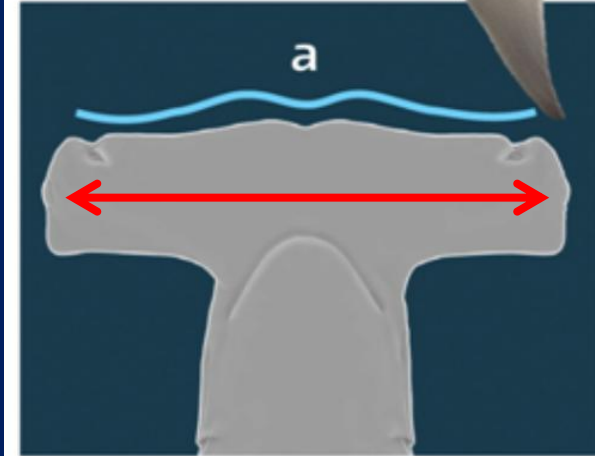
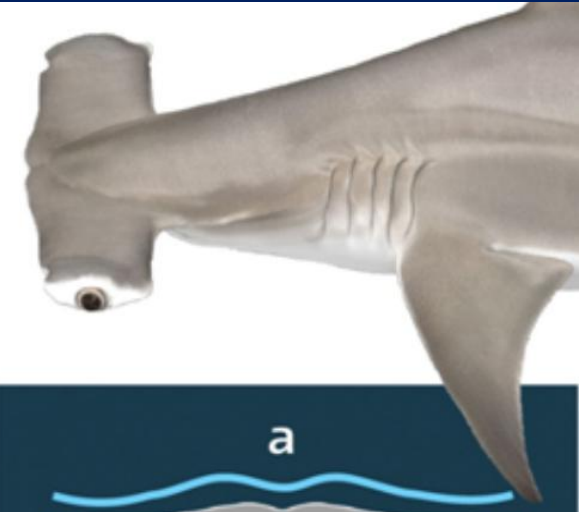
S. mokarran



a. Cabeza con 5 hendiduras.



a. Cabeza sin hendidura en medio, 4 a los lados.

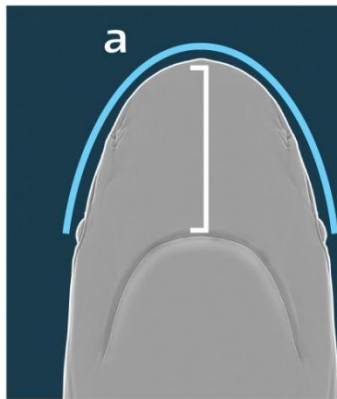
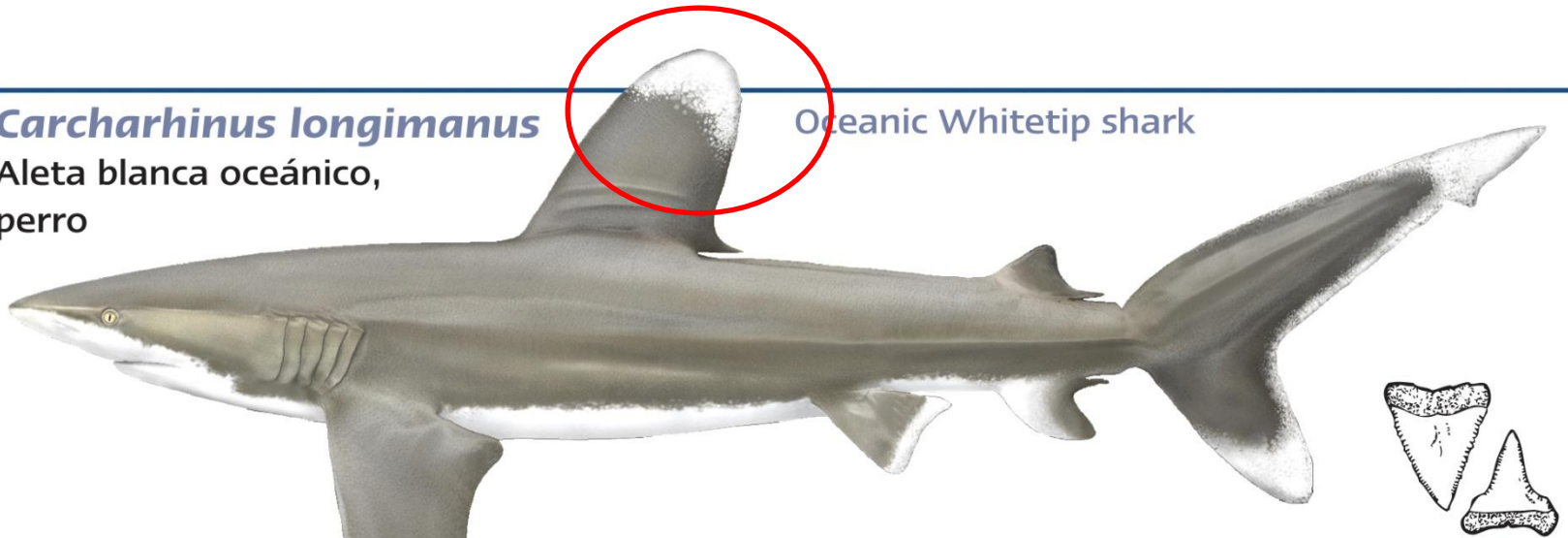


