

表層延繩釣漁業捕獲 海洋物種辨識手冊

Taiwanese / English
version



Marine species
identification manual
for horizontal longline
fishermen





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由

Lindsay Chapman, Peter Sharples, Deirdre Brogan,
Aymeric Desurmont, Steve Beverly et William Sokimi

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WESTERN
PACIFIC
REGIONAL
FISHERY
MANAGEMENT
COUNCIL



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本手冊大部分原始繪圖由Les Hata先生製作，Rachel O'Shea小姐協助部分魚種繪圖著色，Youngmi Choi小姐負責封面設計、海鳥與海洋哺乳類彩色圖解、內文格式及版面編排，Angela Templeton小姐負責本手冊審編，法文版翻譯由南太平洋共同體翻譯及口譯部門負責。

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Most of the original artwork was produced by Mr Les Hata, with Ms Rachel O'Shea painting several species. Cover design, seabird and mammal colour diagrams, formatting and layout were done by Ms Youngmi Choi. The manual was edited by Ms Angela Templeton.

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導論

有鑑於國際社會日益重視海洋資源管理，為使漁業管理更臻完善，科學家及管理者必須獲取所有漁業捕獲物種的正確資料。因此，對資源使用者能提供相關資訊的需求日益增加。

所有對漁業生態系統的研究，例如需考量對所有物種的漁撈衝擊或彼此間相互影響。因此，希望在中西太平洋區域中，延繩釣漁業能提供所捕獲物種的完整資訊，以便作為將來管理決策的基礎。

本手冊的主要目的為改善和提高漁獲資料的精確性，而這些漁獲資料是透過在太平洋海域作業的漁民所填報的漁獲和努力量之漁撈日誌來提供。本手冊將協助漁民能夠更準確地鑑定其漁獲的物種，或辨識先前無法紀錄的物種。這些無法辨識的物種主要是由於先前漁民不知道如何辨識漁獲物種的品種，或認為其為不相關或不重要的物種。

為便於使用，本手冊共分為10個部分。每部分的起始頁會詳列該種物種的學名、FAO英文物種名稱和法語名稱，並列出FAO物種代碼，以供漁民填寫漁撈日誌使用。每個種群中，同種的相似物種會呈現於相對頁面或反面頁中，以便容易辨別比較。

大多數頁面，包含彩色的物種圖片，並用標線標示該物種之英文和法語外部特徵說明。在某些鯊魚類，會繪出其牙齒特徵，作為該物種額外之辨別特徵。每一頁的上方顯示該物種的學名和FAO代碼。每頁的左下方的表格，會列出該物種英文、法文、日文和夏威夷當地(如果已知)的名稱，並留一空格供漁民填寫每個物種的當地名稱。

作者嘗試將所有可能被丟棄或不被記錄的鮮為人知之物種都包含在本辨識手冊中，以便這些物種可以被漁民識別並記錄。這些物種也是整個延繩釣作業所有漁獲物中重要的一部分。

INTRODUCTION

There is an increasing international focus on better management of the world's marine resources. To enable better management of fisheries, scientists and managers require accurate data from each fishery on all the species that are interacted with, and not just on the target species. There are thus growing expectations and requirements on resource users to provide such information.

All of this underpins the application of the ecosystem approach to fisheries, i.e. to take account of the impact of fishing on all species taken or interacted with. In the Western and Central Pacific Ocean, the hope is to provide complete data on all species taken in longline fisheries, to inform future management decisions.

The overall aim of this manual is to improve and increase the amount and accuracy of catch data provided by domestic tuna longline fishermen in the Pacific region when they complete their catch and effort logsheet. This manual will enable fishermen to more accurately identify the fish they catch and to record species previously not recorded because fishermen did not know what they were, or considered them insignificant or irrelevant.

The manual is presented in 10 tabbed sections for ease of use. Each section starts with a list of the species covered in the section with the scientific, standard FAO English and French names, and the FAO species code to be used by fishermen when completing their logsheets. Within each species group, similar species have been presented on opposite pages, or over the page, to make identification easier.

Most pages include a colour representation of the species and a line diagram of the species with external identifiers marked in English and French. In the case of some shark species, the teeth have been drawn as an additional identifier for that species. At the top of each page is the scientific name of

單獨列出包括海龜、海鳥、齒鯨和海豚類，其與捕獲鮪類和劍旗魚的延繩釣間相互關係，越來越受到國際關注。故所有漁民能準確的辨識物種，並將之相互作用記錄於漁撈日誌，對兩者間關係的研究是很重要的。

第9部分為魚體咬食，說明魚體可以被鯊魚、齒鯨類、海鳥或魷魚造成損害。並鼓勵漁民在漁撈日誌中，記錄這類相關資訊，包括魚體被咬食的數量。

最後一部分為介紹在太平洋海域，延繩釣業者所常購買和使用的主要餌料種類。這部分資訊不是用於辨識，而是幫助漁民提到餌料種類時，能使各方能瞭解的標準化用語。

詳實填報漁獲量和努力量漁撈日誌，包括所有捕獲物種及互動物種資訊，對該地區之漁業長期管理至關重要。透過這項工作，也有助於確保其漁業長期持續發展。

the species and the FAO code. At the bottom left of each page is a table with the English, French, Japanese and Hawaiian (where known) names, as well as a space for fisherman to write in the local name for each species.

The authors have tried to include most of the lesser-known species that may be encountered but are generally discarded and not recorded, so that these species can be identified and recorded by fishermen in future. They are an important part of the overall catch from longline operations.

Separate sections have been included for sea turtles, seabirds, toothed whales and dolphins as there is a growing international focus on these species and their interaction with tuna and swordfish longline gear. It is important for all fishermen to accurately identify the species wherever possible and to record the interaction on their logsheet

Section 9 covers fish damage, which can be caused by sharks, toothed whales, cookie cutter sharks, seabirds or squid. Fishermen are encouraged to record this type of information, including the number of fish damaged, on their logsheet.

The final section covers the main types of commercially purchased bait used by longline operators in the Pacific region. These are provided for information rather than for identification purposes and to help standardise terminology for all interested parties when referring to bait species.

Completing catch and effort logsheets accurately, including recording all marine species caught or interacted with, is crucial to the long-term management of fisheries in the region. By doing this, fishermen are helping to ensure the long-term sustainability of their fishery.

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Taiwanese

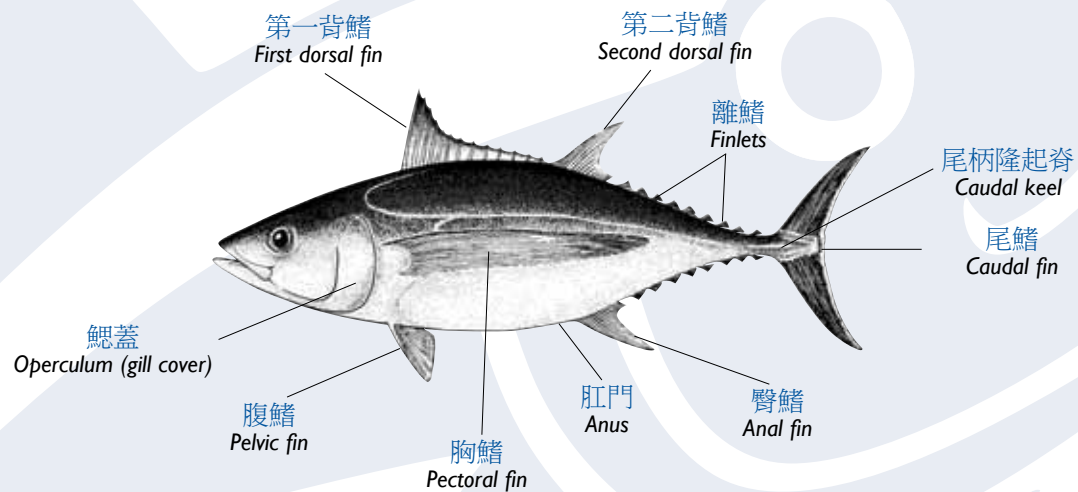
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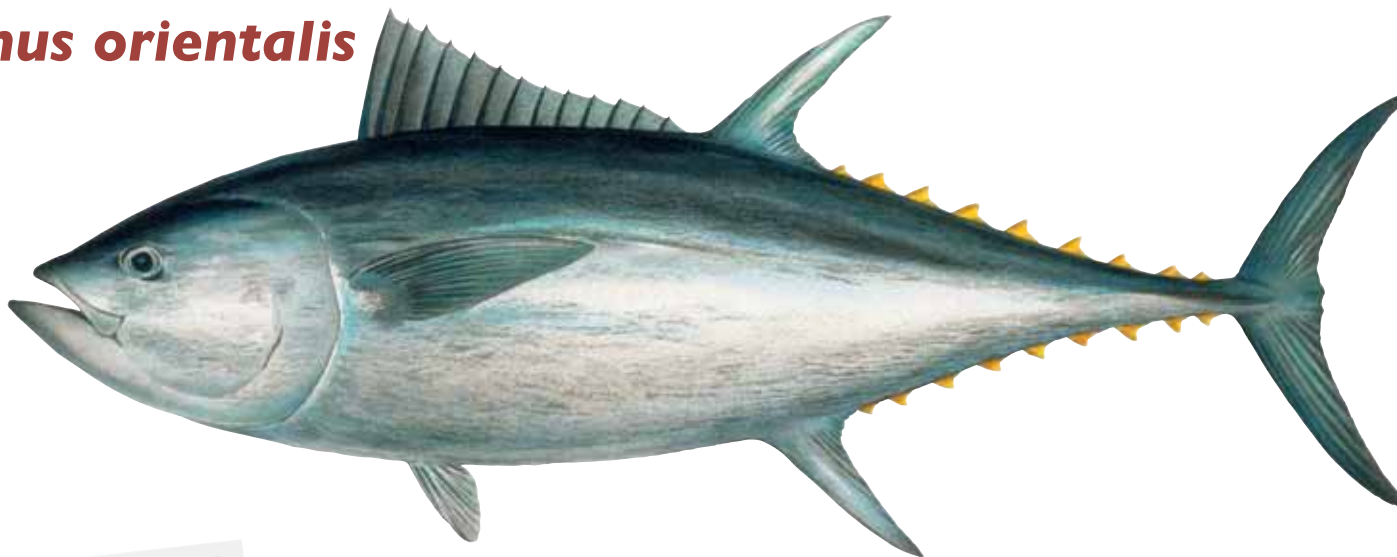
鮪類 Tunas



| Scientific | Taiwanese | English | FAO code | Page |
|-------------------------------|-----------|-------------------------|----------|------|
| <i>Thunnus obesus</i> | 大目鮪 | Bigeye tuna | BET | 5 |
| <i>Thunnus orientalis</i> | 太平洋黑鮪 | Pacific bluefin tuna | PBF | 2 |
| <i>Euthynnus affinis</i> | 巴鯧 | Kawakawa, Mackerel tuna | KAW | 9 |
| <i>Katsuwonus pelamis</i> | 正鯧 | Skipjack tuna | SKJ | 8 |
| <i>Thunnus tonggol</i> | 長腰鮪 | Longtail tuna | LOT | 7 |
| <i>Thunnus alalunga</i> | 長鰭鮪 | Albacore tuna | ALB | 6 |
| <i>Thunnus maccoyii</i> | 南方黑鮪 | Southern bluefin tuna | SBF | 3 |
| <i>Allothunnus fallai</i> | 細鮪 | Slender tuna | SLT | 11 |
| <i>Thunnus albacares</i> | 黃鰭鮪 | Yellowfin tuna | YFT | 4 |
| <i>Gasterochisma melampus</i> | 腹翼鮪 | Butterfly kingfish | BUK | 12 |
| <i>Gymnosarda unicolor</i> | 裸鮪 | Dogtooth tuna | DOT | 10 |

Thunnus orientalis

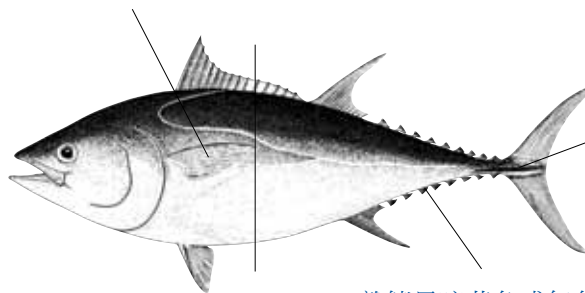
PBF



- Taiwanese: 太平洋黑鮪
- English: Pacific bluefin tuna
- French: Thon rouge du Pacifique
- Japanese: Kuro maguro
- Hawaiian: Bluefin tuna
- Local:

胸鰭短，胸鰭末端不及兩背鰭交縫

Pectoral fins short — never reach space between dorsal fins



尾柄隆起脊呈暗黑色

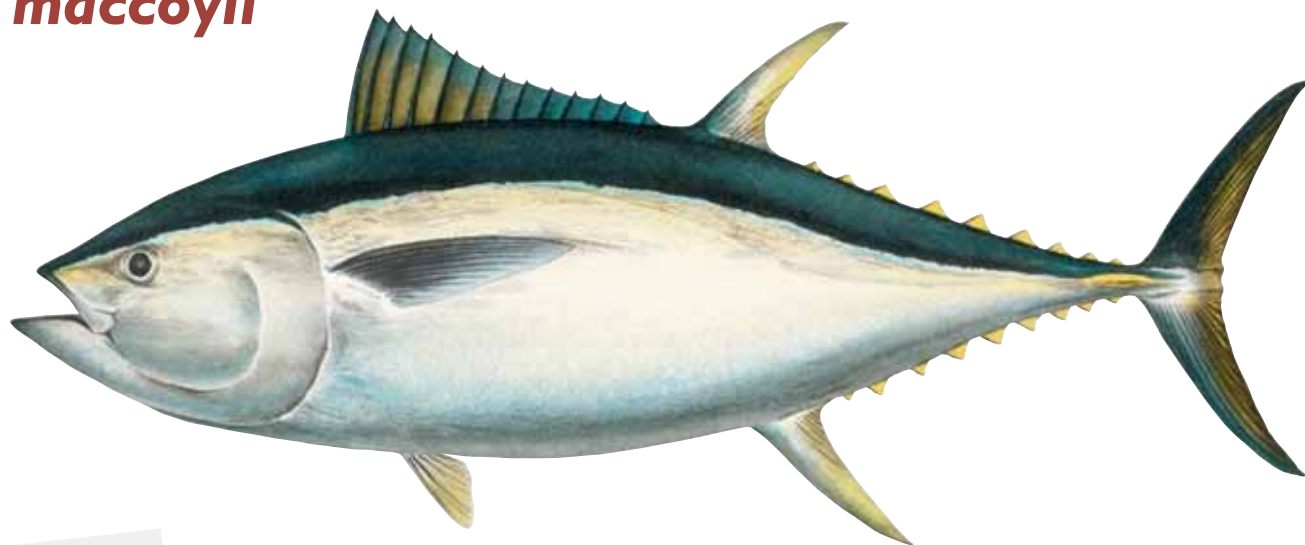
Main caudal keel dark to black

離鰭呈暗黃色或無色帶黑邊

Finlets dull yellow or colourless with black edge

Thunnus maccoyii

SBF



胸鰭短，胸鰭末端不及兩背鰭交縫

Pectoral fins short — never reach space between dorsal fins

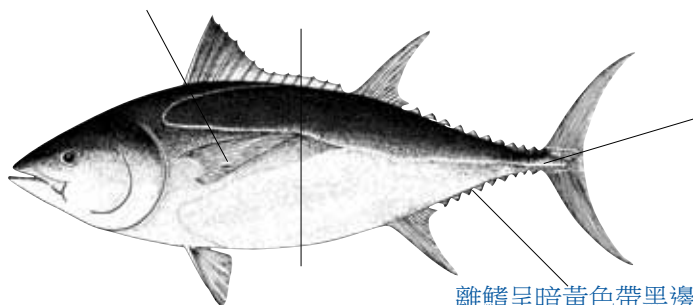
Taiwanese: 南方黑鮪

English: Southern bluefin tuna

French: Thon rouge du sud

Japanese: Bachi maguro, Minami maguro

Local:



尾柄隆起脊呈暗黃色

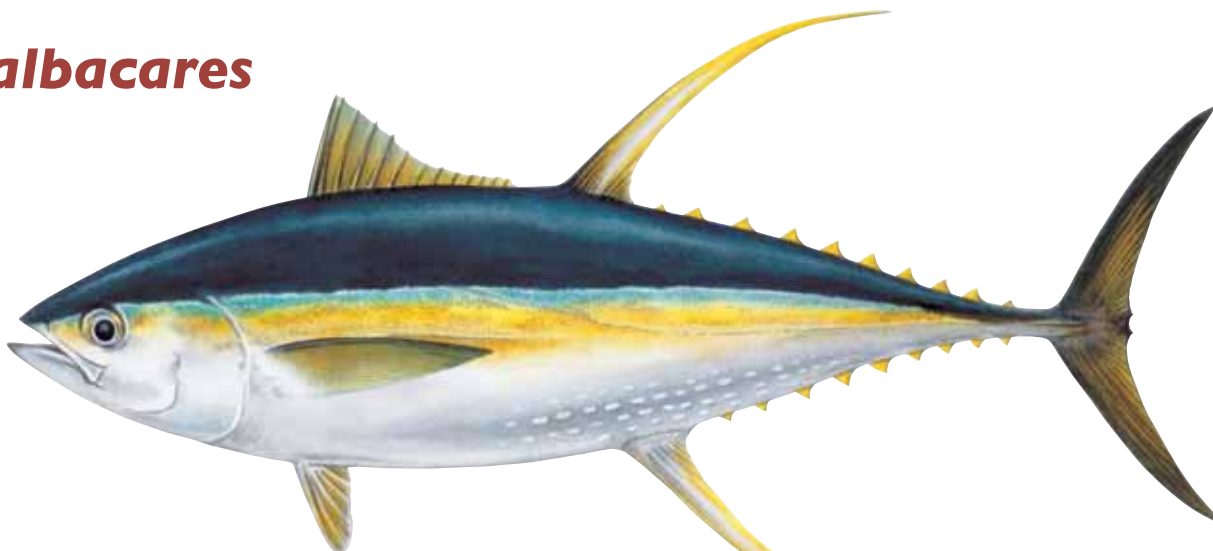
Main caudal keel dull yellow

離鰭呈暗黃色帶黑邊

Finlets dull yellow with black edge

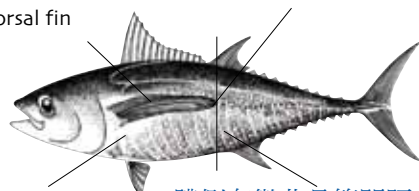
Thunnus albacares

YFT



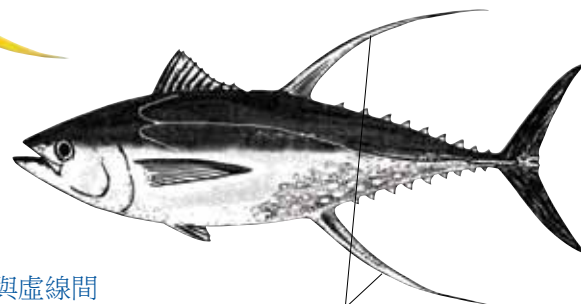
胸鰭末端長及第二背鰭
基部
Pectoral fins reach start of
second dorsal fin

胸鰭末端呈圓滑狀
Pectoral fin tip rounded



體型細窄，尤其在接
近尾鰭處
Narrow body, especially
near caudal fin

體側有微曲且等間距之實線與虛線間
隔條紋幾乎分布全身
Lines slightly curved, evenly spaced, separated
by lines of spots over most of body



第二背鰭及臀鰭呈黃色且長度非常長
Second dorsal and anal fins very long and yellow

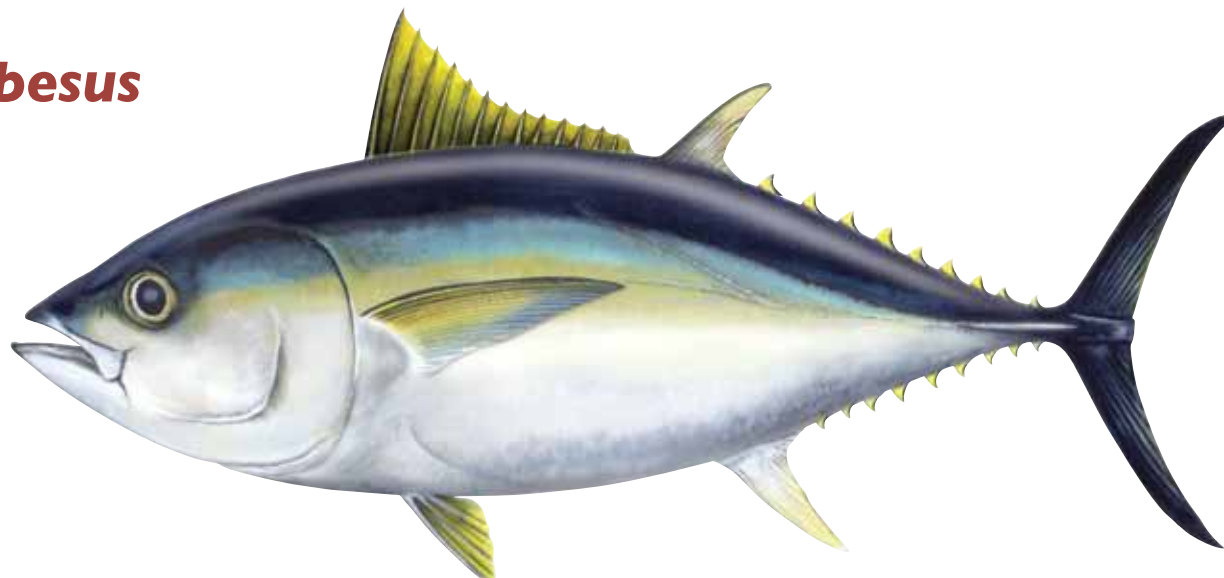
幼魚(40-70公分)
Juvenile (40-70 cm)

成魚
Adult

- Taiwanese: 黃鰭鮪
- English: Yellowfin tuna
- French: Albacore, Thon jaune
- Japanese: Kihada maguro, Shibi
- Hawaiian: Ahi (large), Shibi (medium), Shibi-ko (small)
- Local:

Thunnus obesus

BET



胸鰭末端有時會超過第二背鰭
基部末端

Pectoral fin often extends beyond
base of second dorsal fin

胸鰭末端尖銳

Pectoral fin tip pointed

離鰭為鮮黃色帶黑邊
Finlets bright yellow with
black edge

Taiwanese: 大目鮪

English: Bigeye tuna

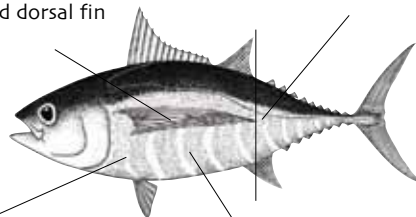
French: Thon obèse

Japanese: Mebachi, Mebuto,
Shibi

Hawaiian: Ahi, Mebachi,
Ahi pō'ouui

Local:

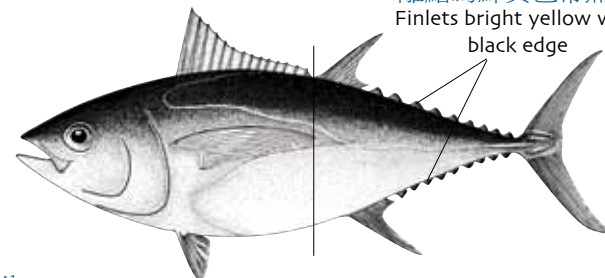
體型肥胖
Stout body



體側有直向且間隔不均勻之不規則紋路分
布在魚體下半部

Lines almost straight, unevenly spaced with a few
erratic spots mostly over lower body

幼魚(40-70公分)
Juvenile (40-70 cm)



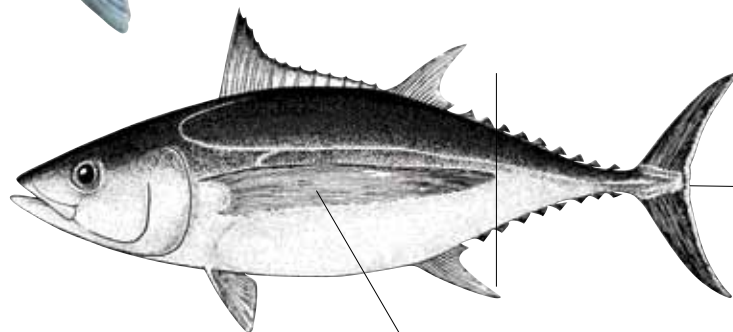
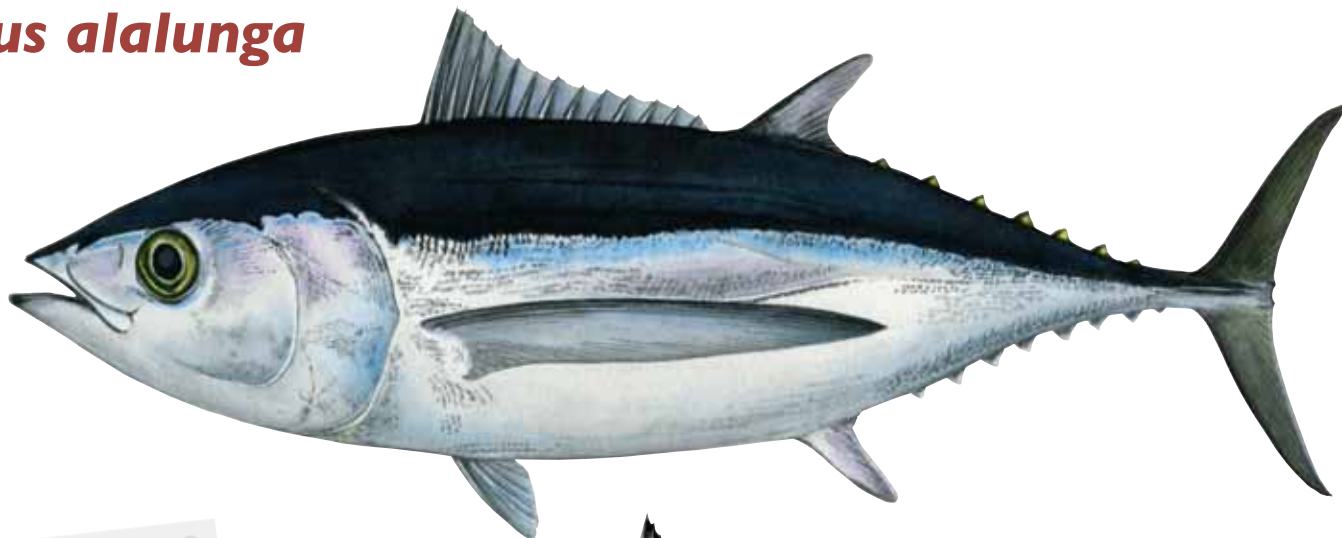
胸鰭末端長及兩背鰭交縫

Pectoral fins can reach space between dorsal fins

成魚
Adult

Thunnus alalunga

ALB



Taiwanese: 長鰭鮪

English: Albacore tuna

French: Germon,
Thon blanc

Japanese: Tombo, Bincho,
Binnaga maguro

Hawaiian: Tombo,
Ahi palaha

Local:

尾鰭葉內側末緣帶白邊
或無色

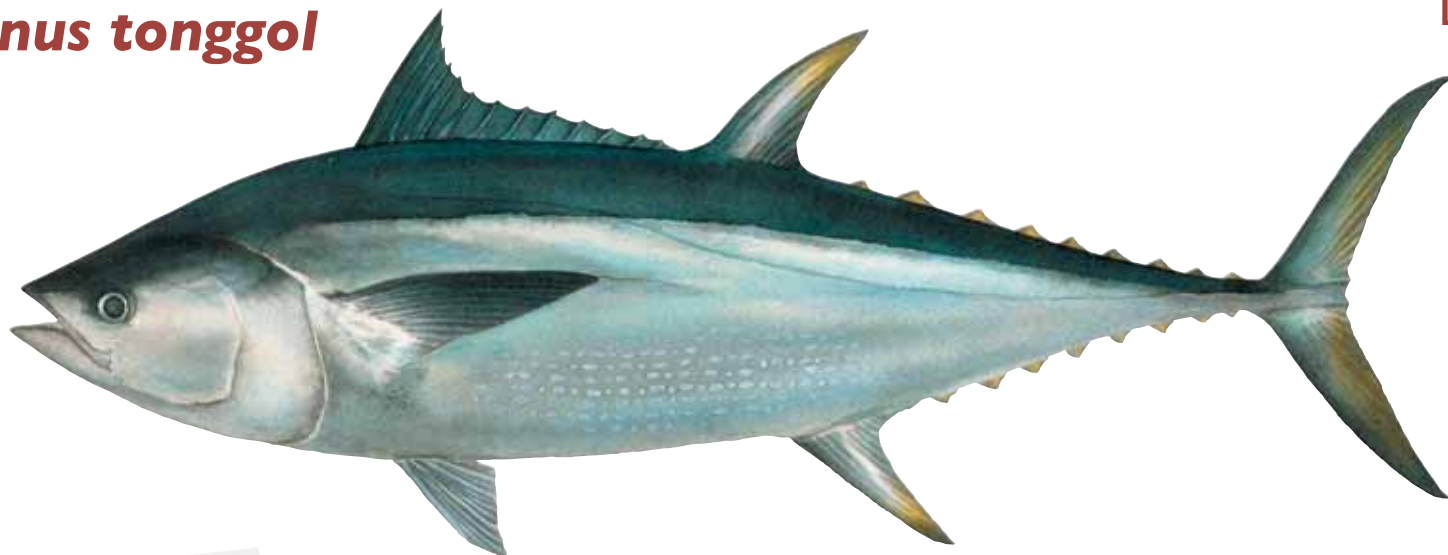
Back edge of caudal fin
white or colourless

胸鰭末端超過第二背鰭及臀鰭

Pectoral fins reach way past second dorsal and anal fins

Thunnus tonggol

LOT



Taiwanese: 長腰鮪

English: Longtail tuna

French: Thon mignon

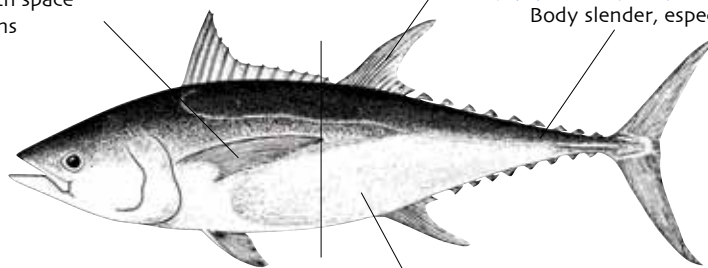
Japanese: Koshinaga

Local:

胸鰭末端很少長及兩背鰭交縫
Pectoral fins barely reach space
between dorsal fins

第二背鰭高於第一背鰭
Second dorsal fin taller than first dorsal fin

身形修長，特別是在靠近尾鰭部分更顯細長
Body slender, especially towards caudal fin



在腹部有數列不明顯無色斑點
Faint rows of colourless spots along belly

Katsuwonus pelamis

SKJ



Taiwanese: 正鯧

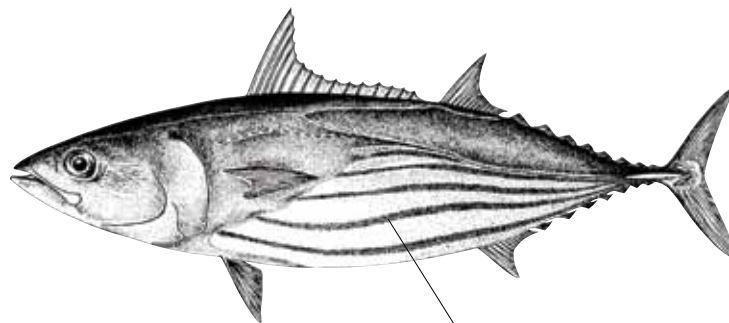
English: Skipjack tuna

French: Bonite à ventre rayé

Japanese: Katsuo

Hawaiian: Aku,
Otaru (when large)

Local:



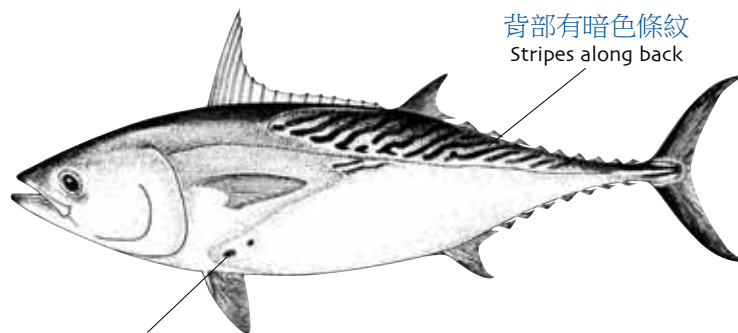
腹部有3到5條暗色縱帶
Three to five stripes along belly

Euthynnus affinis

KAW



Taiwanese: 巴鯧
English: Kawakawa,
Mackerel tuna
French: Thonine orientale
Japanese: Suma
Hawaiian: Kawakawa
Local:

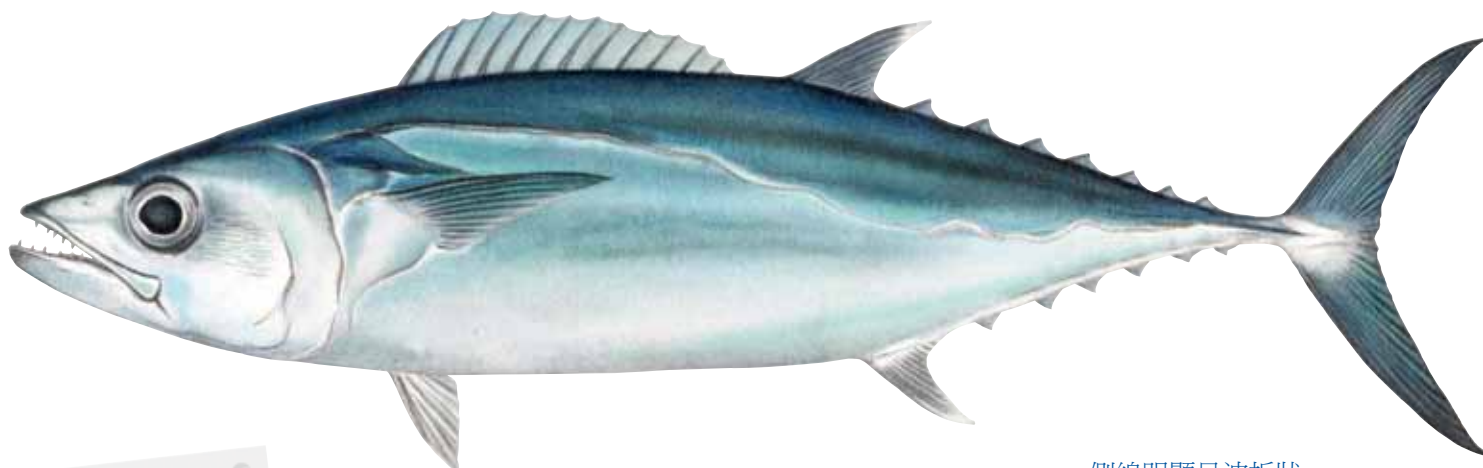


背部有暗色條紋
Stripes along back

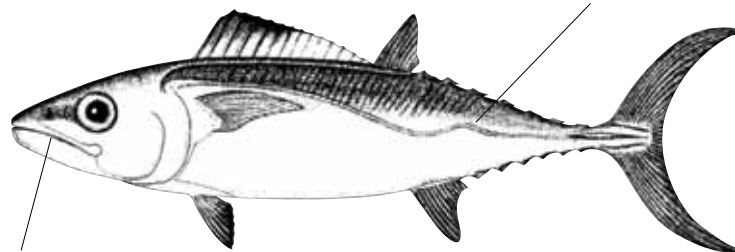
胸鰭下方有黑色暗斑，但有時不明顯
Black spots, sometimes faded

Gymnosarda unicolor

DOT



Taiwanese: 裸鯨 (大西齒)
English: Dogtooth tuna
French: Bonite à gros yeux,
Thon dents de
chien
Japanese: Isomaguro
Local:

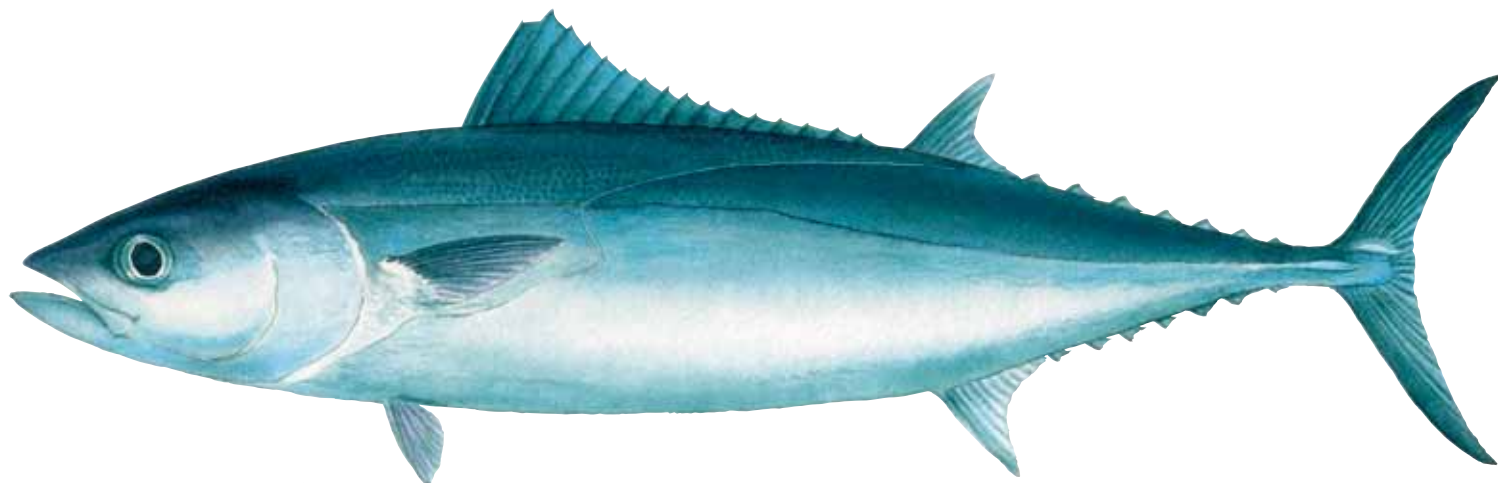


側線明顯呈波折狀
Obvious wavy lateral line

牙齒呈錐形(類似犬齒)
Cone-shaped (dog-like) teeth in a large mouth

Allothunnus fallai

SLT



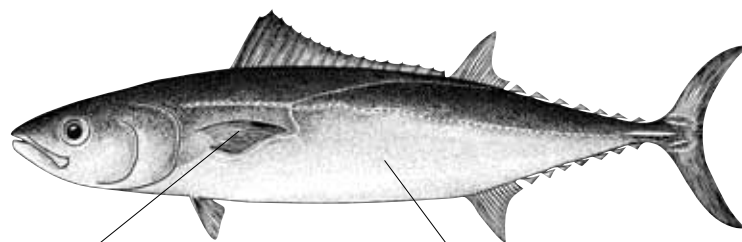
Taiwanese: 細鯷

English: Slender tuna

French: Thon élégant

Japanese: Hosogatsuo

Local:



胸鰭極短

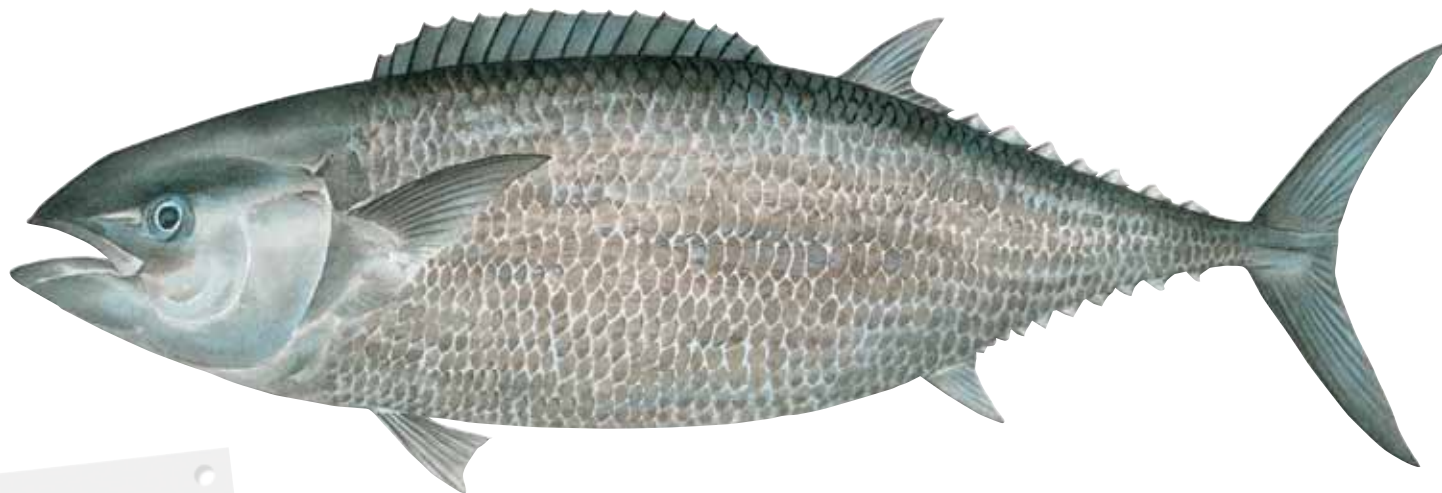
Pectoral fins very short

體型呈圓柱形

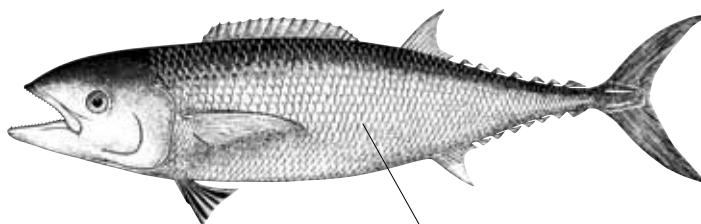
Cylindrical shaped body

Gasterochisma melampus

BUK

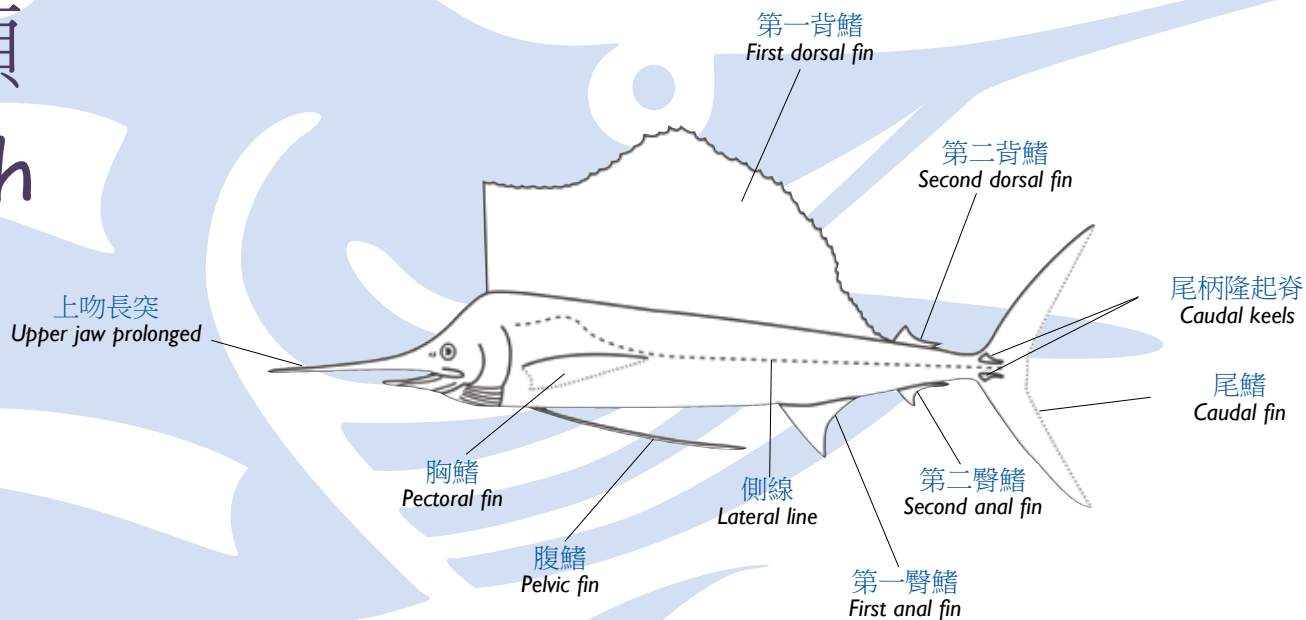


Taiwanese: 腹翼鯖
English: Butterfly kingfish
French: Thon papillon
Japanese: Urokomaguro
Local:



