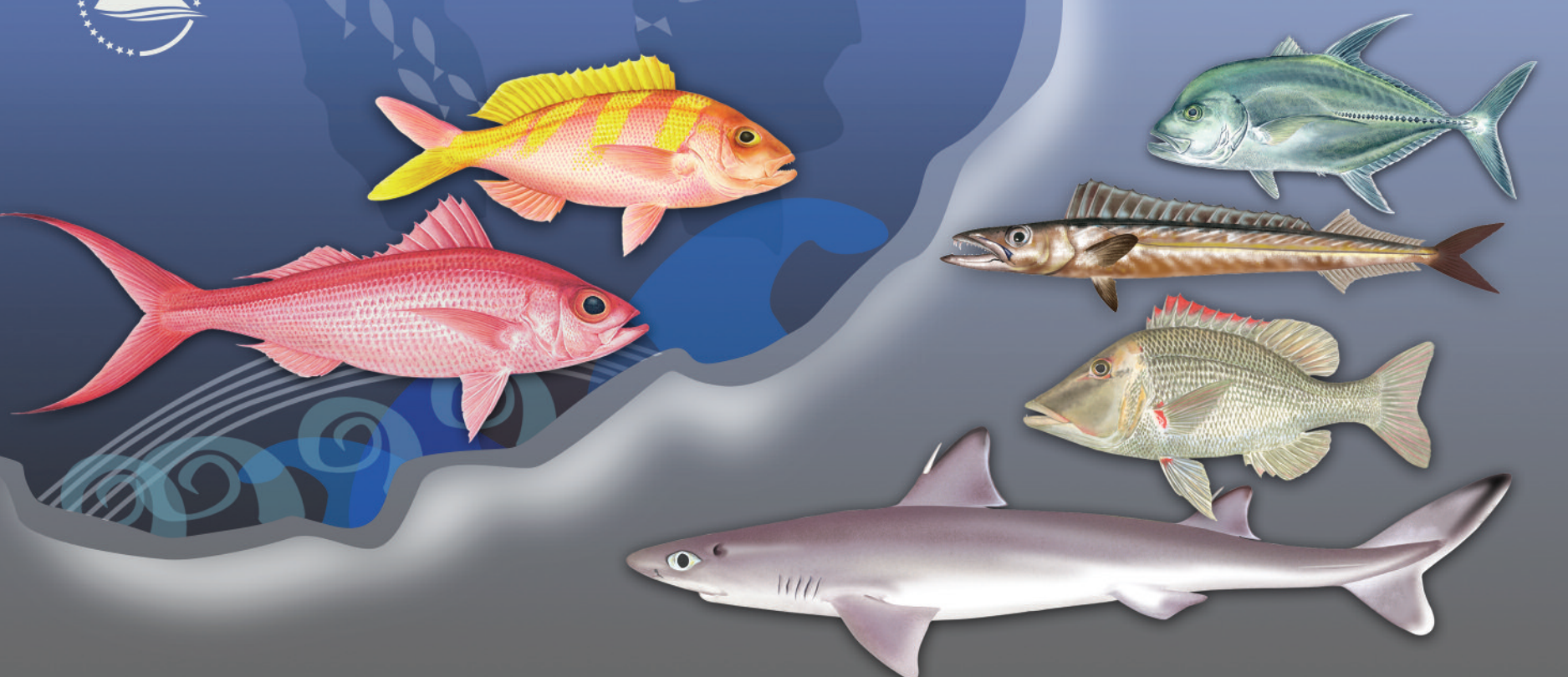
Fish species identification manual for deep-bottom snapper fishermen

Manuel d'identification des poissons destiné aux pêcheurs de vivaneaux profonds



FISH SPECIES IDENTIFICATION MANUAL FOR DEEP-BOTTOM SNAPPER FISHERMEN

by

Lindsay Chapman, Aymeric Desurmont, Youngmi Choi,
Pierre Boblin, William Sokimi and Steve Beverly

Australian Government

AusAID

MANUEL D'IDENTIFICATION DES POISSONS DESTINÉ AUX PÊCHEURS DE VIVANEAUX PROFONDS

par

Lindsay Chapman, Aymeric Desurmont, Youngmi Choi,
Pierre Boblin, William Sokimi et Steve Beverly

nzaid

© Copyright Secretariat of the Pacific Community 2008

All rights for commercial / for profit reproduction or translation, in any form, reserved. SPC authorises the partial reproduction or translation of this material for scientific, educational or research purposes, provided SPC and the source document are properly acknowledged. Permission to reproduce the document and/or translate in whole, in any form, whether for commercial / for profit or non-profit purposes, must be requested in writing. Original SPC artwork may not be altered or separately published without permission.

Original text: English and French

Secretariat of the Pacific Community Cataloguing-in-publication data

Chapman, L. (Lindsay)et al.

Fish species identification manual for deep-bottom snapper fishermen / by Lindsay Chapman, Aymeric Desurmont, Youngmi Choi, Pierre Boblin, William Sokimi and Steve Beverly. = Manuel d'identification des poissons destiné aux pêcheurs de vivaneaux profonds / par Lindsay Chapman, Aymeric Desurmont, Youngmi Choi, Pierre Boblin, William Sokimi et Steve Beverly.

I. Chapman, Lindsay. II. Desurmont, Aymeric. III. Choi, Youngmi. IV. Boblin, Pierre. V. Sokimi, William. VI. Beverly, Steve. VIII. Title. IX. Secretariat of the Pacific Community.

1. Fishes – Identification – Handbooks, manuals, etc. 2. Lutjanidae fisheries – Handbooks, manuals, etc.

597 AACR2

ISBN: 978-982-00-0262-3

© Copyright Secrétariat général de la Communauté du Pacifique 2008

Tous droits réservés de reproduction ou de traduction à des fins commerciales/lucratives, sous quelque forme que ce soit. Le Secrétariat général de la Communauté du Pacifique autorise la reproduction ou la traduction partielles de ce document à des fins scientifiques ou éducatives ou pour les besoins de la recherche, à condition qu'il soit fait mention de la CPS et de la source. L'autorisation de la reproduction et/ou de la traduction intégrale ou partielle de ce document, sous quelque forme que ce soit, à des fins commerciales/lucratives ou à titre gratuit, doit être sollicitée au préalable par écrit. Il est interdit de modifier ou de publier séparément des graphismes originaux de la CPS sans autorisation préalable.

Texte original : anglais et français

Secrétariat général de la Communauté du Pacifique, catalogage avant publication

Fish species identification manual for deep-bottom snapper fishermen / by Lindsay Chapman, Aymeric Desurmont, Youngmi Choi, Pierre Boblin, William Sokimi and Steve Beverly. = Manuel d'identification des poissons destiné aux pêcheurs de vivaneaux profonds / par Lindsay Chapman, Aymeric Desurmont, Youngmi Choi, Pierre Boblin, William Sokimi et Steve Beverly.

I. Chapman, Lindsay. II. Desurmont, Aymeric. III. Choi, Youngmi. IV. Boblin, Pierre. V. Sokimi, William. VI. Beverly, Steve. VIII. Title. IX. Secretariat of the Pacific Community.

1. Fishes – Identification – Handbooks, manuals, etc. 2. Lutjanidae fisheries – Handbooks, manuals, etc.

597 AACR2

ISBN: 978-982-00-0262-3

All of the authors work for the Secretariat of the Pacific Community:

– Lindsay Chapman, Coastal Fisheries Programme Manager
– Aymeric Desurmont, Fisheries Information Specialist
– Youngmi Choi, Technical Support Officer
– Pierre Boblin, Reef Fisheries Officer
– William Sokimi, Fisheries Development Officer
– Steve Beverly, Fisheries Development Officer

Secretariat of the Pacific Community
BP D5, 98848 Noumea Cedex, New Caledonia
Tel: +687 26 00 00
Fax: +687 26 38 18
Email: spc@spc.int
http://www.spc.int/

Prepared for publication at
Secretariat of the Pacific Community headquarters
Noumea, New Caledonia, 2008
and printed by Stredder Print Ltd, New Zealand

Tous les auteurs travaillent au sein du Secrétariat général de la Communauté du Pacifique :

– Lindsay Chapman, Directeur du Programme pêche côtière
– Aymeric Desurmont, Spécialiste de l'information halieutique
– Youngmi Choi, Adjointe technique
– Pierre Boblin, Chargé d'étude (ressources récifales)
– Steve Beverly, Chargé du développement de la pêche
– William Sokimi, Chargé du développement de la pêche

Secrétariat général de la Communauté du Pacifique
BP D5, 98848 Nouméa Cedex, Nouvelle-Calédonie
Téléphone : +687 26 20 00
Télécopieur : +687 26 38 18
Courriel : spc@spc.int
http://www.spc.int/

Composition et mise en page réalisées au siège
du Secrétariat général de la Communauté du Pacifique
à Nouméa (Nouvelle-Calédonie) et impression réalisée
par Stredder Print Ltd (Nouvelle-Zélande)

Acknowledgements

The Secretariat of the Pacific Community acknowledges with gratitude the assistance and support of many people who contributed to the production of this manual. Particular thanks are due to Mr David Itano, Mr Kurt Kawamoto and Mr Paul Dalzell, for their input to the list of species to be covered and the Hawaiian species names; Mr Seiichiro Harada and Mr Masanami Izumi for input on Japanese species names; and Mr Jean-Paul Gaudechoux, Mr Michel Blanc and Mr Teriihauroa Luciani for input in a range of areas.

Special thanks to the Food and Agriculture Organization of the United Nations (FAO) for the use of their identification descriptors for some of the species covered in this manual, as well as for arranging FAO species codes for some of the more uncommon species previously not covered.

The original artwork was produced by Mr Les Hata and Ms Rachel O'Shea. Cover design, formatting and layout were done by Ms Youngmi Choi. The manual was edited by Ms Katie Purvis and translated into French by the SPC Translation and Interpretation Section.