a. Cabeza recta, hendidura en medio.

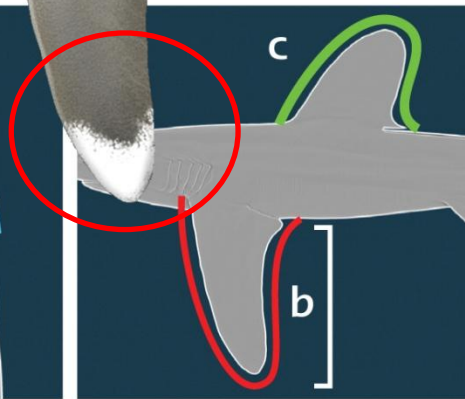
Carcharhinus longimanus

Aleta blanca oceánico,
perro

Oceanic Whitetip shark

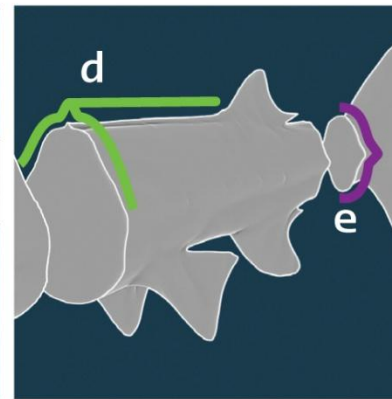


a. Cabeza redonda y hocico largo.



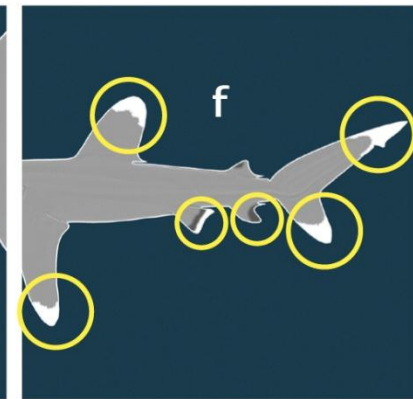
b. Aleta pectoral grande redonda.

c. Aleta dorsal redonda.