魚鱗大片亮澤
Body covered in large shiny scales

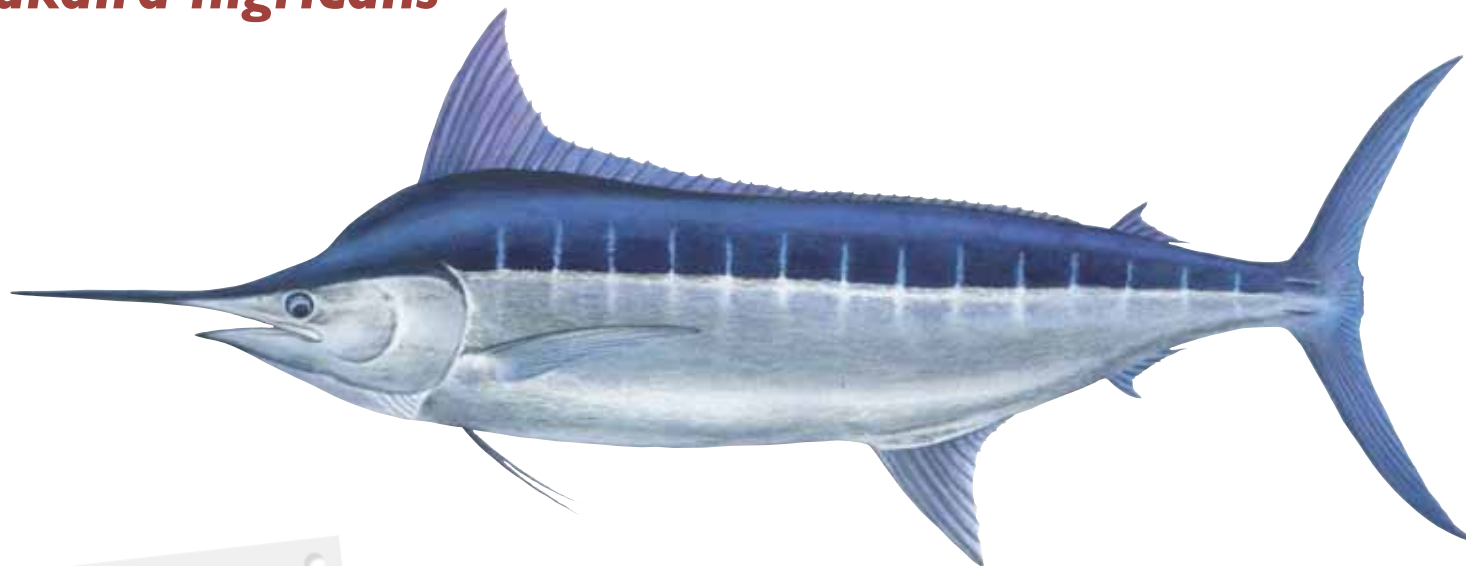
旗魚類 Billfish



| Scientific | Taiwanese | English | FAO code | Page |
|-----------------------------------|-----------|-----------------------|----------|------|
| <i>Makaira indica</i> | 白皮旗魚 | Black marlin | BLM | 17 |
| <i>Istiophorus platypterus</i> | 雨傘旗魚 | Indo-Pacific sailfish | SFA | 19 |
| <i>Tetrapturus audax</i> | 紅肉旗魚 | Striped marlin | MLS | 15 |
| <i>Tetrapturus angustirostris</i> | 短吻旗魚 | Shortbill spearfish | SSP | 18 |
| <i>Makaira nigricans</i> | 黑皮旗魚 | Blue marlin | BUM | 14 |
| <i>Xiphias gladius</i> | 劍旗魚 | Swordfish | SWO | 16 |

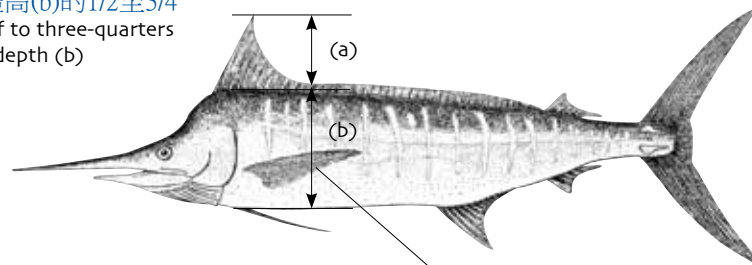
Makaira nigricans

BUM



Taiwanese: 黑皮旗魚
English: Blue marlin
French: Makaire bleu
Japanese: Nishikuro,
Kuro kajiki
Hawaiian: Kajiki, A'u,
Blue marlin
Local:

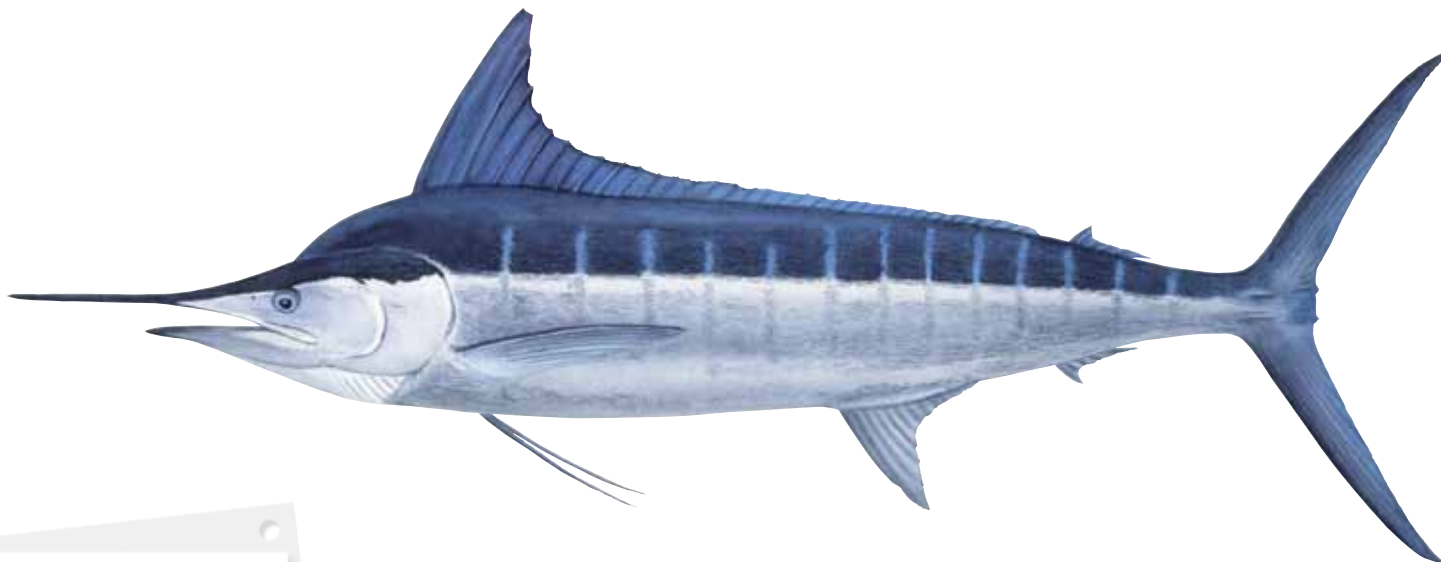
背鰭高(a)約為最大體高(b)的1/2至3/4
Dorsal fin height (a) half to three-quarters
greatest body depth (b)



胸鰭可向內摺收平貼魚體
Pectoral fins not rigid — can flatten against body

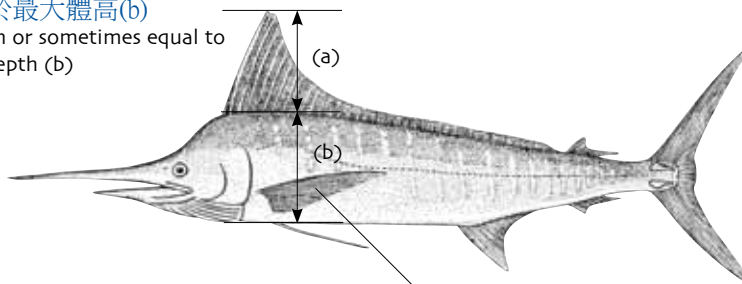
Tetrapturus audax

MLS



Taiwanese: 紅肉旗魚
English: Striped marlin
French: Marlin rayé
Japanese: Makajiki,
Nairaiji
Hawaiian: Nairaiji,
Striped marlin
Local:

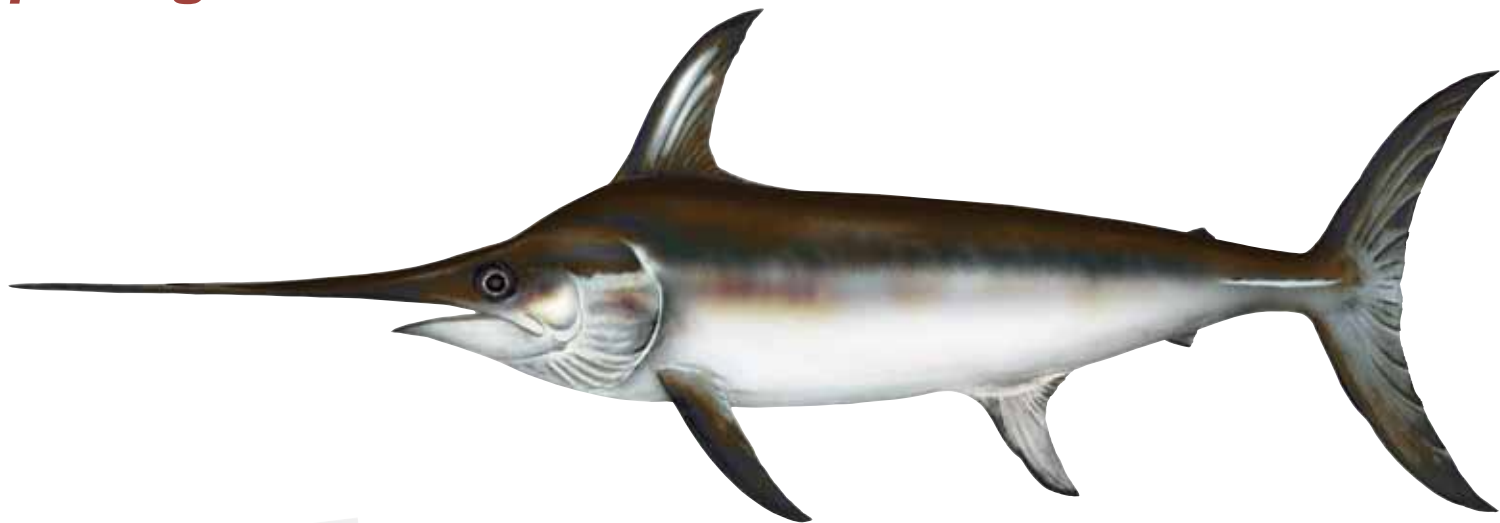
背鰭高(a)大於或等於最大體高(b)
Dorsal fin height (a) higher than or sometimes equal to
greatest body depth (b)



胸鰭可向內摺收平貼魚體
Pectoral fins not rigid — can flatten against body

Xiphias gladius

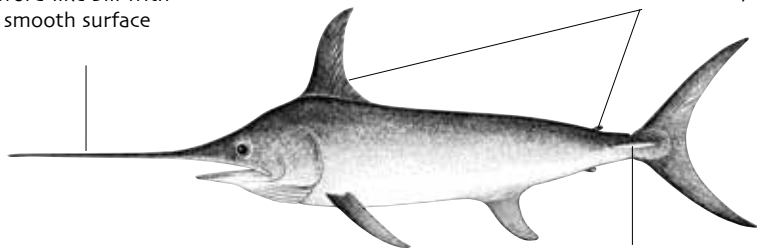
SWO



Taiwanese: 劍旗魚
English: Swordfish,
Broadbill swordfish
French: Espadon
Japanese: Dakuda, Mekajiki,
Shutome
Hawaiian: A'uku, Broadbill,
Shutome,
Swordfish
Local:

上吻平滑長如劍
Sword-like bill with
smooth surface

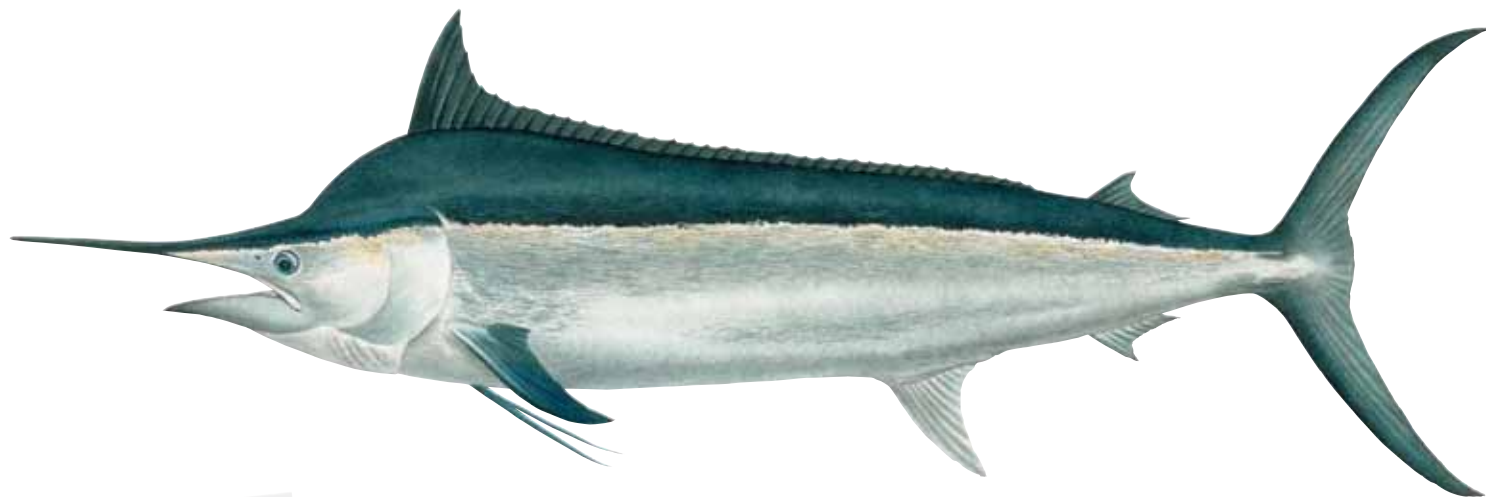
第一背鰭及第二背鰭間距非常大(體長100公分以下劍
旗魚背鰭間距較小)
First and second dorsal fins widely separated (except if <100 cm)



僅有一個尾柄隆起脊
Only one caudal keel

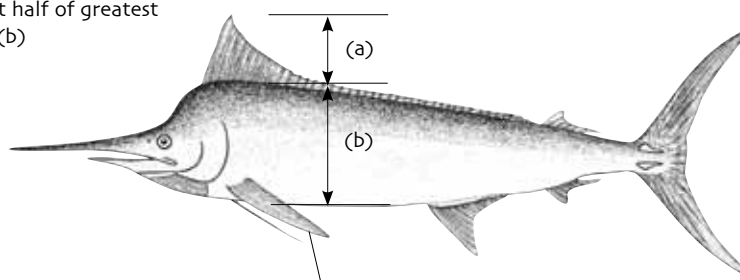
Makaira indica

BLM



Taiwanese: 立翅鱈魚
(白皮旗魚)
English: Black marlin
French: Makaïre noir
Japanese: Shiro kajiki,
Shirokawa
Hawaiian: Hida, Hira,
A'u, Black marlin
Local:

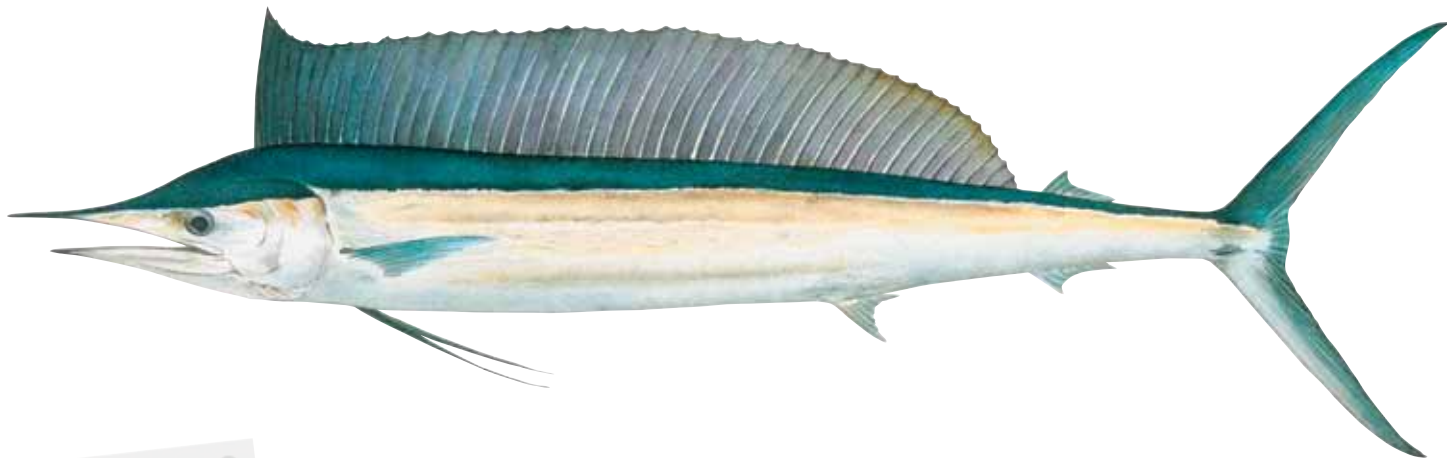
背鰭高(a)約為最大體高(b)的一半
Dorsal fin height (a) about half of greatest
body depth (b)



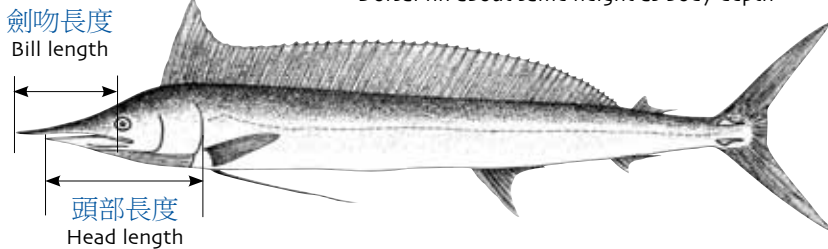
體重超過40公斤以上胸鰭僵直無法向內摺收平貼魚體
Pectoral fins rigid — cannot flatten against body on fish over 40 kg

Tetrapturus angustirostris

SSP



背鰭高約等同最大體高
Dorsal fin about same height as body depth

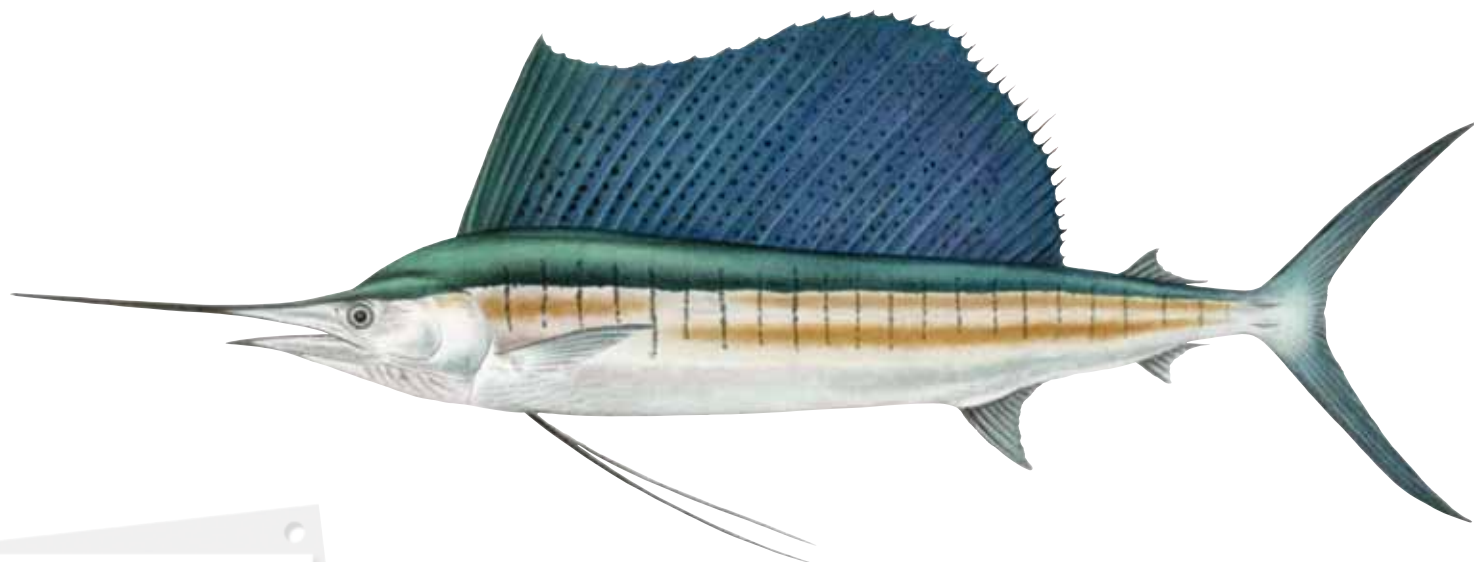


劍吻非常短，等於或小於頭部長度
Bill very short, equal to or shorter than head length

Taiwanese: 短吻旗魚
English: Shortbill spearfish
French: Makaïre à rostre court
Japanese: Furai kajiki
Hawaiian: Hebi
Local:

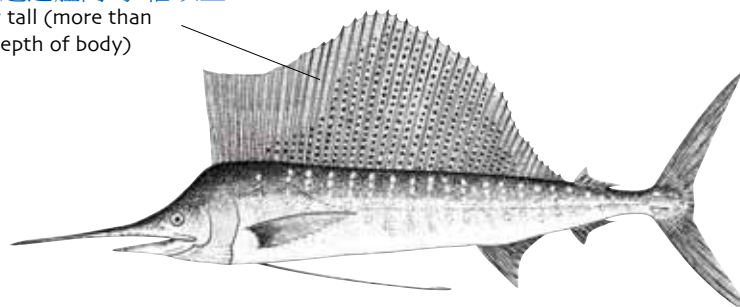
Istiophorus platypterus

SFA

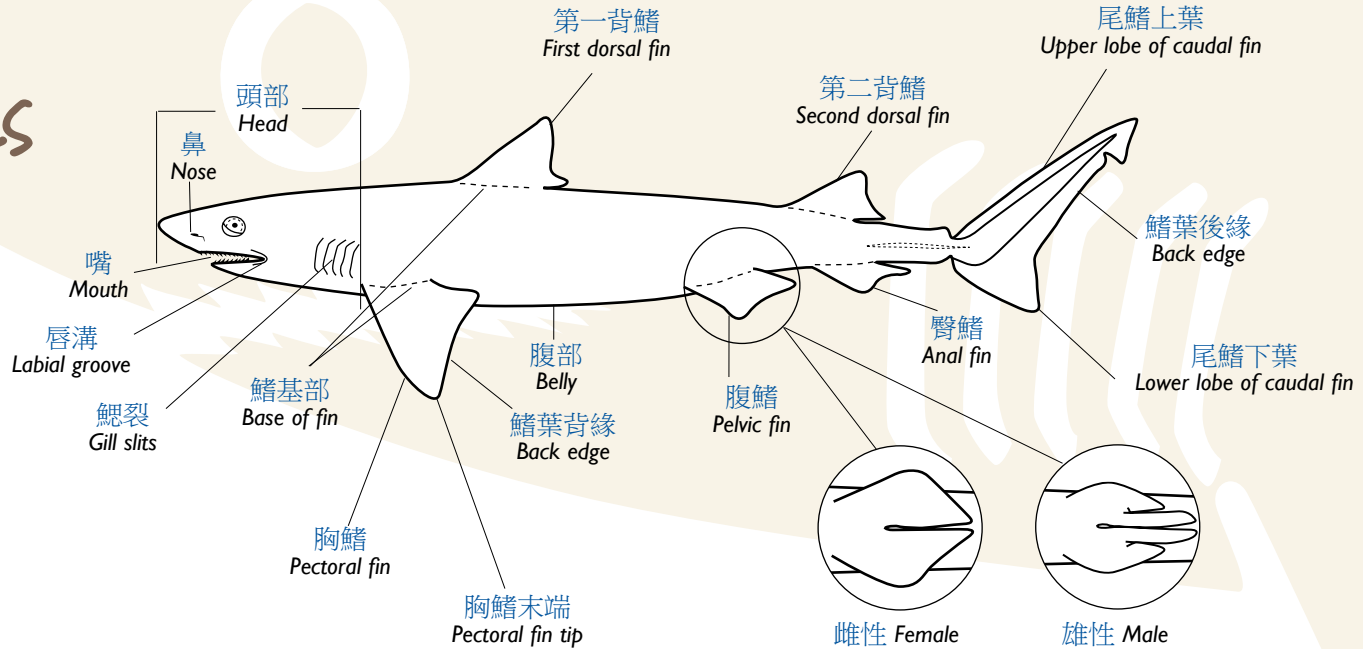


Taiwanese: 雨傘旗魚
English: Indo-Pacific sailfish
French: Voilier de l'Indo-Pacifique
Japanese: Basho kajiki
Hawaiian: A'u lepe, Sailfish
Local:

背鰭非常高，高度超過體高的2倍以上
Dorsal fin very tall (more than two times depth of body)



鯊魚 Sharks

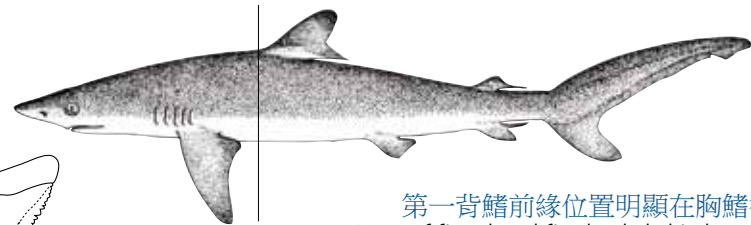


| Scientific | Taiwanese | English | FAO code | Page |
|----------------------------|-----------------|-------------------------|----------|------|
| <i>Sphyma zygaena</i> | 錘頭雙髻鯊；錘頭Y髻鯨 | Smooth hammerhead | SPZ | 43 |
| <i>Eusphyra blochii</i> | 丁字雙髻鯊 | Winghead shark | EUB | 41 |
| <i>Sphyma mokarran</i> | 無溝雙髻鯊；八鰭Y髻鯨；雙過仔 | Great hammerhead | SPK | 40 |
| <i>Odontaspis noronhai</i> | 大眼砂錐齒鯊 | Bigeye sand tiger shark | ODH | 29 |

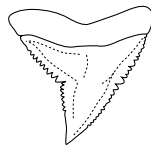
| | | | | |
|------------------------------------|----------------|------------------------------------|-----|----|
| <i>Carcharhinus altimus</i> | 高翅真鯊;大鼻真鯊 | Bignose shark | CCA | 24 |
| <i>Carcharhinus leucas</i> | 低鰭真鯊;公牛白眼鯊 | Bull shark | CCE | 25 |
| <i>Megachasma pelagios</i> | 巨口鯊 | Megamouth shark | LMP | 48 |
| <i>Carcharhinus falciformis</i> | 平滑白眼鯊;黑鯊 | Silky shark | FAL | 22 |
| <i>Carcharhinus albimarginatus</i> | 白邊鰭真鯊;白邊鰭白眼鯊 | Silvertip shark | ALS | 35 |
| <i>Carcharhinus melanopterus</i> | 污翅真鯊;污翅白眼鯊 | Blacktip reef shark | BLR | 45 |
| <i>Carcharhinus longimanus</i> | 長鰭真鯊;污斑白眼鯊;花鯊 | Oceanic whitetip shark | OCS | 34 |
| <i>Isurus oxyrinchus</i> | 尖吻鯖鯊;灰鯖鯊 | Shortfin mako | SMA | 30 |
| <i>Alopias vulpinus</i> | 細尾狐鯊 | Common thresher, Thintail thresher | ALV | 38 |
| <i>Carcharhinus galapagensis</i> | 直翅真鯊 | Galapagos shark | CCG | 26 |
| <i>Isurus paucus</i> | 長臂鯖鯊;長臂灰鯖鯊 | Longfin mako | LMA | 31 |
| <i>Sphyma lewini</i> | 路易氏雙髻鯊;紅肉Y髻鯊 | Scalloped hammerhead | SPL | 42 |
| <i>Carcharodon carcharias</i> | 食人鯊;大白鯊 | Great white shark | WSH | 33 |
| <i>Carcharhinus plumbeus</i> | 高鰭白眼鯊 | Sandbar shark | CCP | 27 |
| <i>Alopias superciliosus</i> | 深海狐鯊;深海狐鯊;大目午仔 | Bigeye thresher | BTH | 39 |
| <i>Alopias pelagicus</i> | 淺海狐鯊;淺海狐鯊;小目午仔 | Pelagic thresher | PTH | 37 |
| <i>Scymnodon squamulosus</i> | 鱗睡鯊;狗鯊;睡鯊 | Velvet dogfish | SSQ | 52 |
| <i>Isistius brasiliensis</i> | 巴西達摩鯊 | Cookie cutter shark | ISB | 50 |
| <i>Carcharhinus brachyurus</i> | 短尾真鯊 | Copper shark, Bronze whaler | BRO | 23 |
| <i>Cetorhinus maximus</i> | 象鯊 | Basking shark | BSK | 49 |
| <i>Carcharhinus amblyrhynchos</i> | 鈍吻真鯊;黑印白眼鯊;灰鯊鯊 | Grey reef shark | AML | 47 |
| <i>Dalatias licha</i> | 鎧鯊;黑鯊 | Kitefin shark, Seal shark | SCK | 53 |
| <i>Carcharhinus limbatus</i> | 黑邊鰭真鯊;黑邊鰭白眼鯊 | Blacktip shark | CCL | 44 |
| <i>Pseudocarcharias kamoharui</i> | 蒲原氏擬錐齒鯊;鱷鯊 | Crocodile shark | PSK | 51 |
| <i>Prionace glauca</i> | 鋸峰齒鯊;鋸峰齒鯊;水鯊 | Blue shark | BSH | 32 |
| <i>Galeocerdo cuvier</i> | 鼬鯊 | Tiger shark | TIG | 28 |
| <i>Rhincodon typus</i> | 鯨鯊 | Whale shark | RHN | 46 |
| <i>Triaenodon obesus</i> | 灰三齒鯊;鬻鯊 | Whitetip reef shark | TRB | 36 |

Carcharhinus falciformis

FAL



第一背鰭前緣位置明顯在胸鰭後
Front of first dorsal fin clearly behind pectoral fin

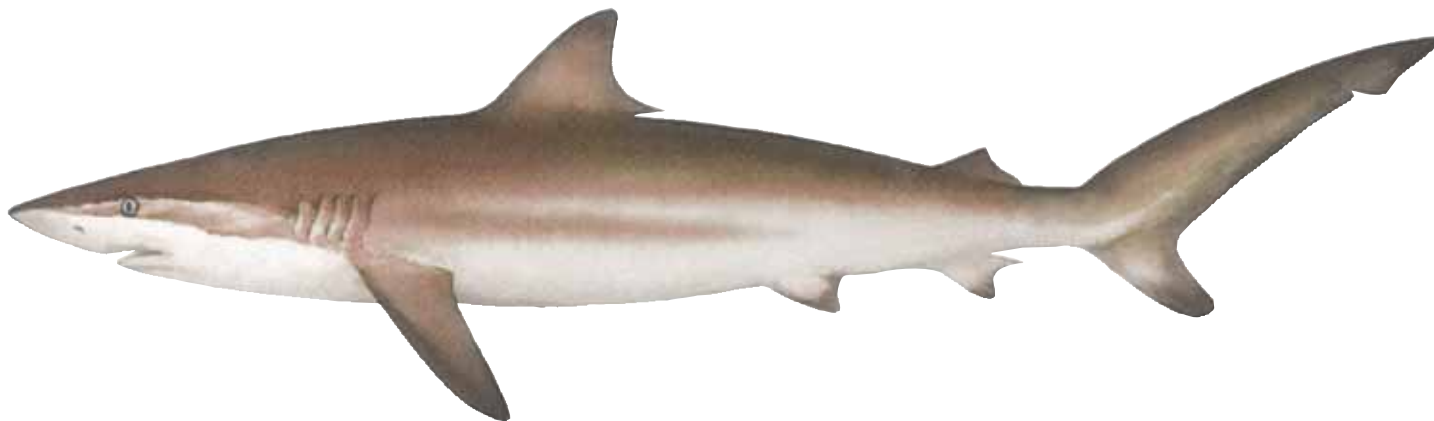


上排牙齒形狀
Shape of upper teeth

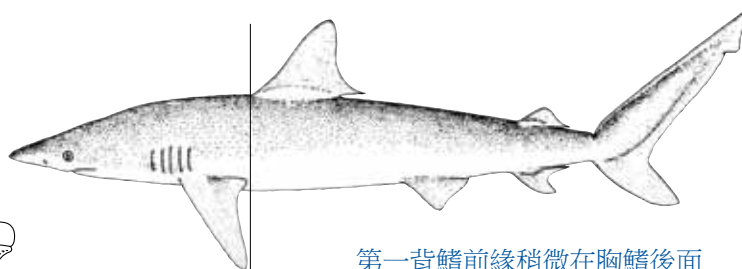
- Taiwanese: 平滑白眼鯊 (黑鯊)
- English: Silky shark
- French: Requin soyeux
- Japanese: Kurotogarizame
- Hawaiian: Silk shark
- Local:

Carcharhinus brachyurus

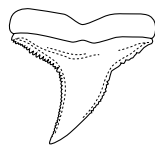
BRO



Taiwanese: 短尾白眼鯊
(反種圓頭)
English: Copper shark,
Bronze whaler
French: Requin cuivre
Japanese: Kuroherimejirozame
Local:



第一背鰭前緣稍微在胸鰭後面
Front of first dorsal fin slightly behind pectoral fin



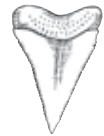
上排牙齒形狀
Shape of upper teeth

Carcharhinus altimus

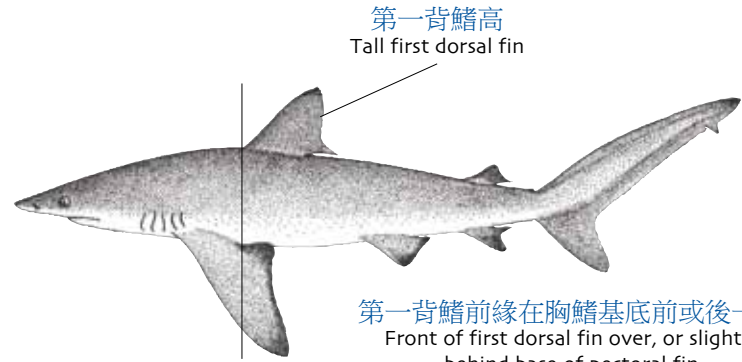
CCA



Taiwanese: 大鼻白眼鯊
(大撇仔)
English: Bignose shark
French: Requin babosse
Japanese: Habire
Local:



上排牙齒形狀
Shape of upper teeth



第一背鰭高
Tall first dorsal fin

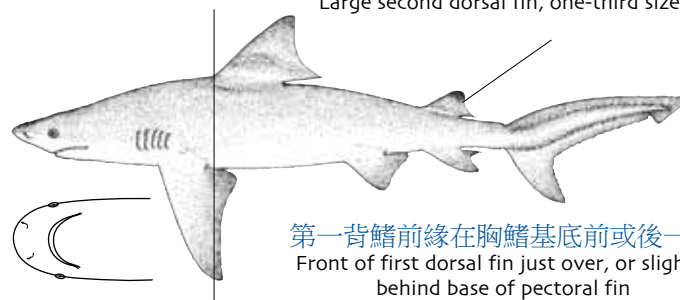
第一背鰭前緣在胸鰭基底前或後一些
Front of first dorsal fin over, or slightly behind base of pectoral fin

Carcharhinus leucas

CCE



第二背鰭大，約為第一背鰭1/3
Large second dorsal fin, one-third size of first dorsal fin



第一背鰭前緣在胸鰭基底前或後一些
Front of first dorsal fin just over, or slightly behind base of pectoral fin

吻端極短且非常寬圓
Snout very broadly rounded and extremely short

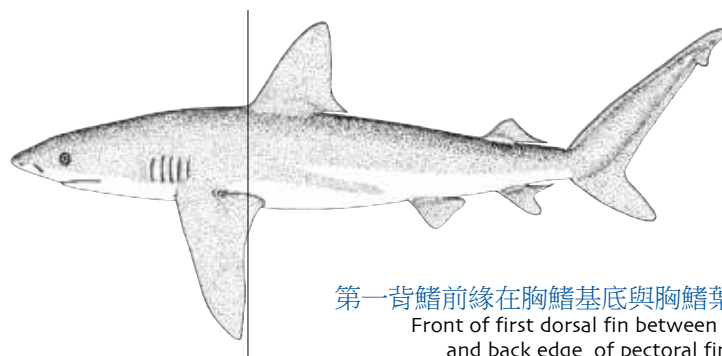


上排牙齒形狀
Shape of upper teeth

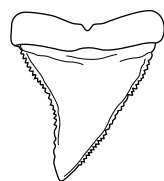
- Taiwanese: 公牛白眼鯊 (闔目鳥)
- English: Bull shark
- French: Requin bouledogue
- Japanese: Oomejirozame
- Local:

Carcharhinus galapagensis

CCG



第一背鰭前緣在胸鰭基底與胸鰭葉末緣中間
Front of first dorsal fin between base
and back edge of pectoral fin



上排牙齒形狀
Shape of upper teeth

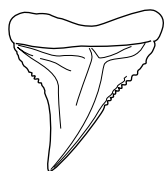
Taiwanese: 直翅真鯊
English: Galapagos shark
French: Requin des Galapagos
Japanese: Garapagosuzame
Hawaiian: Mano
Local:

Carcharhinus plumbeus

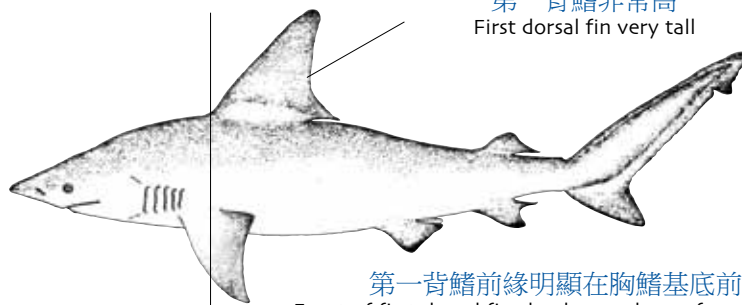
CCP



Taiwanese: 高鰭白眼鯊
(大翅仔)
English: Sandbar shark
French: Requin gris,
Requin gris à
haute dorsale
Japanese: Mejirozame,
Yajibuka
Hawaiian: Mano
Local:



上排牙齒形狀
Shape of upper teeth



第一背鰭非常高
First dorsal fin very tall

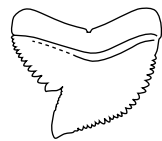
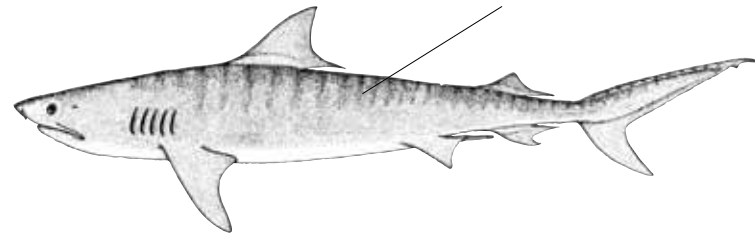
第一背鰭前緣明顯在胸鰭基底前
Front of first dorsal fin clearly over base of pectoral fin

Galeocerdo cuvier

TIG



體背上有深色虎紋，大型成鯊虎紋可能消退不清晰
Dark, tiger-stripe markings that may be faded in large adults



上排牙齒形狀
Shape of upper teeth

- Taiwanese: 鰐鯊 (烏鯊、虎鯊)
- English: Tiger shark
- French: Requin tigre
- Japanese: Itachizame, Tora zame
- Hawaiian: Niuhi, Manopa'ele
- Local:

Odontaspis noronhai

ODH



Taiwanese: 大眼砂錐齒鯊 (漾牙)

English: Bigeye sand tiger shark

French: Requin noronhai

Japanese: Burajiruwanizame

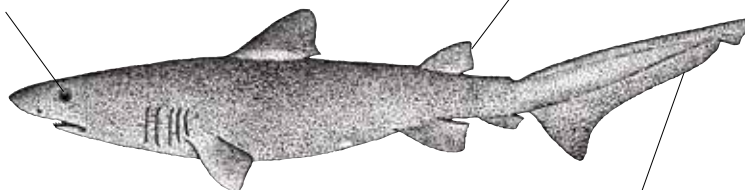
Local:

大眼
Large eyes



上排牙齒形狀
Shape of upper teeth

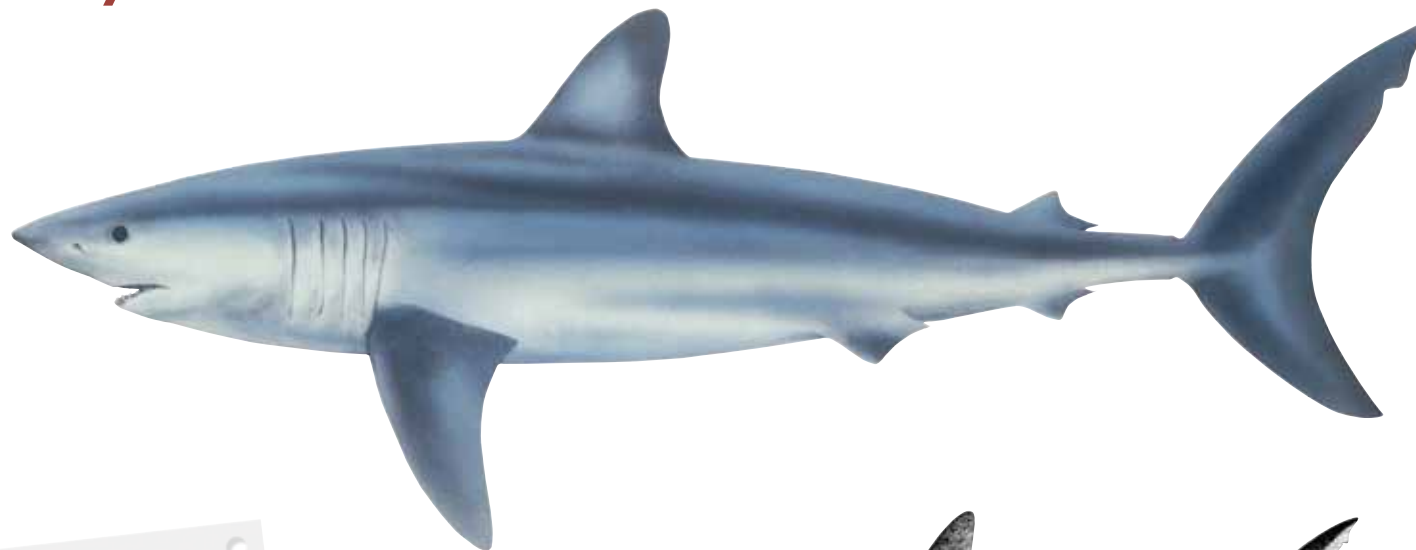
第二背鰭稍微在腹鰭後方
Second dorsal fin over pelvic fin



尾鰭上葉較尾鰭下葉長
Upper lobe of caudal fin much longer than lower lobe

Isurus oxyrinchus

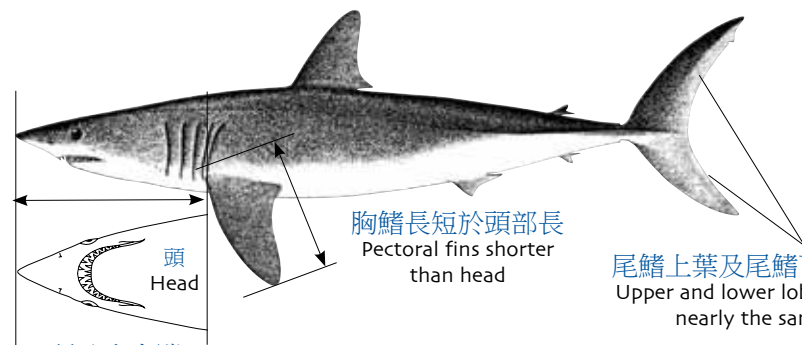
SMA



Taiwanese: 灰鯖鯊
(馬加鯊、煙仔鯊)
English: Shortfin mako
French: Taupe bleue
Japanese: Aozame
Hawaiian: Mano
Local:



上排牙齒形狀
Shape of upper teeth



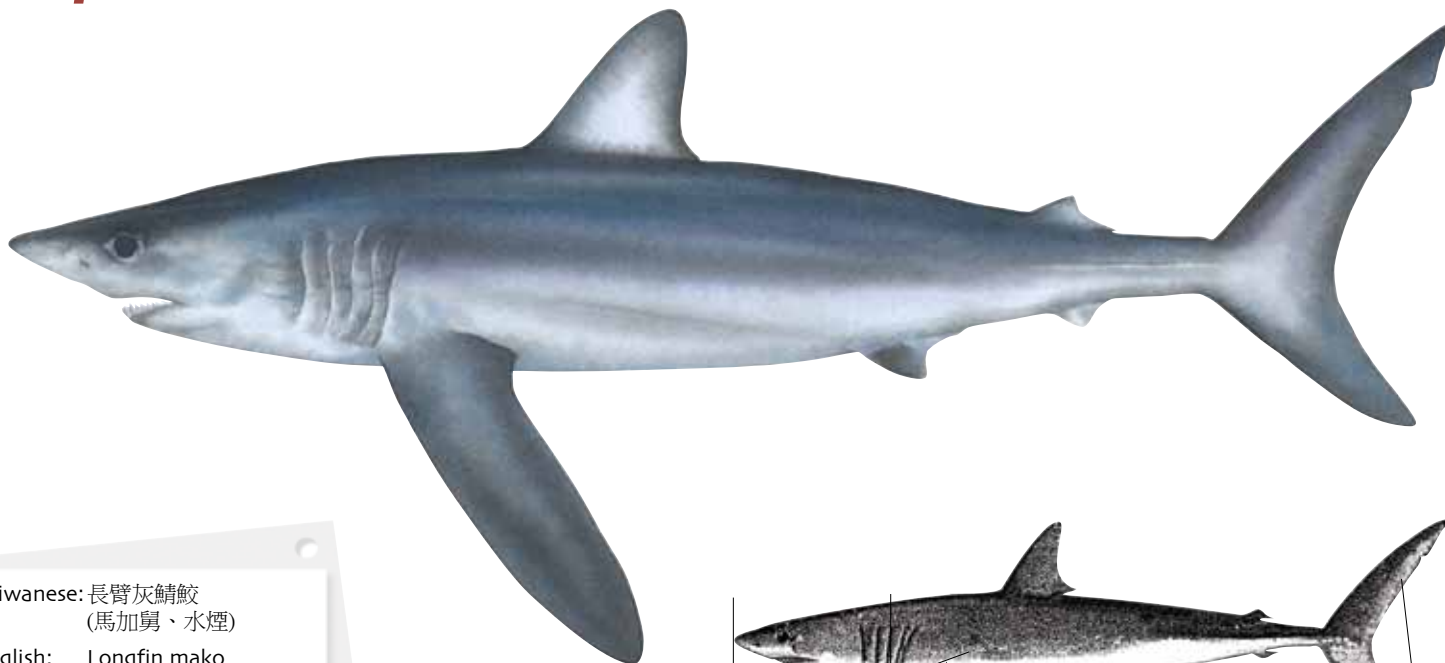
頭及吻尖端
Head and snout pointed

胸鰭長短於頭部長
Pectoral fins shorter than head

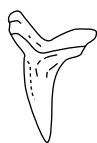
尾鰭上葉及尾鰭下葉接近等長
Upper and lower lobes of caudal fin nearly the same length

Isurus paucus

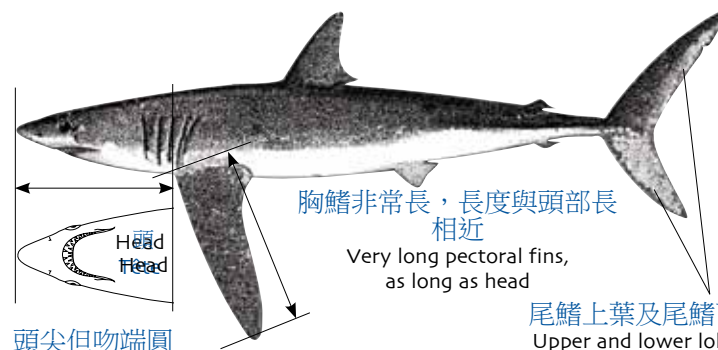
LMA



- Taiwanese: 長臂灰鯖鮫 (馬加鼻、水煙)
- English: Longfin mako
- French: Petite taupe
- Japanese: Bake-aozame
- Hawaiian: Mano
- Local:



上排牙齒形狀
Shape of upper teeth



頭尖但吻端圓
Head pointed but snout rounded

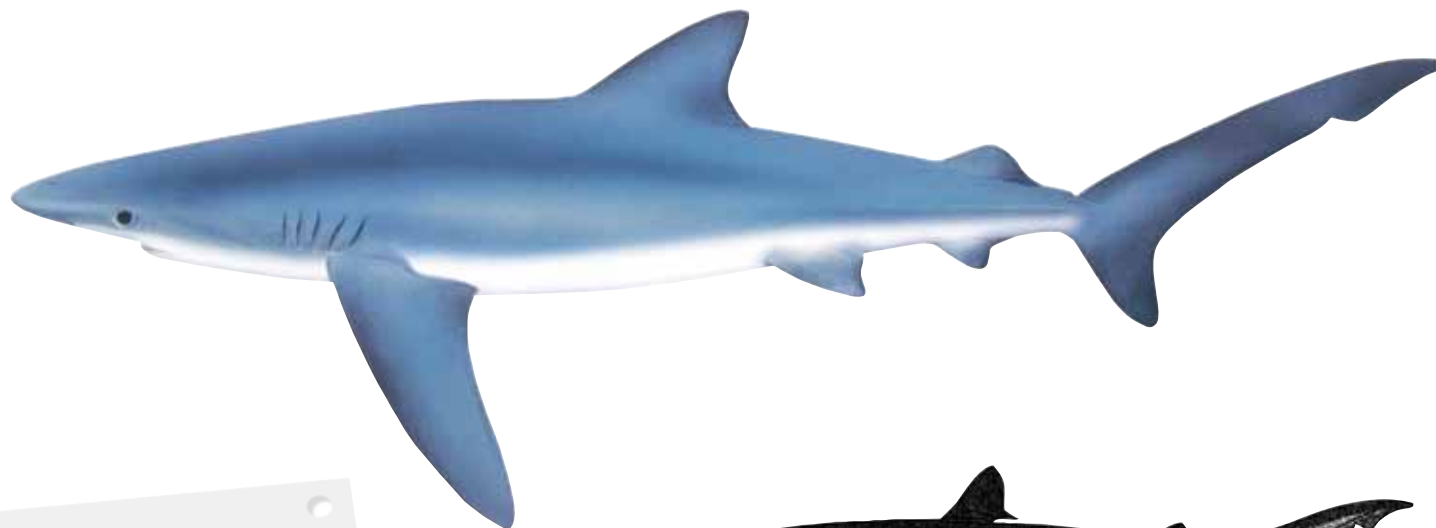
胸鰭非常長，長度與頭部長相近

Very long pectoral fins, as long as head

尾鰭上葉及尾鰭下葉接近等長
Upper and lower lobes of caudal fin nearly the same length

Prionace glauca

BSH



Taiwanese: 鋸峰齒鯊
(水鯊、鰻鯊、爛鯊)

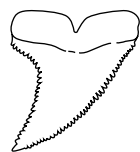
English: Blue shark

French: Peau bleue

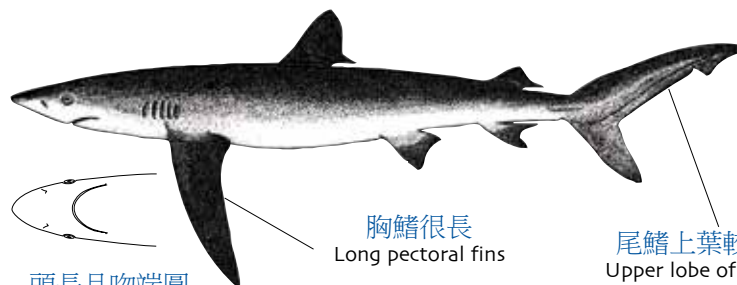
Japanese: Yoshikirizame,
Mizubuka, Aota

Hawaiian: Mano

Local:



上排牙齒形狀
Shape of upper teeth



頭長且吻端圓
Head long and snout rounded

胸鰭很長
Long pectoral fins

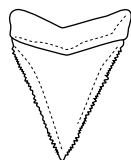
尾鰭上葉較尾鰭下葉長
Upper lobe of caudal fin much longer than lower lobe

Carcharodon carcharias

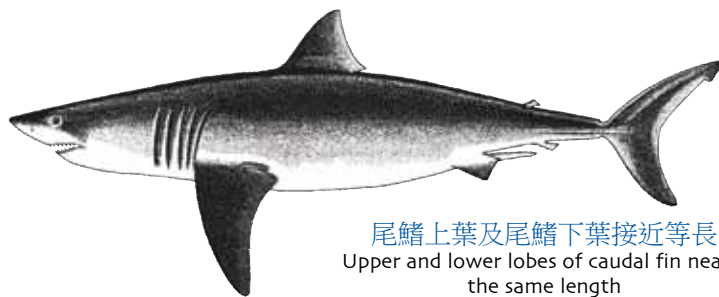
WSH



Taiwanese: 食人鯊
(大白鯊、油煙)
English: Great white shark
French: Grand requin blanc
Japanese: Hohojirozame,
Hohojiro, Iragi,
Maira
Hawaiian: Niuhi
Local:



上排牙齒形狀
Shape of upper teeth



尾鰭上葉及尾鰭下葉接近等長
Upper and lower lobes of caudal fin nearly
the same length

最大體長：7公尺
Maximum length: 7 m

Carcharhinus longimanus

OCS



Taiwanese: 污斑白眼鯊 (花鯊)

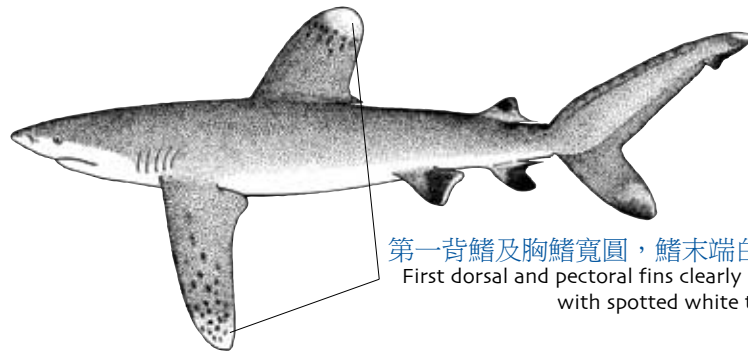
English: Oceanic whitetip shark

French: Requin océanique

Japanese: Yogore

Hawaiian: Mano nigano

Local:



第一背鰭及胸鰭寬圓，鰭末端白色並有清楚斑點
First dorsal and pectoral fins clearly broad and rounded,
with spotted white tips

Carcharhinus albimarginatus

ALS



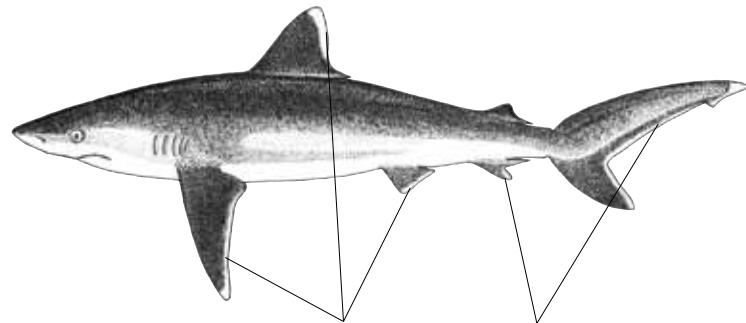
Taiwanese: 白邊鰐白眼鯊
(白翅尾仔)

English: Silvertip shark

French: Requin à pointes
blanches

Japanese: Tsumajiro

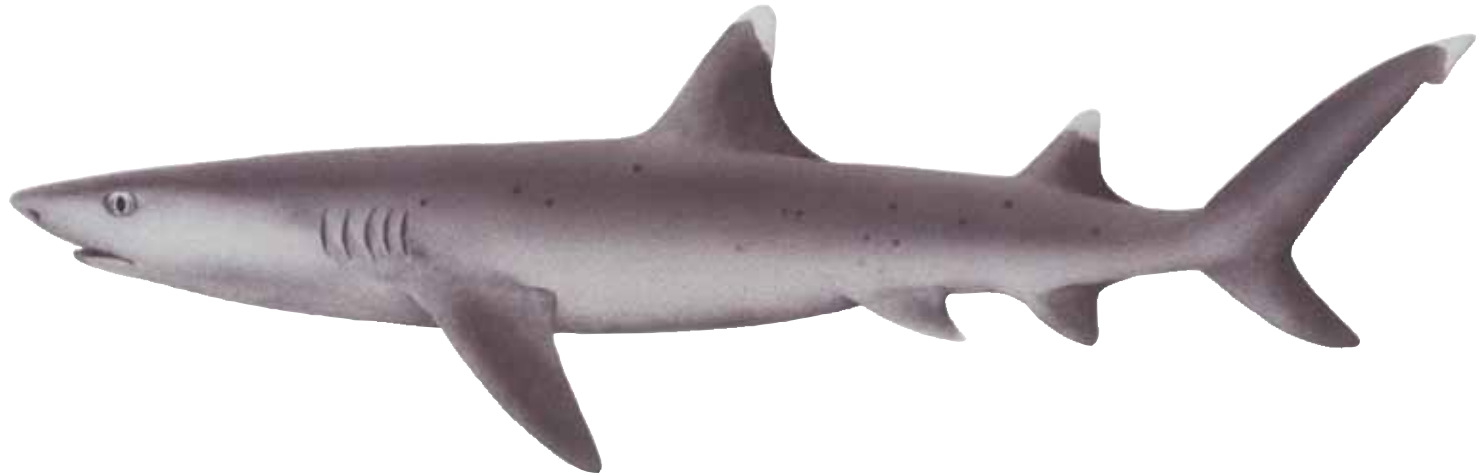
Local:



有鰐邊緣(不只尖端部分)帶白邊
Back edge (not just tips) of all fins white

Triaenodon obesus

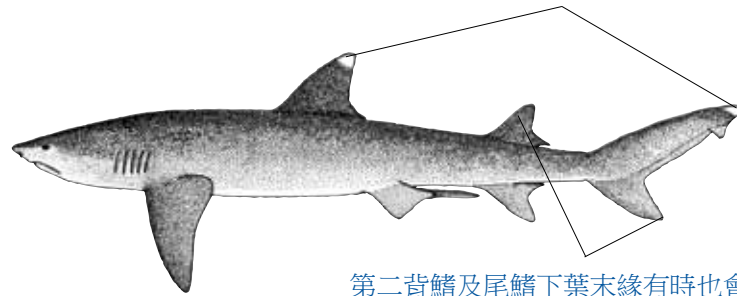
TRB



第一背鰭及尾鰭上葉末緣呈白色

Tips of first dorsal fin and upper lobe of caudal fin always white

Taiwanese: 鰲鯊 (白翅尾仔)
English: Whitetip reef shark
French: Requin corail
Japanese: Nemuribuka
Hawaiian: Mano lalakea
Local:



第二背鰭及尾鰭下葉末緣有時也會呈白色

Tips of second dorsal fin and lower lobe of caudal fin sometimes white

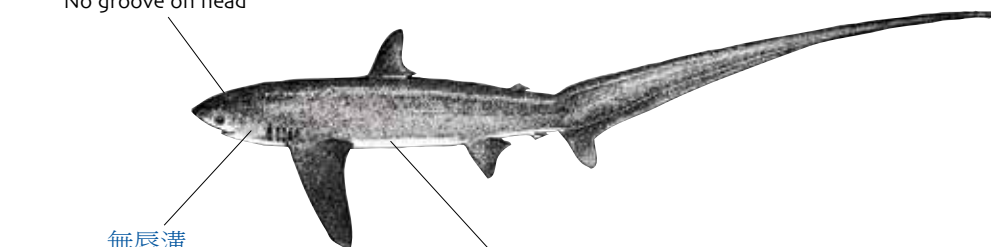
Alopias pelagicus

PTH



Taiwanese: 淺海狐鮫
(小目午仔)
English: Pelagic thresher
French: Renard pélagique
Japanese: Nitari
Hawaiian: Mano hi'uka,
Thresher shark
Local:

頭頂無溝
No groove on head



無唇溝
No groove at back of mouth

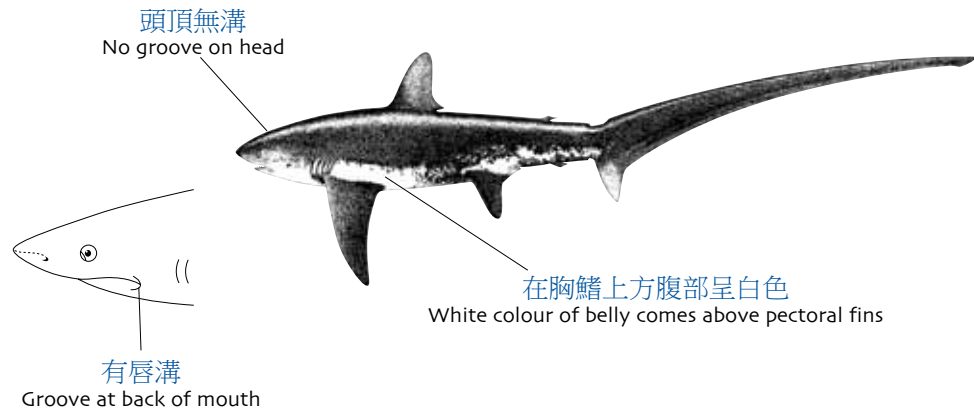
在胸鰭基部以後腹部呈白色
Light belly colour only below pectoral fins

Alopias vulpinus

ALV



Taiwanese: 狐鯊 (反種午仔)
English: Common thresher,
Thintail thresher
French: Renard
Japanese: Ma-onaga,
Onaga zame
Hawaiian: Thresher shark
Local:



頭頂無溝
No groove on head

有唇溝
Groove at back of mouth

在胸鰭上方腹部呈白色
White colour of belly comes above pectoral fins

Alopias superciliosus

BTH



Taiwanese: 深海狐鮫
(大目午仔)

English: Bigeye thresher

French: Renard à gros yeux

Japanese: Hachiware

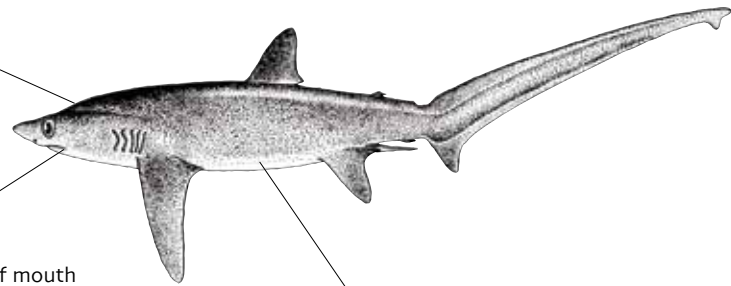
Hawaiian: Mano hi'uka,
Thresher shark

Local:

頭頂無溝
Groove on head

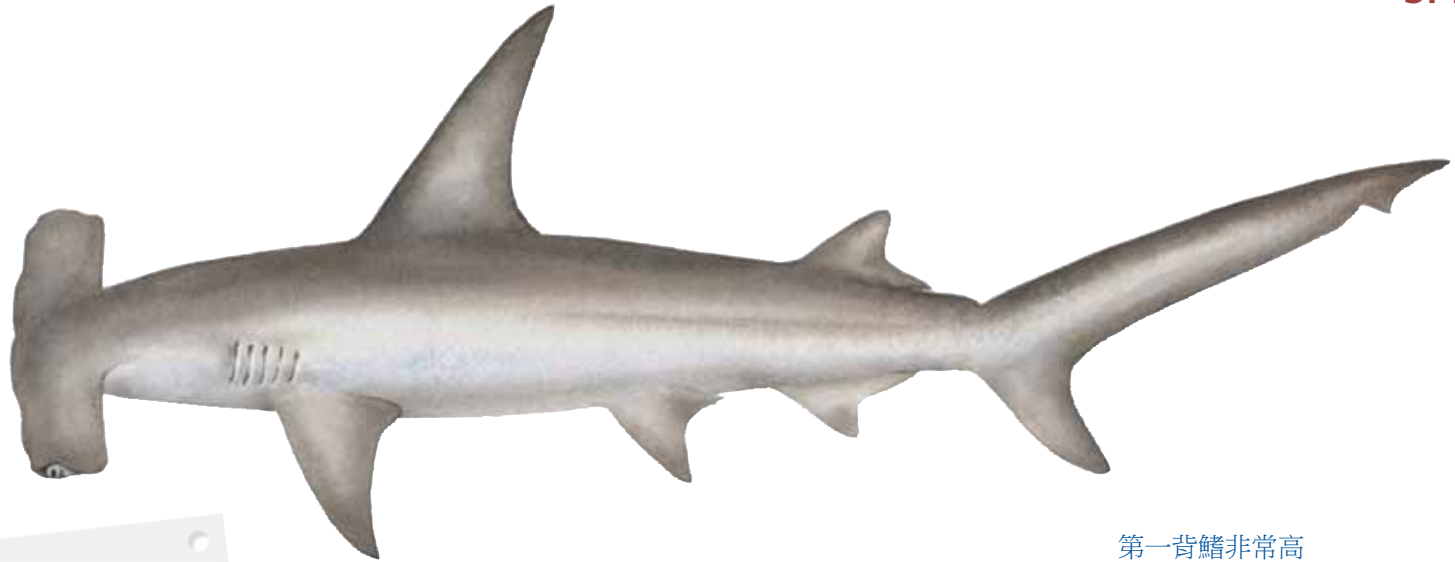
無唇溝
No groove at back of mouth

在胸鰭基部以後腹部較光亮
Light belly colour only below pectoral fins

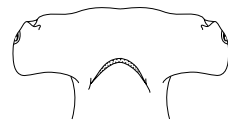
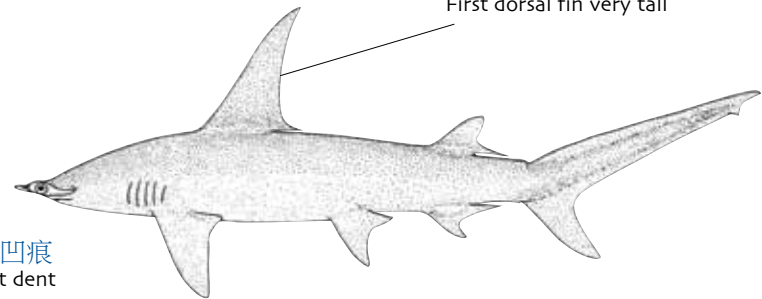


Sphyrna mokarran

SPK



第一背鰭非常高
First dorsal fin very tall

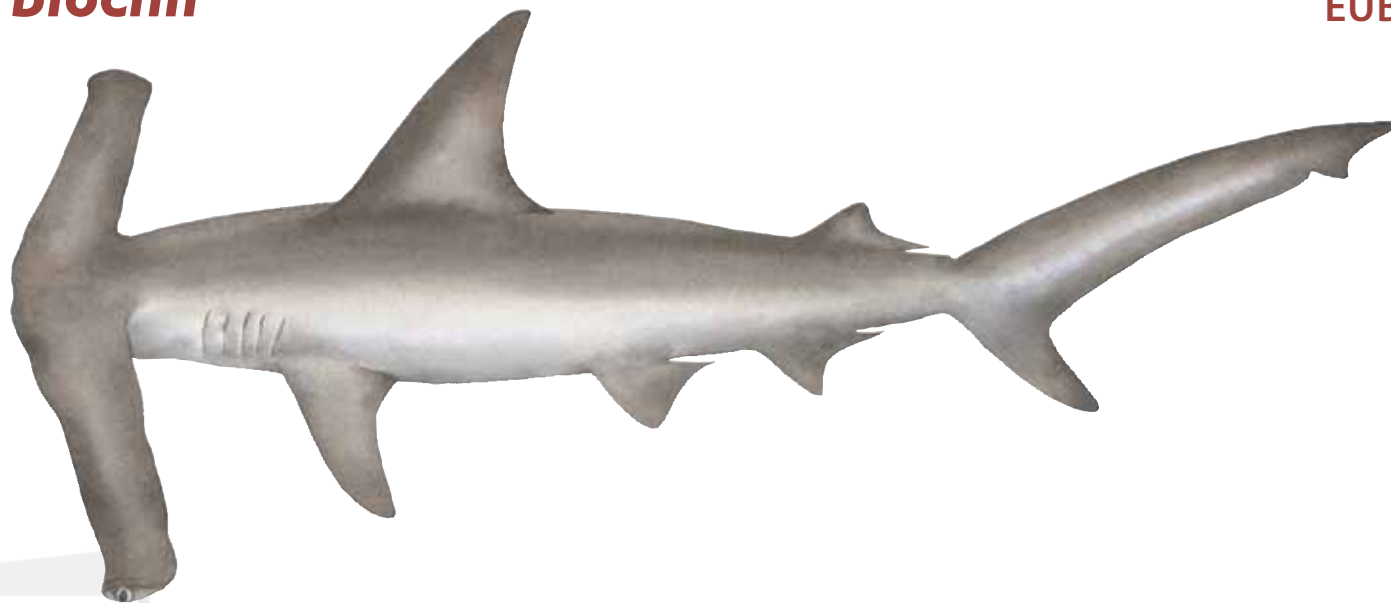


頭部前緣平直，頭部中間有稍微凹痕
Front of head nearly straight with slight dent
in middle

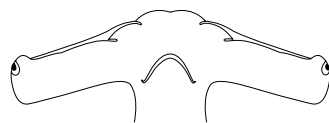
- Taiwanese: 八鰭Y髻鯊
(尖旗)
English: Great hammerhead
French: Grand requin
marteau
Japanese: Hirashumokuzame
Local:

Eusphyra blochii

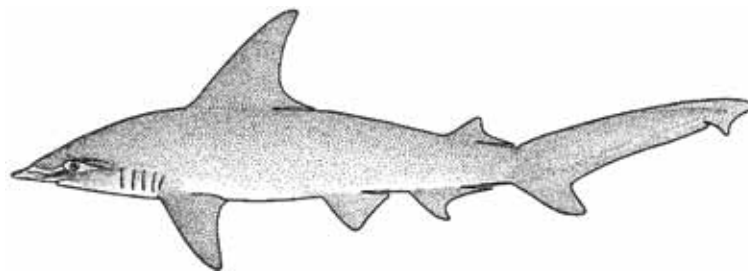
EUB



Taiwanese: 丁字Y髻鯊
(翼頭鯊)
English: Winghead shark
French: Requin marteau
planeur
Japanese: Indoshumokuzame
Local:



頭寬將近身體的一半
Head width nearly half of body length



Sphyrna lewini

SPL



Taiwanese: 紅肉Y髻鯊
(白皮仔)

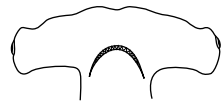
English: Scalloped
hammerhead

French: Requin marteau
halicorne

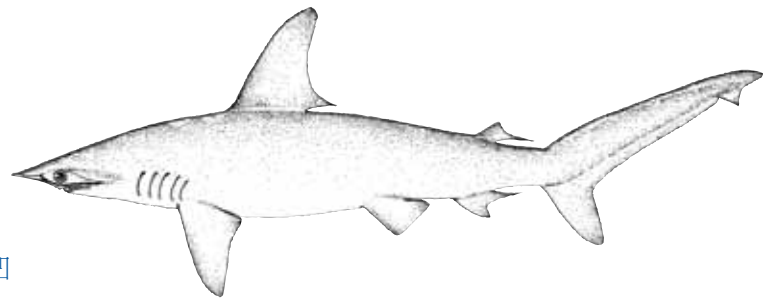
Japanese: Akashumokuzame

Hawaiian: Mano kihikihi

Local:



頭部前緣弧曲，頭部中間有凹
痕，頭部兩邊各有一片突葉
Front of head curved with middle
dent and a distinct lobe at each end



Sphyrna zygaena

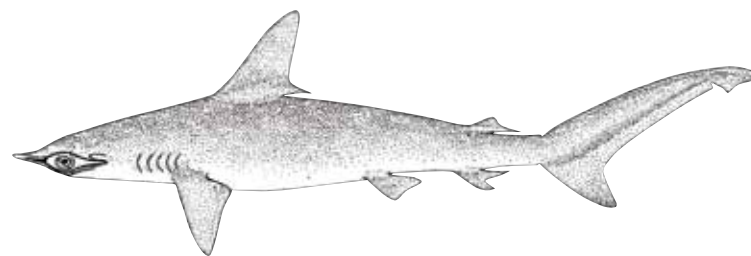
SPZ



Taiwanese: Y 髻鯊 (黑皮仔)
English: Smooth hammerhead
French: Requin marteau commun
Japanese: Shiroshumokuzame
Hawaiian: Mano kihikihi
Local:

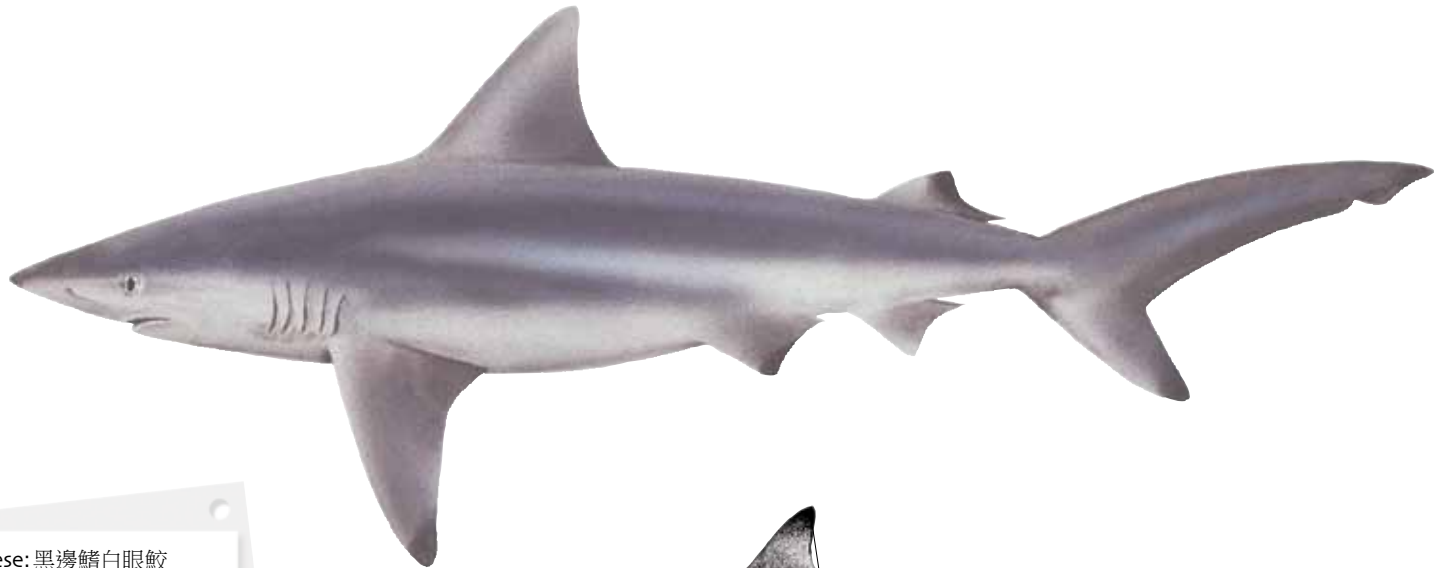


頭部前緣弧曲，頭部
中間無凹痕
Front of head curved
with no middle dent

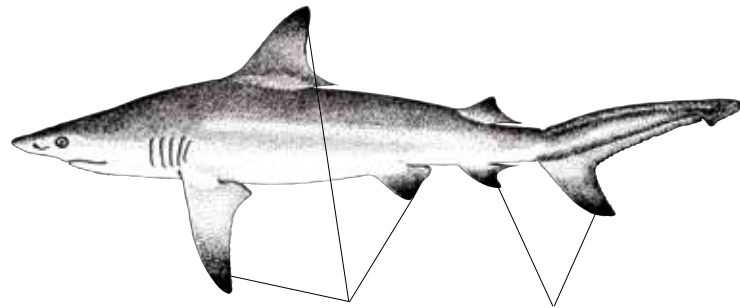


Carcharhinus limbatus

CCL



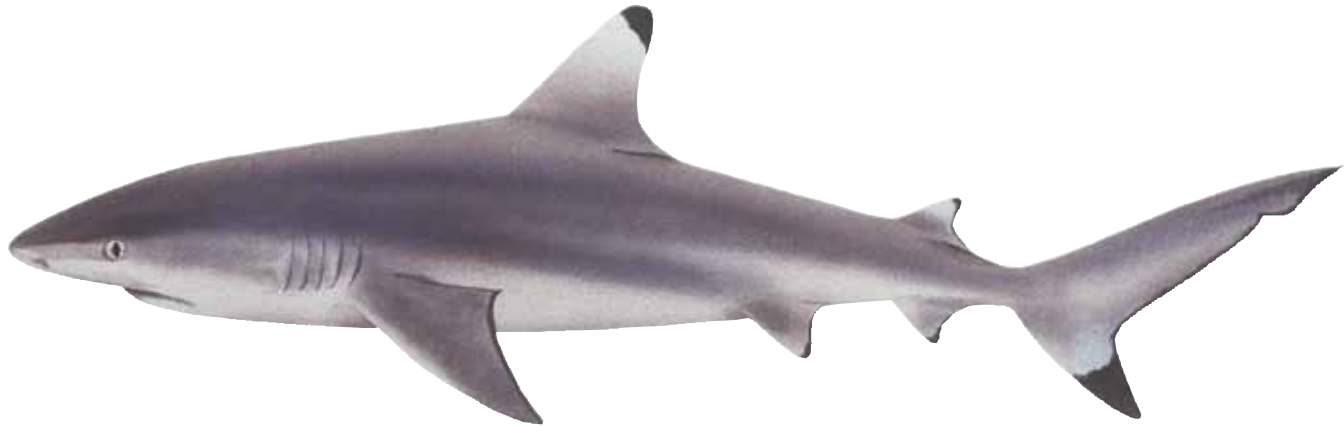
Taiwanese: 黑邊鰭白眼鯊
(黑翅尾仔)
English: Blacktip shark
French: Requin bordé
Japanese: Kamasutogarizame
Hawaiian: Blackfin shark
Local:



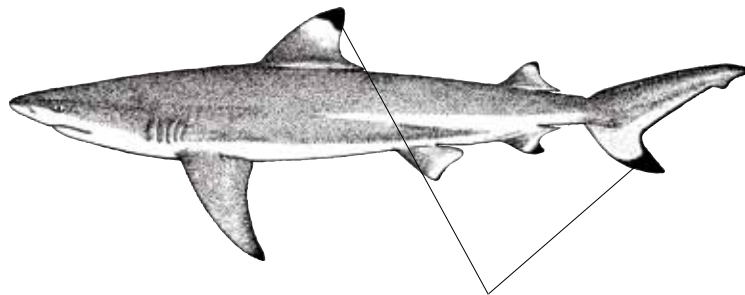
大部分鰭端呈暗黑色
Dark-to-black tips on most fins

Carcharhinus melanopterus

BLR



Taiwanese: 污翅白眼鯊
(烏翅尾仔)
English: Blacktip reef shark
French: Requin à pointes
noires
Japanese: Tsumaguro
Hawaiian: Mano pa'ele
Local:

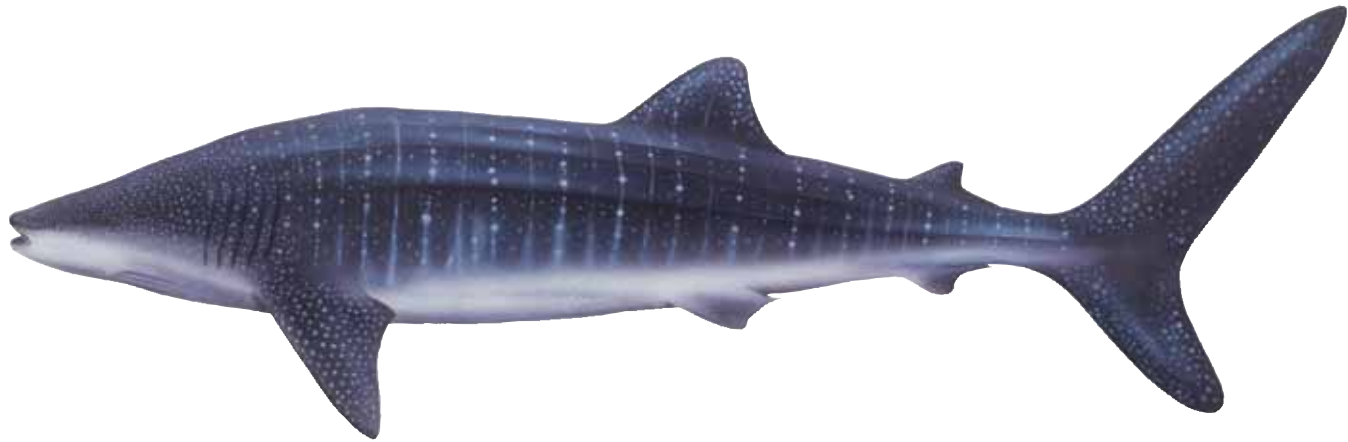


第一背鰭末端及尾鰭下葉被緣末端帶黑邊

Distinct black markings on tips of first dorsal fin and lower lobe of caudal fin

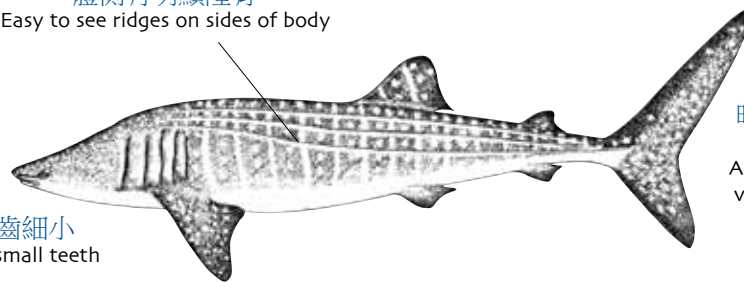
Rhincodon typus

RHN



體側有明顯隆脊

Easy to see ridges on sides of body



牙齒細小
Very small teeth

暗色背景下有明顯的垂直條紋
及亮斑

A very clear pattern of light spots and
vertical stripes on a dark background

最大體長：18公尺
Maximum length: 18 m

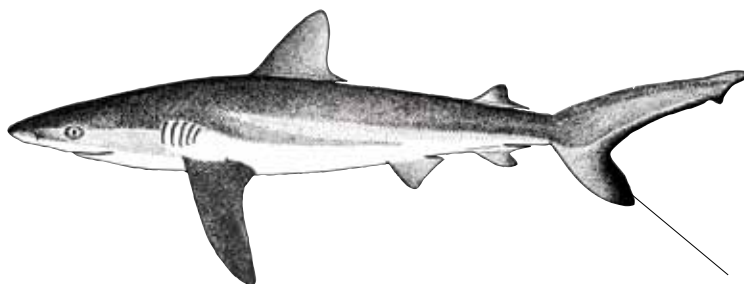
Taiwanese: 鯨鯊 (豆腐鯊)
English: Whale shark
French: Requin baleine
Japanese: Jinbeizame
Local:

Carcharhinus amblyrhynchos

AML



Taiwanese: 黑印白眼鯊
English: Grey reef shark
French: Requin dagsit,
Requin gris de récif
Japanese: Oguromejirozame,
Hairomejirozame
Hawaiian: Mano lalakea
Local:



尾鰭背緣有明顯黑色寬帶
Broad black band at back edge of caudal fin

Megachasma pelagios

LMP



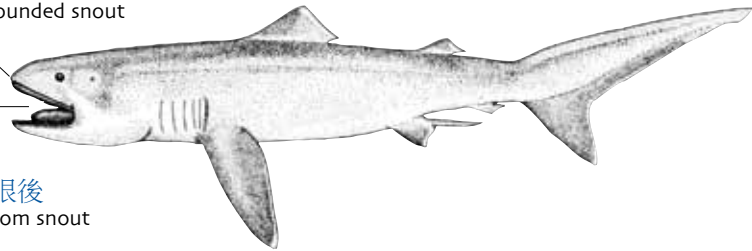
Taiwanese: 巨口鯊 (大嘴鯊)
English: Megamouth shark
French: Requin grande gueule
Japanese: Megamausu
Local:

吻部短且寬圓

Short but broadly rounded snout

口大從吻部延伸到眼後

Huge mouth that extends from snout to behind the eyes



最大體長：6公尺
Maximum length: 6 m

Cetorhinus maximus

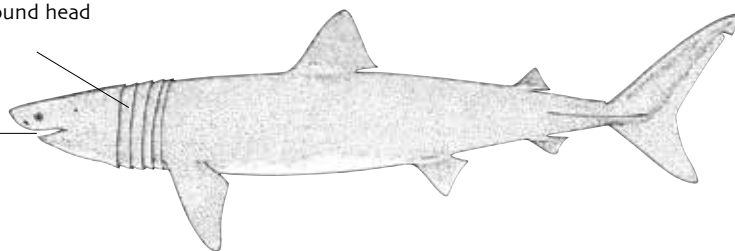
BSK



Taiwanese: 象鯨 (姥鯊)
English: Basking shark
French: Pèlerin
Japanese: Ubazame
Local:

鰓裂非常大，幾乎環繞頭部
Massive gill slits extending almost
all the way around head

牙齒極細小
Very small teeth



最大體長：12公尺
Maximum length: 12 m

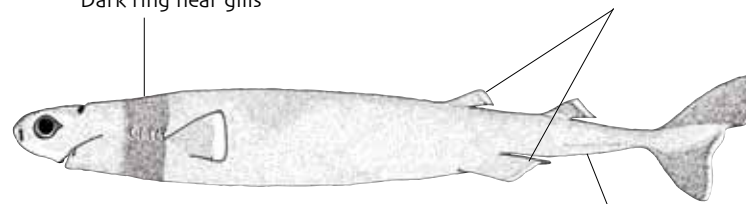
Isistius brasiliensis

ISB



在鰓部有暗色環帶
Dark ring near gills

第一背鰭及腹鰭位在魚體的較後方
First dorsal and pelvic fins way back



無臀鰭
No anal fin

最大體長：50公分
Maximum length: 50 cm

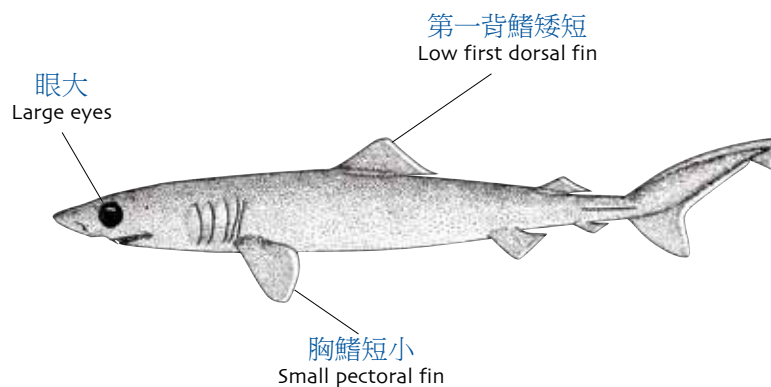
- Taiwanese: 雪茄鯊
(巴西達摩鯊)
- English: Cookie cutter shark
- French: Squalelet féroce
- Japanese: Darumazame
- Hawaiian: Cookie cutter shark
- Local:

Pseudocarcharias kamoharai

PSK



Taiwanese: 蒲原氏擬錐齒鯊
(貓公、鱧鯊)
English: Crocodile shark
French: Requin crocodile
Japanese: Mizuwani,
Shikkui, Tobituki
Local:



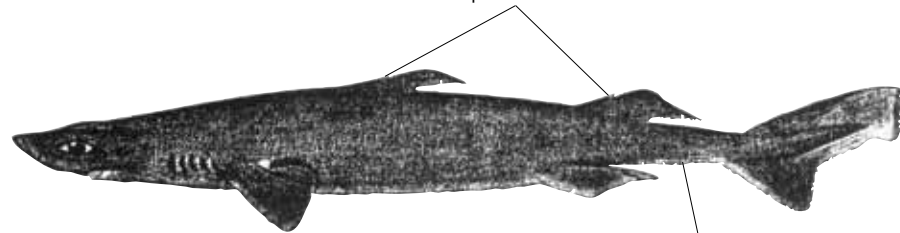
最大體長：110公分
Maximum length: 110 cm

Scymnodon squamulosus

SSQ



兩背鰭上有突出硬棘
Small spines on both dorsal fins



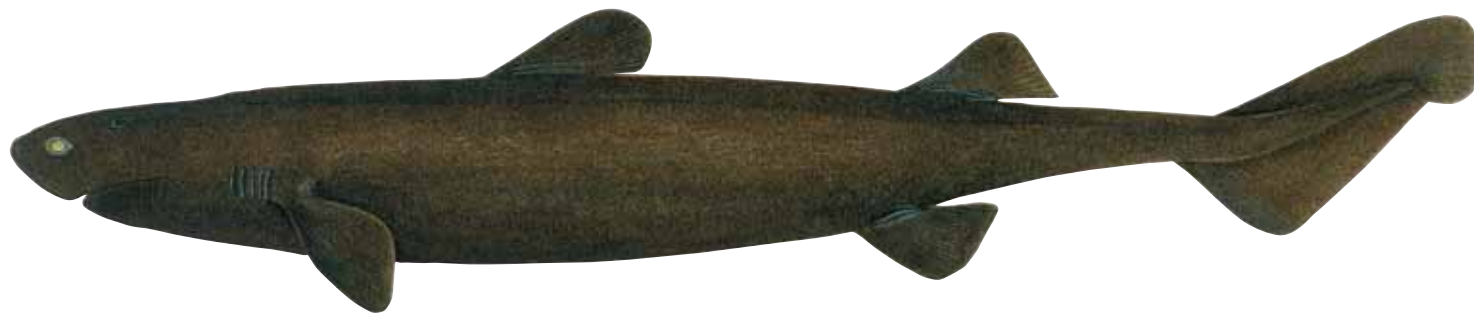
無臀鰭
No anal fin

最大體長：85公分
Maximum length: 85 cm

Taiwanese: 異鱗鮫 (刺鯊)
English: Velvet dogfish
French: Squale grogneur velouté
Japanese: Birodozame
Local:

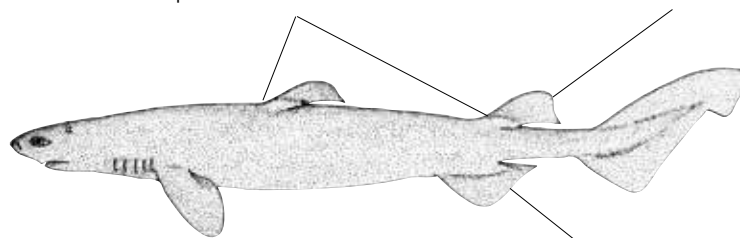
Dalatias licha

SCK



兩背鰭上無突出硬棘
No spine on dorsal fins

第二背鰭比第一背鰭大或大小相近
Second dorsal fin same size or larger than first dorsal fin



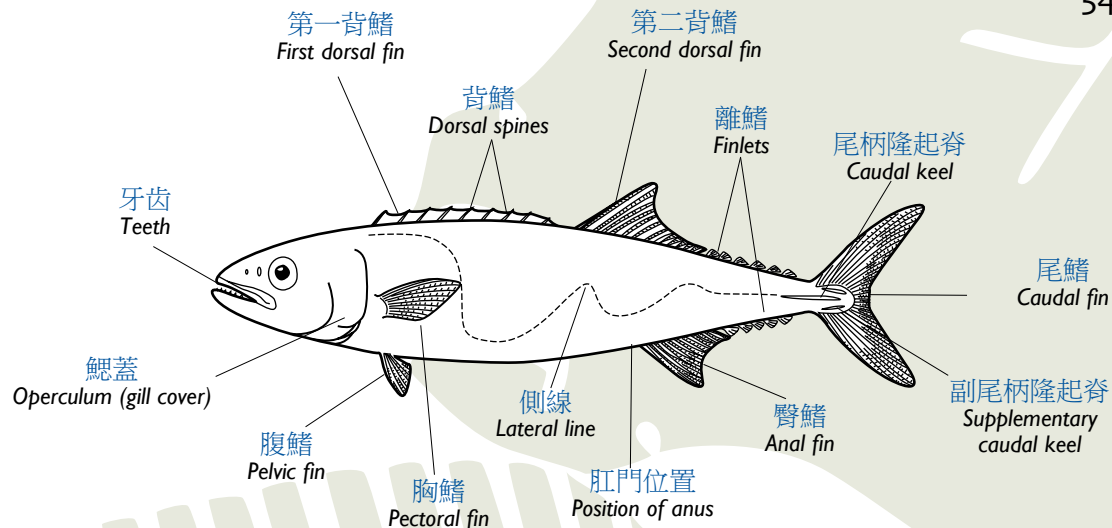
腹鰭大且無臀鰭
Large pelvic fin and no anal fin

最大體長:160公分
Maximum length: 160 cm

Taiwanese: 黑鮫 (黑豬罐)
English: Kitefin shark,
Seal shark
French: Squale liche
Japanese: Yoroizame
Local:

其他魚類

Other fish species



| Scientific | Taiwanese | English | FAO code | Page |
|----------------------------------|---------------|--|----------|------|
| <i>Grammistes sexlineatus</i> | 六線黑鱸；包公 | Goldenstriped soapfish, Sixline soapfish | GSE | 83 |
| <i>Sphyaena barracuda</i> | 巴拉金梭魚、金梭 | Great barracuda | GBA | 79 |
| <i>Lampris guttatus</i> | 斑點月魚；月魚；花點三角仔 | Opah, Moonfish | LAG | 62 |
| <i>Lophotus capellei</i> | 凹鰭冠帶魚；冠帶魚 | Unicornfish | LOP | 90 |
| <i>Masturus lanceolatus</i> | 矛尾翻車魷；翻車魚；曼波 | Sharptail mola, Sharptail sunfish | MRW | 64 |
| <i>Lagocephalus lagocephalus</i> | 兔頭魷 | Rabbit puffer, Oceanic puffer | LGH | 82 |
| <i>Lophotus lacepede</i> | 拉氏冠帶魚 | Crested oarfish, Crestfish | LLL | 91 |
| <i>Alepisaurus ferox</i> | 帆蜥魚；長吻帆蜥魚 | Long snouted (longnose) lancetfish | ALX | 77 |
| <i>Assurger anzac</i> | 長剃刀帶魚 | Razorback scabbardfish | ASZ | 92 |
| <i>Cubiceps gracilis</i> | 長鰭方頭鯧 | Driftfish | CBG | 67 |
| <i>Scombrlabrax heterolepis</i> | 長鰭帶鰭 | Longfin escolar, Black mackerel | SXH | 86 |
| Regalecidae | 皇帶魚科 | Oarfish | RRG | 95 |

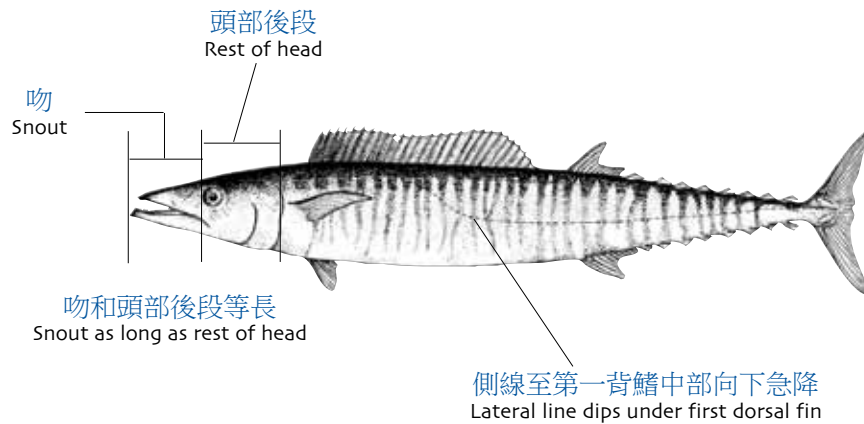
| Scientific | Taiwanese | English | FAO code | Page |
|------------------------------------|---------------|--|----------|------|
| <i>Brama brama</i> | 烏魴 | Atlantic pomfret, Ray's bream | POA | 60 |
| Bramidae (other) | 其他烏魴科 | Other pomfrets and fanfishes | BRZ | 61 |
| <i>Eumegistus illustris</i> | 真烏魴 | Brilliant pomfret, Lustrous pomfret | EBS | 59 |
| <i>Coryphaena hippurus</i> | 鬼頭刀 | Common dolphinfish, Mahi mahi | DOL | 66 |
| Trichiuridae (other) | 帶魚科(其他) | Other scabbardfishes, hairtails, frostfishes | CUT | 93 |
| <i>Gempylus serpens</i> | 帶鱸；刀梭 | Snake mackerel | GES | 71 |
| Gempylidae (other) | 帶鱸科(其他) | Other gemfish and snake mackerels | GEP | 75 |
| <i>Scomberomorus commerson</i> | 康氏馬加鱸；土魴 | Narrow-barred Spanish mackerel | COM | 57 |
| <i>Nesiarchus nasutus</i> | 異鱗蛇鯖 | Black gemfish | NEN | 73 |
| Trachipteridae | 粗鱸魚科 | Ribbonfish and Dealfish | TRX | 94 |
| <i>Sphyaena jello</i> | 斑條金梭魚、針梭 | Pickhandle barracuda | BAC | 80 |
| <i>Ranzania laevis</i> | 斑點長翻車魴；翻車魚；曼波 | Slender sunfish | RZV | 63 |
| <i>Taractichthys steindachneri</i> | 斯氏長鱸烏魴 | Sickle pomfret | TST | 58 |
| <i>Acanthocybium solandri</i> | 棘鱸；石喬 | Wahoo | WAH | 56 |
| <i>Alepisaurus brevirostris</i> | 短吻帆蜥魚 | Short snouted (shortnose) lancetfish | ALO | 76 |
| <i>Rexea solandri</i> | 短帶鱸；短蛇鯖 | Silver gemfish | GEM | 74 |
| <i>Promethichthys prometheus</i> | 紫金魚；帶梭 | Roudi escolar, Snake mackerel | PRP | 70 |
| <i>Dasyatis violacea</i> | 紫魴 | Pelagic stingray | PLS | 87 |
| <i>Seriola lalandi</i> | 黃條魴 | Yellowtail amberjack | YTC | 85 |
| <i>Thyrsites atun</i> | 黑帶鱸；杖蛇鯖 | Snoek, Barracouta | SNK | 72 |
| <i>Sphyaena genie</i> | 暗鱸金梭魚 | Blackfin barracuda | BAB | 81 |
| <i>Mobula spp.</i> | 蝠鱝屬 | Other manta rays and devil rays | MNT | 89 |
| <i>Ruvettus pretiosus</i> | 薔薇帶鱸；粗鱸仔 | Oilfish | OIL | 69 |
| <i>Omosudis lowei</i> | 錘頭魚 | Omosudid, Hammerjaw | OMW | 78 |
| <i>Mola mola</i> | 翻車魴；翻車魚；曼波 | Ocean sunfish | MOX | 65 |
| <i>Manta birostris</i> | 雙吻前口蝠鱝；鬼蝠魴 | Giant manta | RMB | 88 |
| <i>Elagatis bipinnulata</i> | 雙帶魴 | Rainbow runner | RRU | 84 |
| <i>Lepidocybium flavobrunneum</i> | 鱗網帶鱸；細鱸仔 | Escolar | LEC | 68 |

Acanthocybium solandri

WAH

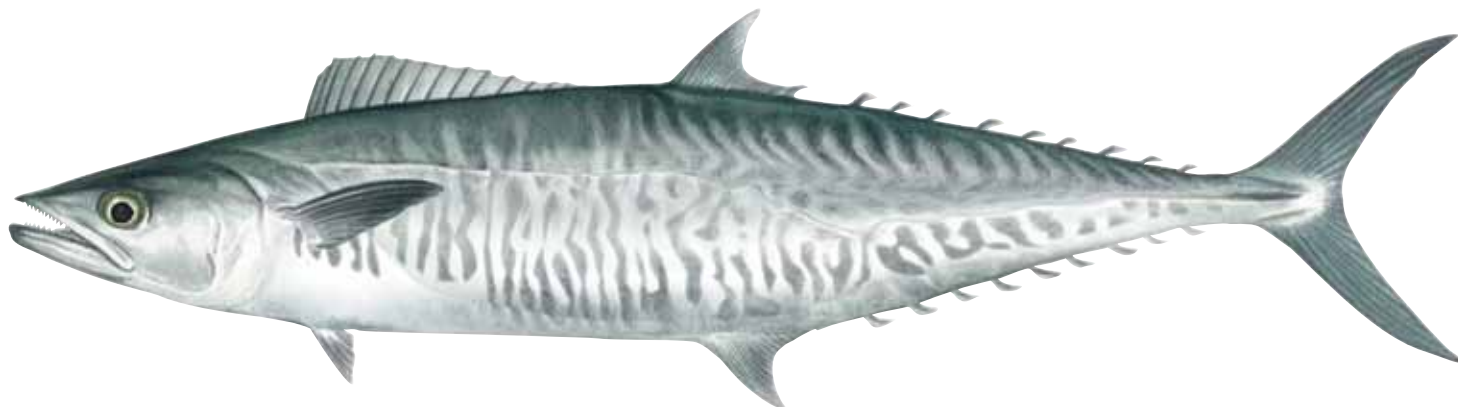


Taiwanese: 棘鱗 (石喬)
English: Wahoo
French: Thazard-bâtard
Japanese: Kamasu-sawara
Hawaiian: Ono
Local:

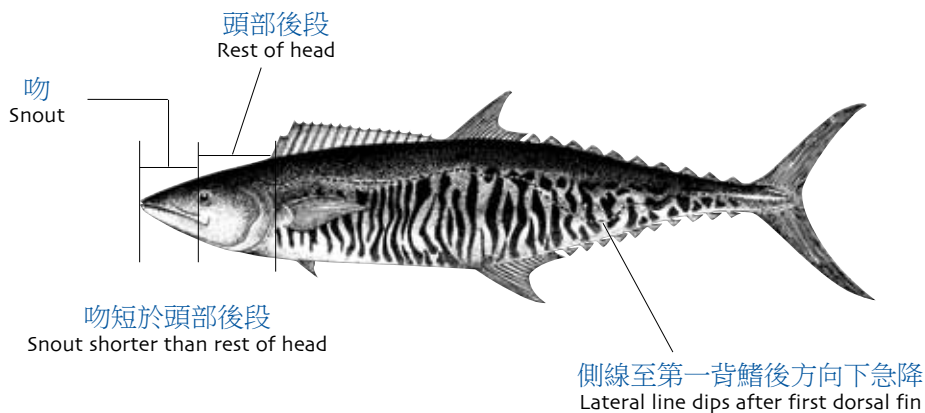


Scomberomorus commerson

COM



Taiwanese: 康氏馬加鱈 (土魷)
English: Narrow-barred Spanish mackerel
French: Thazard rayé indo-pacifique
Japanese: Yokoshima-sawara
Local:



Taractichthys steindachneri

TST



第一背鰭與臀鰭明顯很長
Obviously long first dorsal
and anal fins

尾鰭具白緣
White margin
on caudal fin

鱗片大
Large scales

腹脊
Ventral ridge

腹鰭間區域呈圓形狀
Interpelvic area rounded

肛門
Anus

Taiwanese: 斯氏長鰭烏魴
(黑皮刀、三角仔)

English: Sickle pomfret

French: Castagnole fauchoir,
Brème noire

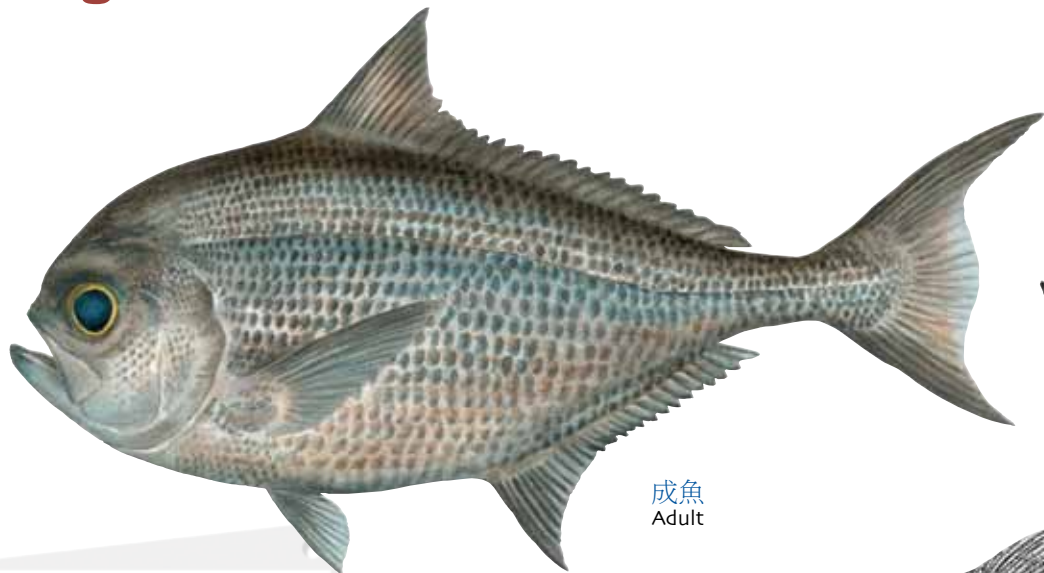
Japanese: Hirejiro-manzai-uo

Hawaiian: Monchong,
Pomfret

Local:

Eumegistus illustris

EBS

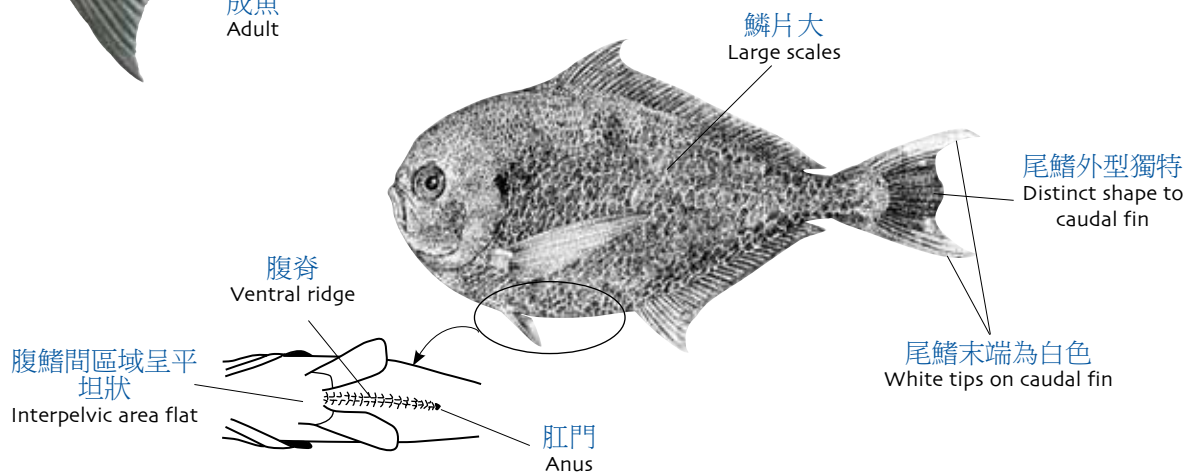


成魚
Adult



幼魚(30公分以下)
Juvenile (to 30 cm)

- Taiwanese: 真烏魴
- English: Brilliant pomfret, Lustrous pomfret
- French: Brème noire brillante
- Japanese: Chikame-echiopia
- Hawaiian: Monchong, Pomfret
- Local:



Brama brama

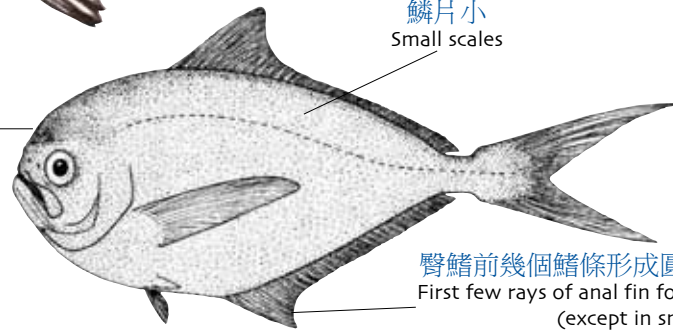
POA



Taiwanese: 烏魴
English: Atlantic pomfret,
Ray's bream
French: Grande castagnole
Japanese: Echiopia,
Shimagatsuo
Local:

頭部明顯隆起(圓凸)
Head obviously arched

鱗片小
Small scales

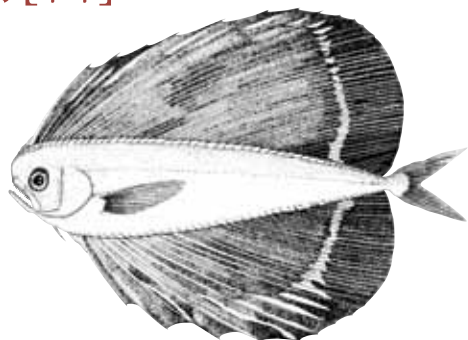


臀鰭前幾個鰭條形成圓形凸角(小的幼魚除外)
First few rays of anal fin forming a well-developed lobe
(except in small juveniles)

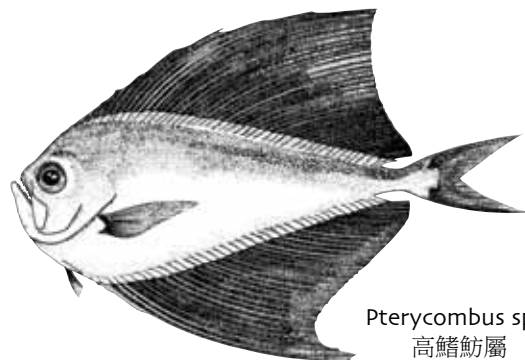
Bramidae (other)

烏魴[科]

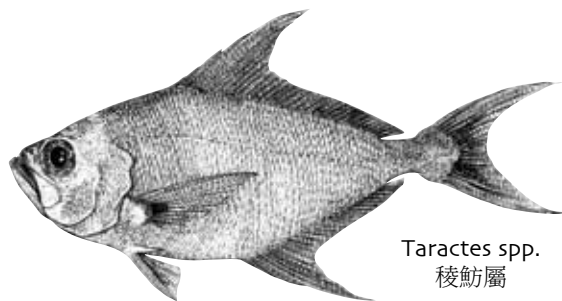
BRZ



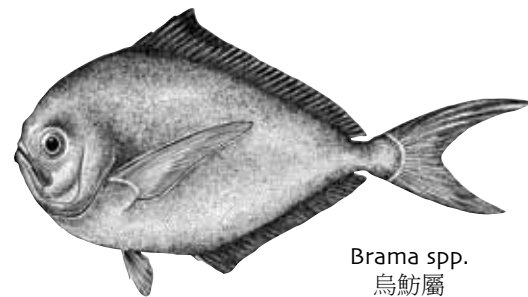
Pteraclis spp.
帆鰭魴屬



Pterycombus spp.
高鰭魴屬



Taractes spp.
稜魴屬



Brama spp.
烏魴屬

本科的魚種：

- 下頷角度非常傾斜
- 單一背鰭
- 成魚尾鰭呈現明顯的叉狀

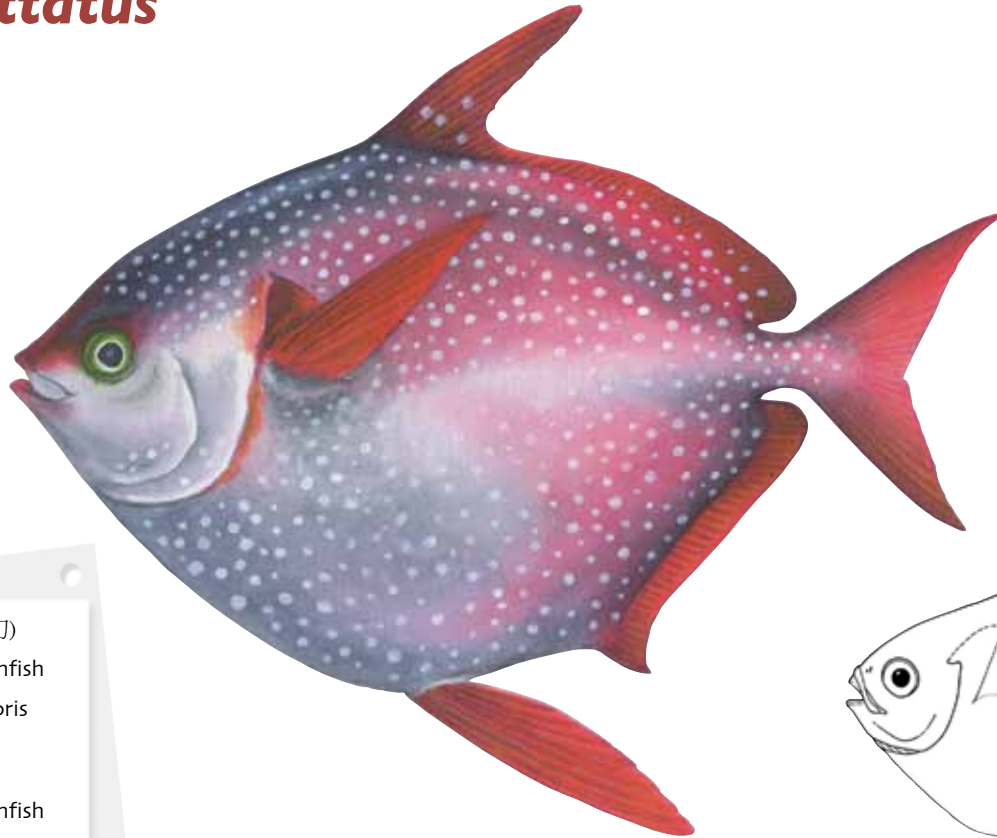
Species in this family have:

- Angle of jaw very slanted
- Single dorsal fin
- Caudal fin of adults strongly forked

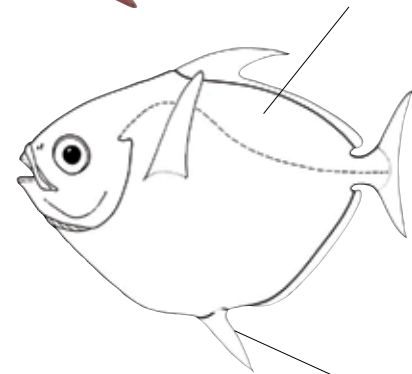
Taiwanese: 其他烏魴和鰭魴
English: Other pomfrets and fanfishes
French: Autres Bramidae
Japanese: Shima-gatuo
Hawaiian: Monchong
Local:

Lampris guttatus

LAG



體型、顏色和斑紋獨特
Distinct body shape, colour
and markings

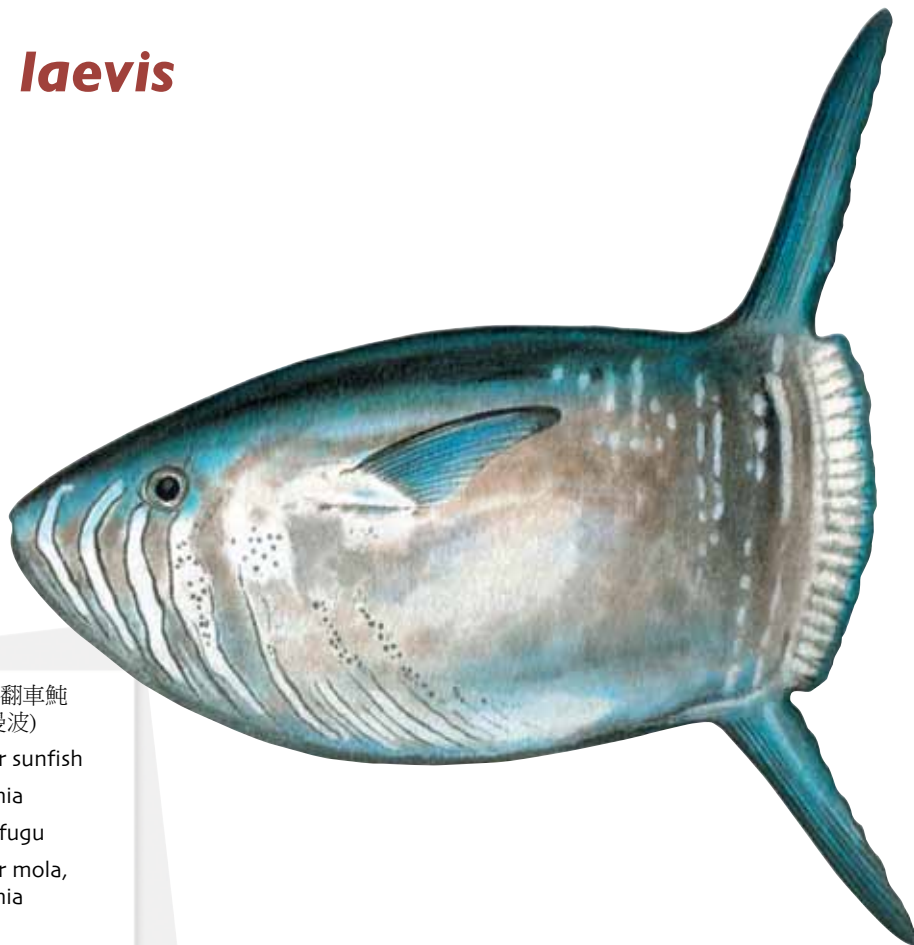


腹鰭長
Long pelvic fin

- Taiwanese: 月魚 (紅皮刀)
- English: Opah, Moonfish
- French: Opah, Lampris
- Japanese: Akamanbo, Mandai
- Hawaiian: Opah, Moonfish, Manendai
- Local:

Ranzania laevis

RZV



Taiwanese: 斑點長翻車魷
(圓尾曼波)

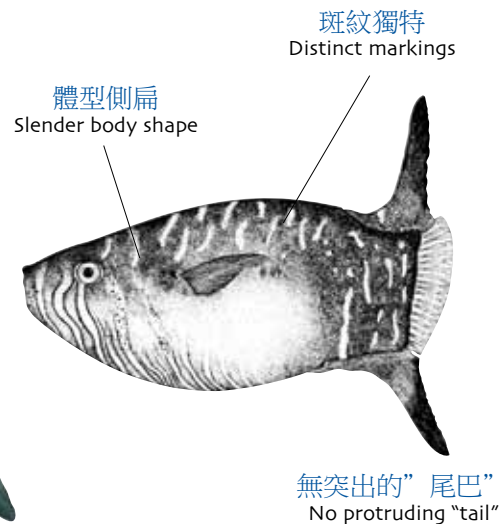
English: Slender sunfish

French: Ranzania

Japanese: Kusabifugu

Hawaiian: Slender mola,
Ranzania

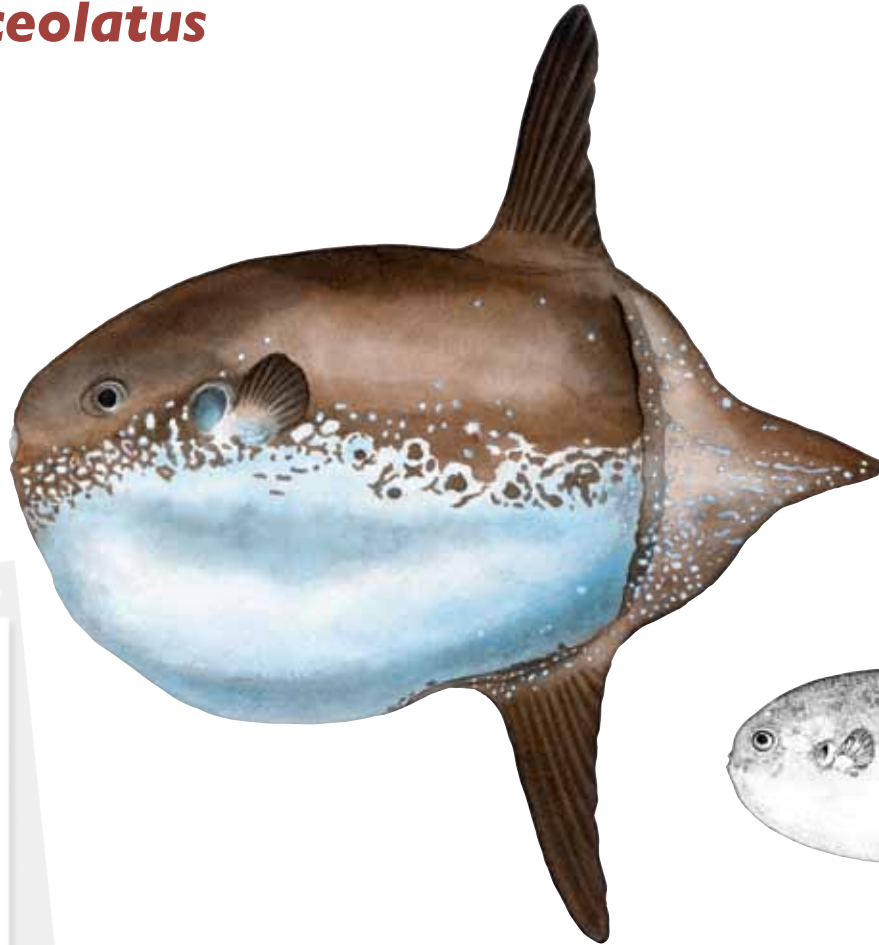
Local:



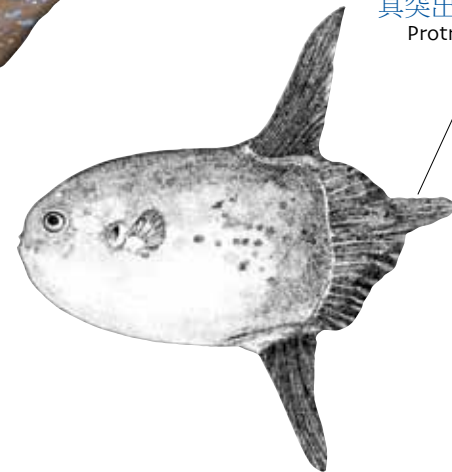
最大體長：80公分
Maximum length: 80 cm

Masturus lanceolatus

MRW



具突出的”尾巴”
Protruding "tail"



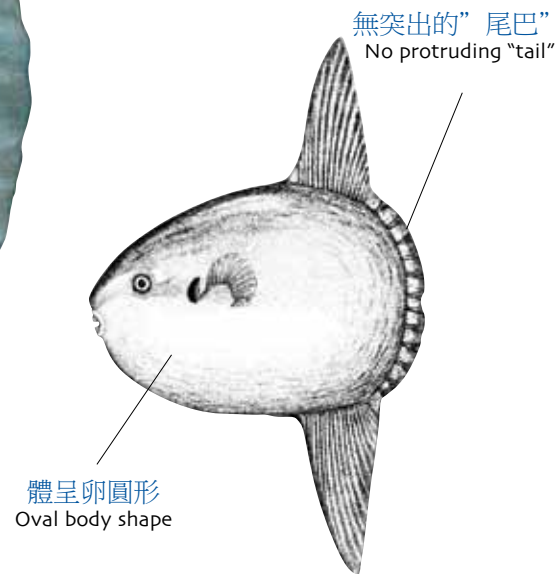
Taiwanese: 矛尾翻車魷
(尖尾曼波)
English: Sharptail mola,
Sharptail sunfish
French: Poisson-lune à
queue pointue
Japanese: Yarimanbo
Hawaiian: Mola, Sunfish
Local:

Mola mola

MOX

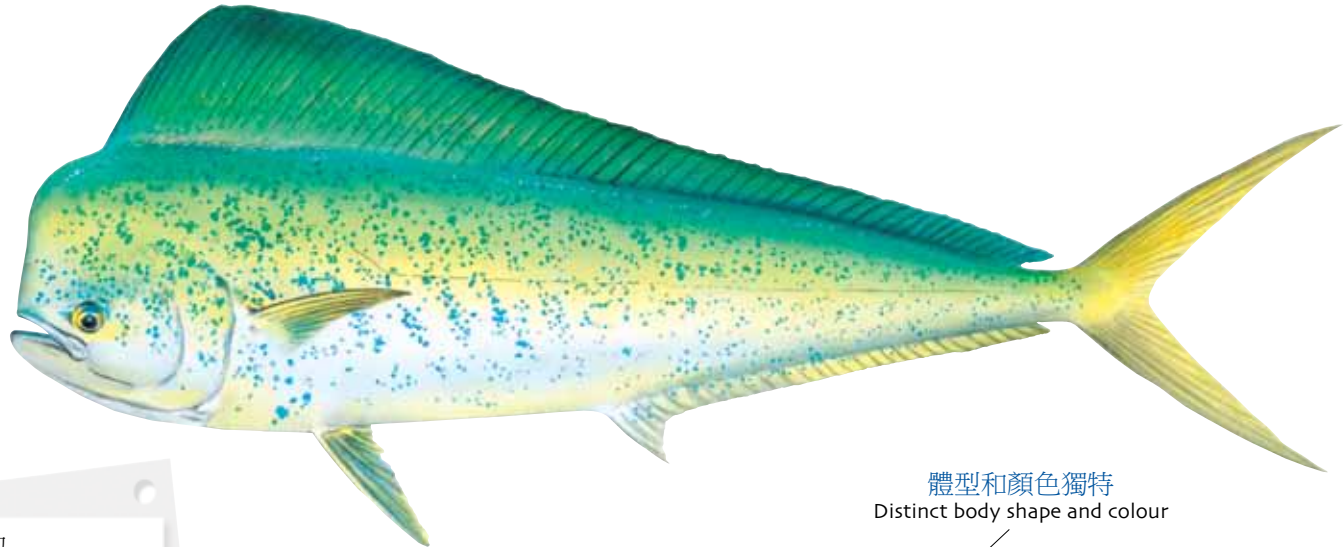


Taiwanese: 翻車魷
(寬尾曼波)
English: Ocean sunfish
French: Poisson-lune
Japanese: Manbo
Hawaiian: Mola mola,
Makua, Sunfish
Local:

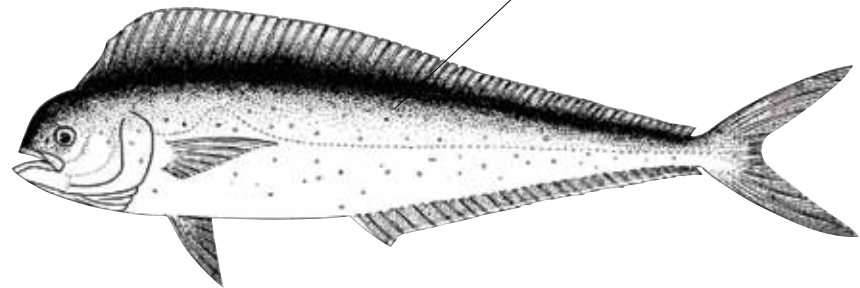


Coryphaena hippurus

DOL



體型和顏色獨特
Distinct body shape and colour



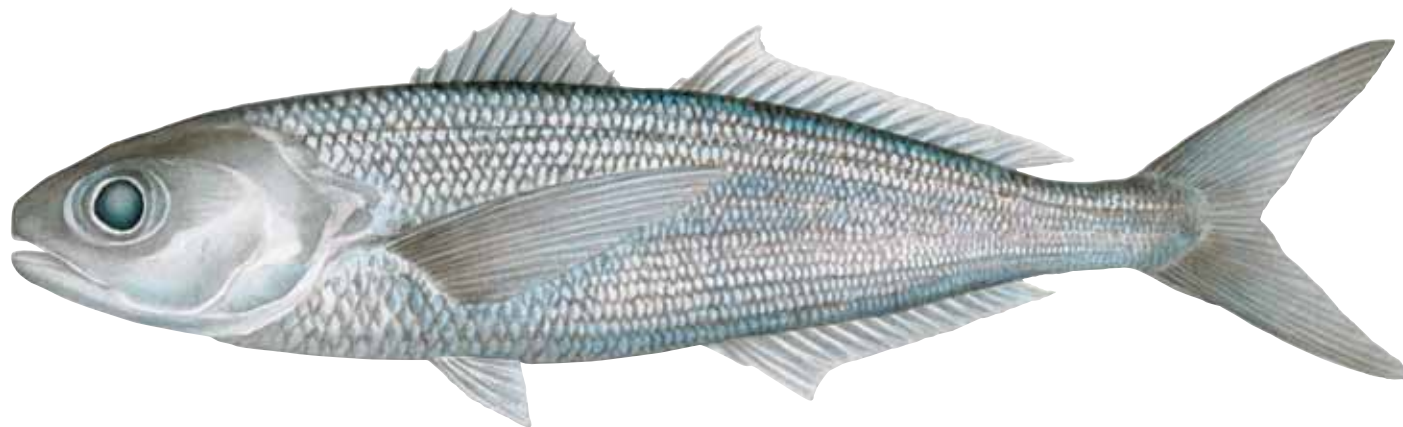
雄性
Male

雌性
Female

- Taiwanese: 鬼頭刀
- English: Common dolphinfish, Mahi mahi
- French: Coryphène commune, Mahi mahi
- Japanese: Shiira, Toohyaku
- Hawaiian: Mahimahi, Oma, Lapa
- Local:

Cubiceps gracilis

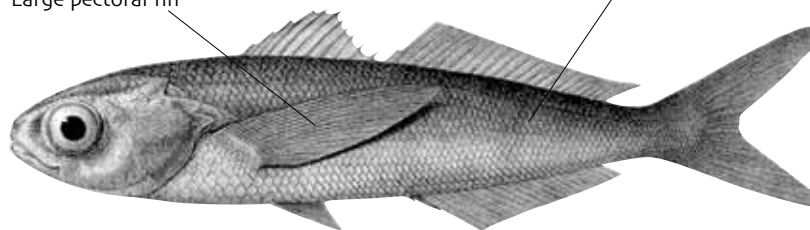
CBG



Taiwanese: 長鰭方頭鯧
English: Driftfish
French: Dérivant
Japanese: Boozukonnyaku-zoku
Local:

胸鰭大
Large pectoral fin

鱗片分明
Well defined scales



最大體長：107公分
Maximum length: 107 cm

Lepidocybium flavobrunneum

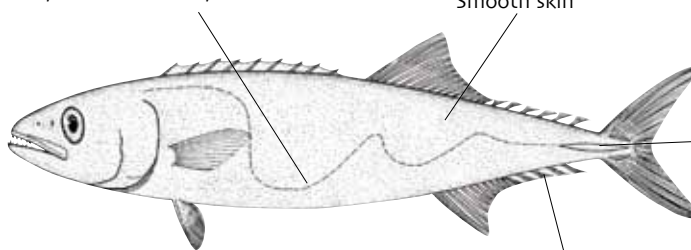
LEC



Taiwanese: 鱗網帶鯖 (細鱗油魷)
English: Escolar
French: Escolier noir
Japanese: Aburasokomutsu
Hawaiian: Smooth-skin walu,
Hawaiian butterfish
Local:

側線呈波浪狀，有時並不明顯
Wavy lateral line, may be faded

體表光滑
Smooth skin



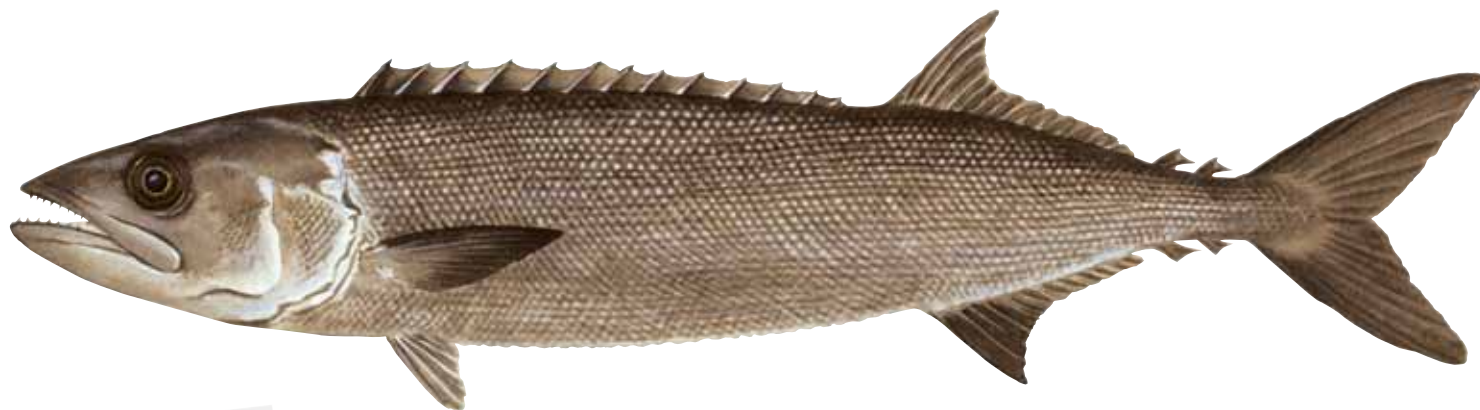
尾柄隆起脊兩側上下各具副尾
柄隆起脊

Main caudal keel with two smaller
supplementary keels

4個或更多的離鰭
Four or more finlets

Ruvettus pretiosus

OIL



Taiwanese: 薔薇帶鯖 (粗鱗油魷)

English: Oilfish

French: Rouvet

Japanese: Baramutsu

Hawaiian: Walu,
Rough walu,
Hawaiian butterfish

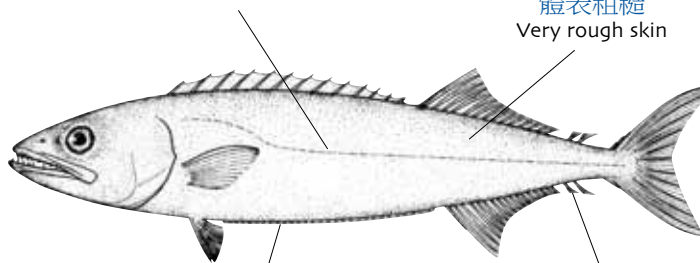
Local:

從尾鰭延伸到胸鰭間的側線較直

Lateral line relatively straight from caudal fin to pectoral fin

體表粗糙

Very rough skin



具尖銳的稜脊
Sharp scaly keel

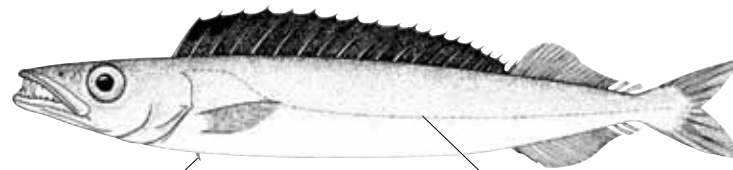
兩個臀離鰭
Two anal finlets

Promethichthys prometheus

PRP



Taiwanese: 紫金魚 (帶梭)
English: Roudi escolar,
Snake mackerel
French: Escolier clair
Japanese: Kuroshibikamasu
Hawaiian: Snake mackerel
Local:



腹鰭小，僅由一個非常小的棘和軟鰭條組成
Small pelvic fin, represented by a single very small
spine and soft ray

單一側線
Single lateral line

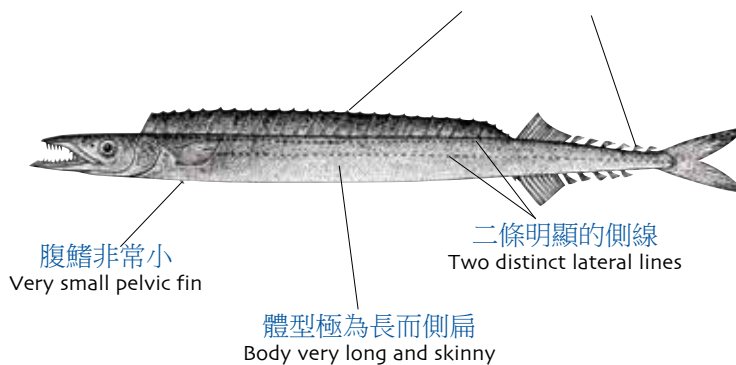
Gempylus serpens

GES



第一背鰭長，第二背鰭短，其後有5或6個離鰭
First dorsal fin very long, second dorsal fin short and followed by five or six finlets

Taiwanese: 帶鰭 (刀梭)
English: Snake mackerel
French: Escolier serpent
Japanese: Kurotachikamasu
Hawaiian: Snake mackerel
Local:



腹鰭非常小
Very small pelvic fin

二條明顯的側線
Two distinct lateral lines

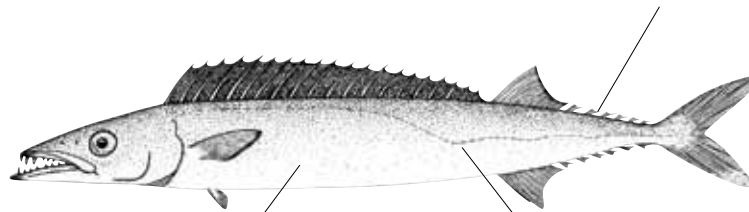
體型極為長而側扁
Body very long and skinny

Thyrsites atun

SNK



第二背鰭和臀鰭後具有6或7個離鰭
Second dorsal and anal fins followed by six or seven finlets



體表光滑
Smooth skin

單一明顯的細波浪形側線
Single obvious thin wavy lateral line

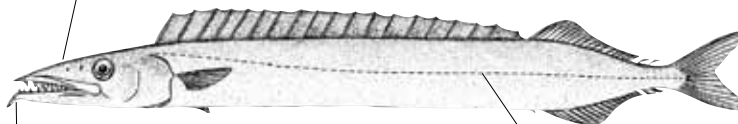
Taiwanese: 黑帶鱈 (杖蛇鱈)
English: Snoek,
Barracouta
French: Escolier
Japanese: Ooshihi-kamasu,
Barakuta
Local:

Nesiarchus nasutus

NEN



兩頷前端有皮質突起
Skin tags protrude from tips of both jaws



下頷前端朝下
Tip of lower jaw pointing down

單一側線，且平直
Single lateral line, fairly straight

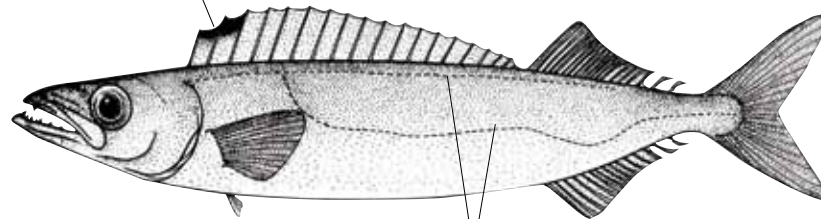
Taiwanese: 異鱗蛇鯖
English: Black gemfish
French: Escolier long-nez
Japanese: Hashinagakurotachi
Local:

Rexea solandri

GEM



背鰭前端邊緣有黑點
Black spot on top edge of dorsal fin

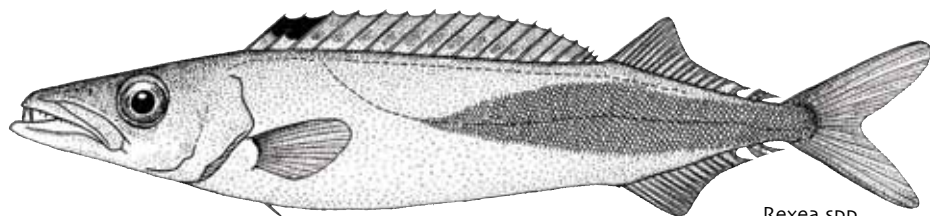


側線二條
Double lateral line

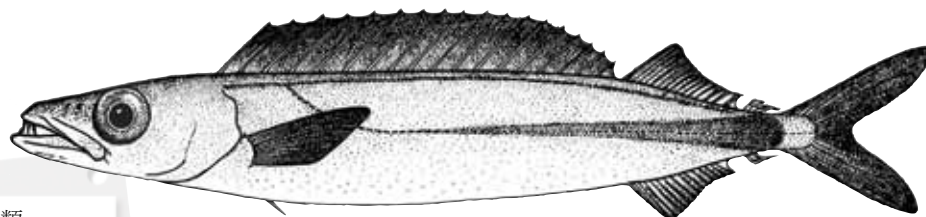
Taiwanese: 短帶鱈 (短蛇鱈)
English: Silver gemfish
French: Escolier tifiati
Japanese: Ookagokamasu
Local:

Gempylidae (other) 帶鱈[科]

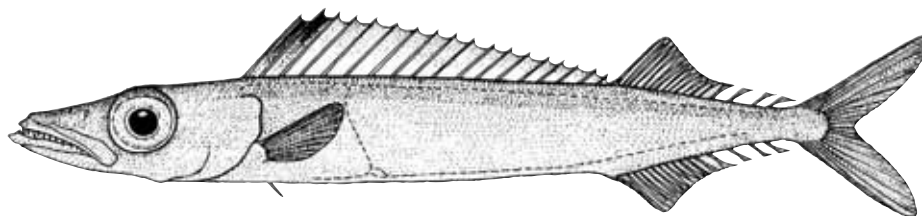
GEP



Rexea spp.
短帶鱈屬(短蛇鱈屬)



Rexea spp.
短帶鱈屬(短蛇鱈屬)



Rexichthys spp.
皇蛇鱈屬

本科的魚種:

- 口裂大具有硬齒
- 兩個背鰭，第二背鰭短於第一背鰭
- 腹鰭很小，通常為單一硬脊或僅帶少數鰭條

Species in this family have:

- Large mouth with strong teeth
- Two dorsal fins, second shorter than first
- Pelvic fin very small, often just a single spine with a few or no soft rays

Taiwanese: 其他蛇鱈類

English: Other gemfish and snake mackerels

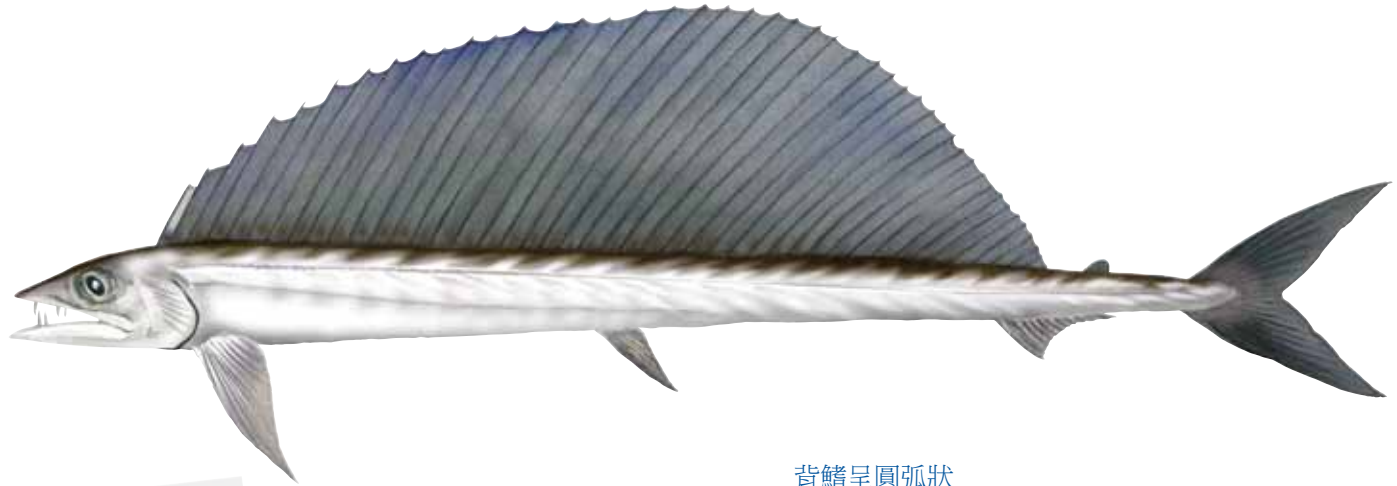
French: Autres Gempylidae

Japanese: Kurotachikamasu

Local:

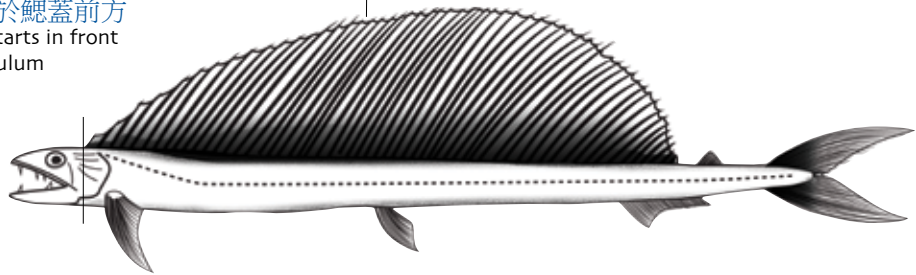
Alepisaurus brevirostris

ALO



背鰭呈圓弧狀
Dorsal fin rounded

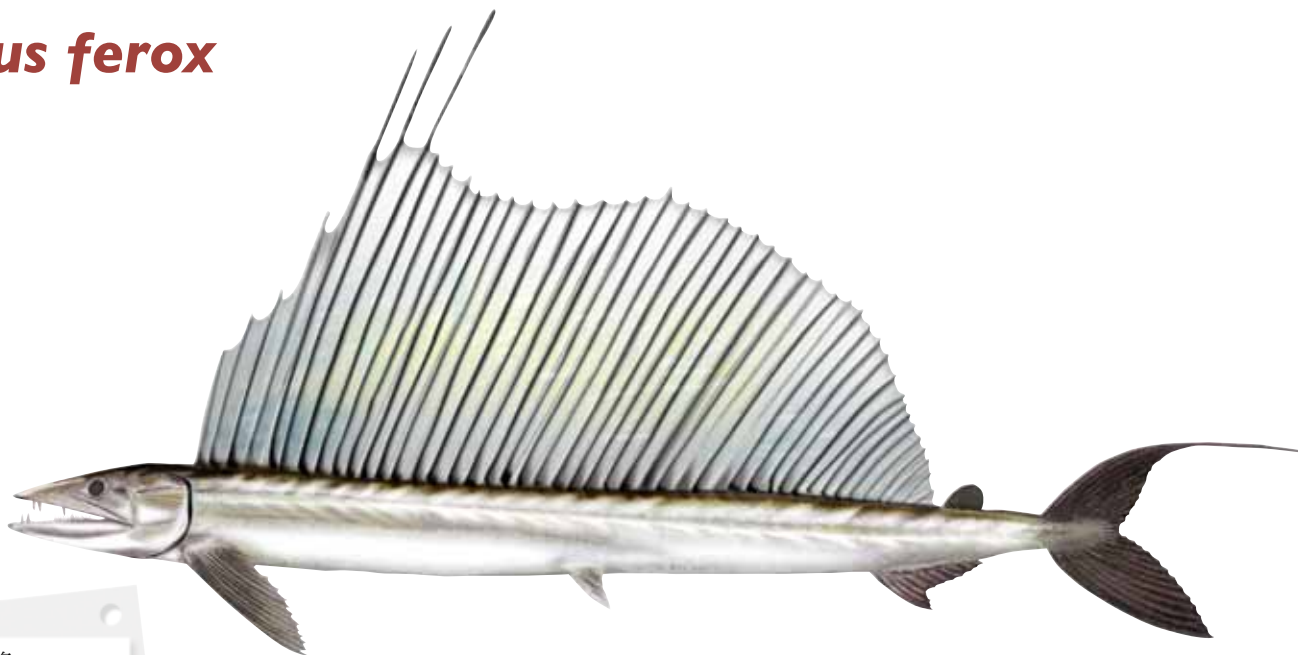
第一背鰭起始於鰓蓋前方
First dorsal fin starts in front
of operculum



Taiwanese: 短吻帆蜥魚
English: Short snouted
(shortnose)
lancetfish
French: Lancier à nez court
Japanese: Tsumarimizuuo
Hawaiian: Alepisaurus
Local:

Alepisaurus ferox

ALX

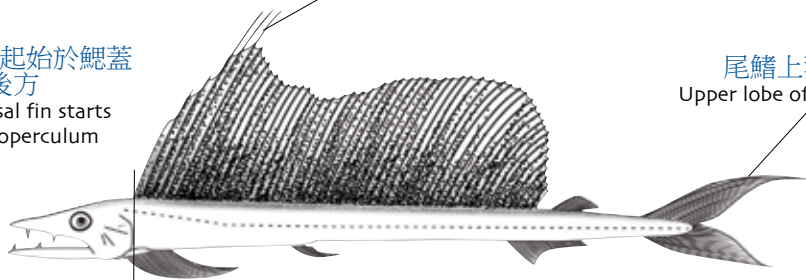


Taiwanese: 長吻帆蜥魚
English: Long snouted (longnose) lancetfish
French: Lancier long-nez
Japanese: Mizu-uo, Yoro
Hawaiian: Alepisaurus
Local:

通常有數個鰭條從第一背鰭突出
Usually several dorsal rays protruding from first dorsal fin

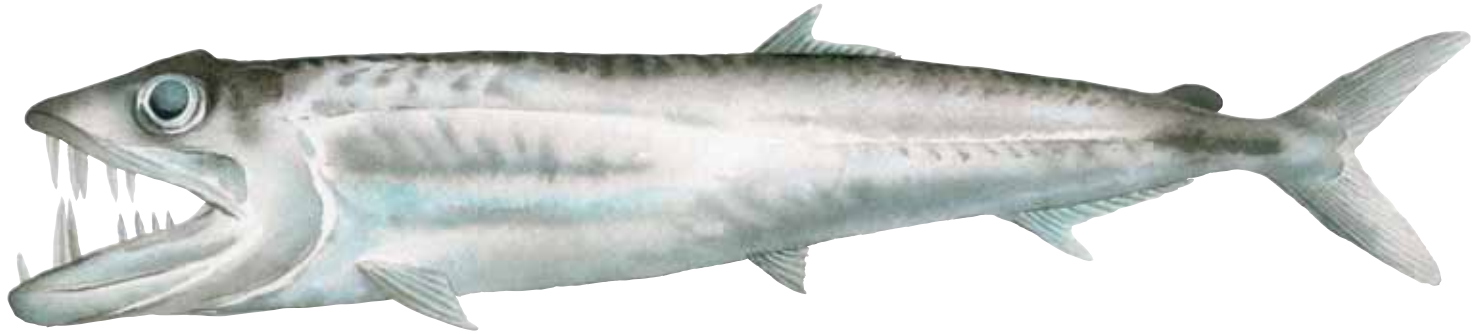
第一背鰭起始於鰓蓋
後方
First dorsal fin starts
behind operculum

尾鰭上葉延伸且細長
Upper lobe of caudal fin elongated



Omosudis lowei

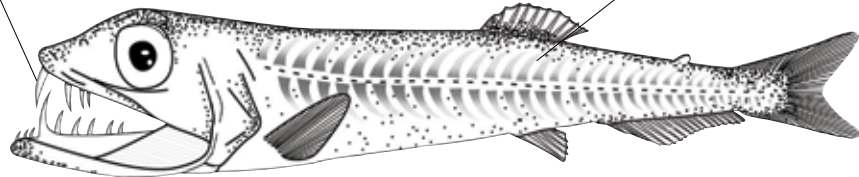
OMW



Taiwanese: 錘頷魚
English: Omosudid,
Hammerjaw
French: Omosudide
Japanese: Kiba-hadaka
Local:

矛形大尖齒
Very large strong pointed teeth

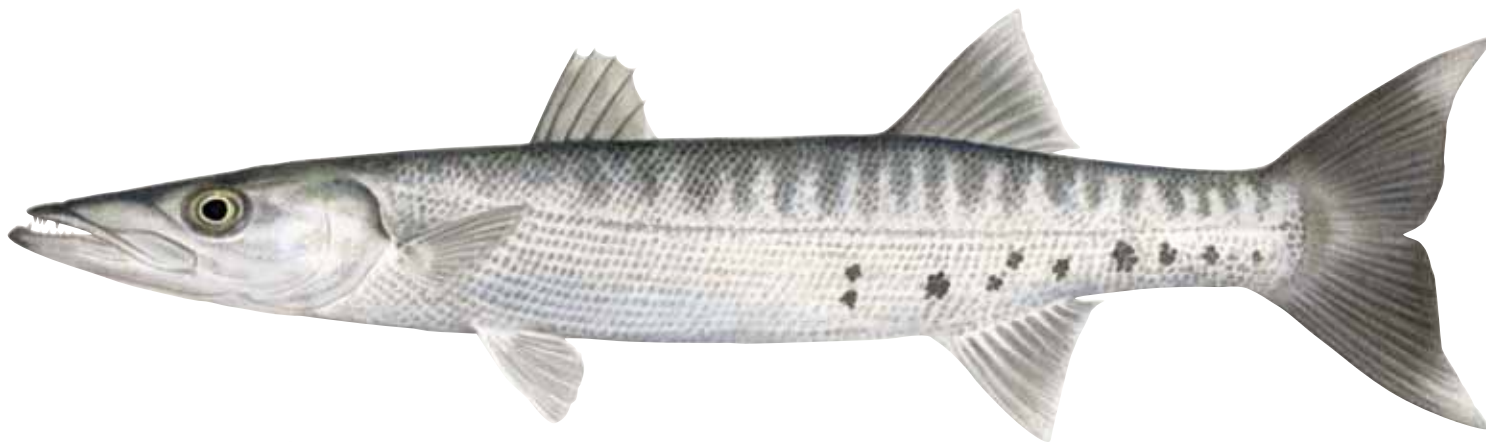
體表光滑沒有鱗片
Body smooth, without scales



最大體長：30公分
Maximum length: 30 cm

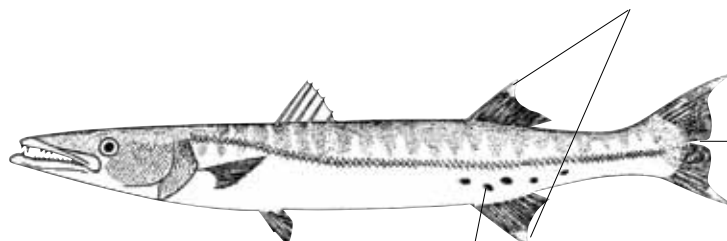
Sphyraena barracuda

GBA



尾鰭、第二背鰭和臀鰭為暗色且末緣為白色
Caudal, second dorsal and anal fins dark with white tips

Taiwanese: 巴拉金梭魚
(巨金梭魚)
English: Great barracuda
French: Barracuda
Japanese: Oni-kamasu
Hawaiian: Kaku,
Barracuda
Local:

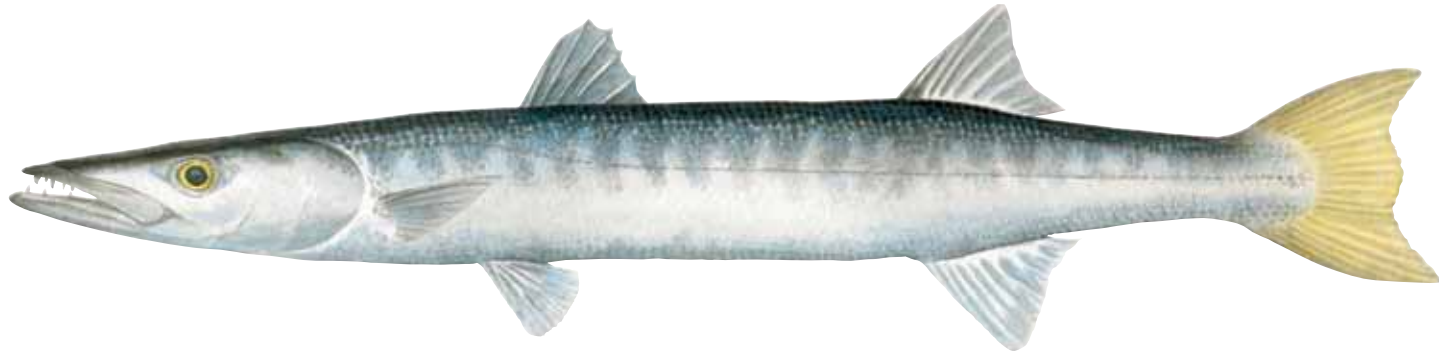


獨特的尾鰭
Distinctive shaped caudal fin

黑色點狀(通常)
Black spots (normally)

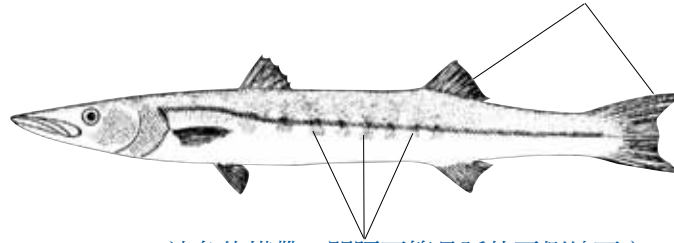
Sphyraena jello

BAC



Taiwanese: 斑條金梭魚
English: Pickhandle barracuda
French: Bécune jello
Japanese: O-kamasu
Local:

第二背鰭和尾鰭為淡黃色
Second dorsal and caudal fins yellowish



淡色的橫帶，間隔不等且延伸至側線下方
Bars are faint, unevenly spaced and go to just below lateral line

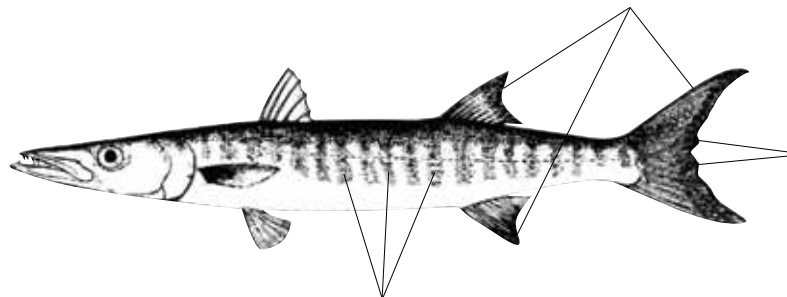
Sphyraena qenie

BAB



Taiwanese: 暗鰭金梭魚
English: Blackfin barracuda
French: Barracuda à queue
noire
Japanese: Burakkufinbarakuda
Local:

尾鰭、第二背鰭和臀鰭為暗色
Second dorsal, anal and caudal fins black

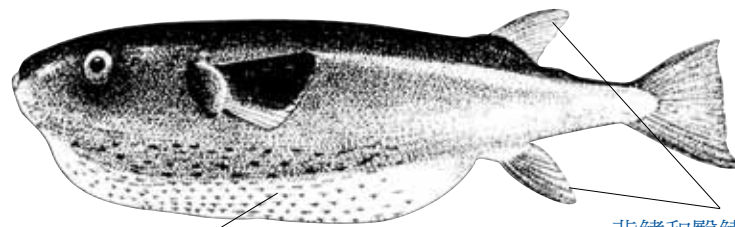
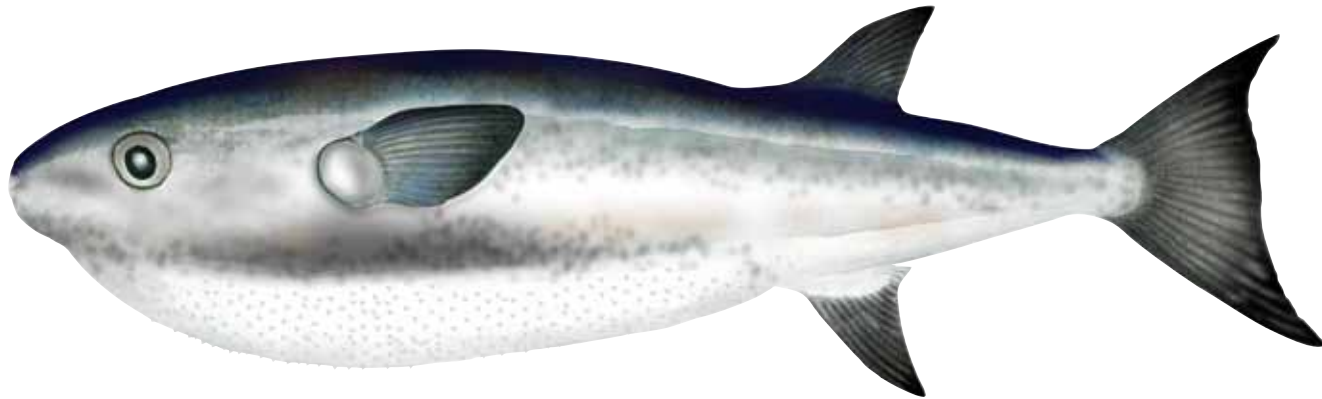


尾鰭中央有兩個小突起
Two small knobs at centre
of caudal fin

橫帶延伸至側線下方
Bars go well below lateral line

Lagocephalus lagocephalus

LGH



Taiwanese: 兔頭魷
English: Rabbit puffer,
Oceanic puffer
French: Compère lièvre
Japanese: Kumasakafugu
Hawaiian: Pelagic puffer
Local:

腹部體表粗糙
Rough skin on belly

背鰭和臀鰭各一且彼此形狀相似
Single dorsal and anal fin, roughly in line
with each other

最大體長：65公分
Maximum length: 65 cm

Grammistes sexlineatus

GSE



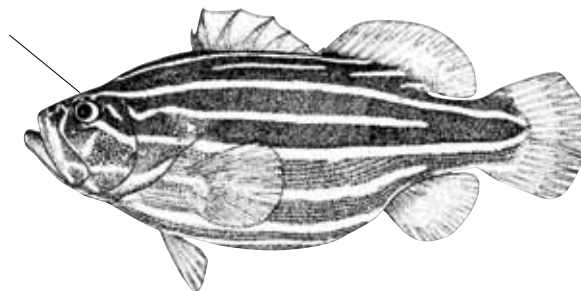
成魚
Adult



幼魚(12公分下)
Juvenile (to 12 cm)

Taiwanese: 六線黑鱸 (包公)
English: Goldenstriped soapfish, Sixline soapfish
French: Savon rayé d'or
Japanese: Nunosarashi
Local:

成魚眼部上方微凹
Adult has slight recess above eye



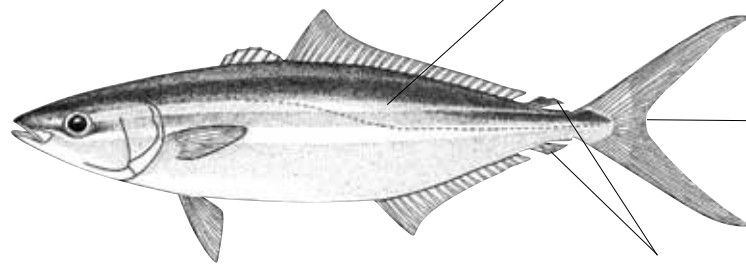
最大體長：35公分
Maximum length: 35 cm

Elagatis bipinnulata

RRU



體側具有藍色和黃色的條紋
Blue and yellow stripes on side



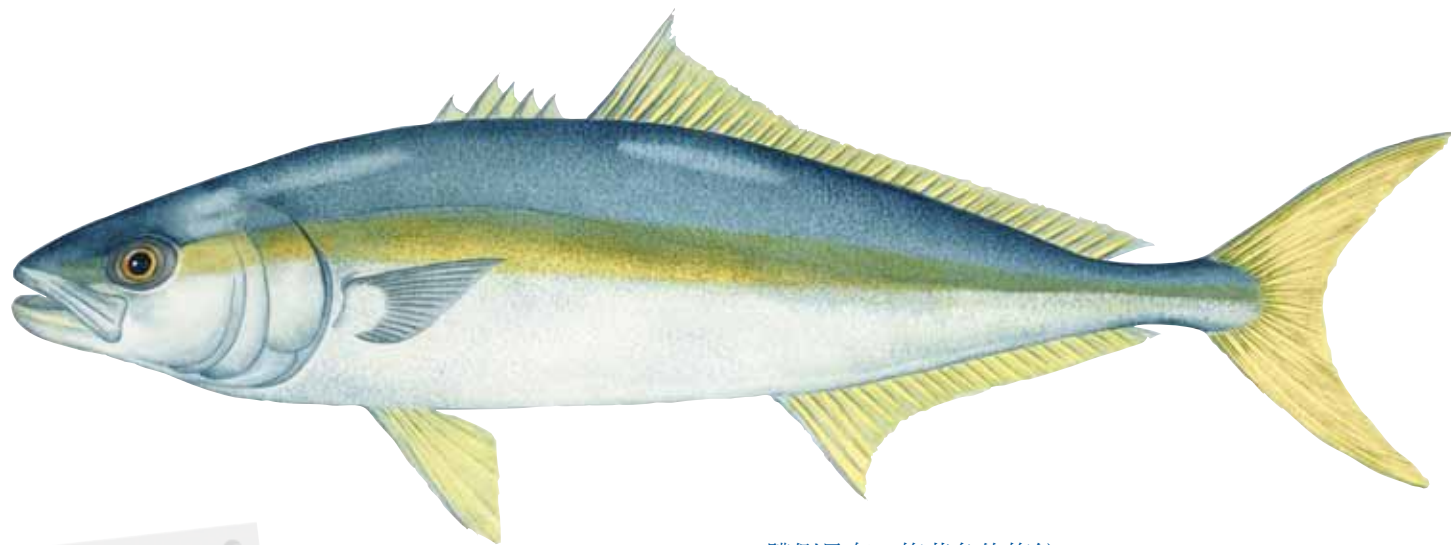
尾鰭為暗色且分叉深
Caudal fin dark in colour
and deeply forked

第二背鰭與臀鰭後方各有一個雙鰭條所組成之離鰭
Two-rayed finlet behind second dorsal and anal fins

Taiwanese: 雙帶鰹 (拉侖)
English: Rainbow runner
French: Comète saumon
Japanese: Tsumuburi,
Okiburi
Hawaiian: Kamanu,
Hawaiian salmon
Local:

Seriola lalandi

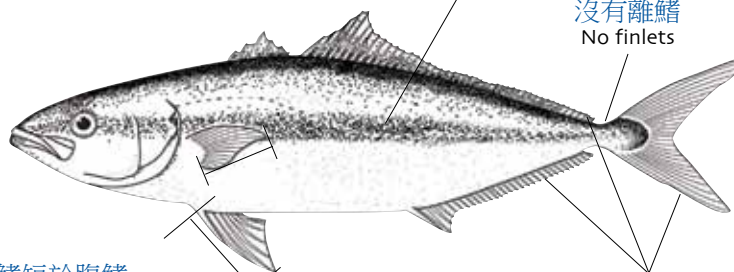
YTC



Taiwanese: 黃尾鰺 (黃條鰺)
English: Yellowtail amberjack
French: Sériole chincharde
Japanese: Hiramasa
Local:

體側具有一條黃色的條紋
Single yellow stripe on side

沒有離鰭
No finlets

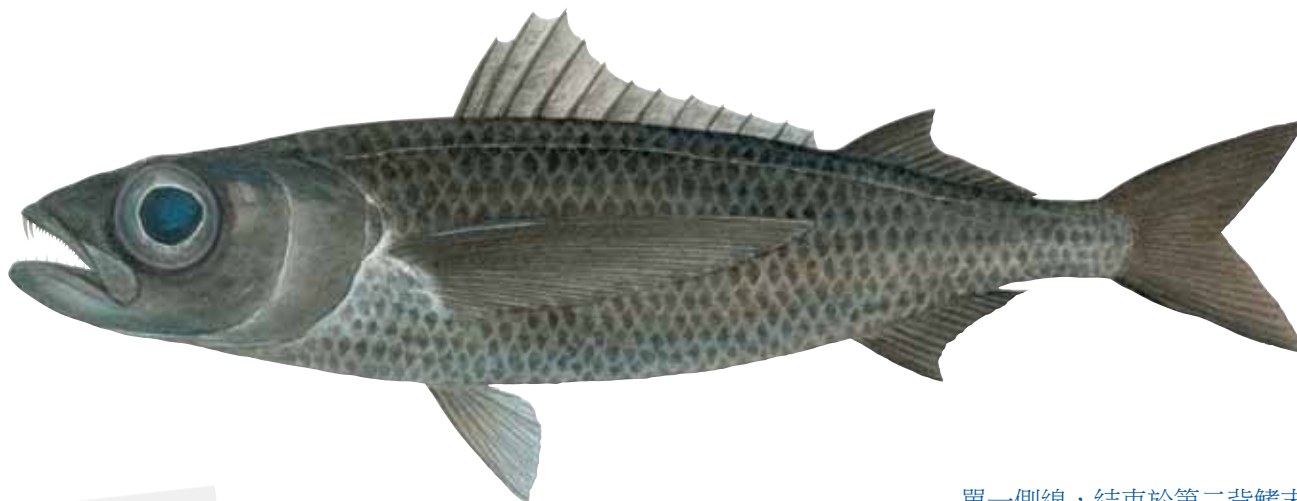


胸鰭短於腹鰭
Pectoral fin shorter than pelvic fin

尾鰭、第二背鰭和臀鰭為黃色
Second dorsal, anal and caudal fins yellow

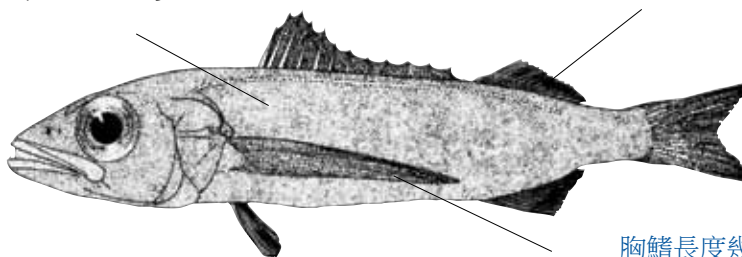
Scombrolabrax heterolepis

SXH



鱗片容易脫落，而形成光滑的體表
Scales are easily shed, leaving smoothish skin

單一側線，結束於第二背鰭末端處
Single lateral line that finishes at end
of second dorsal fin



最大體長：30公分
Maximum length: 30 cm

胸鰭長度幾乎延伸到肛門
Long pectoral fin reaching almost to anus

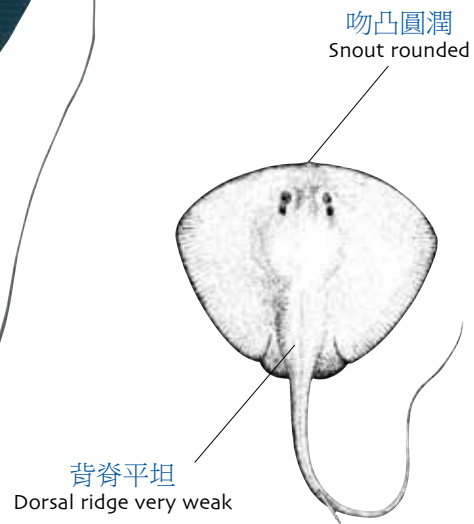
Taiwanese: 長鰭帶鯖
English: Longfin escolar,
Black mackerel
French: Escolier aile longue
Japanese: Mukashikurotachi
Local:

Dasyatis violacea

PLS



Taiwanese: 紫魷
English: Pelagic stingray
French: Pastenague violette
Japanese: Karasu-ei
Hawaiian: Pelagic stingray
Local:

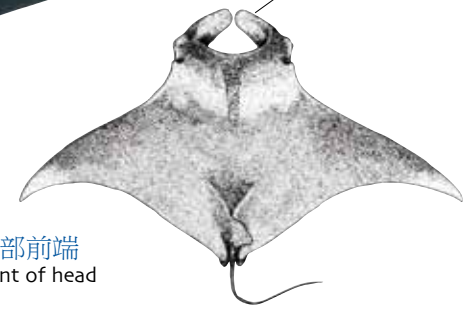


Manta birostris

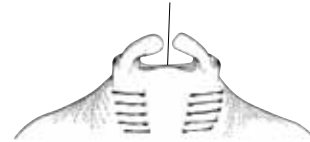
RMB



頭鰭長
Long head fins



口位於頭部前端
Mouth at front of head



Taiwanese: 雙吻前口蝠鱝; 鬼蝠魟

English: Giant manta

French: Mante géante

Japanese: Oni-itomaki-ei

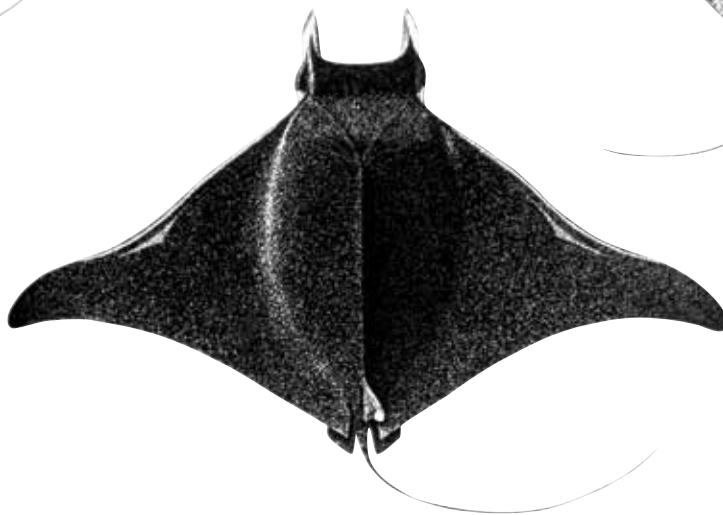
Hawaiian: Manta ray,
Hahalua,
Devilray

Local:

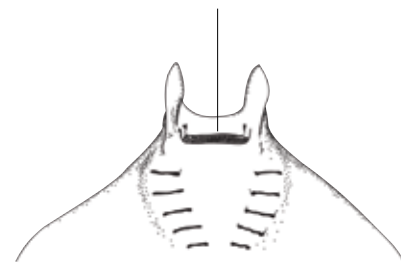
Mobula spp.