Financial support for the production and publication of this manual was provided by the governments of Australia and New Zealand.

Remerciements

Le Secrétariat général de la Communauté du Pacifique tient à remercier les nombreuses personnes qui ont contribué à la réalisation du présent manuel pour leur aide et leur soutien. Il tient notamment à exprimer sa gratitude à MM. David Itano, Kurt Kawamoto et Paul Dalzell pour leur contribution à l'élaboration de la liste ainsi que les noms des espèces en langue hawaïenne, à MM. Seiichiro Harada et Masanami Izumi pour les noms des espèces en langue japonaise, et à MM. Jean-Paul Gaudechoux, Michel Blanc et Teriihauroa Luciani pour leur participation dans des divers domaines.

Nous remercions tout particulièrement l'Organisation des Nations Unies pour l'alimentation et l'agriculture (FAO) qui nous a permis d'appliquer ses descripteurs d'identification à certaines des espèces figurant dans le présent manuel, et qui a affecté des codes FAO normalisés à certaines espèces rares qui en étaient dépourvues.

Les graphismes originaux sont l'œuvre de M. Les Hata et de Mme Rachel O'Shea. La conception de la couverture et la mise en page ont été réalisées par Mme Youngmi Choi, un des auteurs du manuel. L'ouvrage a été révisé par Mme Katie Purvis et traduit en français par la Section traduction et interprétation de la CPS.

Ce manuel a été produit et publié grâce au soutien financier de l'Australie et de la Nouvelle-Zélande.

Introduction

Food security is becoming a major concern for Pacific Island countries and territories. A 2007 study conducted by the Secretariat of the Pacific Community (SPC) projected that populations in the Pacific would increase by 50 per cent by the year 2030. This would equate to an increase in fish needs of over 100,000 tonnes, just to maintain the current level of per capita consumption of seafood.

Globally, according to the Food and Agriculture Organization of the United Nations (FAO), there has been a consistent downward trend in the world's marine resources since the 1950s, and about three-quarters of the wild stocks were considered fully exploited or overexploited in 2006. An improvement in the management of all marine resources has therefore become an urgent necessity.

Better managing fisheries requires that scientists and managers have access to data from each fishery on all the species that are interacted with — not just on the target species. In small-scale fisheries, such as tropical reef fisheries, it is the resource users themselves who are expected to provide such detailed information. And to do so, they must first be able to correctly identify all the species they catch or interact with during their fishing operations.

SPC's Marine Resources Division has produced several information tools, including posters, cards and manuals, to help fishers and other marine resource users or managers with the identification of marine species occurring in Pacific Island waters. This manual is the second of a series that started with the *Marine species identification manual for horizontal longline fishermen*, published by SPC in 2006.

This manual concentrates on the description of species caught by deep-bottom snapper fishers. Some of these species have been fished in

Introduction

La question de la sécurité alimentaire suscite une inquiétude grandissante dans les États et Territoires insulaires océaniens. En effet, d'après une étude conduite en 2007 par le Secrétariat général de la Communauté du Pacifique (CPS), la population océanienne augmentera de 50 pour cent d'ici à 2030, ce qui entraînera un accroissement de l'ordre de 100 000 tonnes de la demande de poissons rien que pour maintenir le niveau de consommation actuel par habitant.

Selon la FAO, une tendance générale à l'amenuisement des ressources marines est observée depuis les années 50 à l'échelon international et, en 2006, environ trois quarts des stocks naturels étaient considérés comme pleinement exploités ou surexploités. Par conséquent, une amélioration de la gestion de toutes les ressources marines revêt aujourd'hui un caractère d'urgence.

Pour améliorer la gestion halieutique, les chercheurs et les responsables doivent disposer de données sur chaque pêcherie et ces informations doivent concerner, non seulement les espèces ciblées, mais aussi toutes celles touchées par des activités halieutiques. Dans le cas d'activités à petite échelle, comme la pêche de poissons de récif tropicaux, on s'attend à ce que les exploitants de la ressource fournissent eux-mêmes ces informations détaillées. Pour ce faire, ils doivent d'abord identifier correctement toutes les espèces qu'ils capturent ou qu'ils rencontrent lors des opérations de pêche.

La Division ressources marines a produit plusieurs supports d'information, notamment des affiches, des cartes et des manuels, en vue d'aider les pêcheurs, ainsi que les exploitants et les gestionnaires de ressources marines, à identifier les espèces peuplant les eaux de la région océanienne. Le présent manuel est le deuxième d'une série dont le premier, intitulé *Manuel d'identification des espèces marines destiné aux pêcheurs à la palangre horizontale*, a été publié par le CPS en 2006.

Le présent manuel porte sur une description des espèces capturées par les pêcheurs de vivaneaux en eaux profondes. Certaines de ces espèces sont

Polynesian countries for many decades, but the fishery has only been exploited throughout the Pacific Island region since the 1970s. The resources themselves are thought to be fragile given the limited depth range and area they occupy, and very little is known about their biology. Furthermore, the catch and effort data from past fishing activities are rare and incomplete, as they only cover the target species.

The overall aim of this manual is to improve and increase the amount and accuracy of catch data provided by deep-bottom snapper fishers in the Pacific Islands region, when they complete their catch and effort logsheets (and to encourage those who do not complete logsheets to start doing so). It will enable fishers to more accurately identify the fish they catch and to record species previously not recorded because they did not know what they were, or considered them insignificant or irrelevant.

The manual is presented in eight tabbed sections for ease of use. Each section starts with a list of the species covered in the section, with the scientific and standard FAO English and French names — when there was no FAO name for a species, the authors retained the name most commonly used in the Pacific Islands region — and the FAO species code to be used by fishers when completing their logsheets. Within each species group, species that may be hard to distinguish have been presented on opposite or adjoining pages to make identification easier.

Each page includes a large colour representation of the species and a smaller representation of the species with external identifiers marked in English and French. The scientific name of the species, the depth range and the FAO code appear at the top of each page. The depth range has been compiled from a variety of sources, including FishBase* and depths recorded during fishing operations across the Pacific Islands region. It may vary considerably from country to country. At the bottom left of each page is a list of English, French, Japanese and Hawaiian (where known) common names, as well as a space for fishers to write in the local name they use.

pêchées en Polynésie depuis des dizaines d'années, mais c'est seulement dans les années 70 qu'elles ont commencé à être exploitées à l'échelle de la région tout entière. Ces ressources sont considérées comme fragiles étant donné la zone et la profondeur limitées qu'elles occupent, et peu d'informations sont disponibles sur leur biologie. Par ailleurs, les données de prises et d'effort portant sur les activités de pêche menées dans le passé sont rares et incomplètes, car elles ne couvrent que les espèces ciblées.

Le présent manuel vise avant tout à améliorer la quantité et la qualité des données de prises et d'effort fournies par les pêcheurs de vivaneaux d'eaux profondes de la région océanienne lorsque ceux-ci les consignent sur leur fiche de pêche (et à encourager ceux qui ne remplissent pas leur fiche à le faire). Il permettra aux pêcheurs d'identifier plus précisément les poissons qu'ils capturent et d'enregistrer les prises d'espèces dont ils ne tenaient pas compte auparavant parce qu'ils ne les connaissaient pas ou les considéraient comme accessoires ou hors catégorie.

Ce manuel est composé de huit chapitres séparés par des onglets pour faciliter la consultation. Chaque chapitre commence par une liste des espèces qui y sont décrites, accompagnées de leur nom scientifique et de leurs noms communs en français et en anglais, tels qu'ils ont été avalisés par la FAO — quand il n'existe aucun nom de la FAO pour une espèce, les auteurs ont retenu le nom commun le plus souvent utilisé dans la région océanienne — ainsi que les codes FAO normalisés que les pêcheurs pourront utiliser lorsqu'ils rempliront leurs fiches de pêche. Afin de faciliter leur identification, les espèces difficiles à différencier au sein de chaque groupe sont présentées sur des pages opposées ou successives.

Chaque page inclut une illustration principale, en couleur, de l'espèce concernée et une seconde illustration identique, mais de plus petite taille, accompagnée de légendes en anglais et en français. Le nom scientifique, l'échelle de profondeurs et le code FAO de chaque espèce sont indiqués en haut de la page. Les valeurs de profondeur ont été compilées à partir de nombreuses sources, dont FishBase* et des données collectées lors

The authors have tried to include most of the lesser-known species that may be encountered but are generally considered not important or are even discarded. It is important that these species are identified and recorded by fishers. The manual also includes many species that marine biologists would not classify as 'deep-bottom species' — species that live at depths where daylight does not penetrate — but that deep-bottom snapper fishers are likely to catch when drifting in shallower waters along outer reefs or seamount slopes.

The manual ends with an index allowing searches by scientific or common name in English and French.

Ensuring a healthy and sustainable fishery is not solely the responsibility of fisheries managers; it requires the active collaboration of all stakeholders, including government bodies, fisheries managers, fishers, fish dealers, and even consumers. The fisher's role is crucial as it is at the beginning of the long chain of actions that will decide if management is successful or a failure. Completing catch and effort logsheets accurately, including the recording of all marine species caught or interacted with, is one of the actions that fishers can take. By doing this, they provide one of the key elements needed to achieve the long-term sustainability of their fishery.

* Froese, R. and D. Pauly. Editors. 2008. FishBase. World Wide Web electronic publication. www.fishbase.org, version 04/2008.