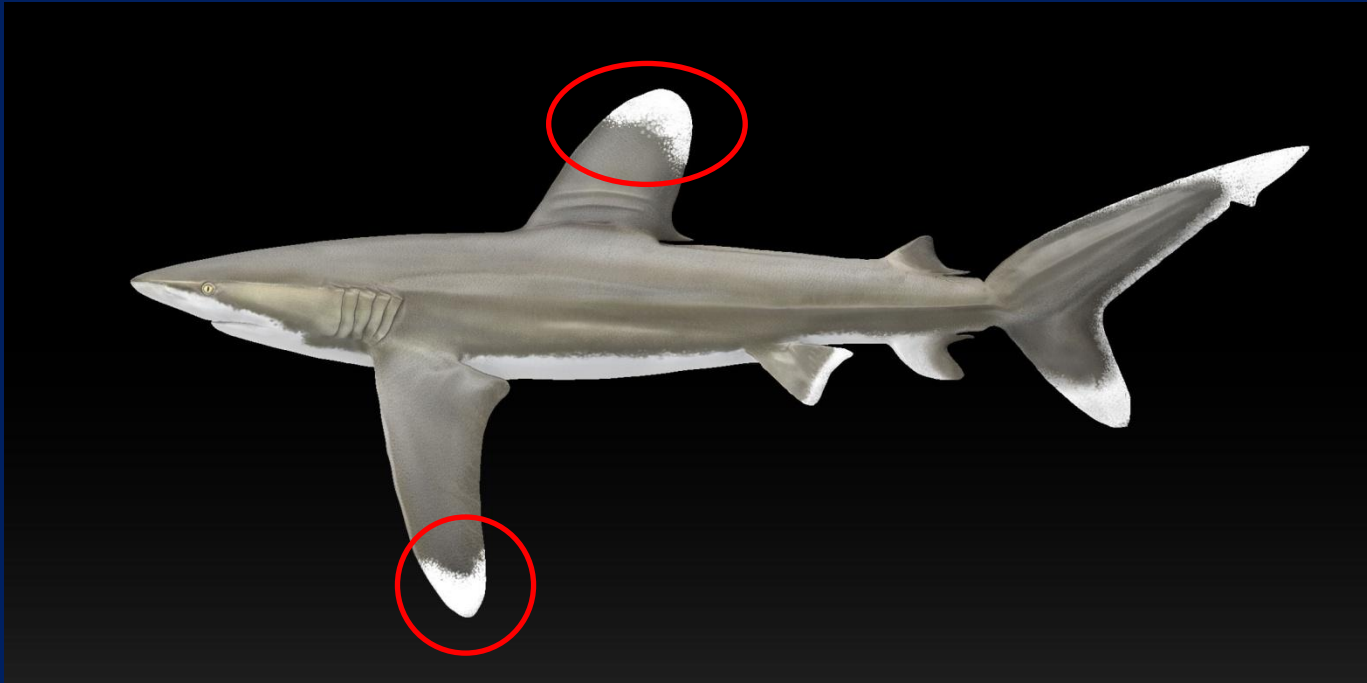
d. Cresta interdorsal.

e. Quilla baja.