蝠鱝[屬]

RMV



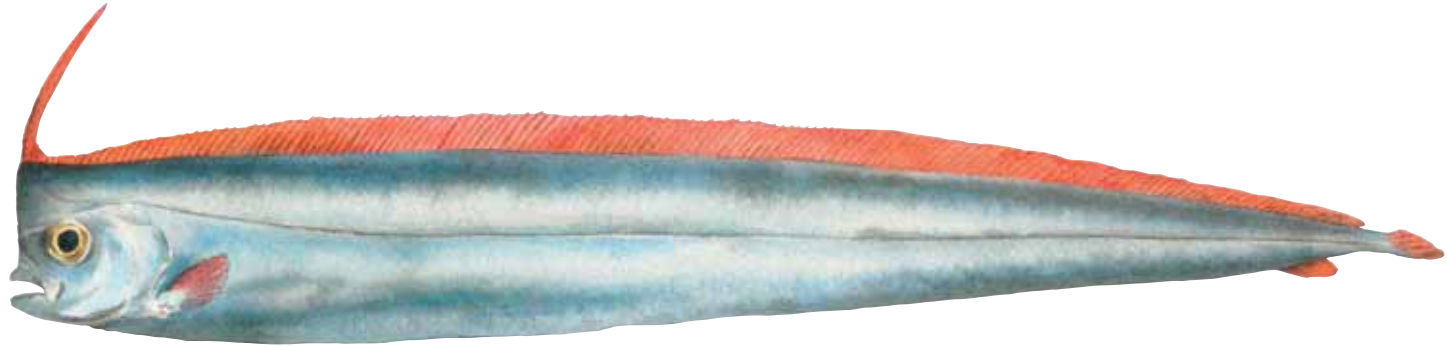
口位於頭部下方
Mouth underneath head



Taiwanese: 蝠鱝 (飛魴仔)
English: Devil rays
French: Diables de mer
Japanese: Ei
Local:

Lophotus capellei

LOP



成魚的頭冠明顯且向前延伸
Obvious crest that is more forward pointing in adults

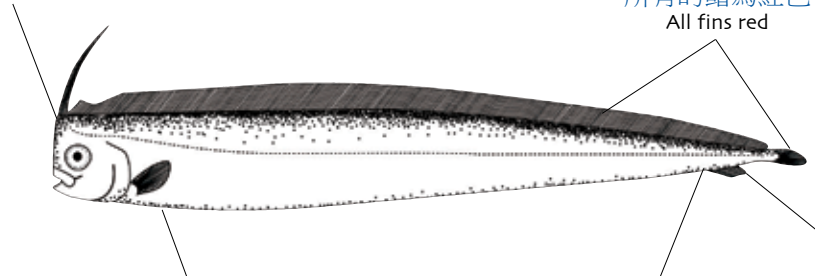
所有的鰭為紅色
All fins red

臀鰭很小
Anal fin very small

肛門位於尾鰭附近
Anus near caudal fin

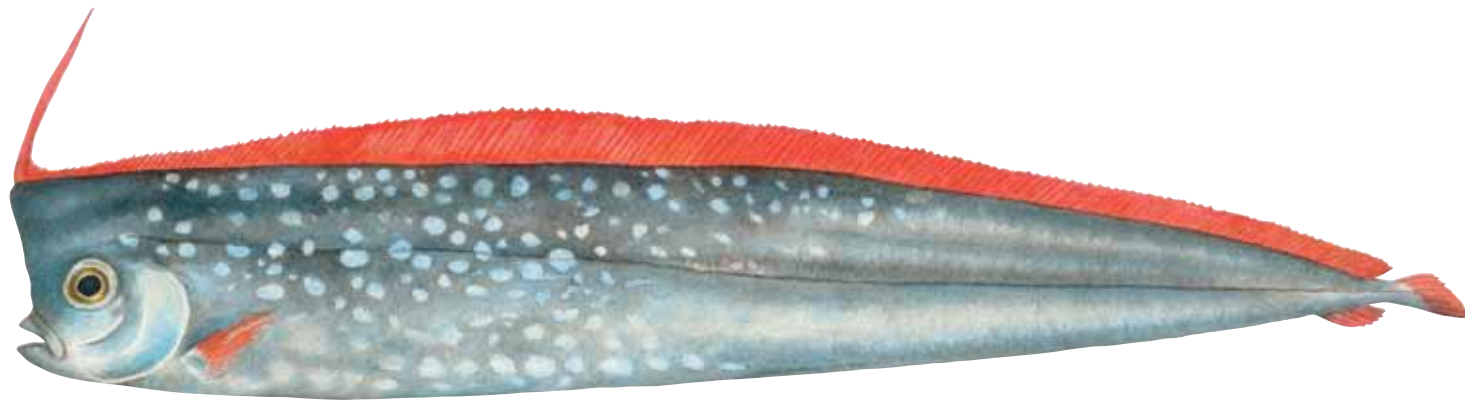
腹鰭很小或無
Very small or no pelvic fin

Taiwanese: 凹鰭冠帶魚
English: Unicornfish
French: Lophote chevelu
Japanese: Akanamada
Local:



Lophotus lacepede

LLL



Taiwanese: 拉氏冠帶魚
English: Crested oarfish, Crestfish
French: Lophote à crête
Japanese: Akanamada-zoku
Hawaiian: Crestfish
Local:

成魚的頭冠明顯且向前延伸

Obvious crest that is more forward pointing in adults

明顯的白色斑點

Obvious white spots

所有的鰭為紅色

All fins red

腹鰭很小或無

Very small or no pelvic fin

肛門位於尾鰭附近

Anus near caudal fin

臀鰭很小

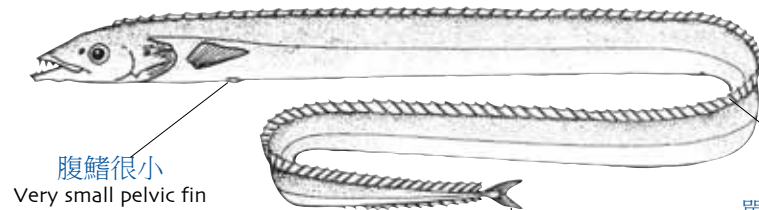
Anus fin very small

Assurger anzac

ASZ



Taiwanese: 長剃刀帶魚
English: Razorback scabbardfish
French: Poisson sabre rasoir
Japanese: Nagayumetachi-modoki
Local:



腹鰭很小
Very small pelvic fin

尾鰭小且分叉
Small forked caudal fin

單一背鰭且沒有缺口，連貫整個體長
Single dorsal fin without notch,
running full length of body

Trichiuridae (other) 帶魚[科]

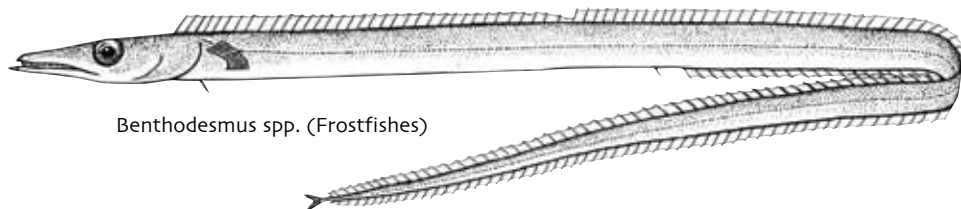
CUT

本科的魚種：

- 具尖牙
- 沒有紅色的魚鰭
- 體型細長

Species in this family have:

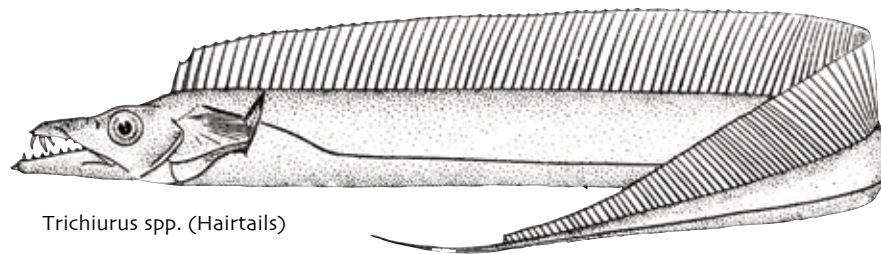
- Strong fang-like teeth
- No red fins
- Body shape long and thin



Benthodesmus spp. (Frostfishes)



Aphanopus spp. (Scabbardfishes)



Trichiurus spp. (Hairtails)

Taiwanese: 其他深海帶魚、
叉尾帶魚和帶魚

English: Other
Frostfishes,
Scabbardfishes,
Hairtails

French: Autres poissons
sabres

Japanese: Tachiuo,
Oshiroitachi

Local:

Trachipteridae 粗鱗魚[科]

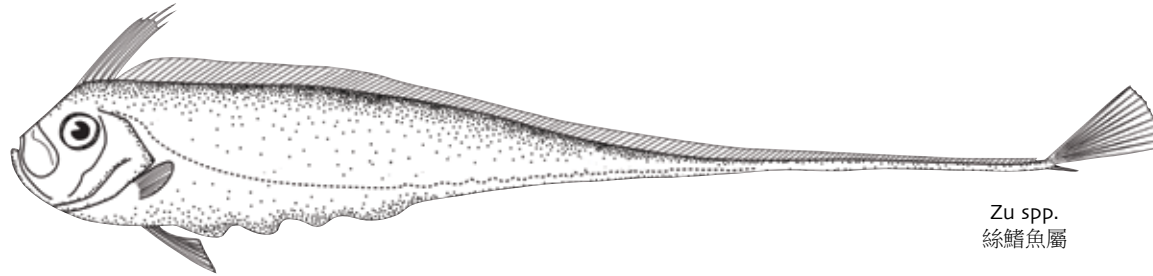
TRX

本科的魚種：

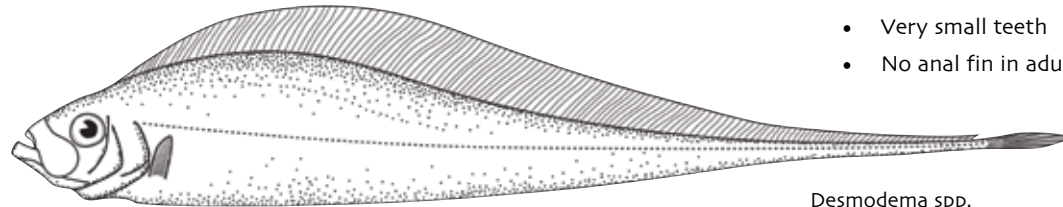
- 紅色背鰭
- 肛門位於魚體中間部分
- 齒小
- 成魚無臀鰭

Species in this family have:

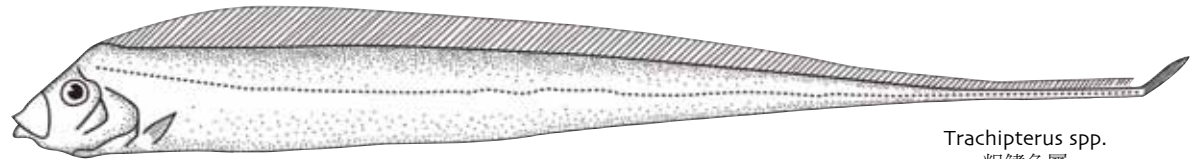
- Red dorsal fin
- Anus near middle of body
- Very small teeth
- No anal fin in adults



Zu spp.
絲鱗魚屬



Desmodema spp.
扇尾魚屬



Trachipterus spp.
粗鱗魚屬

Taiwanese: 粗鱗魚
English: Ribbonfish,
Dealfish
French: Poissons-rubans
Japanese: Tachiuo,
Furisodeuo
Local:

Regalecidae

皇帶魚[科]

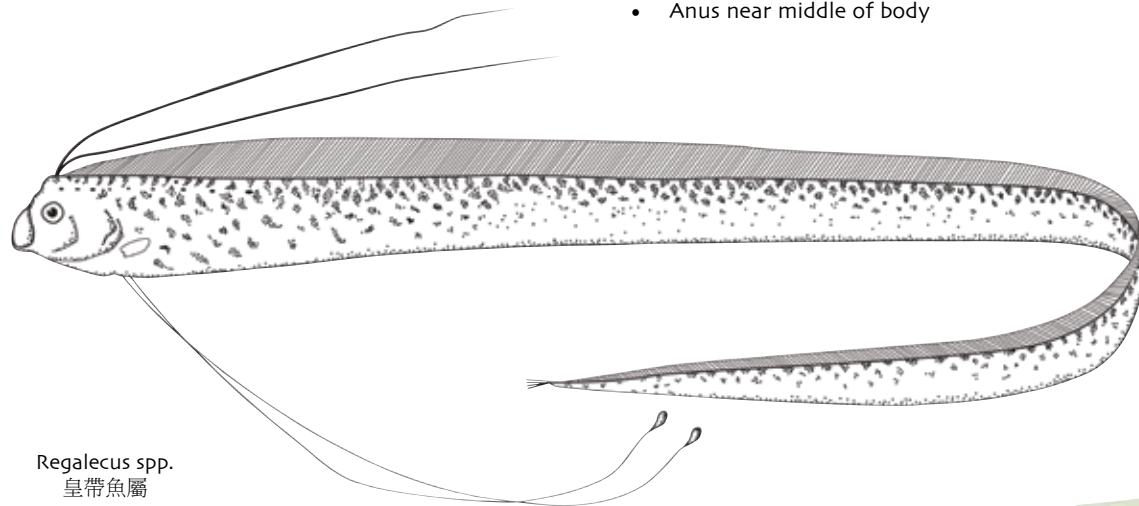
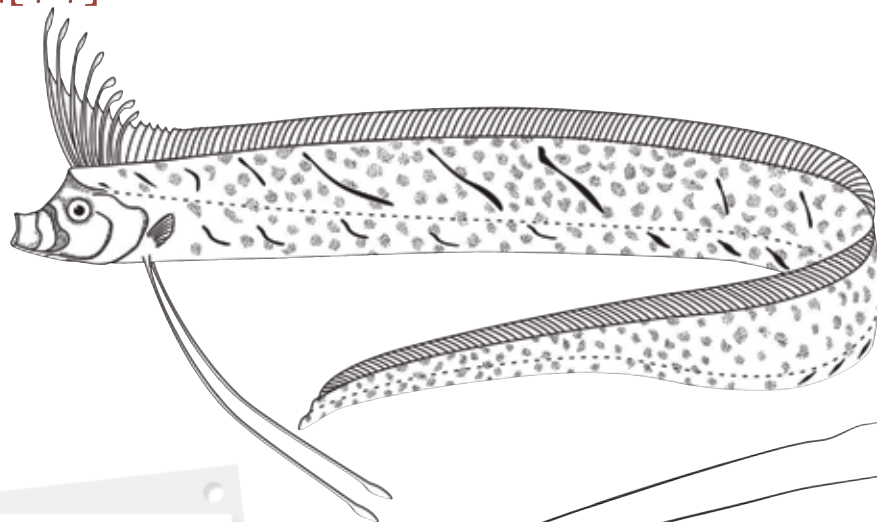
RRG

本科的魚種：

- 齒甚小
- 紅色的背鰭與腹鰭
- 成魚腹鰭很長
- 無臀鰭
- 肛門位於魚體中間部分

Species in this family have:

- Extremely small teeth
- Red dorsal and pelvic fins
- Pelvic fins very long in adults
- No anal fin
- Anus near middle of body

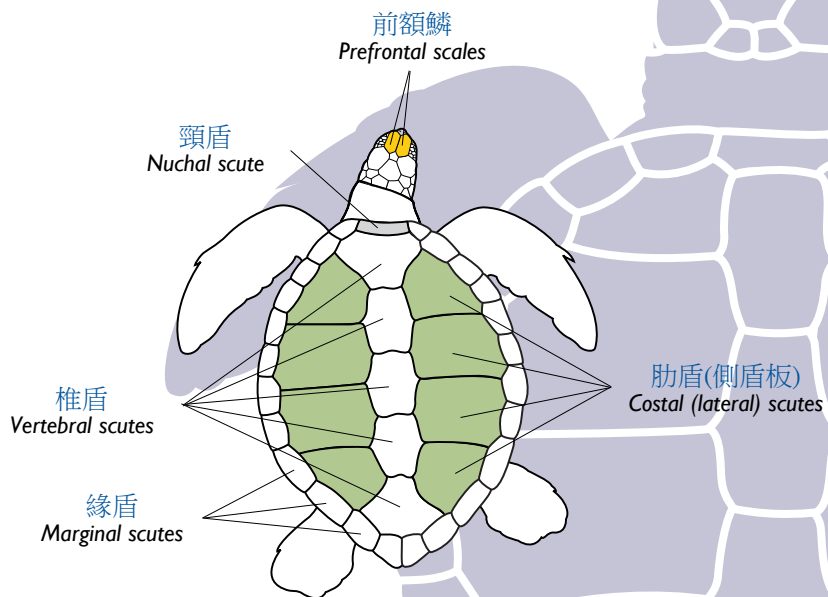


Regalecus spp.
皇帶魚屬

Taiwanese: 皇帶魚科
English: Oarfish
French: Régalecs
Japanese: Ryuguno-tsukai
Local:

海龜

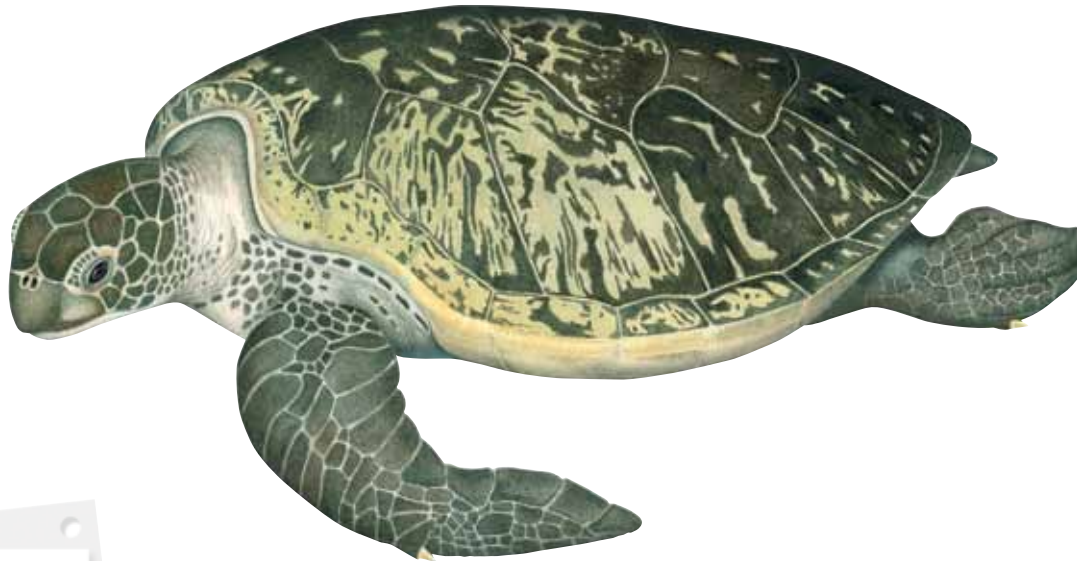
Sea turtles



| Scientific | Taiwanese | English | FAO code | Page |
|-------------------------------|-----------|---------------------|----------|------|
| <i>Natator depressus</i> | 平背龜 | Flatback turtle | FBT | 100 |
| <i>Caretta caretta</i> | 赤蠐龜 | Loggerhead turtle | TTL | 103 |
| <i>Eretmochelys imbricata</i> | 玳瑁 | Hawksbill turtle | TTH | 101 |
| <i>Dermochelys coriacea</i> | 革龜 | Leatherback turtle | DKK | 102 |
| <i>Chelonia mydas</i> | 綠蠐龜 | Green turtle | TUG | 98 |
| <i>Lepidochelys olivacea</i> | 欖蠐龜 | Olive ridley turtle | LKV | 99 |

Chelonia mydas

TUG



Taiwanese: 綠蠓龜

English: Green turtle

French: Tortue verte

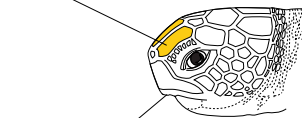
Japanese: Ao-umigame

Hawaiian: Honu

Local:

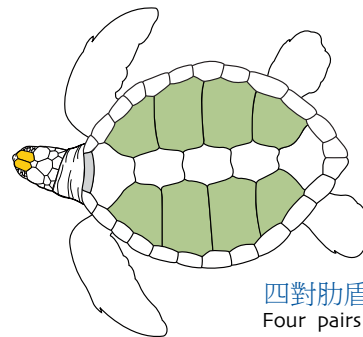
一對前額鱗

One pair of prefrontal scales



嘴部具齒

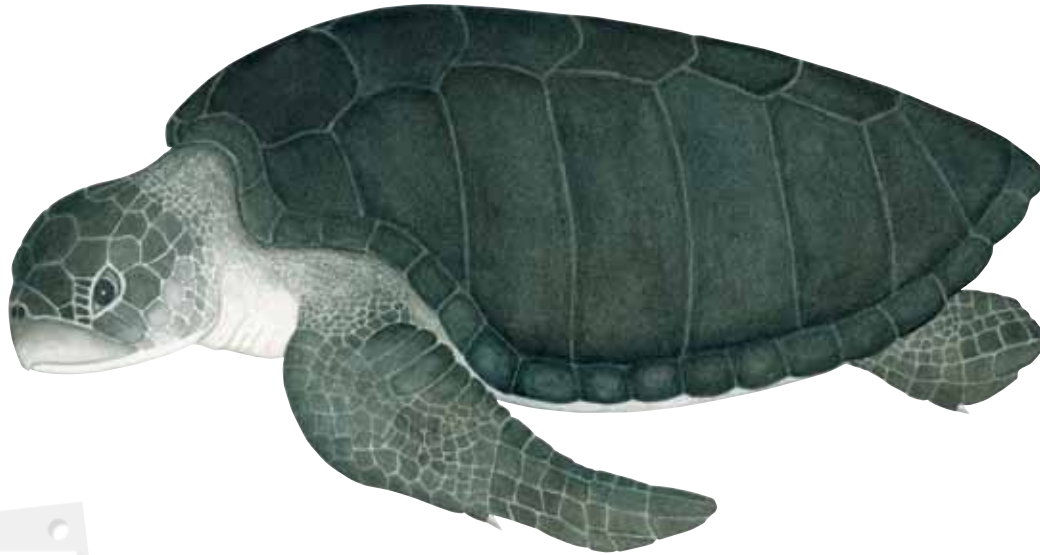
Toothed beak



四對肋盾；第一對肋盾沒有與頸盾相連
Four pairs of costal scutes; the first pair is not in contact with the nuchal scute

Lepidochelys olivacea

LKV



Taiwanese: 欖蠟龜

English: Olive ridley turtle

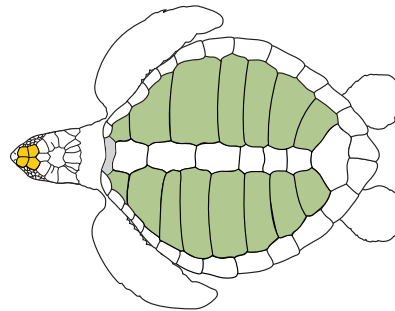
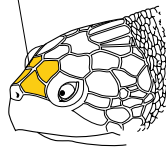
French: Tortue olivâtre

Japanese: Hime-umigame

Local:

兩對前額鱗

Two pairs of prefrontal scales



5到9對肋盾(兩側數目不一定相同); 第一對肋盾與頸盾相連

Five to nine pairs of costal scutes (not necessarily the same number on either side); the first pair is in contact with the nuchal scute.

Natator depressus

FBT



Taiwanese: 平背龜

English: Flatback turtle

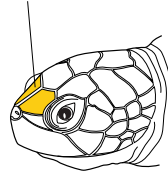
French: Tortue à dos plat

Japanese: Hirataumigame

Local:

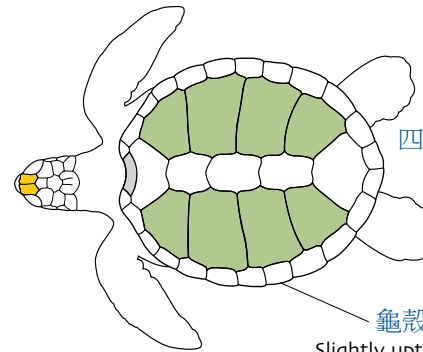
一對前額鱗

One pair of prefrontal scales



四對肋盾；第一對肋盾沒有與頸盾相連

Four pairs of costal scutes;
the first pair is not in contact
with the nuchal scute



龜殼側緣微上翹

Slightly upturned lateral margins

Eretmochelys imbricata

TTH



Taiwanese: 玳瑁

English: Hawksbill turtle

French: Tortue imbriquée

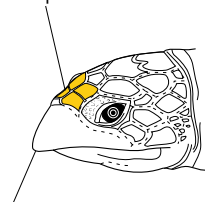
Japanese: Taimai

Hawaiian: Ea, Honu'ea

Local:

兩對前額鱗

Two pairs of prefrontal scales

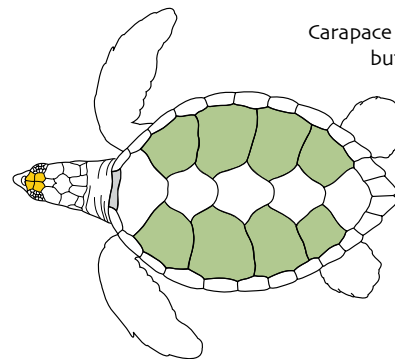


嘴喙鉤彎尖銳

Pointed hooked beak

背甲盾成瓦狀重疊排列，但體型較大個體背甲盾重疊不明顯

Carapace scutes are generally overlapping but this trait fades with age.

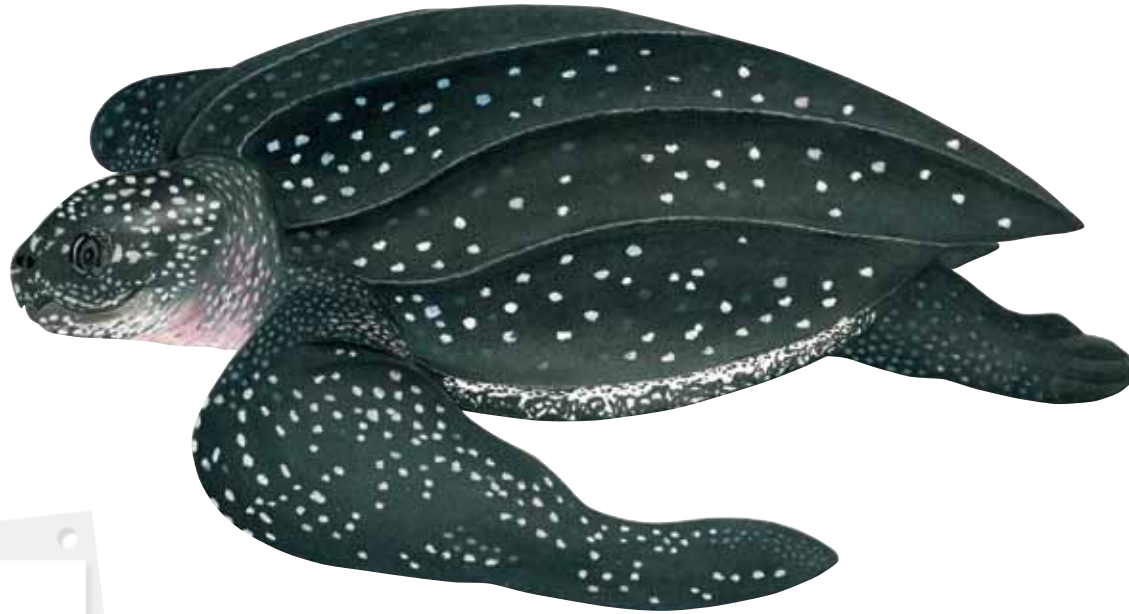


四對肋盾；第一對肋盾沒有與頸盾相連

Four pairs of costal scutes; the first pair is not in contact with the nuchal scute

Dermochelys coriacea

DKK



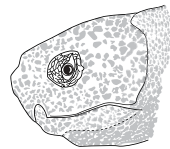
Taiwanese: 革龜

English: Leatherback turtle

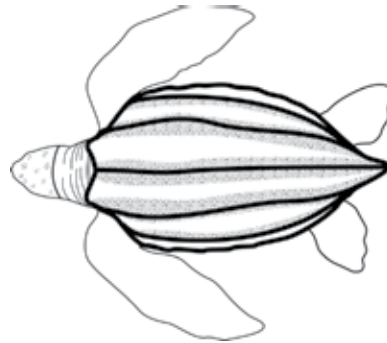
French: Tortue luth

Japanese: Osa-game

Local:



頭部沒有鱗片
No scales on head



背部(偽背甲):無鱗片(革質外皮, 有七條縱向脊狀隆起)

Back (pseudocarapace):
no scales (simply covered by a kind
of leather) and divided by seven
longitudinal ridges.

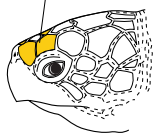
Caretta caretta

TTL

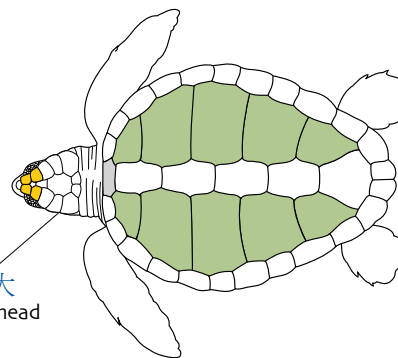


Taiwanese: 赤蠟龜
English: Loggerhead turtle
French: Tortue caouanne
Japanese: Aka-umigame
Local:

兩對前額鱗
Two pairs of prefrontal scales



頭大
Large head

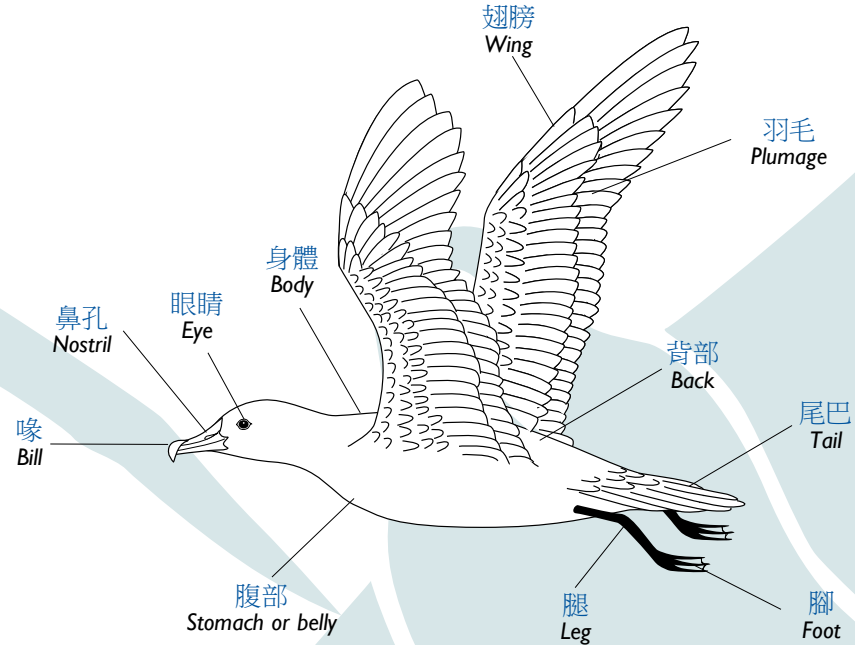


五對肋盾；第一對肋盾與
頸盾相連

Five pairs of costal scutes;
the first pair is in contact
with the nuchal scute.