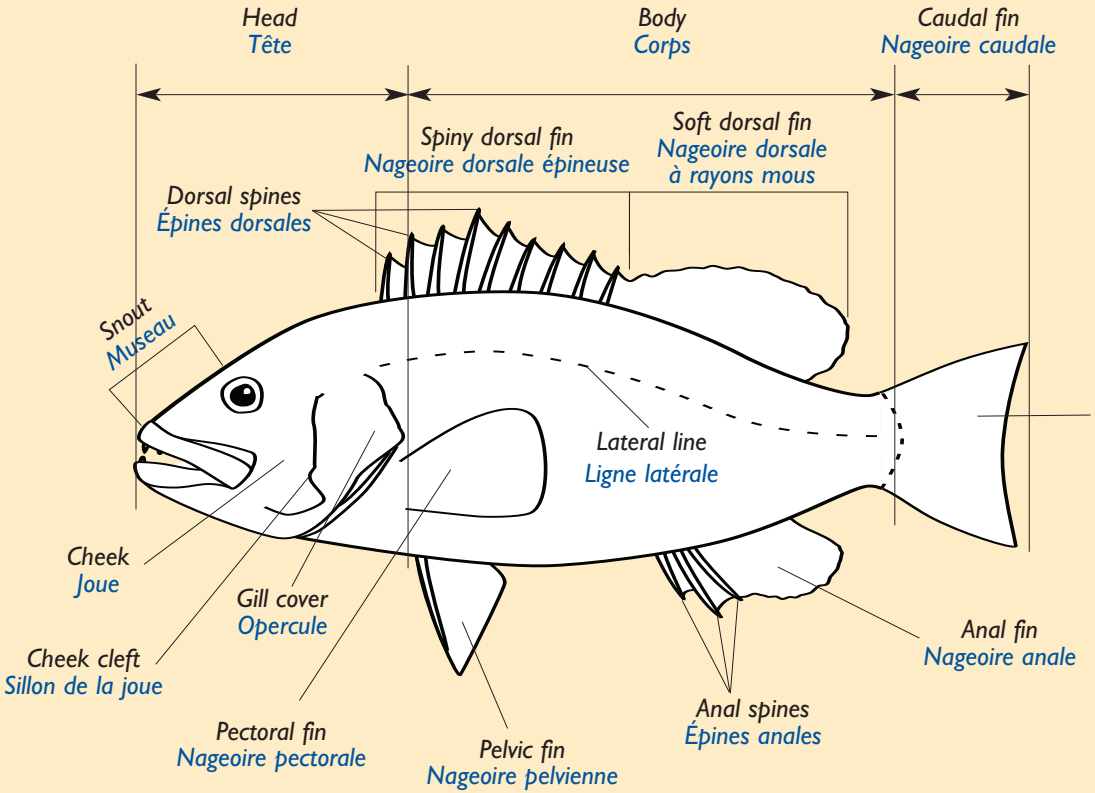
d'opérations de pêche menées dans la région des îles du Pacifique. Ces valeurs peuvent varier considérablement d'un pays à l'autre. Un cartouche, situé dans le coin inférieur gauche, contient les noms anglais, français, japonais et hawaïen (s'ils sont connus), ainsi qu'un espace où les pêcheurs pourront inscrire le nom local de chaque espèce.

Les auteurs se sont efforcés d'inclure la plupart des espèces les moins connues susceptibles d'être capturées, mais qui sont généralement considérées comme secondaires et même rejetées. Il est important que ces espèces soient identifiées et consignées par les pêcheurs. Le manuel inclut également de nombreuses espèces que les chercheurs en biologie marine ne classeraient par parmi les espèces de profondeur — c'est-à-dire vivant à des profondeurs où la lumière du jour ne pénètre jamais — mais que les pêcheurs de vivaneaux ont toutes les chances de capturer lorsque leurs lignes dérivent dans les eaux moins profondes le long de la pente externe du récif et sur les flancs des monts sous-marins.

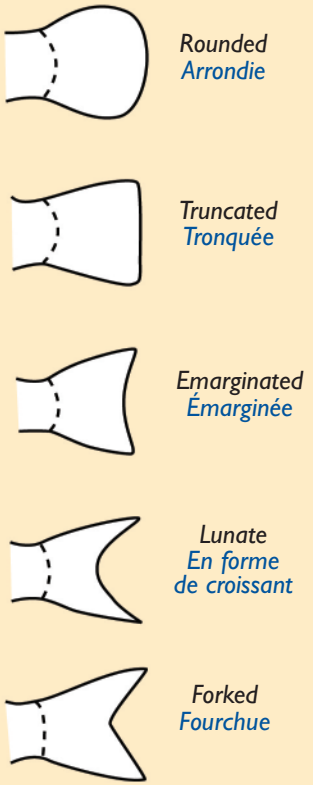
À la fin du manuel se trouve un index qui permet d'effectuer des recherches à partir du nom scientifique, ou du nom commun en anglais ou en français.

La responsabilité de la gestion saine et durable des ressources marines n'incombe pas aux seuls gestionnaires de la pêche. Elle exige la collaboration active de toutes les parties prenantes, y compris le secteur public, les directeurs des services des pêches, les pêcheurs, les commerçants et même les consommateurs. Le rôle du pêcheur est crucial, car il se trouve au début de la longue chaîne d'actions qui déterminera si le mode de gestion est concluant ou pas. Remplir les fiches de pêche correctement, en signalant toutes les espèces capturées ou touchées directement par des activités halieutiques, est une des actions que les pêcheurs peuvent entreprendre. Ce faisant, ils participent à l'un des aspects fondamentaux des efforts engagés pour assurer la pérennité de leur activité.

* Froese, R. and D. Pauly. Editors. 2008. FishBase. World Wide Web electronic publication. www.fishbase.org, version 04/2008.



Different caudal fin types
Différents types de nageoire caudale



Lutjanidae - Etelinae & Apsilinae

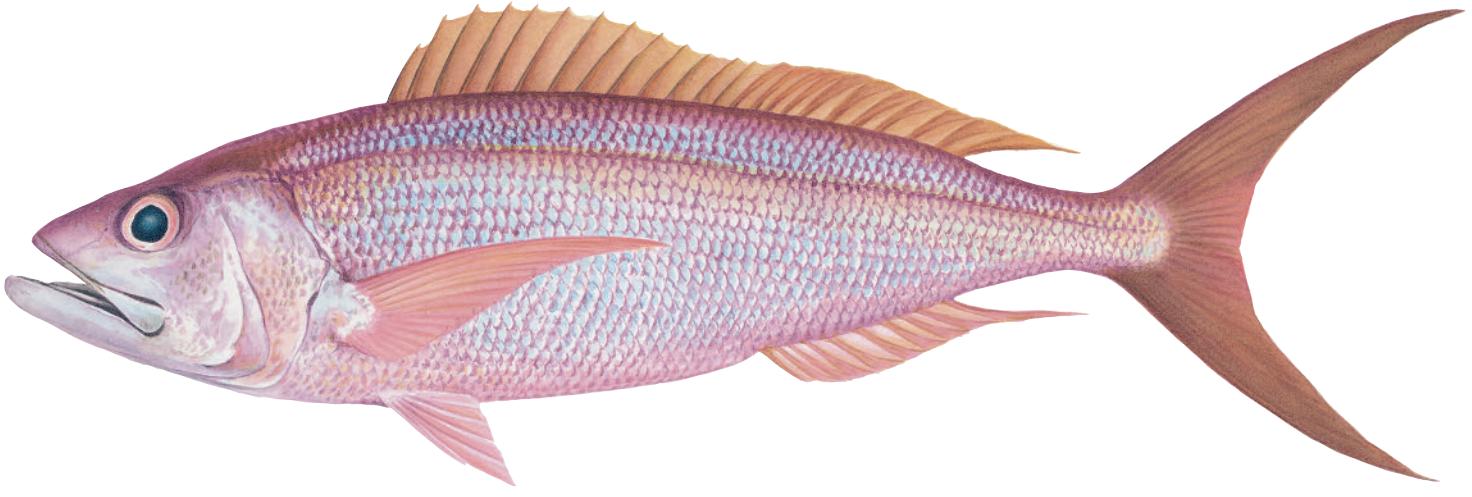
Deep-bottom snappers / Vivaneaux profonds

Scientific	FAO code	English	French	Page
Aphareus rutilans	ARQ	Rusty jobfish	Vivaneau rouillé	2
Aprion virescens	AVR	Green jobfish	Vivaneau job	3
Etelis carbunculus	ETA	Ruby snapper, Deepwater red snapper	Vivaneau rubis	4
Randallichthys filamentosus	RAI	Randall's snapper	Vivaneau de Randall	5
Etelis radiosus	EEW	Scarlet snapper, pale snapper	Vivaneau écarlate, Vivaneau pâle	6
Etelis coruscans	ETC	Flame snapper, Deepwater longtail red snapper	Vivaneau la flamme	7
Pristipomoides filamentosus	PFM	Crimson jobfish	Colas fil	8
Pristipomoides sieboldii	LRB	Lavender jobfish	Colas lavande	9
Pristipomoides flavipinnis	LWF	Golden eye jobfish	Colas œil doré	10
Pristipomoides multidens	LRI	Goldbanded jobfish	Colas à bandes dorées	11
Parapristipomoides squamimaxillaris	PQM	Scalemouth jobfish	Colas écailleux	12
Pristipomoides typus	LRU	Sharptooth jobfish	Colas dentu	13
Pristipomoides argyrogrammicus	LRY	Ornate jobfish	Colas orné	14
Pristipomoides auricilla	LWA	Goldflag jobfish	Colas drapeau	15
Pristipomoides zonatus	LWZ	Oblique-banded snapper	Colas bagnard	16
Lipocheilus carnolabrum	LIR	Tang's snapper	Vivaneau verrue	17
Paracaesio kusakarii	LRK	Saddle-back snapper	Vivanette sellée	18
Paracaesio stonei	LWR	Cocoa snapper	Vivanette cacao	19
Paracaesio xanthura	LRX	Yellowtail blue snapper	Vivanette queue jaune	20
Paracaesio gonzalesi	LRG	Vanuatu snapper	Vivanette Vanuatu	21