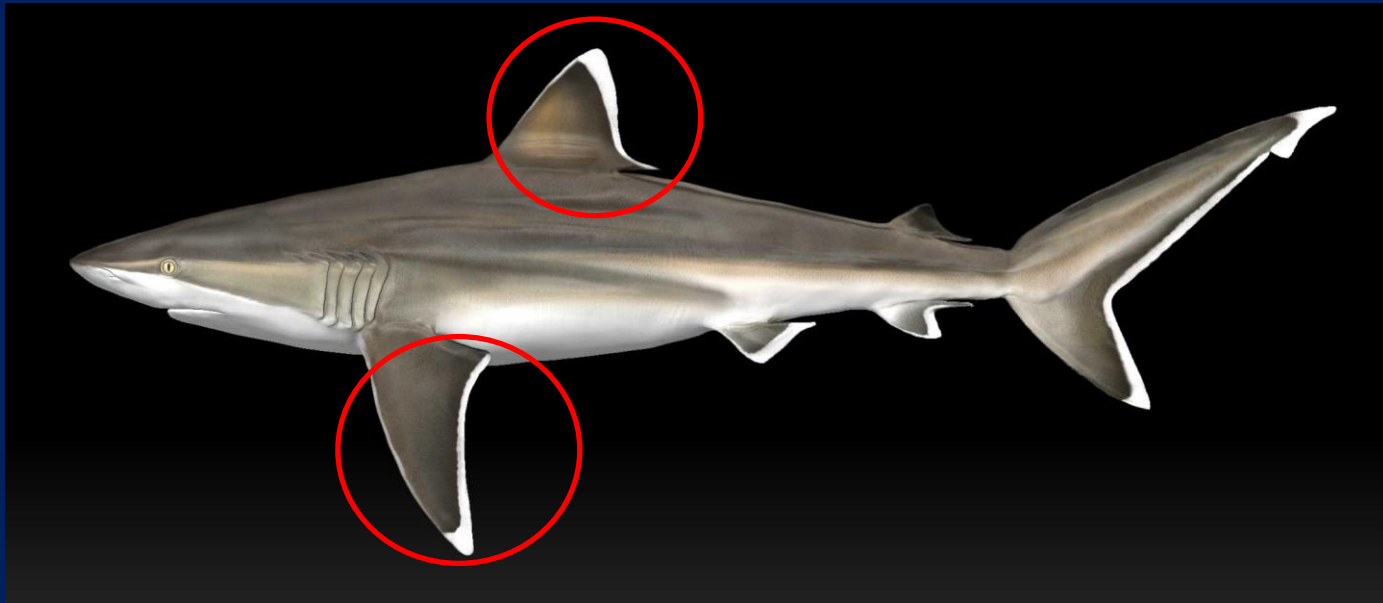


f. Manchas blancas grandes en aletas.