海鳥

Seabirds



| Scientific | Taiwanese | English | FAO code | Page |
|-----------------------------|-----------|-------------------------|----------|------|
| Diomedeidae | 信天翁屬 | Albatrosses | ALZ | 108 |
| <i>Diomedea immutabilis</i> | 黑背信天翁 | Laysan albatross | DIZ | 107 |
| <i>Diomedea nigripes</i> | 黑腳信天翁 | Black-footed albatross | DKN | 106 |
| Sulidae | 鯉鳥科 | Boobies and Gannets | SZV | 109 |
| Laridae | 鷗科 | Gulls, Terns and Skuas | LRD | 111 |
| Procellariidae | 鸕科 | Petrels and Shearwaters | PRX | 110 |

Diomedea nigripes

DKN



眼後具白斑
White patch behind eyes

頭部、身體和翅膀為黑色
Dark head, body and wings

喙的基部具白環
White ring around
base of bill

黑褐色的喙
Black-brown bill

Taiwanese: 黑腳信天翁
English: Black-footed albatross
French: Albatros à pieds noirs
Japanese: Kuroashiahoudori
Local:

Diomedea immutabilis

DIZ



翼上及背部為黑色
Dark upper wings and back

眼周具黑環
Dark ring around eyes

肉色的喙且喙端為
灰色
Flesh coloured bill with
grey tip

頭部、頸部和腹部為白色
White head, neck and stomach

Taiwanese: 黑背信天翁
English: Laysan albatross
French: Albatros de Laysan
Japanese: Koahoudori
Local:

Diomedeidae 信天翁[科]

本科物種：

- 喙粗壯，末端具鉤
- 大型鳥類
- 翼展可達3.5公尺
- 鼻孔開口位於喙的基部，兩側各一

Species in this family have:

- Large hooked bill
- Large birds
- Wing span up to 3.5 m
- External nostrils at base of bill, one on each side

ALZ



Taiwanese: 信天翁

English: Albatrosses

French: Albatros

Japanese: Ahoudori

Local:

Sulidae 鰐鳥[科]

SZV

本科物種：

- 大型鳥類
- 翼展可達2.2公尺
- 楔形尾
- 堅硬的錐形喙

Species in this family have:

- Large birds
- Long wings with wing span up to 2.2 m
- Wedge-shaped tail
- Stout conical bill



Taiwanese: 鰐鳥及塘鵝

English: Boobies and Gannets

French: Fous

Japanese: Katuodori-ka

Local:

Procellariidae 鸕[科]

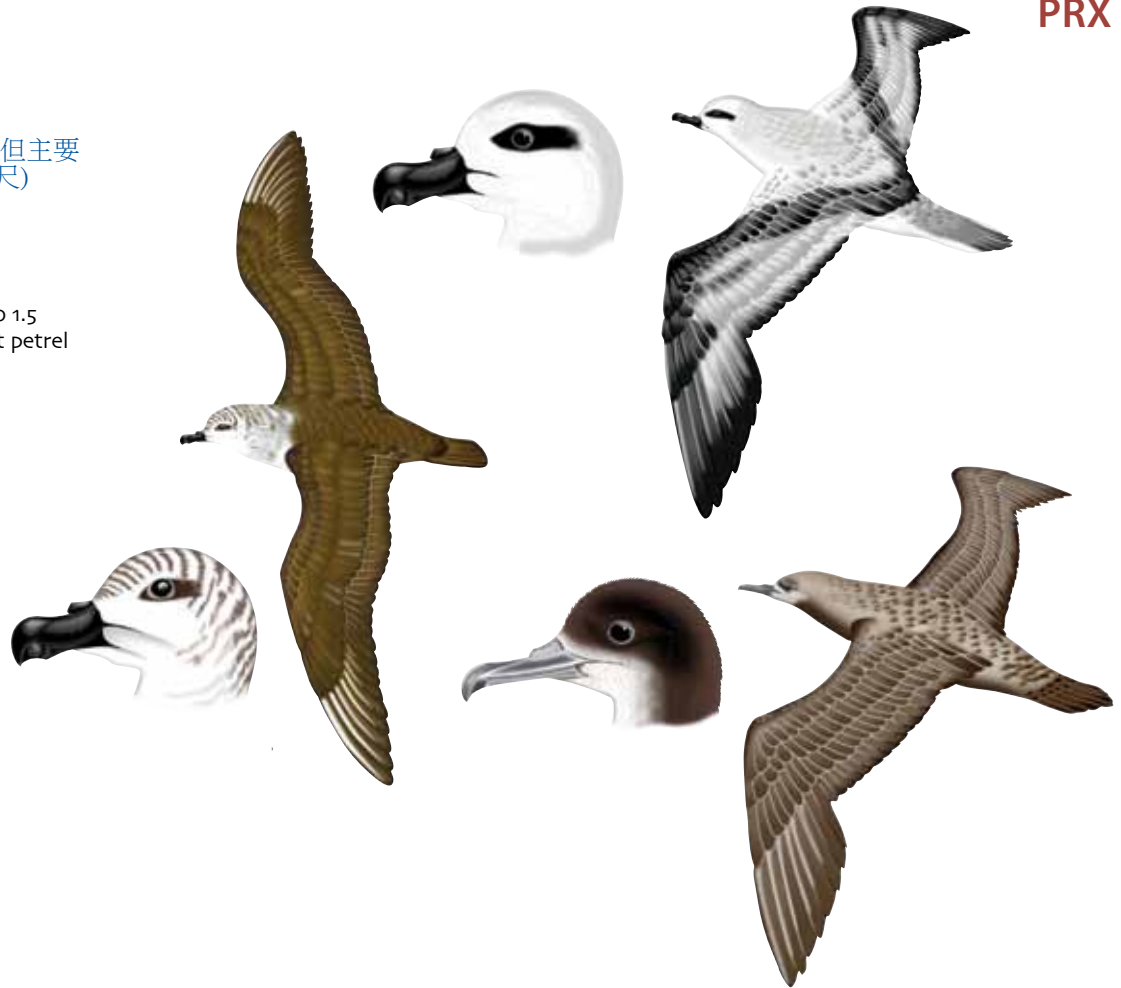
PRX

本科物種：

- 大多種類體型較小(翼展可達1.5公尺，但主要小於1公尺)，除巨鸕外(翼展可達2.5公尺)
- 由管狀鼻子構成，鼻孔位於喙的上方

Species in this family have:

- Most species smaller in size (wing span up to 1.5 m, but mainly less than 1 m) except for giant petrel (wing span up to 2.5 m)
- Nostrils united in a single tube on top of bill



Taiwanese: 鸕及水薙

English: Petrels and Shearwaters

French: Pétrels et Puffins

Japanese: Kuromizunagadori-ru

Local:

Laridae 鷗[科]

LRD

本科物種：

- 一般為較小的鳥類(翼展可達1公尺)，但賊鷗較大(翼展可達1.8公尺)
- 鼻孔為平坦的開口，位於喙的兩側各一
- 大多數種類具有灰色和白色的羽毛，一些物種的頭部和翅膀為黑色

Species in this family have:

- Generally smaller birds (wing span up to 1 m), with skuas larger (wing span up to 1.8 m)
- Nostrils are plain openings on either side of bill
- Most birds have grey and white plumage, some with black on head and wings

Taiwanese: 海鷗、燕鷗及賊鷗

English: Gulls, Terns and Skuas

French: Goélands, Sternes et Labbes

Japanese: Kamome-ka

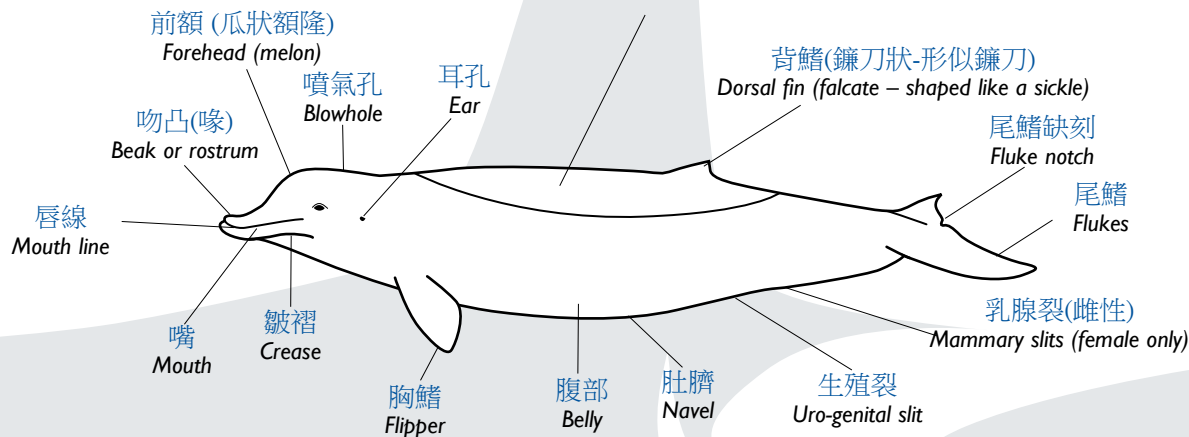
Local:



齒鯨類

Toothed whales

鞍部(顏色、深度和大小取決於性別、年齡、生活狀態和在水中的視角)
Cape (colour, depth and size may depend on sex, age, life status and where they are seen in the water)



| Scientific | Taiwanese | English | FAO code | Page |
|-----------------------------------|----------------|-----------------------------|----------|------|
| <i>Kogia breviceps</i> | 小抹香鯨 | Pygmy sperm whale | PYW | 120 |
| <i>Feresa attenuata</i> | 小虎鯨 | Pygmy killer whale | KPW | 117 |
| <i>Peponocephala electra</i> | 瓜頭鯨 | Melon-headed whale | MEW | 116 |
| <i>Kogia simus</i> | 侏儒抹香鯨(歐文氏小抹香鯨) | Dwarf sperm whale | DWW | 121 |
| <i>Mesoplodon spp.</i> | 其他喙鯨 | Other beaked whales | MEP | 125 |
| <i>Physeter macrocephalus</i> | 抹香鯨 | Sperm whale | SPW | 119 |
| <i>Orcinus orca</i> | 虎鯨 | Killer whale | KIW | 118 |
| <i>Mesoplodon densirostris</i> | 柏氏中喙鯨 | Blainville's beaked whale | BBW | 122 |
| <i>Ziphius cavirostris</i> | 柯氏喙鯨 | Cuvier's beaked whale | BCW | 124 |
| <i>Pseudorca crassidens</i> | 偽虎鯨 | False killer whale | FAW | 114 |
| <i>Globicephala macrorhynchus</i> | 短肢領航鯨 | Short-finned pilot whale | SHW | 115 |
| <i>Mesoplodon ginkgodens</i> | 銀杏齒喙鯨 | Ginkgo-toothed beaked whale | TGW | 123 |

Pseudorca crassidens

FAW



背鰭末端較尖，位於背中央
Dorsal fin with pointed tip, located mid-back

頭型瘦長為錐形頭
Long slim tapered head

從船上觀測，披肩帶不明顯
Indistinct cape when viewed from boat
體色黑
Dark body

唇線直而長
Straight mouth line

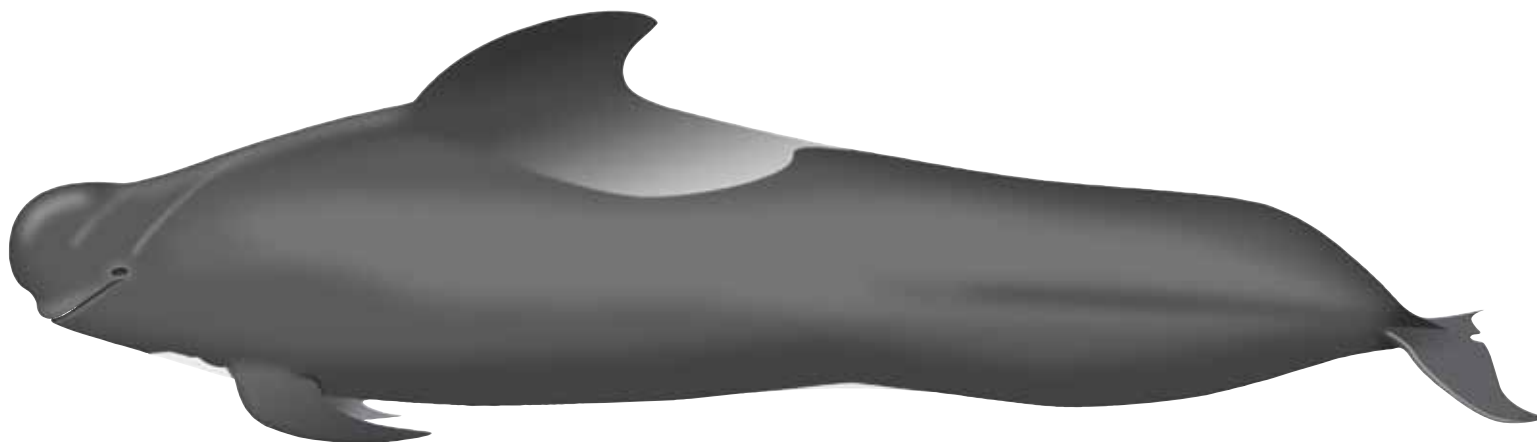
胸鰭前緣有獨特的隆起
Distinctive hump on front margin of flippers

最大體長：6公尺
Maximum length: 6 m

Taiwanese: 偽虎鯨
English: False killer whale
French: Faux-orque
Japanese: Oki-gondo
Local:

Globicephala macrorhynchus

SHW



Taiwanese: 短肢领航鲸
English: Short-finned pilot whale
French: Globicéphale tropical
Japanese: Kobire-gondo
Local:

額隆圓而向前突出，超過嘴部

Melon shaped head extends past mouth

背鰭基部寬廣，頂部圓形，位置靠前
Dorsal fin base broad, rounded tip, located well forward

披肩帶或鞍部在鰭後方通常可見
Cape or saddle behind dorsal fin often visible

體色黑
Dark body

唇線上彎弧形
Upturned mouth line

胸鰭微彎，末端尖
Flippers gently curved, pointed tips

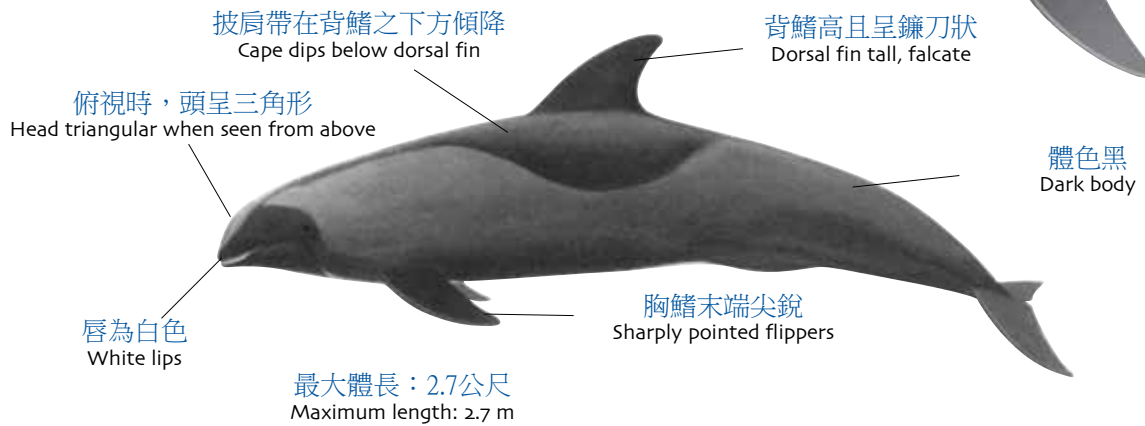
最大體長：6公尺
Maximum length: 6 m

Peponocephala electra

MEW



Taiwanese: 瓜頭鯨
English: Melon-headed whale
French: Péponocéphale
Japanese: Kazuha-gondo
Local:



披肩帶在背鰭之下方傾降
Cape dips below dorsal fin

背鰭高且呈鐮刀狀
Dorsal fin tall, falcate

俯視時，頭呈三角形
Head triangular when seen from above

體色黑
Dark body

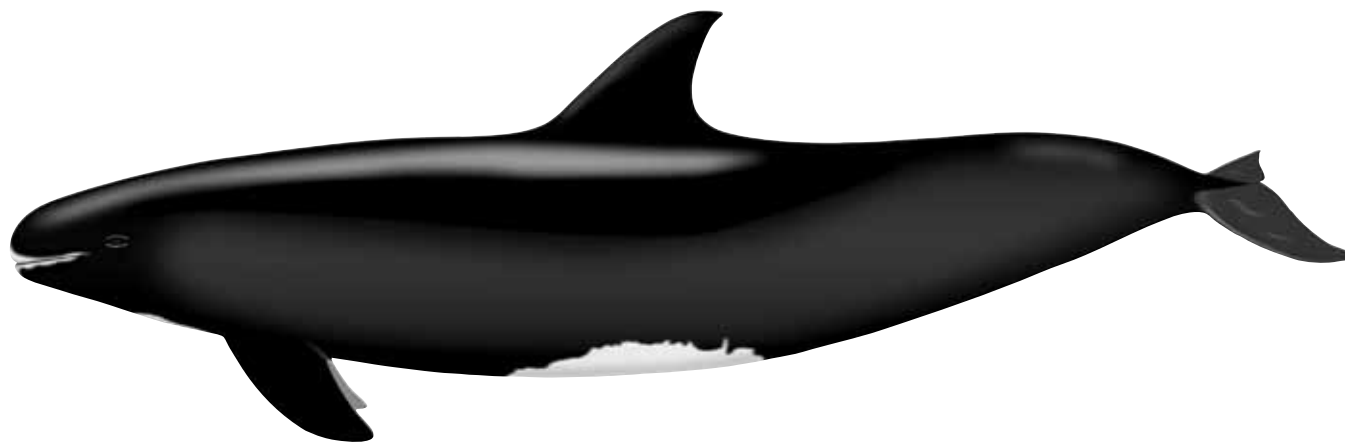
唇為白色
White lips

胸鰭末端尖銳
Sharply pointed flippers

最大體長：2.7公尺
Maximum length: 2.7 m

Feresa attenuata

KPW



頭部略呈瓜狀
Head slightly melon shaped

披肩帶狹窄
Narrow cape

背鰭高且呈鐮刀狀
Dorsal fin tall, falcate

體色黑
Dark body

唇、頰和腹部為白色
Lips, chin and belly white

胸鰭長且頂端圓形
Long flippers with rounded tips

最大體長:3公尺
Maximum length: 3 m

Taiwanese: 小虎鯨

English: Pygmy killer whale

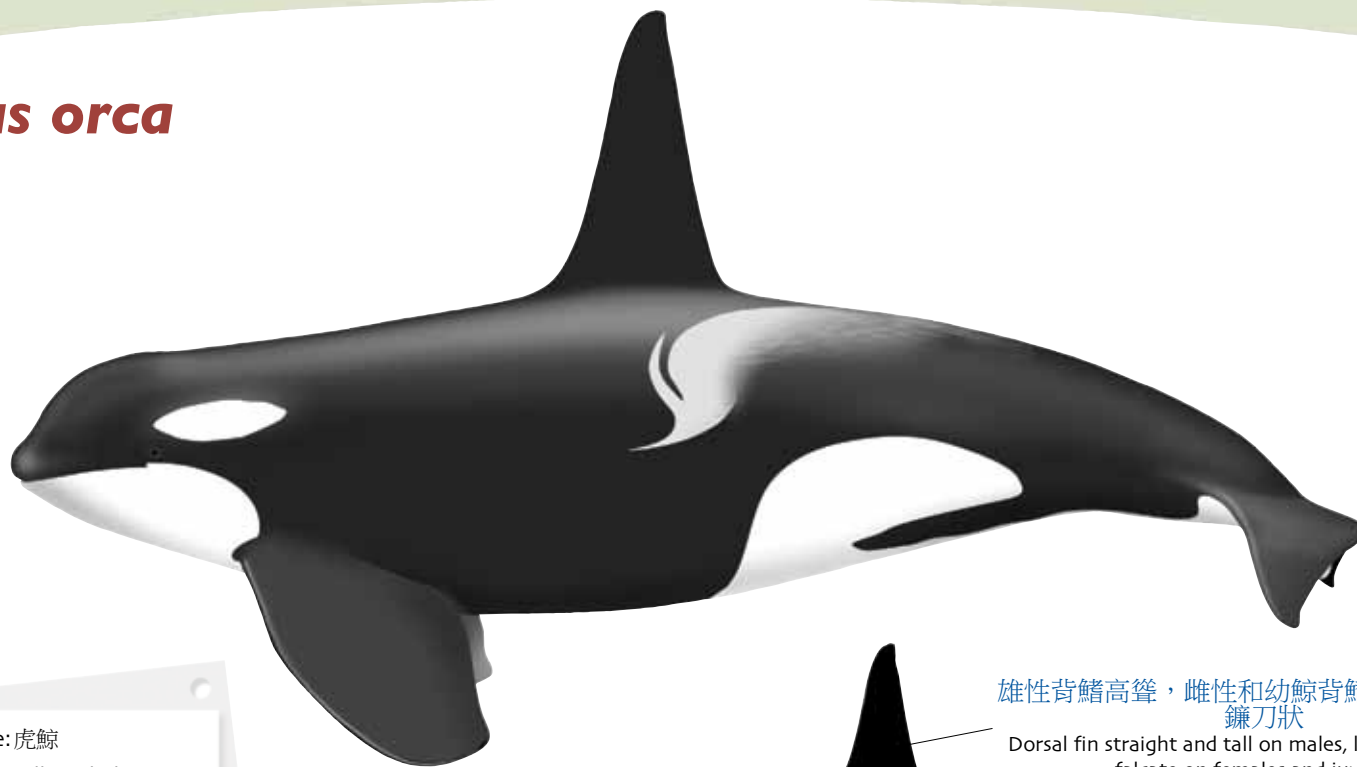
French: Orque pygmée

Japanese: Yume-gondo

Local:

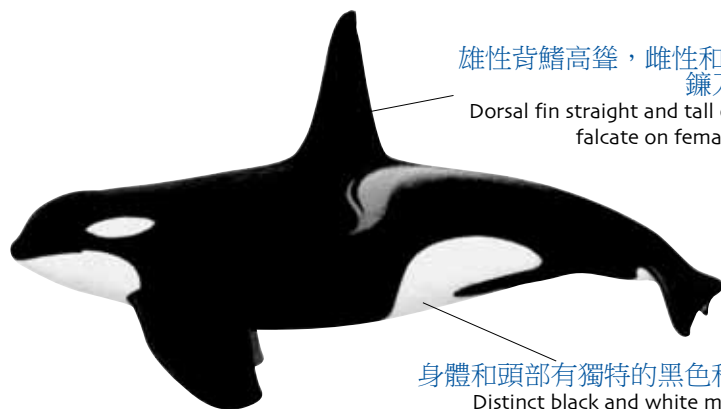
Orcinus orca

KIW



雄性背鰭高聳，雌性和幼鯨背鰭則較矮且略呈
鐮刀狀

Dorsal fin straight and tall on males, lower and slightly
falcate on females and juveniles



身體和頭部有獨特的黑色和白色標記
Distinct black and white markings
on body and head

最大體長：9公尺
Maximum length: 9 m

Taiwanese: 虎鯨

English: Killer whale

French: Orque

Japanese: Shachi, Sakamata

Local:

Physeter macrocephalus

SPW



獨特的噴水孔，位於頭部左前方頂端
Unique "blow" for a cetacean, with blow directed
at an angle forward and to the left

背部隆起低，其後具一連
突陵

Low dorsal hump followed
by a series of knuckles

頭巨大呈方形
Huge square head



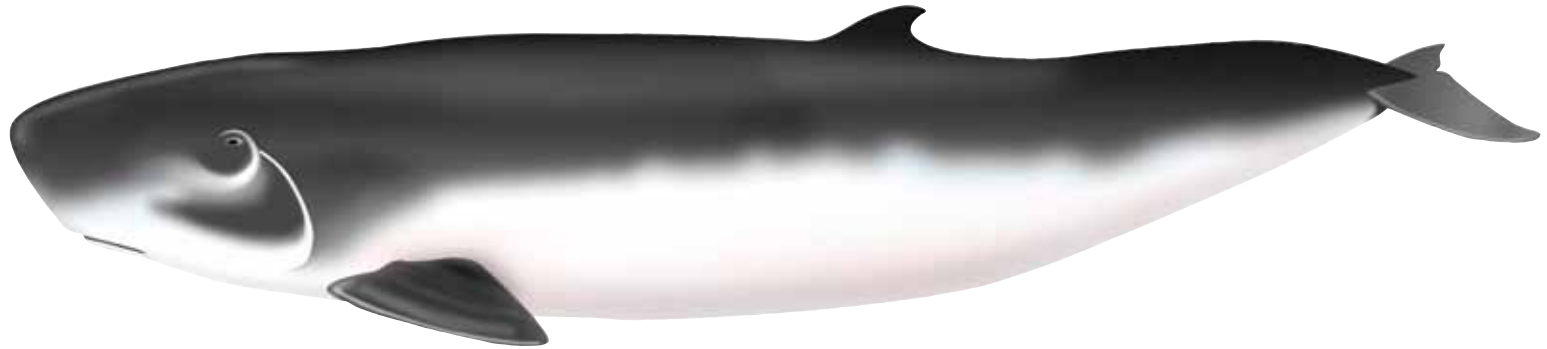
體表具皺褶
Body appears wrinkled

最大體長：18公尺
Maximum length: 18 m

Taiwanese: 抹香鯨
English: Sperm whale
French: Cachalot
Japanese: Makko-kujira
Local:

Kogia breviceps

PYW



背鰭小，位於背中央偏後方
Dorsal fin tiny, located after mid-back

體表可能出現皺褶
Body may appear wrinkled

顎小且窄
Small narrow jaw

頸部無皺褶
No creases on throat

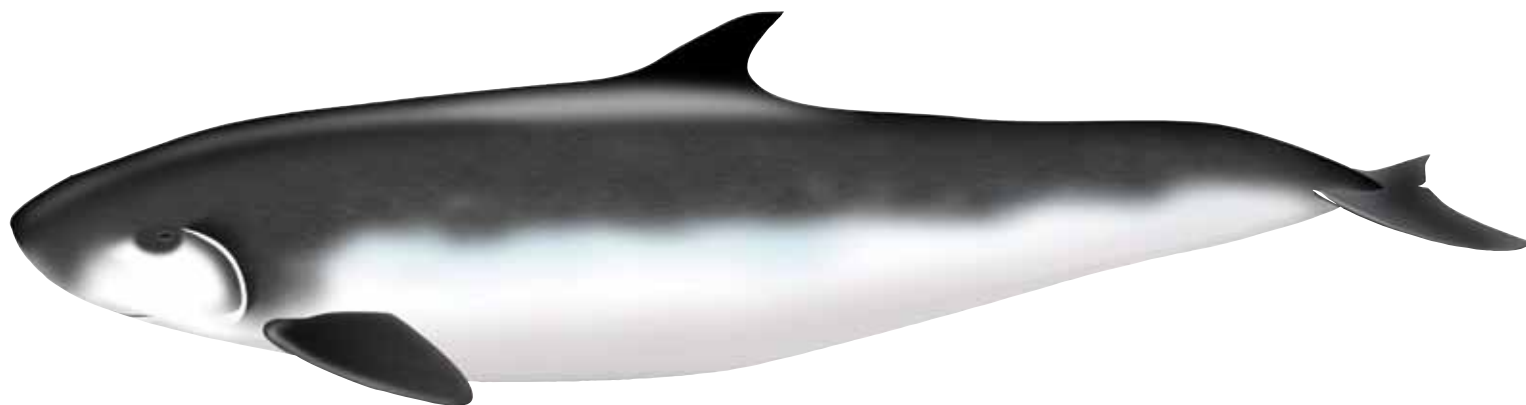
胸鰭短，位於身體前方
Short flippers located far forward on body

最大體長：3.7公尺
Maximum length: 3.7 m

Taiwanese: 小抹香鯨
English: Pygmy sperm whale
French: Cachalot pygmée
Japanese: Komakko-kujira
Local:

Kogia simus

DWW



背鰭小，位於背中央稍後方
Dorsal fin tiny, located after mid-back

體表可能出現皺褶
Body may appear wrinkled

頷小且窄
Small narrow jaw

頸部具皺褶
Creases on throat

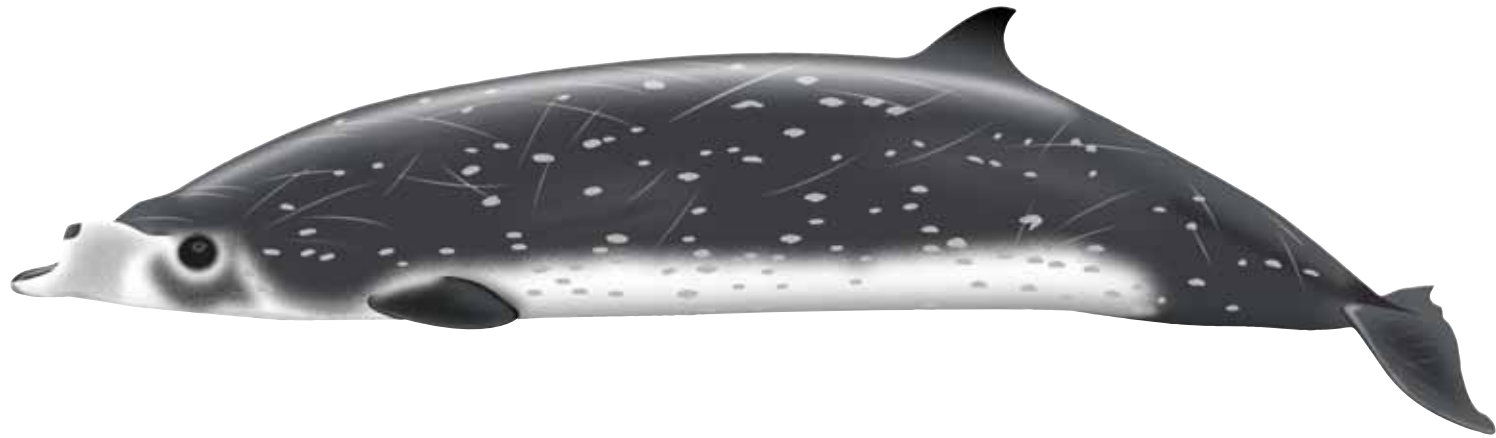
胸鰭短，位於身體前方
Short flippers located far forward on body

最大體長：2.7公尺
Maximum length: 2.7 m

Taiwanese: 侏儒抹香鯨
English: Dwarf sperm whale
French: Cachalot nain
Japanese: Ogawa komakko-kujiraa
Local:

Mesoplodon densirostris

BBW

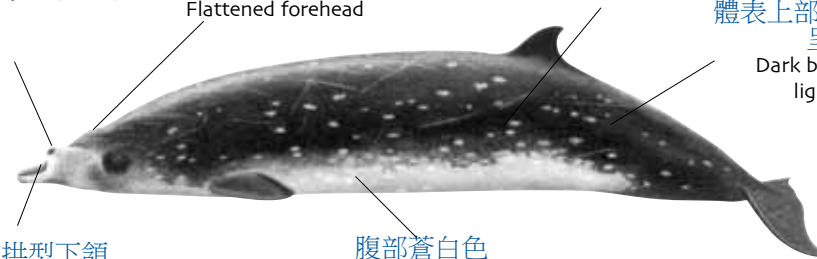


巨大角狀齒從下頷突出(雄性)
Large horn-like teeth erupt
from lower jaw (males)

前額扁平
Flattened forehead

體表具有白斑和劃痕(雄性)
Pale blotches all over body "scratches" (males)

體表上部呈現深藍灰色，下部
呈現淺灰色。
Dark bluish-grey upperside /
light grey underside



明顯的拱型下頷
Strong arched lower jaw

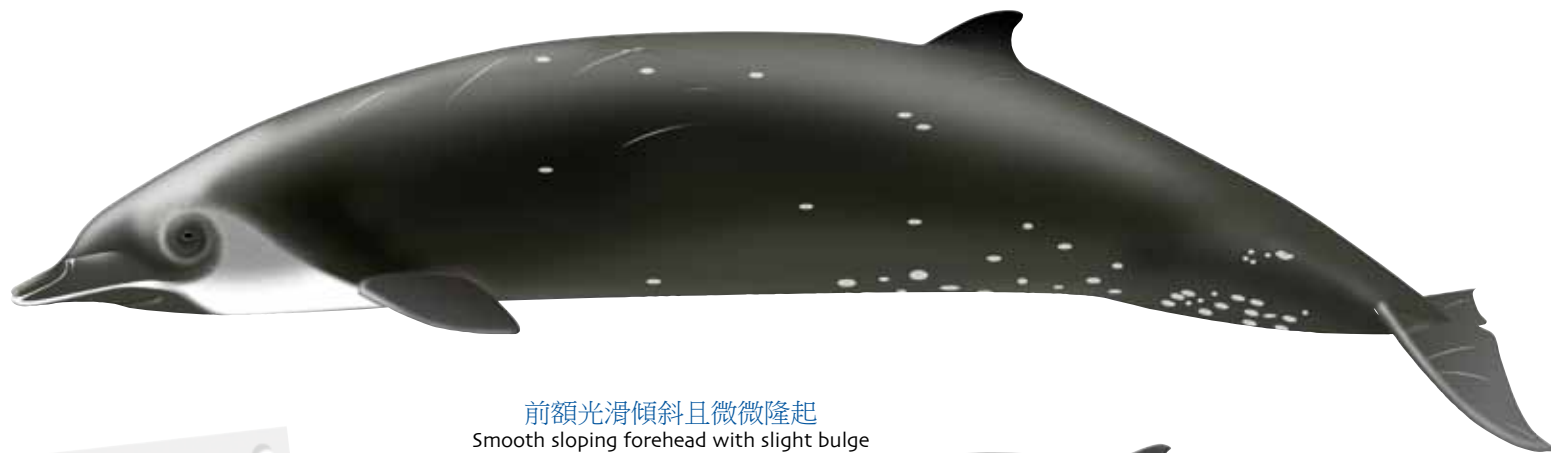
腹部蒼白色
Pale belly

最大體長：5公尺
Maximum length: 5 m

Taiwanese: 柏氏中喙鯨
English: Blainville's beaked whale
French: Baleine à bec de Blainville
Japanese: Kobuha-kujira
Local:

Mesoplodon ginkgodens

TGW



前額光滑傾斜且微微隆起
Smooth sloping forehead with slight bulge

拱型的下頷
Arched lower jaw

齒較低幾乎被牙床覆蓋(雄性)
Low teeth mostly covered (males)

肚臍附近具白色斑點
White blotches near navel

最大體長：5公尺
Maximum length: 5 m

Taiwanese: 銀杏齒中喙鯨
English: Ginkgo-toothed beaked whale
French: Baleine à bec de Nishiwaki
Japanese: Ichoha-kujira
Local:

Ziphius cavirostris

BCW



瓜狀前額(雄性白色/雌性較不明顯)
Melon forehead (males white / less distinct in females)

體表上部和側邊有白色劃痕(雄性)
Long white "scratches" on upper body and sides (males)

吻凸若有似無
Short indistinct beak

下頷頂端具有2個小圓齒(雄性)
Two small circular teeth at tip of lower jaw (males)

下側有乳白色斑點
White to cream blotches on underside

最大體長：7公尺
Maximum length: 7 m

Taiwanese: 柯氏喙鯨
English: Cuvier's beaked whale
French: Ziphius
Japanese: Akabo-kujira
Local:

Mesoplodon spp. 中喙鯨屬

MEP



Mesoplodon hectori
賀氏中喙鯨



Mesoplodon grayi
哥氏中喙鯨



Mesoplodon mirus
初氏中喙鯨



Mesoplodon bowdoini
安氏中喙鯨



Mesoplodon layardii
長齒中喙鯨

Taiwanese: 其他喙鯨

English: Other beaked whales

French: Autres mésoplodons, autres baleines à bec

Japanese: Hakujira rui

Local:

明顯的吻凸(長短不一)
Obvious beak of varying lengths

背鰭位於背中央後方
Dorsal fin located after mid-back

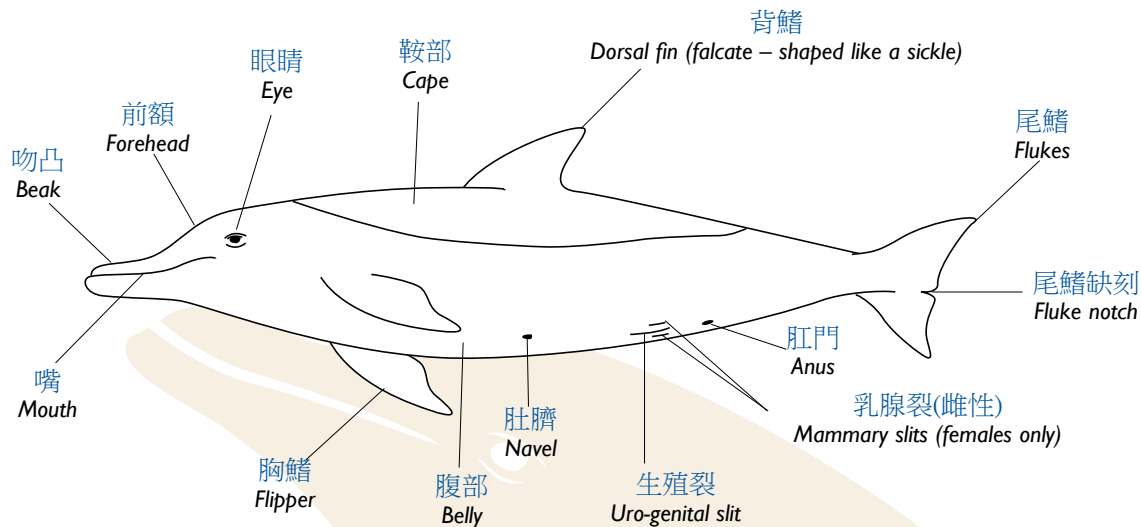
沒有尾鰭缺刻
No fluke notch

通常下頷兩側各有一顆或兩顆扁型齒暴出(雄性)
Usually only one or two flat teeth erupting on each side of lower jaw (males)

與體型相比，雄鰭較小
Small flippers compared to body size

最大體長：7公尺
Maximum length: 7 m

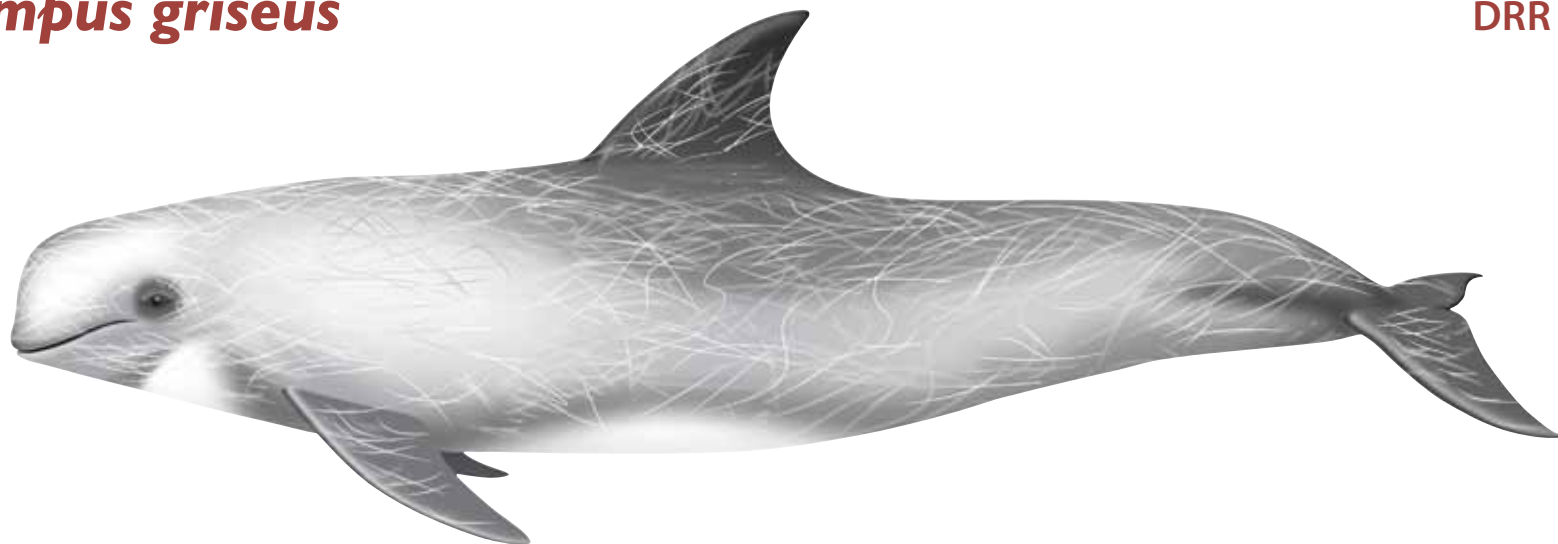
海豚 Dolphins



| Scientific | Taiwanese | English | FAO code | Page |
|-----------------------------------|--------------|---------------------------------|----------|------|
| <i>Lagenorhynchus obliquidens</i> | 太平洋短吻海豚；鑷鰭海豚 | Pacific white-sided dolphin | DWP | 129 |
| <i>Lagenodelphis hosei</i> | 弗氏海豚 | Fraser's dolphin | FDR | 131 |
| <i>Tursiops aduncus</i> | 印太瓶鼻海豚；真瓶鼻海豚 | Indo-Pacific bottlenose dolphin | DBZ | 136 |
| <i>Stenella longirostris</i> | 長吻飛旋海豚 | Spinner dolphin | DSI | 135 |
| <i>Delphinus capensis</i> | 長吻真海豚 | Long-beaked common dolphin | DCZ | 132 |
| <i>Delphinus delphis</i> | 真海豚 | Short-beaked common dolphin | DCO | 133 |
| <i>Stenella coeruleoalba</i> | 條紋海豚 | Striped dolphin | DST | 134 |
| <i>Tursiops truncatus</i> | 瓶鼻海豚 | Common bottlenose dolphin | DBO | 137 |
| <i>Grampus griseus</i> | 瑞氏海豚 | Risso's dolphin | DRR | 128 |
| <i>Stenella attenuata</i> | 熱帶斑海豚 | Pantropical spotted dolphin | DPN | 138 |
| <i>Steno bredanensis</i> | 糙齒海豚 | Rough-toothed dolphin | RTD | 130 |

Grampus griseus

DRR



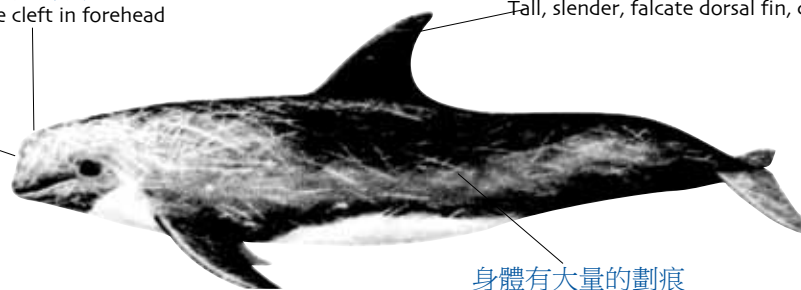
前額有獨特裂口

Distinctive cleft in forehead

背鰭高且呈鐮刀狀，顏色比體色深

Tall, slender, falcate dorsal fin, darker than body

頭鈍，無吻凸
Blunt head, no beak



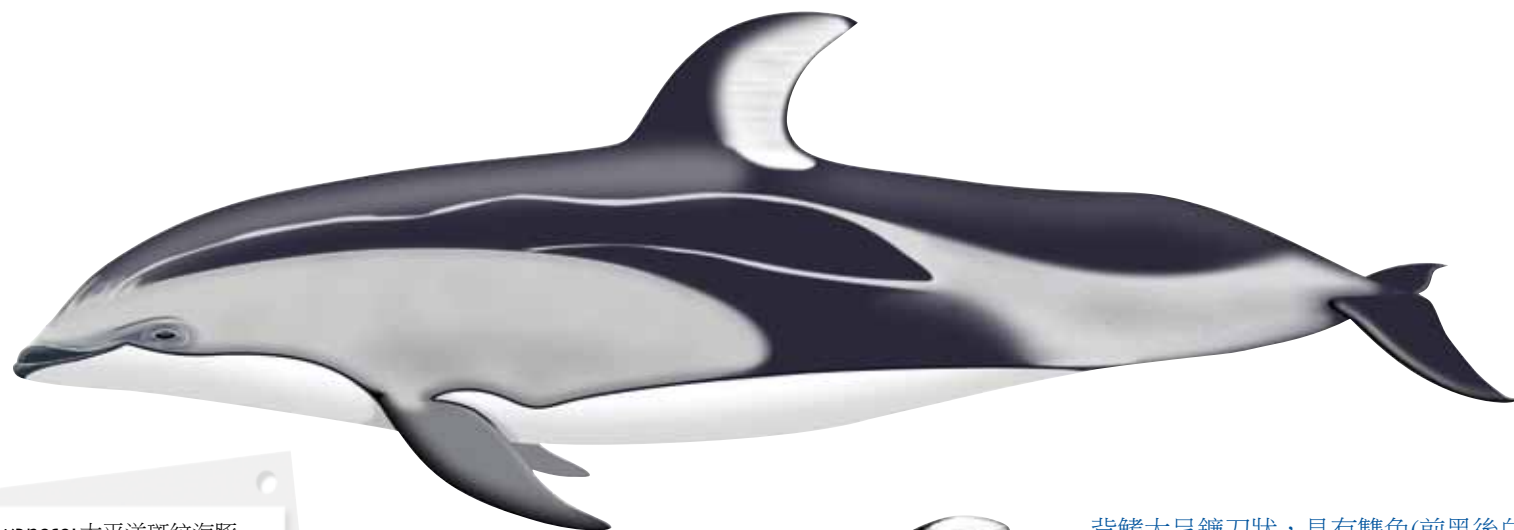
身體有大量的劃痕
Body with extensive "scratches"

最大體長達4公尺
Maximum length: 4 m

Taiwanese: 瑞氏海豚
English: Risso's dolphin
French: Grampus
Japanese: Hana-gondo
Local:

Lagenorhynchus obliquidens

DWP



Taiwanese: 太平洋斑紋海豚

English: Pacific white-sided dolphin

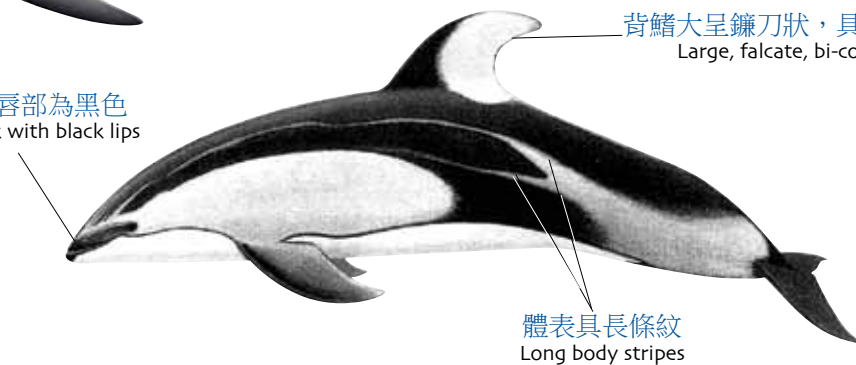
French: Dauphins à flancs blancs du Pacifique

Japanese: Kama-iruka

Local:

吻小且唇部為黑色
Small beak with black lips

背鰭大呈鐮刀狀，具有雙色(前黑後白)
Large, falcate, bi-coloured dorsal fin



體表具長條紋
Long body stripes

最大體長達2.5公尺
Maximum length: 2.5 m

Steno bredanensis

RTD



頭部平斜，額凸不明確
Sloping head

披肩帶在眼到背鰭間較窄
Cape that narrows between eye and dorsal fin

吻長，通常為白色
Long beak, often white

腹部呈白色，有時略為粉紅
White to pinkish belly

黃色或粉紅色的劃痕
Yellow or pinkish "scratches"

最大體長達2.8公尺
Maximum length: 2.8 m

Taiwanese: 糙齒海豚
English: Rough-toothed dolphin
French: Sténo
Japanese: Shiwaha-iruka
Local:

Lagenodelphis hosei

FDR



背鰭小
Small dorsal fin

吻短
Short beak

腹部通常為乳白色或粉紅色
Belly usually creamy or pinkish

臉部至肛門的體側條紋較寬
Broad face to anus stripe

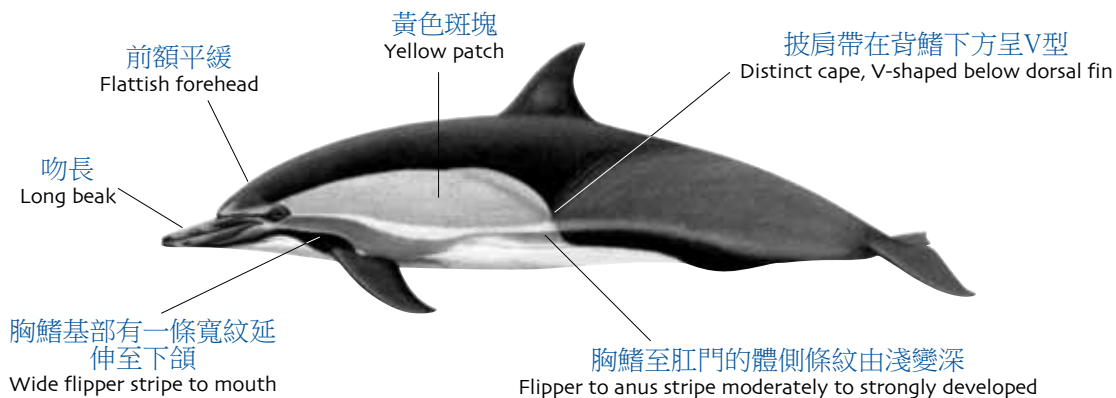
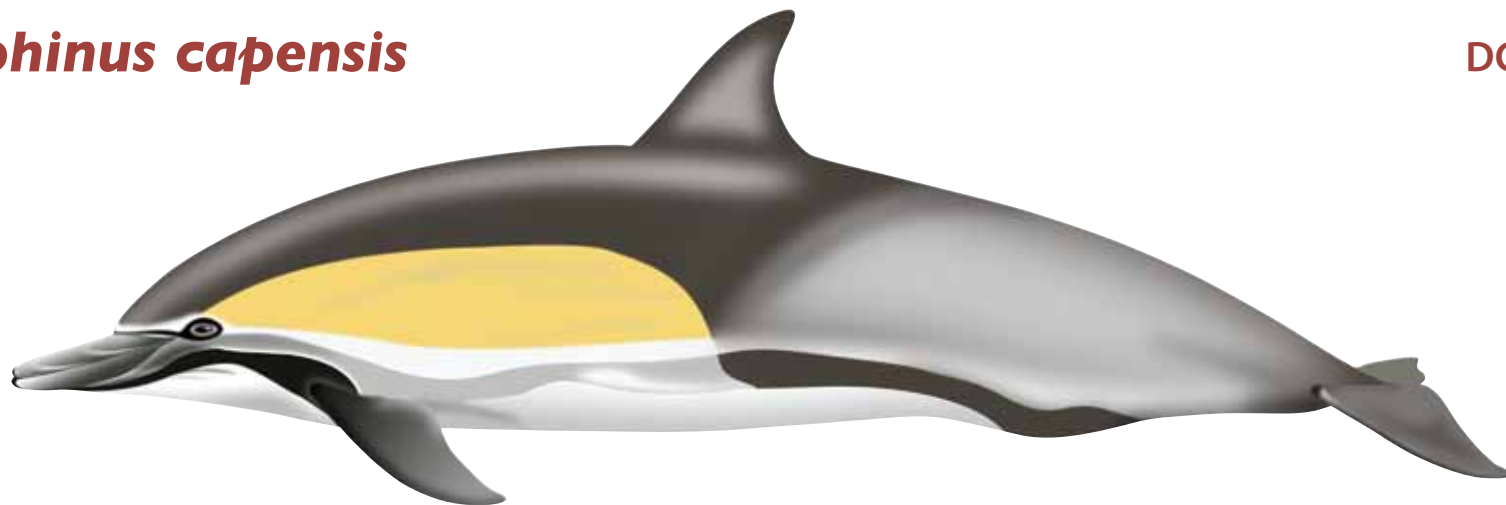
胸鰭小且尖
Small pointed flippers

最大體長達2.7公尺
Maximum length: 2.7 m

Taiwanese: 弗氏海豚
English: Fraser's dolphin
French: Dauphin de Fraser
Japanese: Sawaraku-iruka
Local:

Delphinus capensis

DCZ

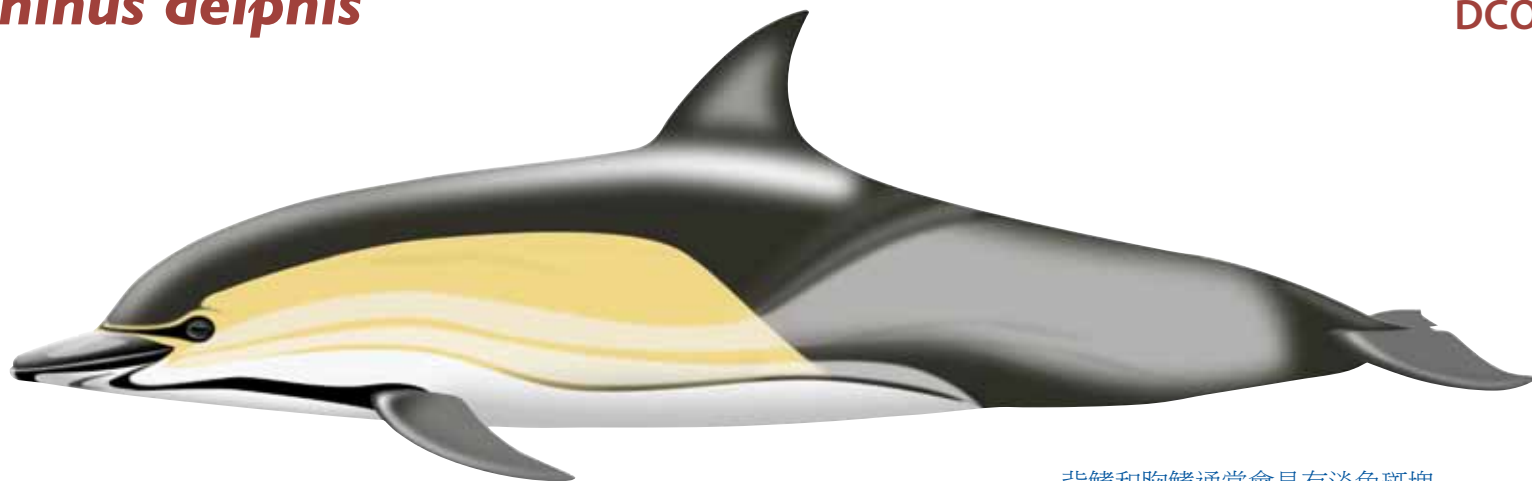


最大體長達2.4公尺
Maximum length: 2.4 m

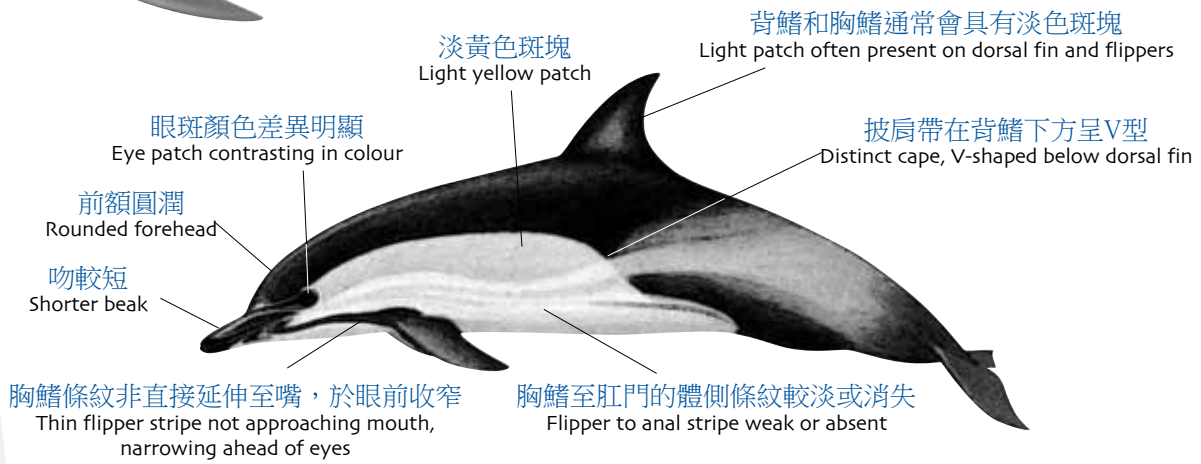
Taiwanese: 長吻真海豚
English: Long-beaked common dolphin
French: Dauphin commun à long bec
Japanese: Hase-iruka
Local:

Delphinus delphis

DCO



Taiwanese: 真海豚
English: Short-beaked common dolphin
French: Dauphin commun
Japanese: Ma-iruka
Local:



最大體長達2公尺
Maximum length: 2 m

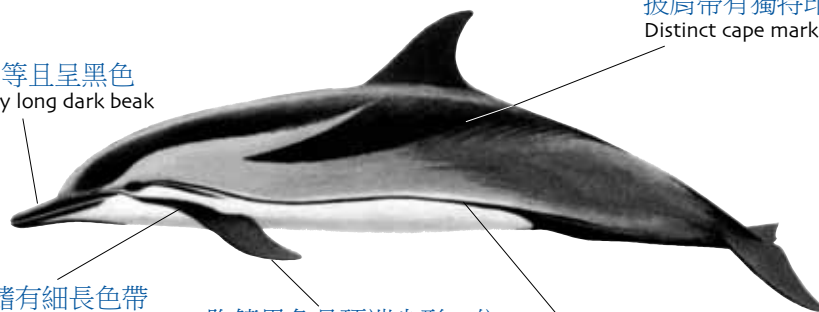
Stenella coeruleoalba

DST



吻長中等且呈黑色
Moderately long dark beak

披肩帶有獨特印記
Distinct cape markings



眼至胸鰭有細長色帶
Thin stripe from eye to flipper

胸鰭黑色且頂端尖形，位於白色的身體區域
Dark pointed flippers located in white body area

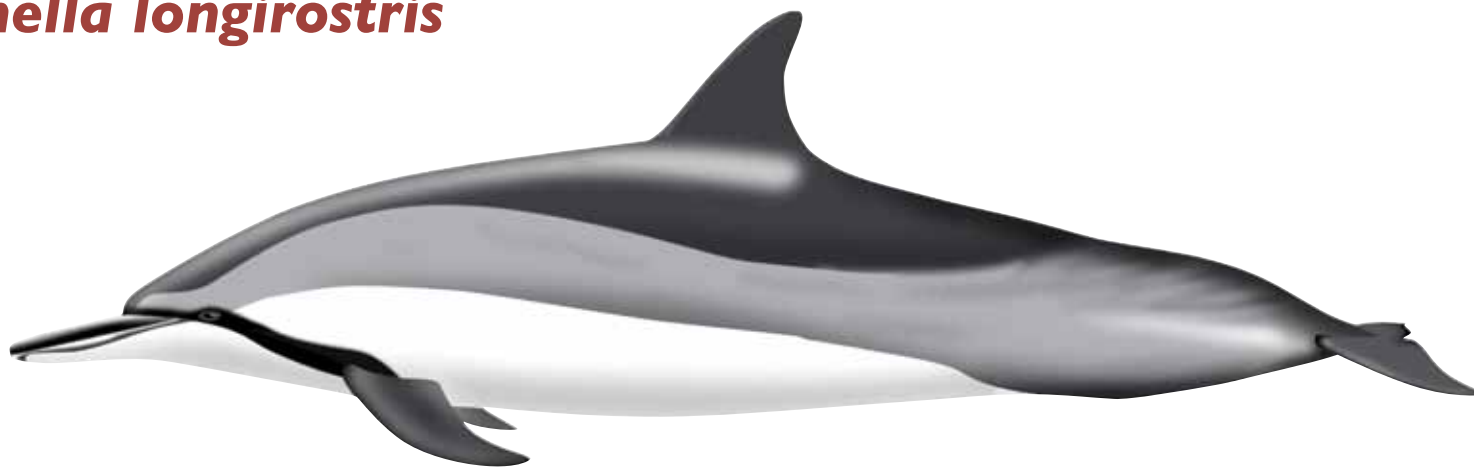
體側條紋由眼至肛門為一條細紋
Thin stripe from eye to anus

最大體長達2.6公尺
Maximum length: 2.6 m

Taiwanese: 條紋海豚
English: Striped dolphin
French: Dauphin bleu et blanc
Japanese: Suji-iruka
Local:

Stenella longirostris

DSI



吻很長且細，具黑色唇緣
Very long and narrow black-tipped beak

背鰭高，形狀呈三角形至鐮刀形
Tall, dorsal fin varies from triangular to falcate

從眼睛到胸鰭具有條紋
Stripe from eye to flipper

胸鰭長且頂端尖
Long pointed flippers

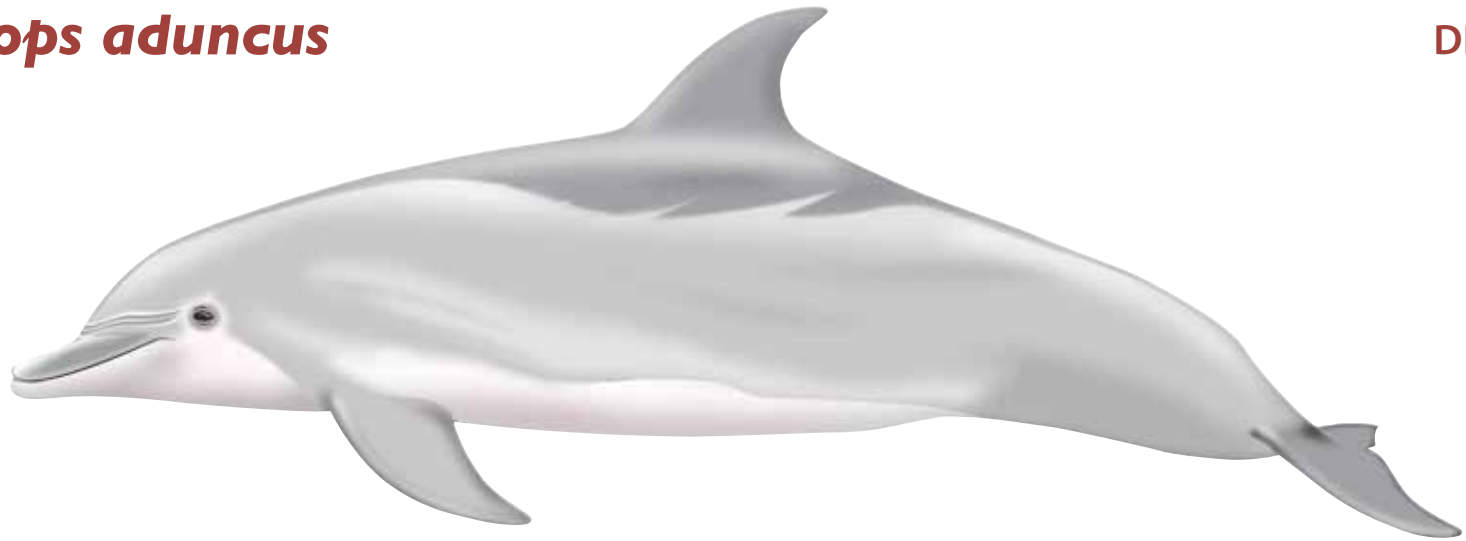
腹部為白色
White belly

最大體長達2.1公尺
Maximum length: 2.1 m

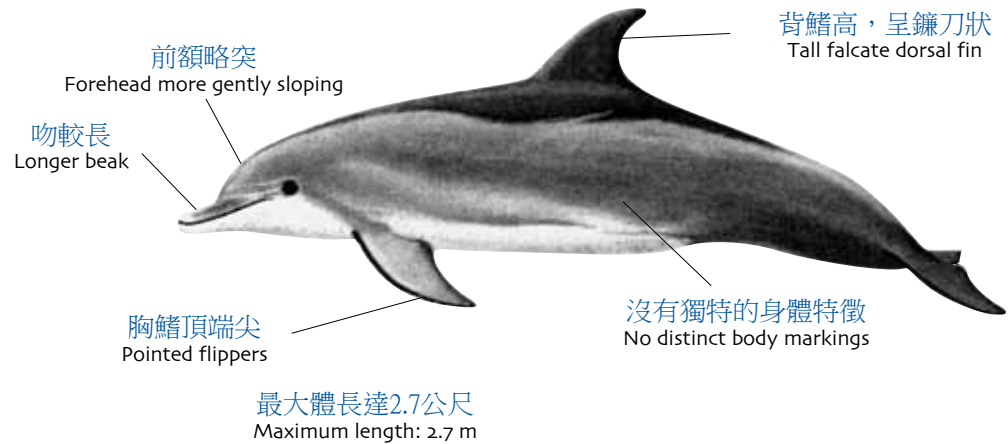
Taiwanese: 長吻飛旋海豚
English: Spinner dolphin
French: Dauphin longirostre
Japanese: Hashinaga-iruka
Local:

Tursiops aduncus

DBZ

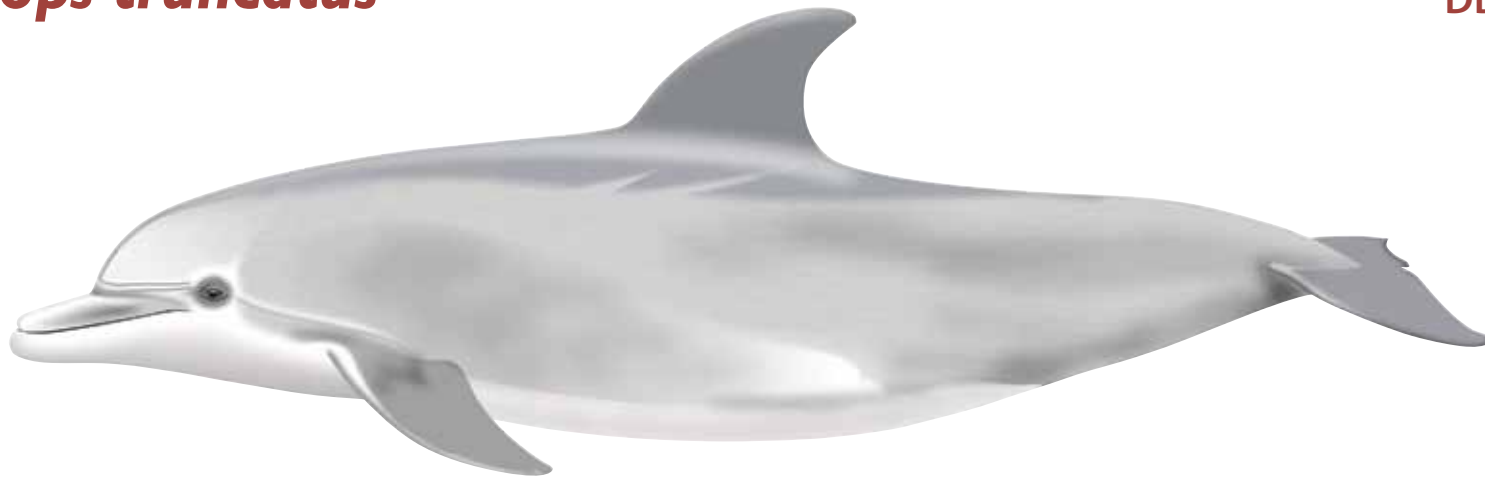


Taiwanese: 印太瓶鼻海豚
English: Indo-Pacific bottle-nose dolphin
French: Grand dauphin de l'Indo-Pacifique
Japanese: Minamibandou-iruka
Local:



Tursiops truncatus

DBO



Taiwanese: 瓶鼻海豚
English: Common bottle-nose dolphin
French: Grand dauphin
Japanese: Bando-iruka, Taiseiyo
Local:

前額突出
Blunt and abruptly sloping forehead

吻短
Short beak

鰭狀肢端部尖
Pointed flippers

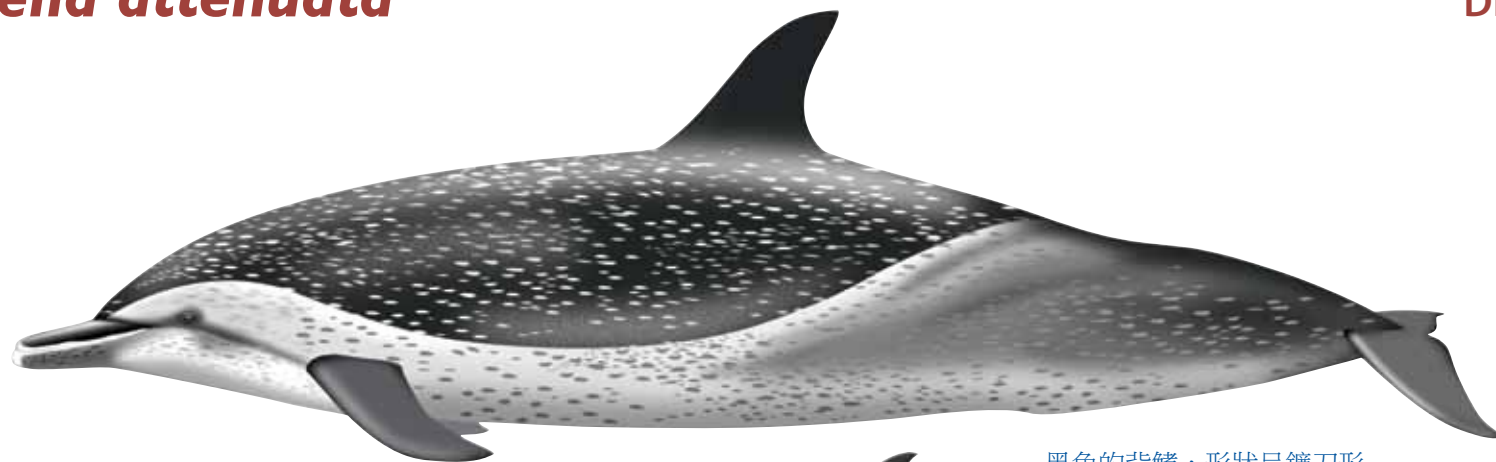
背鰭高，呈鐮刀狀
Tall falcate dorsal fin

沒有獨特的身體特徵
No distinct body markings

最大體長達3.8公尺
Maximum length: 3.8 m

Stenella attenuata

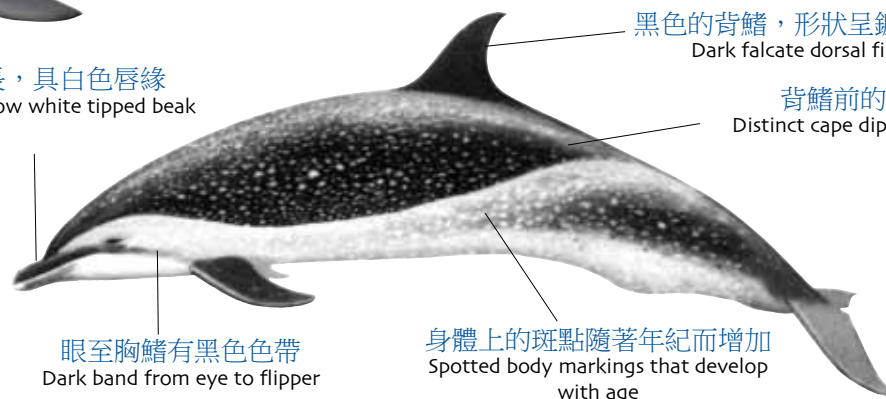
DPN



吻細長，具白色唇緣
Long, narrow white tipped beak

黑色的背鰭，形狀呈鐮刀形
Dark falcate dorsal fin

背鰭前的披肩帶驟降較低
Distinct cape dips deeply before dorsal fin



眼至胸鰭有黑色色帶
Dark band from eye to flipper

身體上的斑點隨著年紀而增加
Spotted body markings that develop with age

Taiwanese: 熱帶斑海豚
English: Pantropical spotted dolphin
French: Dauphin tacheté pantropical
Japanese: Madara-iruka
Local:

最大體長達2.6公尺
Maximum length: 2.6 m

咬食物種

Damaged fish



| Taiwanese | English | Page |
|-----------|----------------------------|------|
| 齒鯨類咬食 | Toothed whale damage | 140 |
| 鯊魚咬食 | Shark damage | 141 |
| 巴西達摩鯊咬食 | Cookie cutter shark damage | 142 |
| 魷魚咬食 | Squid damage | 143 |
| 海鳥啄食 | Seabird damage | 144 |

齒鯨類咬食 Toothed whale damage

一般特徵：

- 鋸齒狀的傷口，邊緣常殘留長條狀的皮膚和魚肉
- 通常只有魚的頭部或嘴部留在魚鉤上
- 呈現「大口咬食並撕裂」的外觀
- 齒痕間距寬
- 通常在同一次作業會有多條魚被咬食
- 通常為單一咬痕

Common characteristics:

- Jagged bite edges often accompanied by long strips of skin and tendons
- Often only the fish's head or mouthparts left on hook
- "Crushed and torn" appearance
- Tooth puncture marks widely spaced
- Damage often found on multiple fish in same set
- Usually appears to be a single bite



鯊魚咬食

Shark damage

一般特徵：

- 咬食傷口大，很少殘留長條狀的組織
- 傷口有時可看見牙齒痕跡
- 與刺痕相比，咬痕看起來像切割和撕裂
- 有時是斜向且較淺的缺口
- 時常出現多個咬痕

Common characteristics:

- Large bites; few, if any, long strips of tissue
- Gouge marks from individual teeth sometimes seen over surface of wound
- Teeth marks look more like cuts and lacerations than punctures
- Sometimes slashes and superficial cuts
- Often appears to have several bites



雪茄鮫咬食

Cookie cutter shark damage

一般特徵：

- 圓形或橢圓形的傷口，傷口邊緣完整
- 半球狀和很深的凹洞
- 任何部位皆可能發現，通常在魚體後側下部

Common characteristics:

- Circular or oval shaped wounds with clean edges
- Hemispherical and highly concave
- Can be found anywhere, but more common on lower rear of body



魷魚咬食 Squid damage

一般特徵：

- 傷口邊緣和表面呈鋸齒狀
- 魚體皮膚或傷口周圍有吸吮痕跡
- 若咬食至背骨和椎骨，上頭魚肉會剔得很乾淨
- 可能發生在魚體的任何地方

Common characteristics:

- Jagged wound edges and surfaces
- Sucker marks on skin around wound edge and on fish's body
- Backbone and vertebrae, if present, picked fairly clean
- May occur anywhere on fish's body



海鳥咬食 Seabird damage

一般特徵：

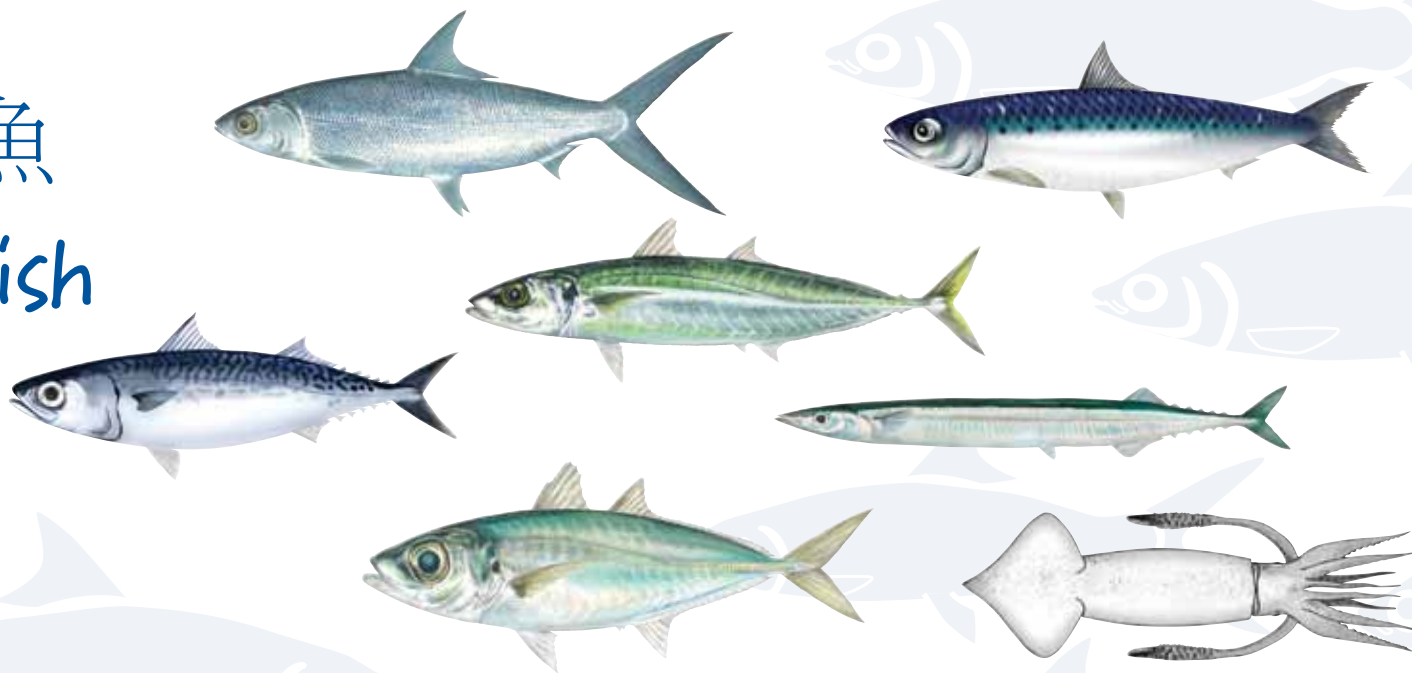
- 傷口邊緣和表面呈鋸齒狀
- 傷口邊緣會殘留許多短的皮膚和肌肉條
- 喙會在傷口周圍的皮膚和魚體，留下有許多劃痕
- 通常發生在魚體柔軟的部位

Common characteristics:

- Jagged wound edges and surfaces
- Many short strips of skin and muscle left on wound edges
- Many scratch marks from beaks on skin around wound edge and on fish's body
- Usually occur on softer parts of fish's body



餌料魚 Baitfish



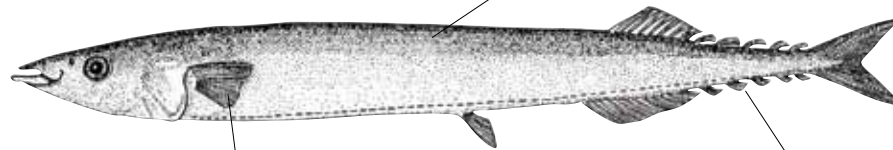
| Scientific | Taiwanese | English | FAO code | Page |
|-------------------------------|------------|-------------------------|----------|------|
| <i>Cololabis saira</i> | 秋刀魚 | Pacific saury, Sanma | SAP | 146 |
| <i>Sardinops sagax</i> | 南美擬沙丁魚;臭肉鯷 | South American pilchard | CHP | 147 |
| <i>Scomber japonicus</i> | 白腹鯖;花飛 | Chub mackerel | MAS | 148 |
| <i>Decapterus macarellus</i> | 頷圓鱗;四破 | Mackerel scad | MSD | 149 |
| <i>Selar crumenophthalmus</i> | 脂眼凹肩鱈;大目巴攏 | Bigeye scad | BIS | 150 |
| <i>Chanos chanos</i> | 虱目魚 | Milkfish | MIL | 151 |
| Ommastrephidae | 魷魚 | Squid | OMZ | 152 |

Cololabis saira

SAP



體型狹長
Long, skinny body



小胸鰭
Small pectoral fin

離鰭
Finlets

最大體長達45公分
Maximum length: 45 cm

Taiwanese: 秋刀魚
English: Pacific saury, Sanma
French: Balaou du Japon,
Balaou du Pacifique
Japanese: Sanma
Hawaiian: Sanma
Local:

Sardinops sagax

CHP



Taiwanese: 南美擬沙丁 (臭肉鱚)

English: South American pilchard

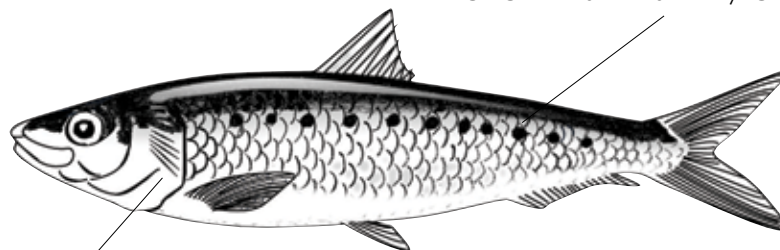
French: Pilchard du Pacifique, Pilchard sud-américain

Japanese: Ma-iwashi

Hawaiian: Makiawa, Sardine

Local:

體側金帶上有十數個藍色斑點，有時很微弱
Lateral series of ten to twenty dark bluish gold spots, sometimes very faint



鰓蓋具放射狀隆起線
Radiating bony striae on operculum

最大體長達25公分
Maximum length: 25 cm

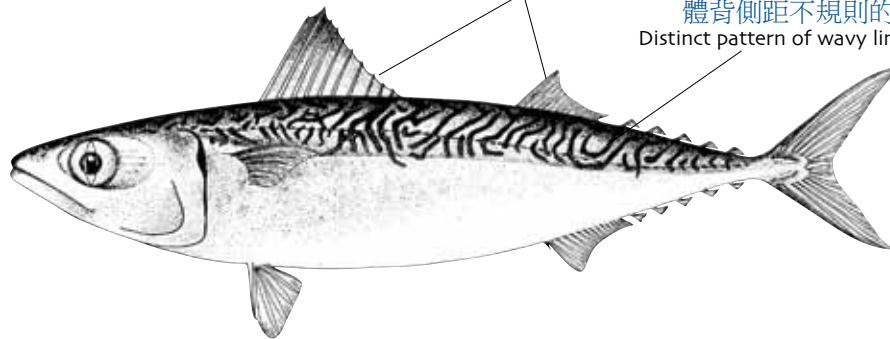
Scomber japonicus

MAS



第一背鰭與第二背鰭距離遠
Dorsal fins widely separated

體背側距不規則的斑紋
Distinct pattern of wavy lines on back



最大體長達50公分
Maximum length: 50 cm

Taiwanese: 白腹鯖 (花飛)
English: Chub mackerel
French: Maquereau espagnol
Japanese: Ma-saba
Hawaiian: Saba, Mackerel
Local:

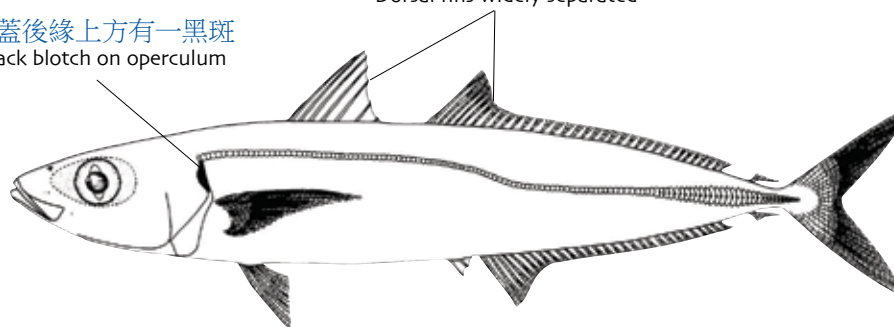
Decapterus macarellus

MSD



第一背鰭與第二背鰭距離遠
Dorsal fins widely separated

鰓蓋後緣上方有一黑斑
Black blotch on operculum



最大體長達40公分
Maximum length: 40 cm

Taiwanese: 頷圓鯧 (四破)
English: Mackerel scad
French: Comète maquereau
Japanese: Kusayamoro,
Muro aji
Hawaiian: Opelu, Opelu-mama
Local:

Selar crumenophthalmus

BIS

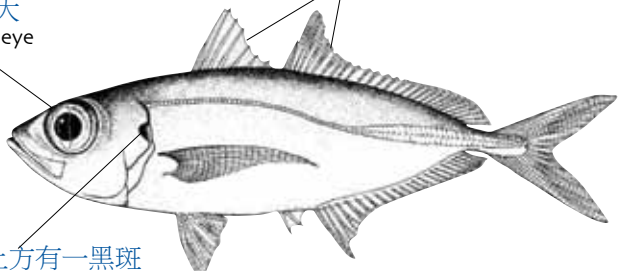


Taiwanese: 脂眼凹肩鯷
(大目巴攏)
English: Bigeye scad
French: Sélar coulisou
Japanese: Me-aji
Hawaiian: Akule (large),
Halalu (medium),
Pa'a'a (small)
Local:

兩背鰭緊靠
Dorsal fins close together

眼睛特大
Very large eye

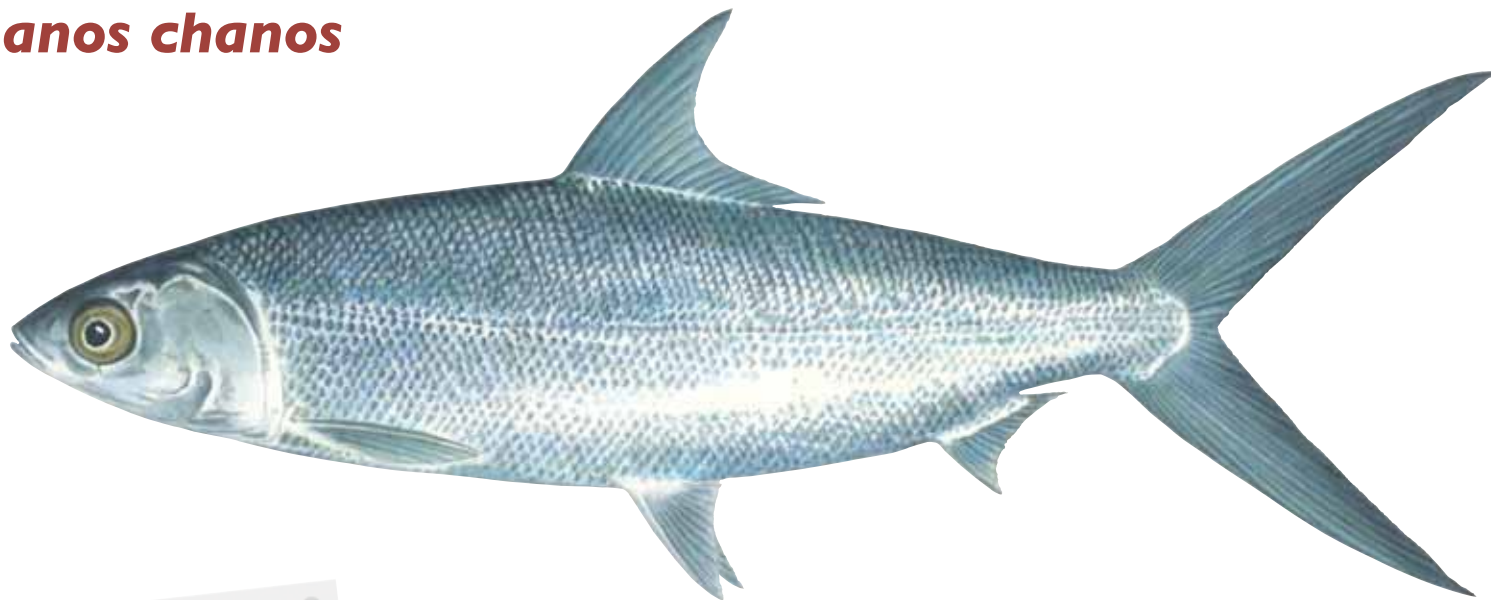
鰓蓋後緣上方有一黑斑
Black spot on operculum



最大體長達50公分
Maximum length: 50 cm

Chanos chanos

MIL

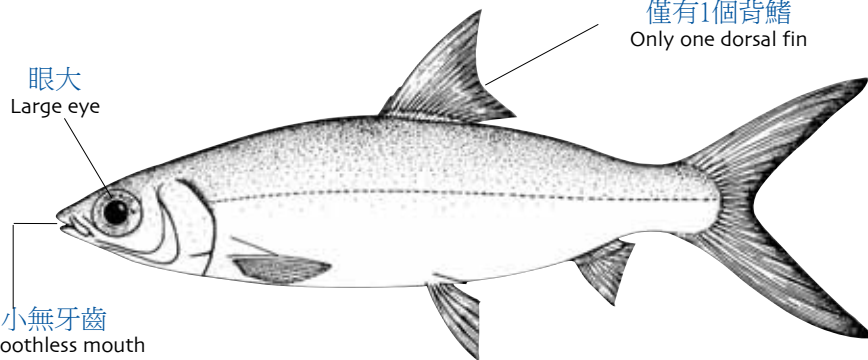


Taiwanese: 虱目魚
English: Milkfish
French: Chano, Poisson lait
Japanese: Sabahii, Miruku
Hawaiian: Awa
Local:

眼大
Large eye

口小無牙齒
Small toothless mouth

僅有1個背鰭
Only one dorsal fin

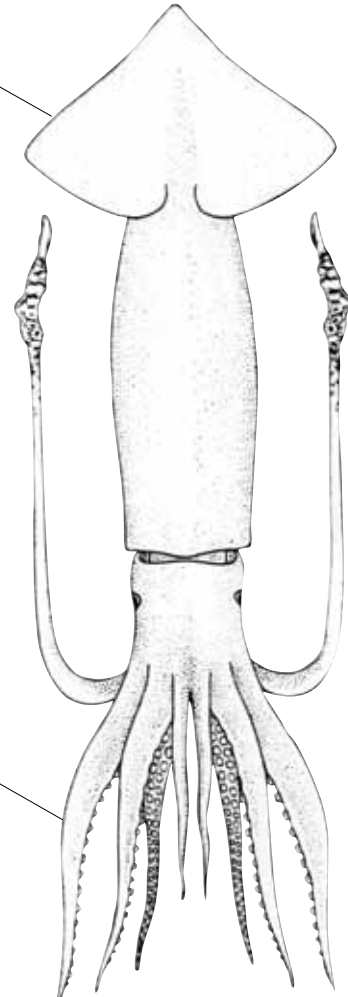
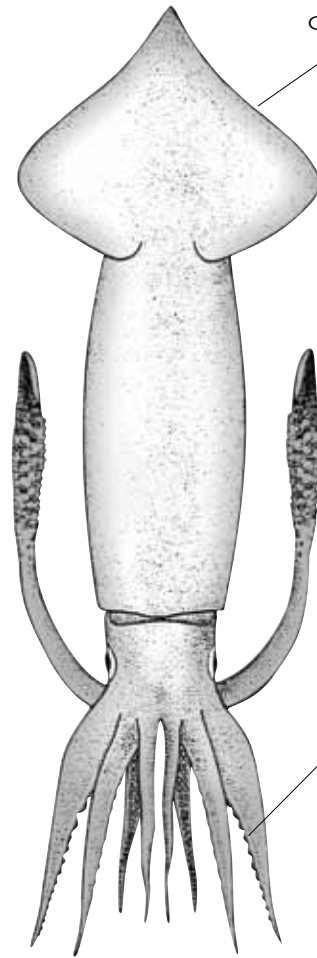


最大體長達110公分
Maximum length: 110 cm

Ommastrephidae

OMZ

獨特的體型特徵
Characteristic body shape



觸腕
Tentacles

Taiwanese: 魷魚
English: Squid
French: Encornets
Japanese: Ika-ru
Hawaiian: Mu'hee, Ika, Squid
Local:



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MINISTRY OF FOREIGN AFFAIRS & TRADE
Aid Programme



European Union
Union européenne