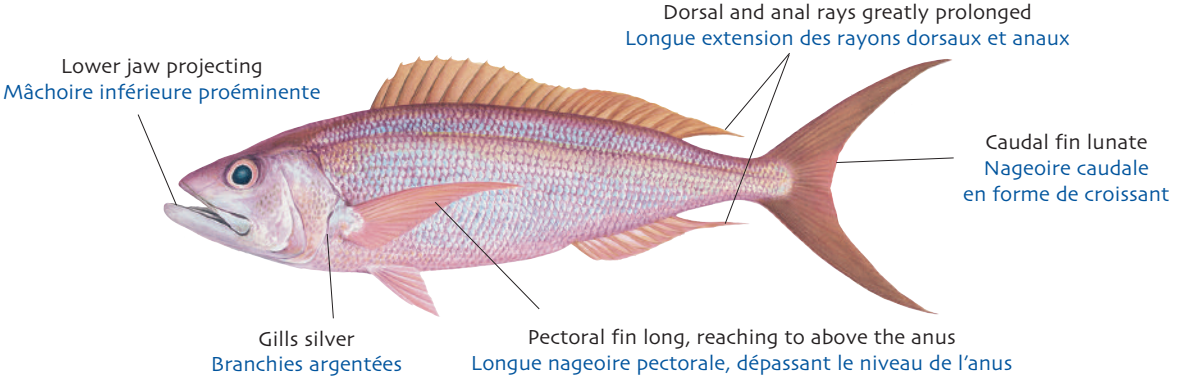
Aphareus rutilans

ARQ

40–330 m



English: Rusty jobfish
French: Vivaneau rouillé
Japanese: Oguchi-ishichibiki
Hawaiian: Lehi
Local:

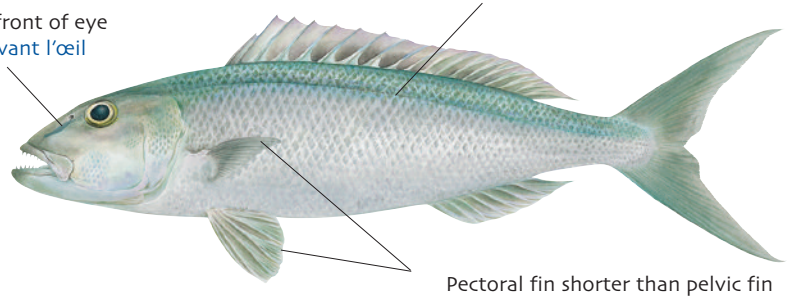


Aprion virescens

AVR

1–180 m

English: Green jobfish
French: Vivaneau job
Japanese: Aochibiki
Hawaiian: Uku, Uku palu, Grey snapper
Local:



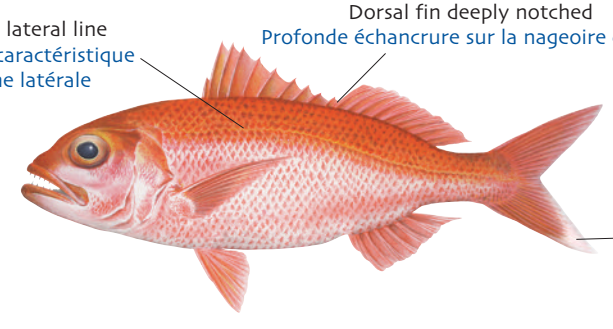
Etelis carbunculus

ETA

80–400 m

Juvenile
Juvénile

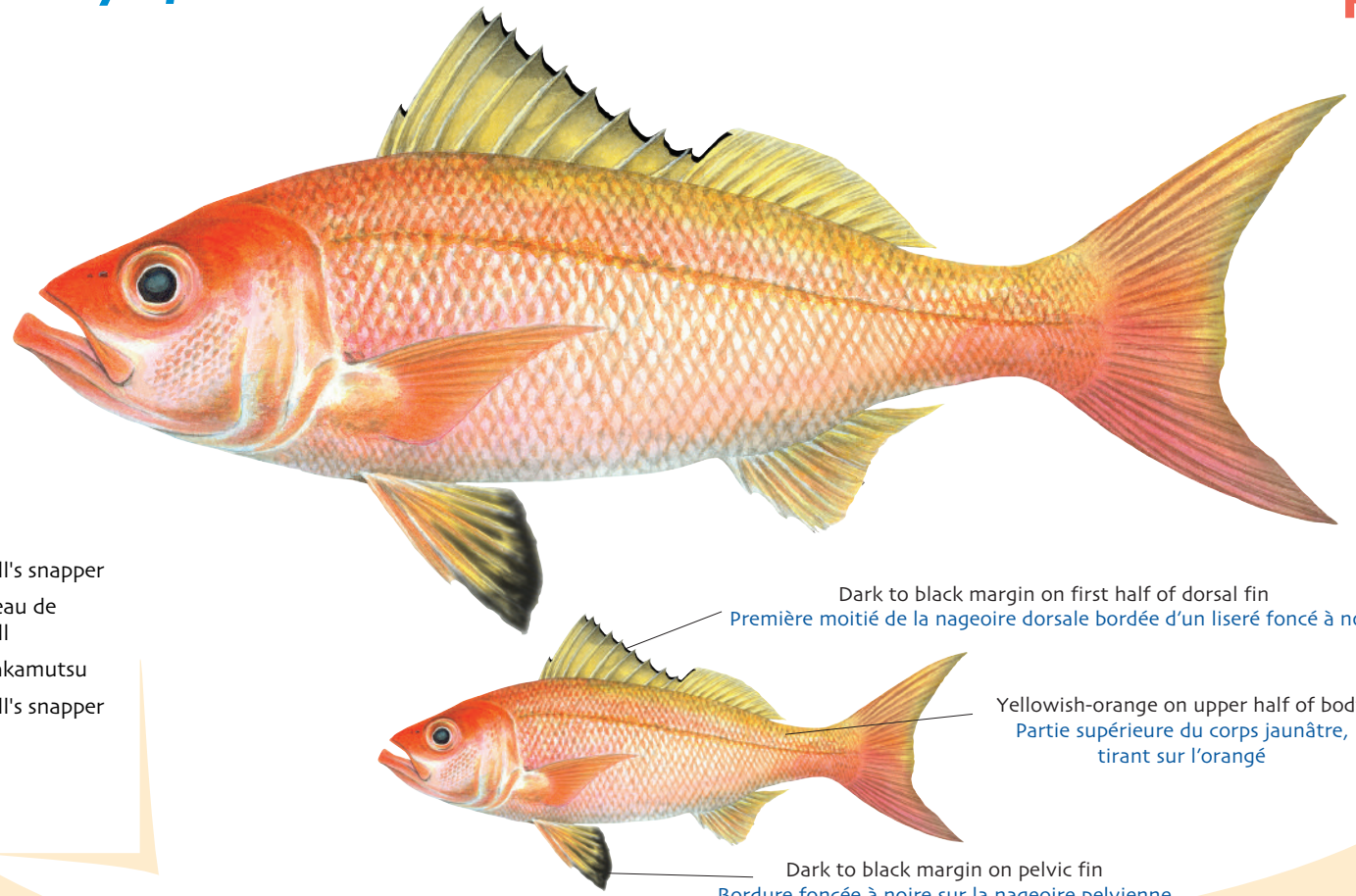
English: Ruby snapper, Deepwater red snapper
French: Vivaneau rubis
Japanese: Hachijo-akamutsu
Hawaiian: Ehu, 'Ula'ula
Local:



Randallichthys filamentosus

RAI

150–380 m



English:	Randall's snapper
French:	Vivaneau de Randall
Japanese:	Bake-akamutsu
Hawaiian:	Randall's snapper
Local:	

Etelis radiosus

EEW

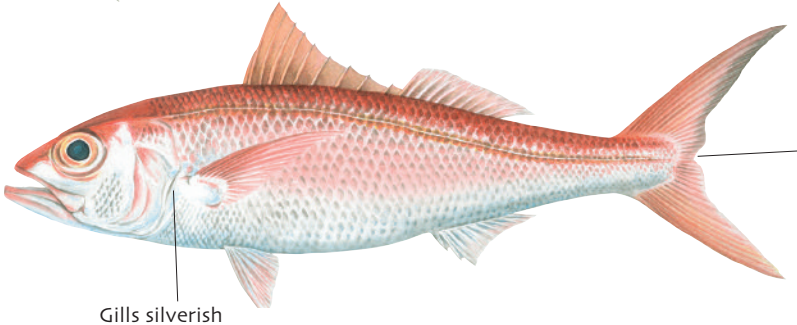
90–360 m

English: Scarlet snapper, Pale snapper

French: Vivaneau écarlate, Vivaneau pâle

Japanese: Okuchi-hamadai

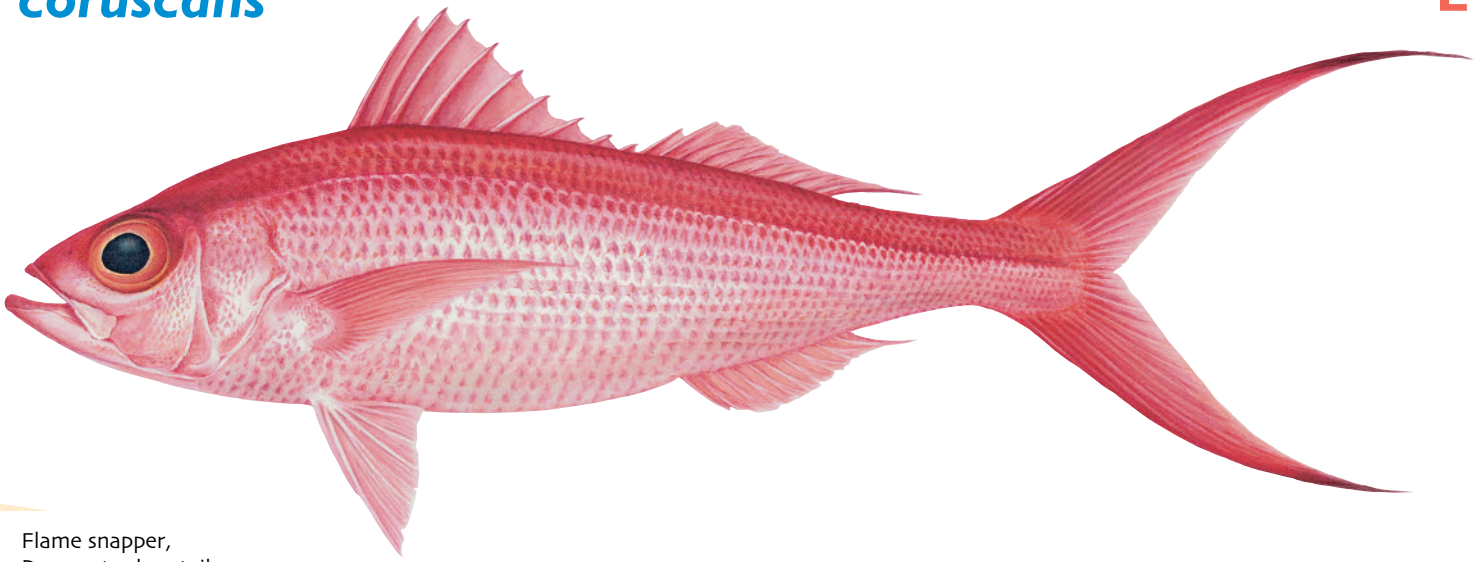
Local:



Etelis coruscans

ETC

90–400 m



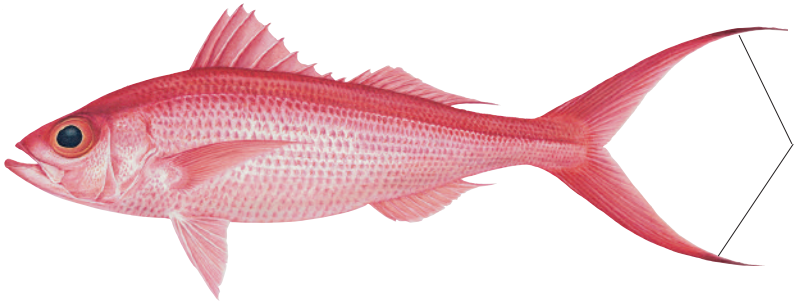
English: Flame snapper, Deepwater longtail red snapper

French: Vivaneau la flamme

Japanese: Onaga, Hamadai

Hawaiian: Onaga, 'Ula'ula koa'e

Local:



Tips of upper and lower caudal fin elongated to form filaments, often with black tips

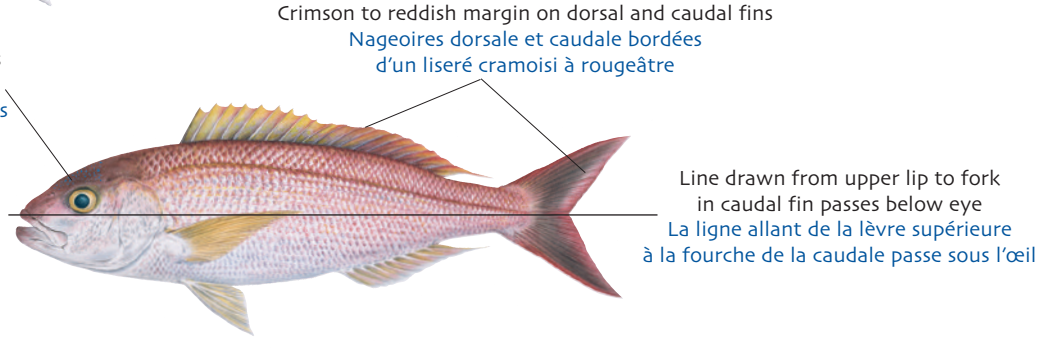
Extrémités des lobes supérieurs et inférieurs de la nageoire caudale allongées et filiformes, souvent noires

Pristipomoides filamentosus

PFM

40–400 m

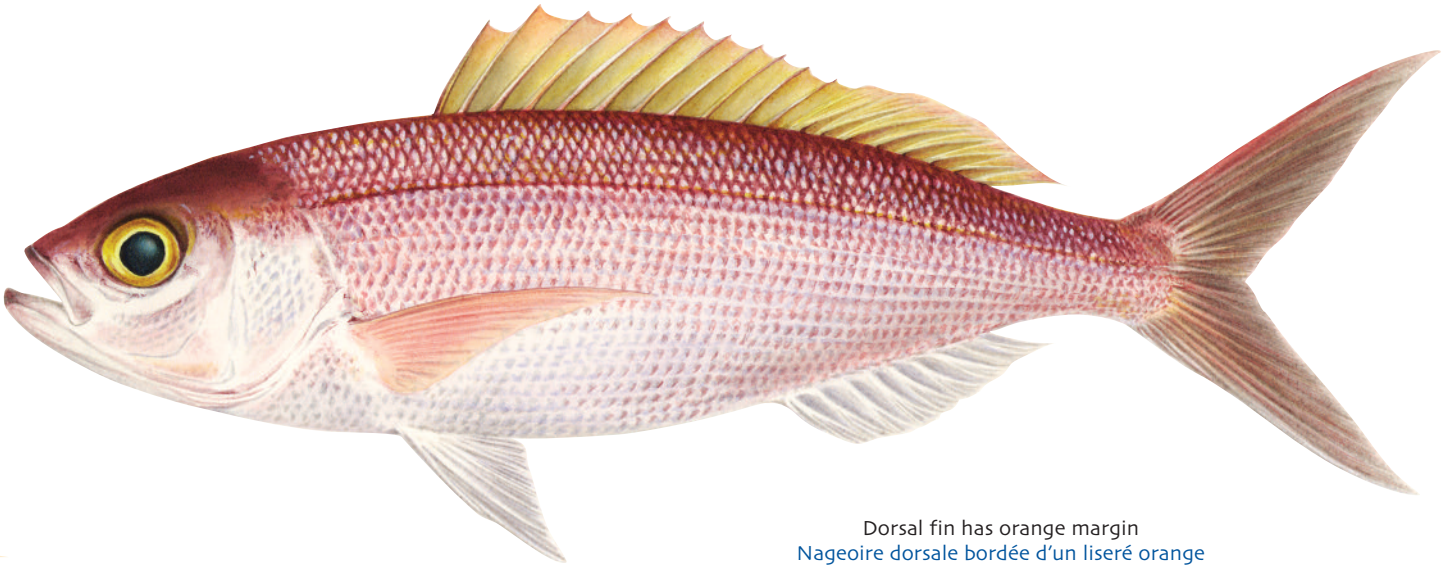
English:	Crimson jobfish
French:	Colas fil
Japanese:	Ohime, Ohimedai
Hawaiian:	Opakapaka, Paka, Pink snapper
Local:	



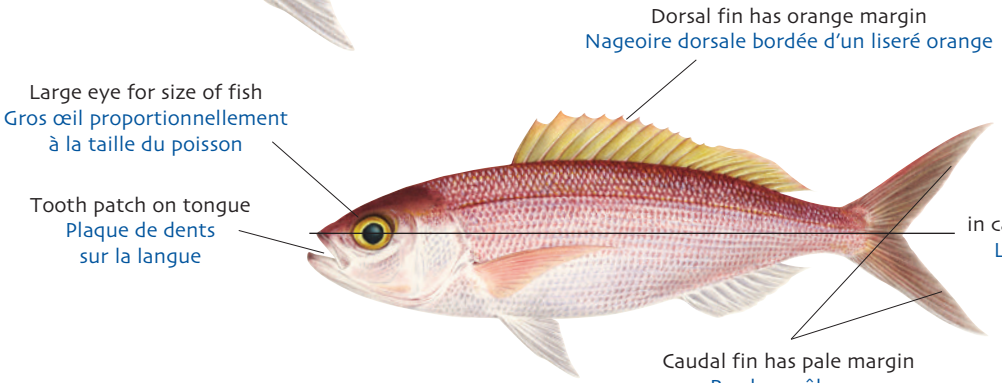
Pristipomoides sieboldii

LRB

100–360 m



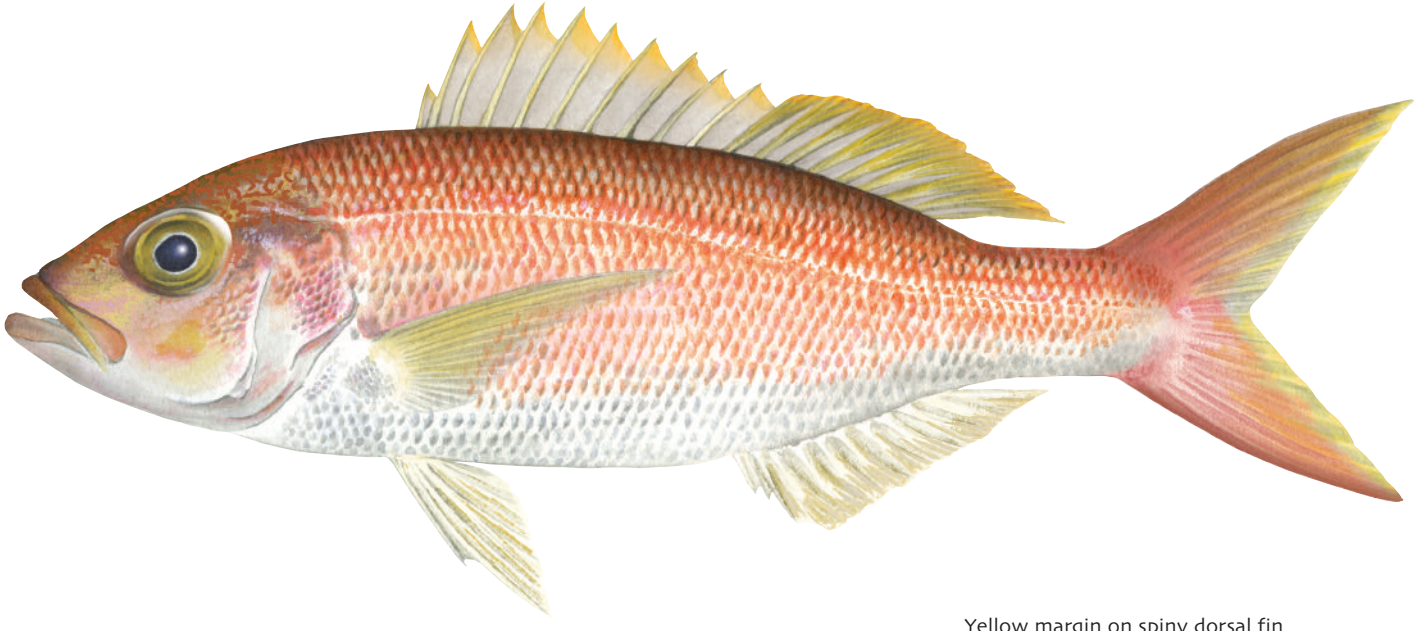
English: Lavender jobfish
French: Colas lavande
Japanese: Himedai
Hawaiian: Kalekale
Local:



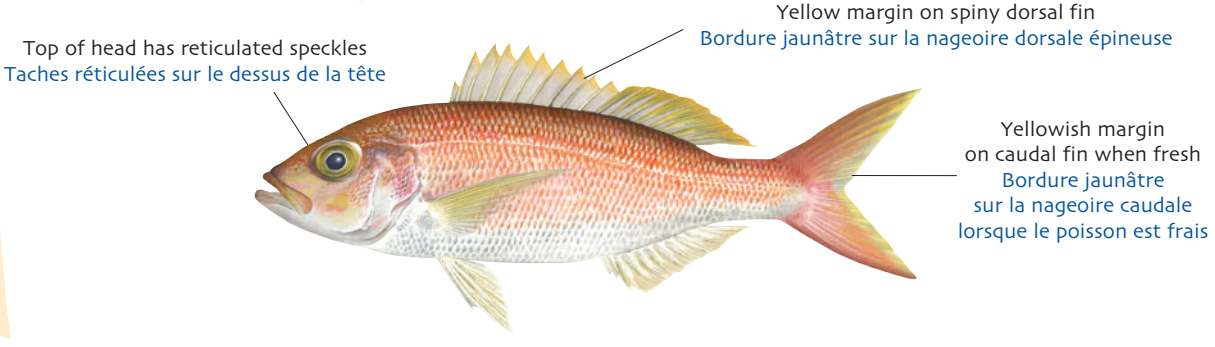
Pristipomoides flavipinnis

LWF

60–360 m



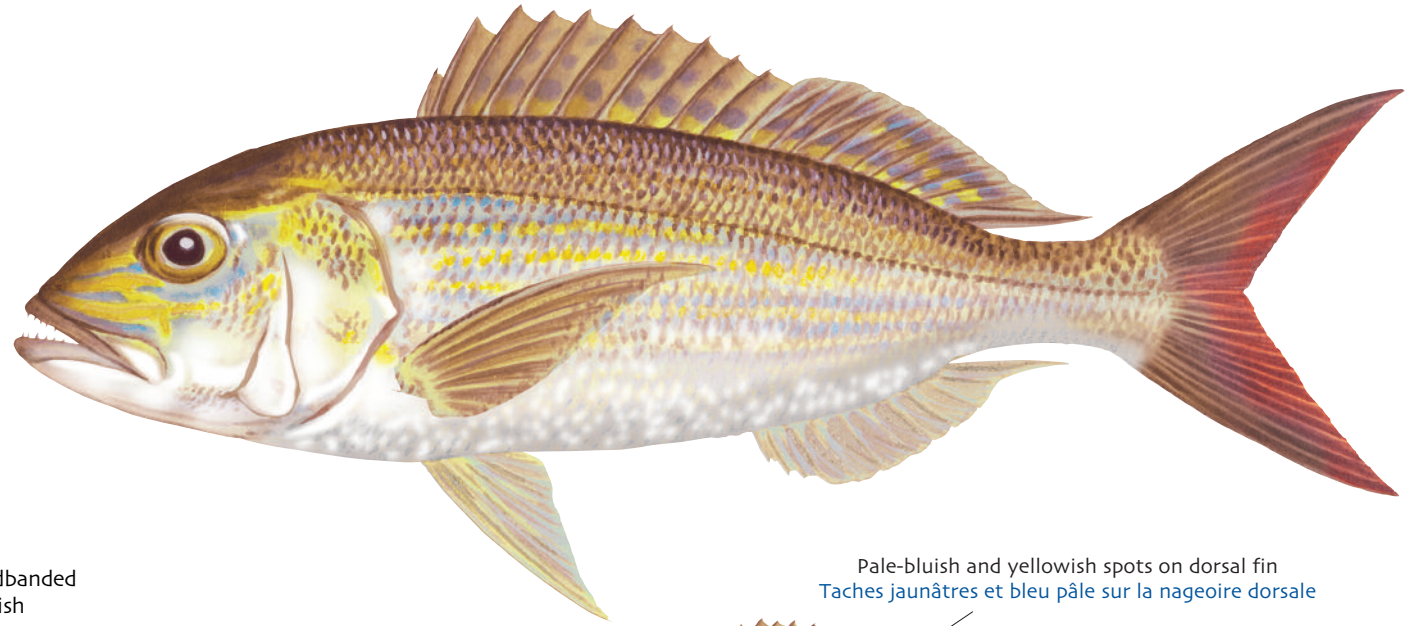
English: Golden eye jobfish
French: Colas œil doré
Japanese: Kinme-himedai
Local:



Pristipomoides multidens

LRI

40–320 m



English: Goldbanded jobfish

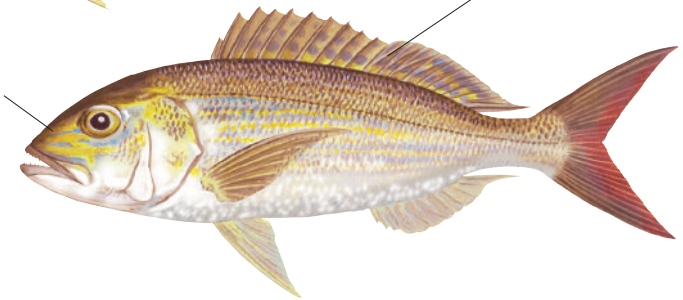
French: Colas à bandes dorées

Japanese: Nagasakifuedai

Local:

Gold bands edged in blue on snout and cheeks below eye
Bandes dorées bordées de bleu sur le museau et sur les joues, au-dessous de l'œil

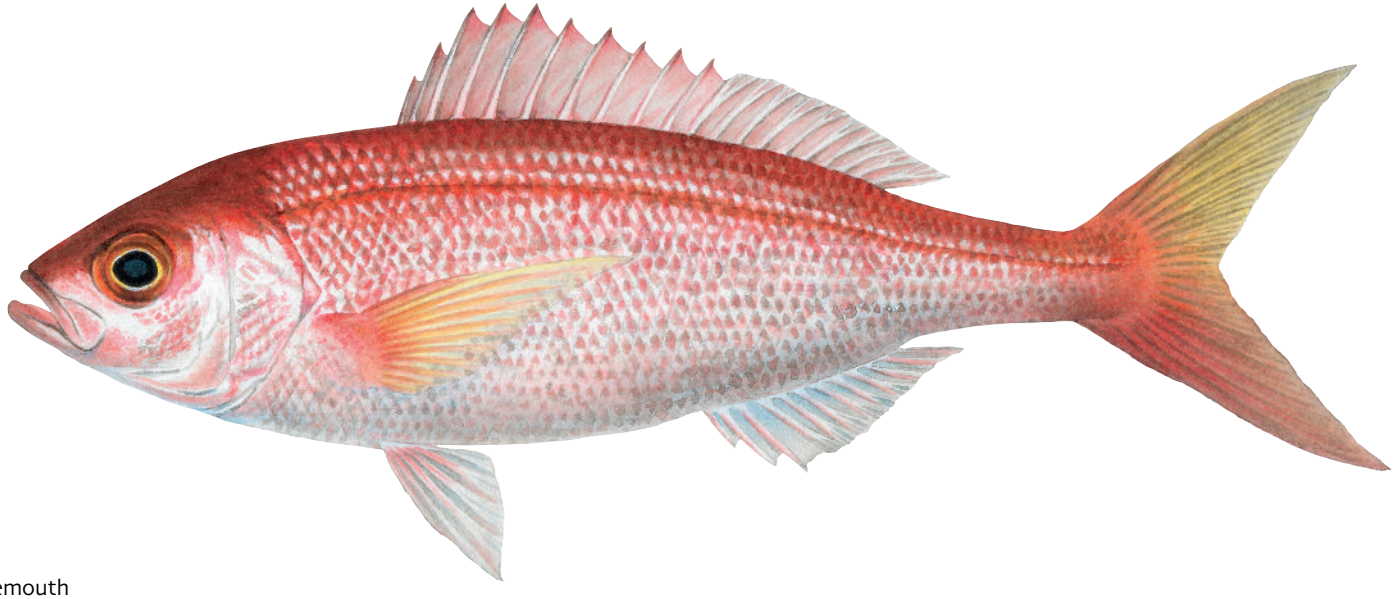
Pale-bluish and yellowish spots on dorsal fin
Taches jaunâtres et bleu pâle sur la nageoire dorsale