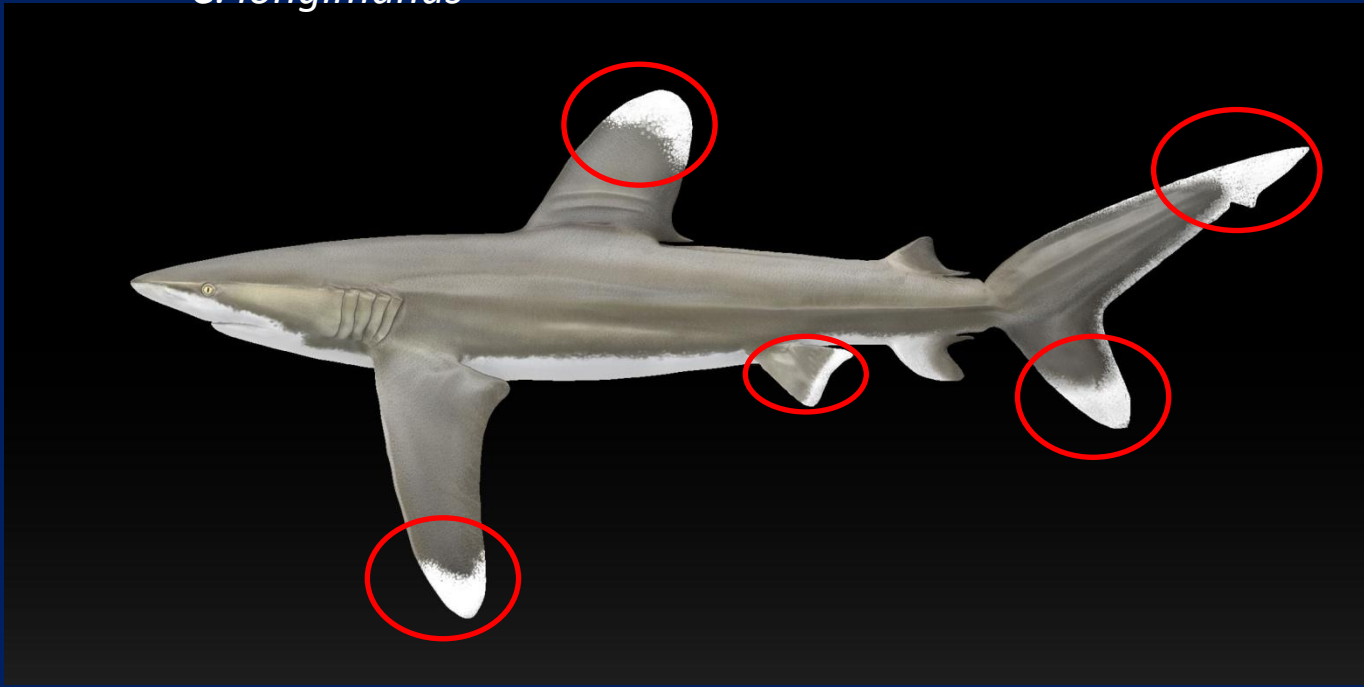
Carcharhinus longimanus



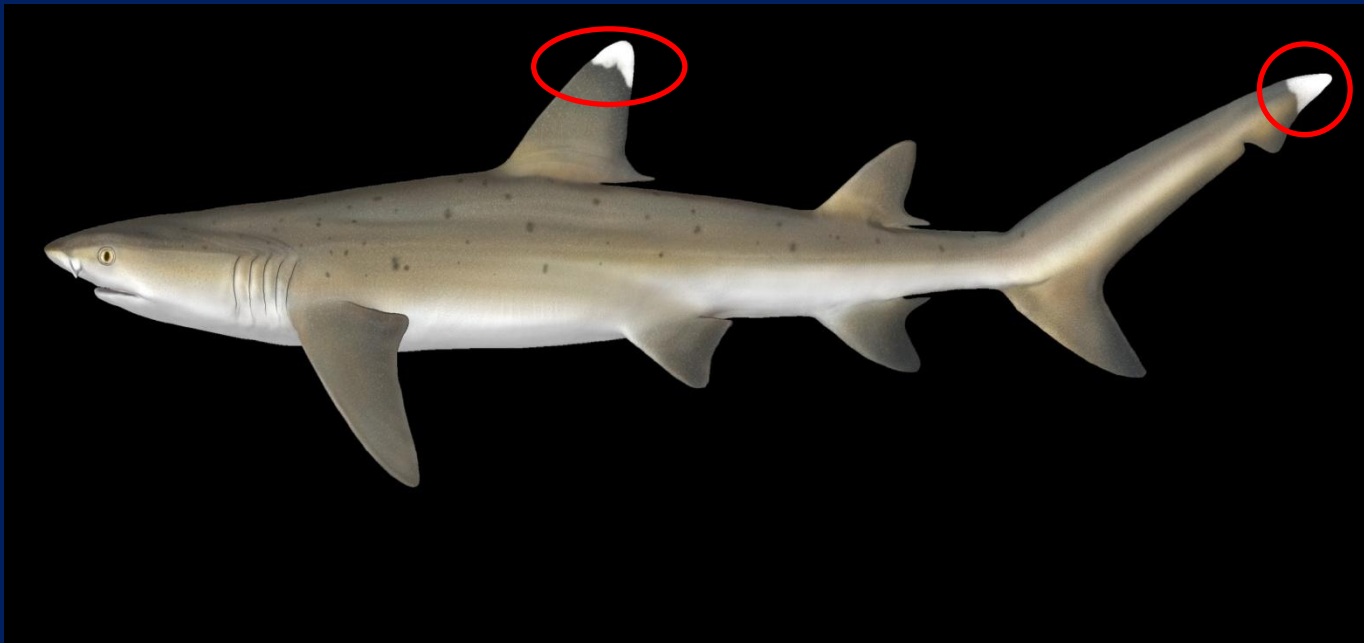
Carcharhinus albimarginatus



C. longimanus



Triaenodon obesus



jccantu@defenders.org



¡THANKS!