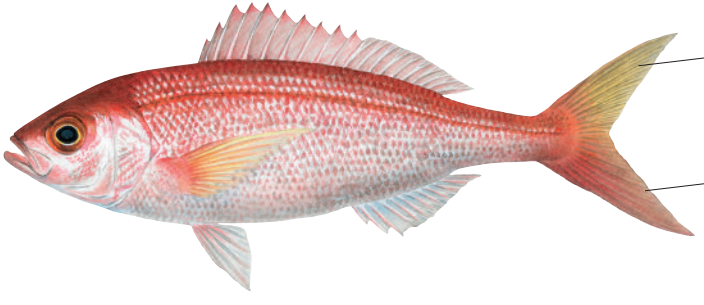
Parapristipomoides squamimaxillaris

PQM

130–460 m



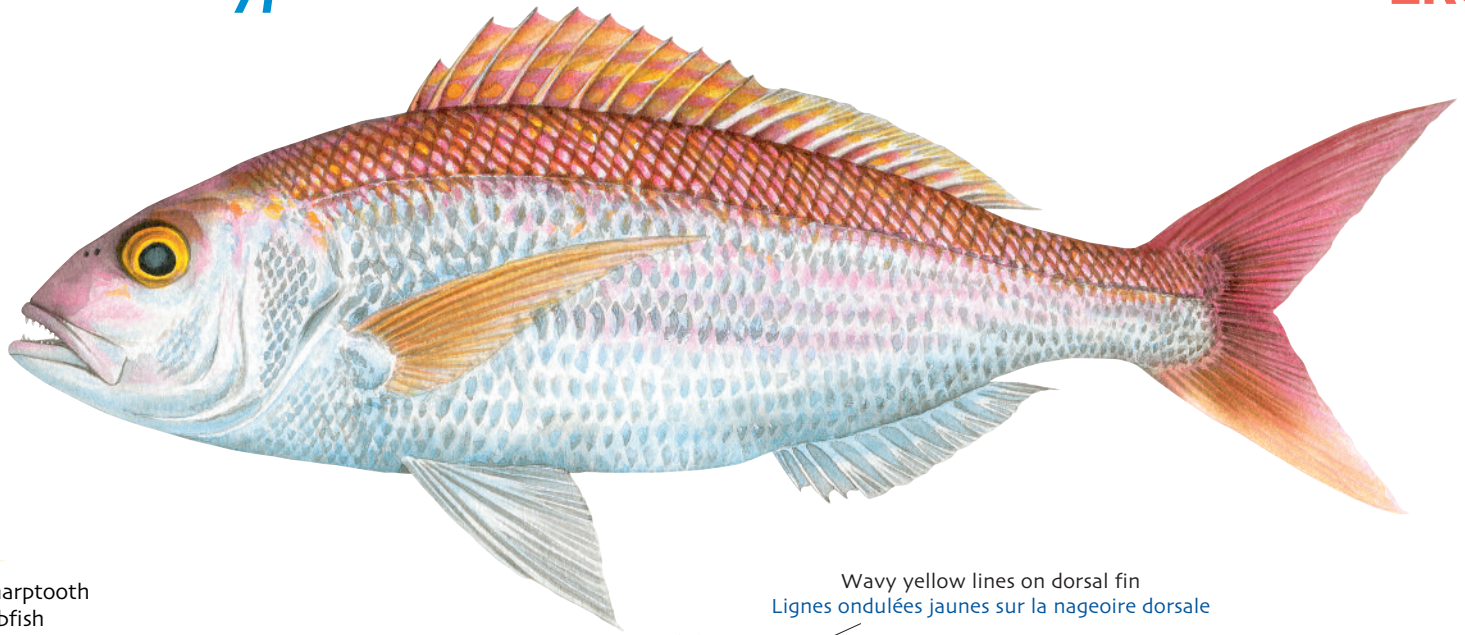
English: Scalemouth jobfish
French: Colas écailleux
Japanese: Nisehime-dai
Local:



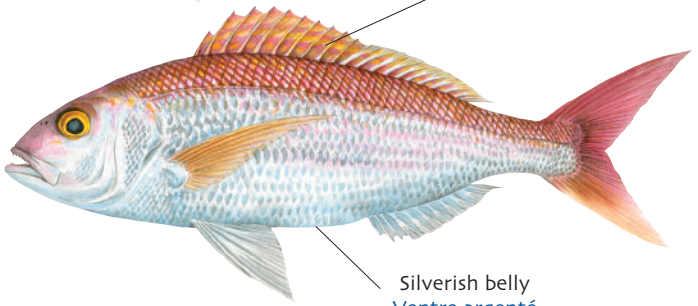
Pristipomoides typus

LRU

40–120 m



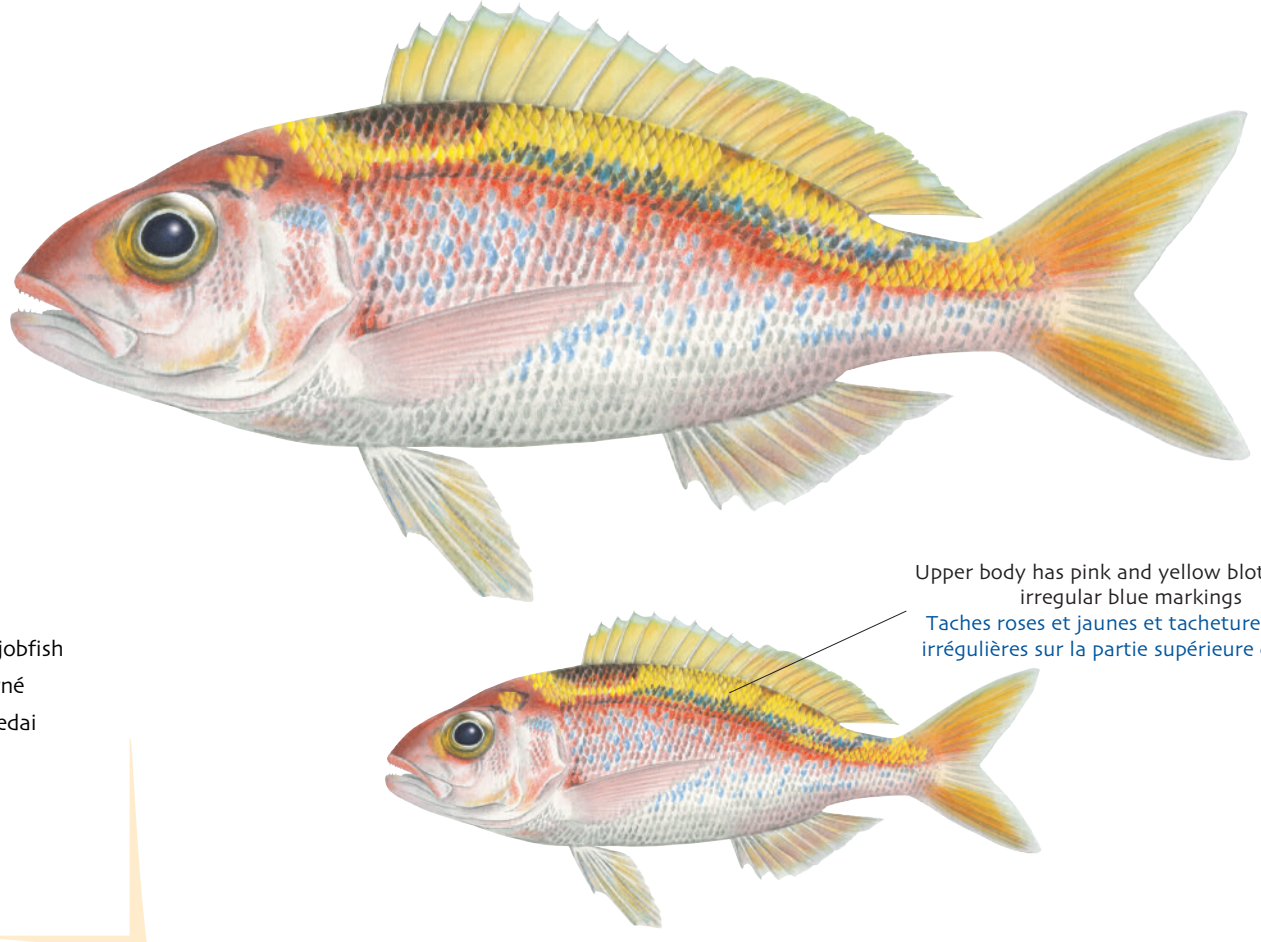
English: Sharptooth jobfish
French: Colas dentu
Japanese: Bara-himedai
Local:



Pristipomoides argyrogrammicus

LRY

70–300 m

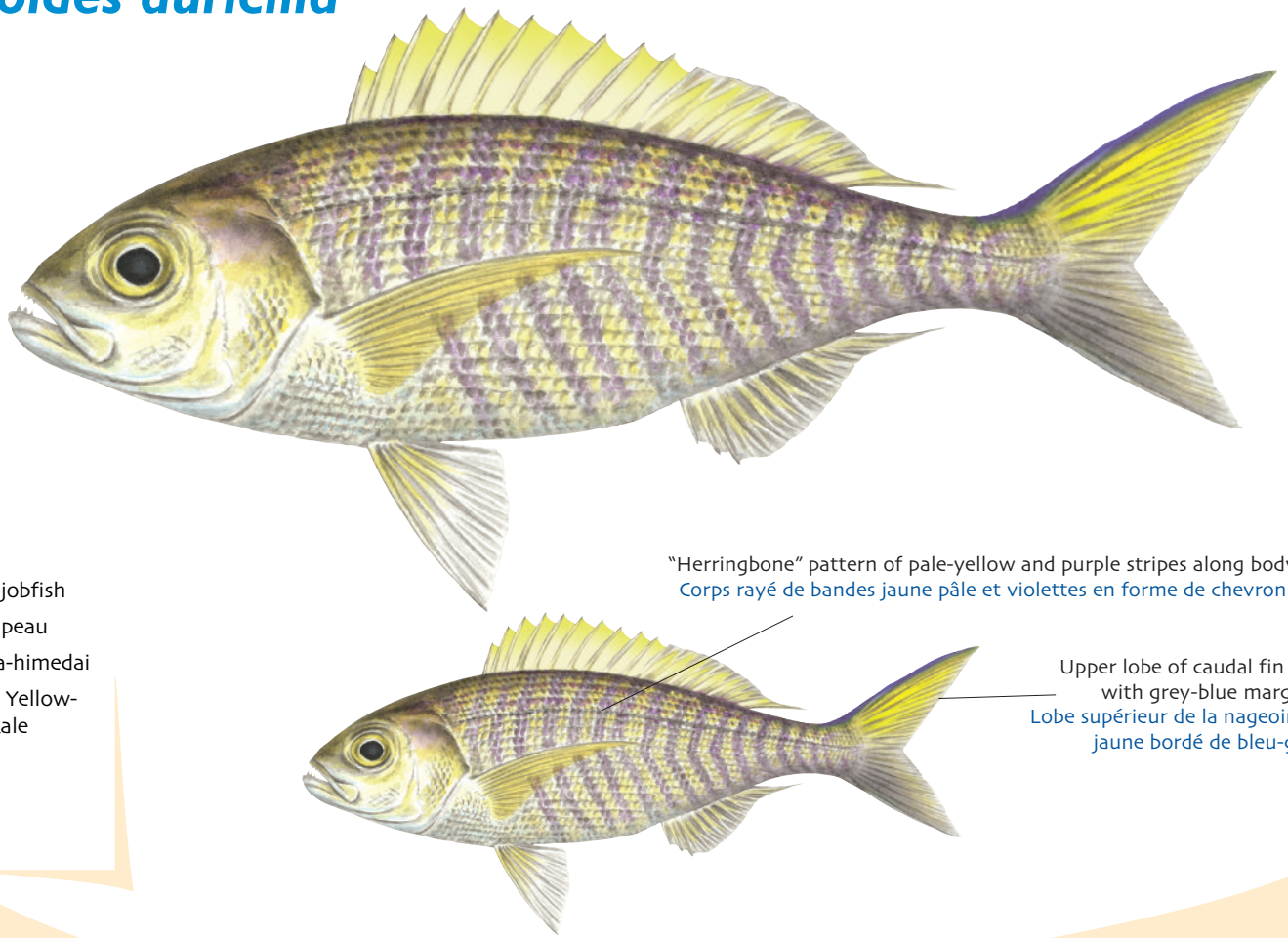


English: Ornate jobfish
French: Colas orné
Japanese: Hanafuedai
Local:

Pristipomoides auricilla

80–360 m

LWA

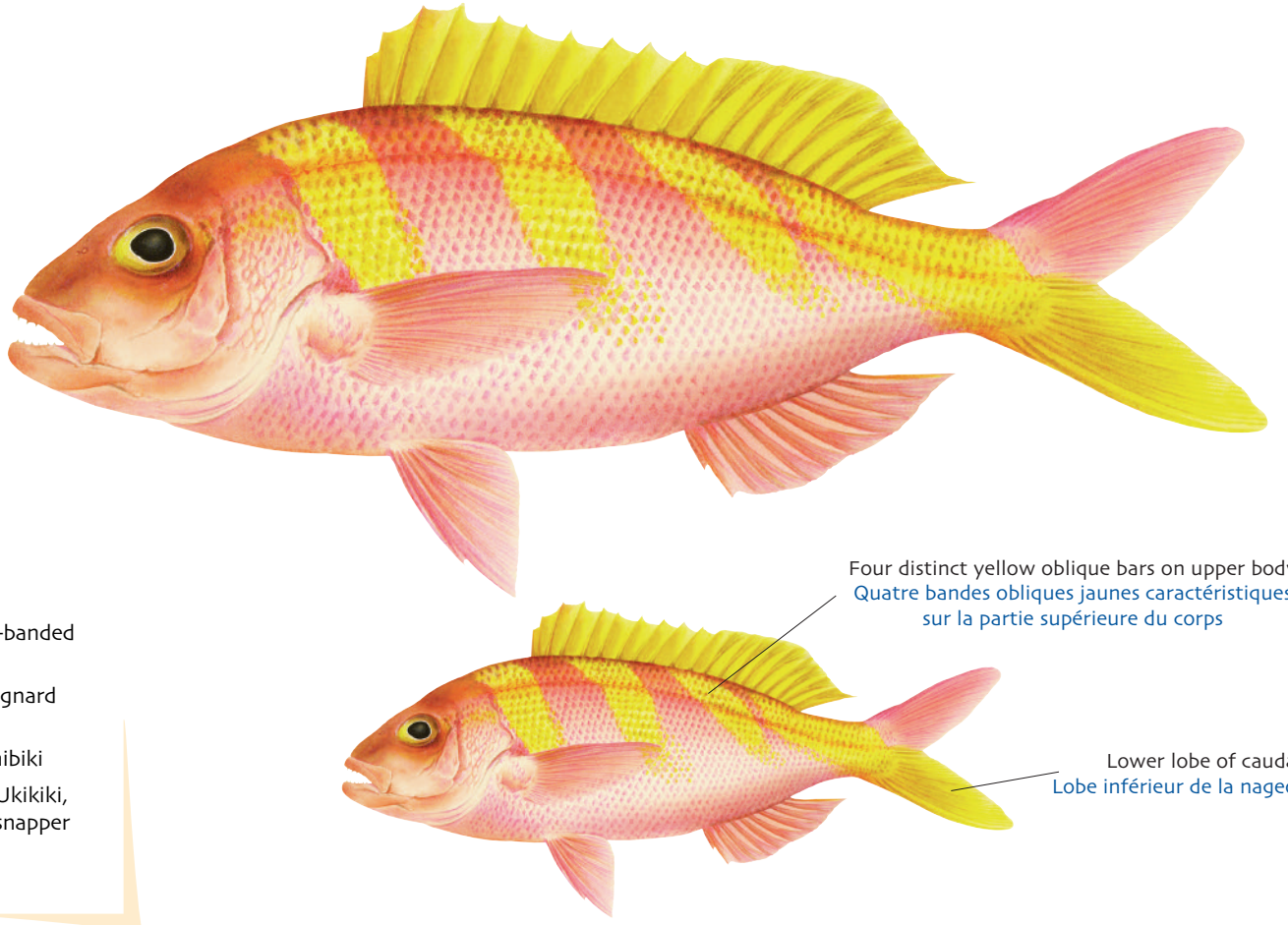


English: Goldflag jobfish
French: Colas drapeau
Japanese: Kimadara-himedai
Hawaiian: Kalekale, Yellow-tail kalekale
Local:

Pristipomoides zonatus

LWZ

70–300 m



English: Oblique-banded snapper

French: Colas bagnard

Japanese: Gendai, Shimachibiki

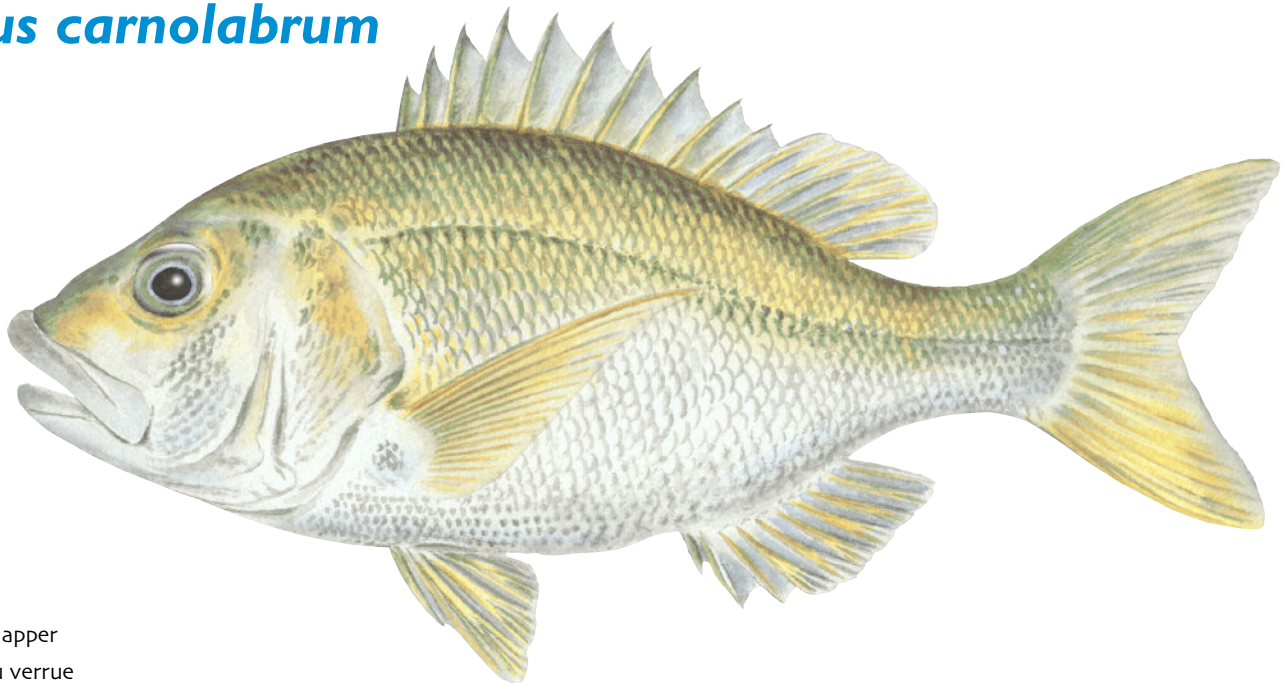
Hawaiian: Gindai, Ukikiki, Flower snapper

Local:

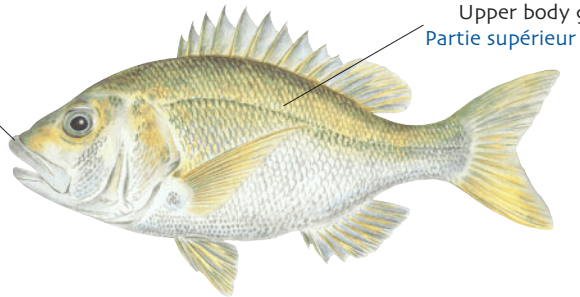
Lipocheilus carnolabrum

LIR

90–340 m



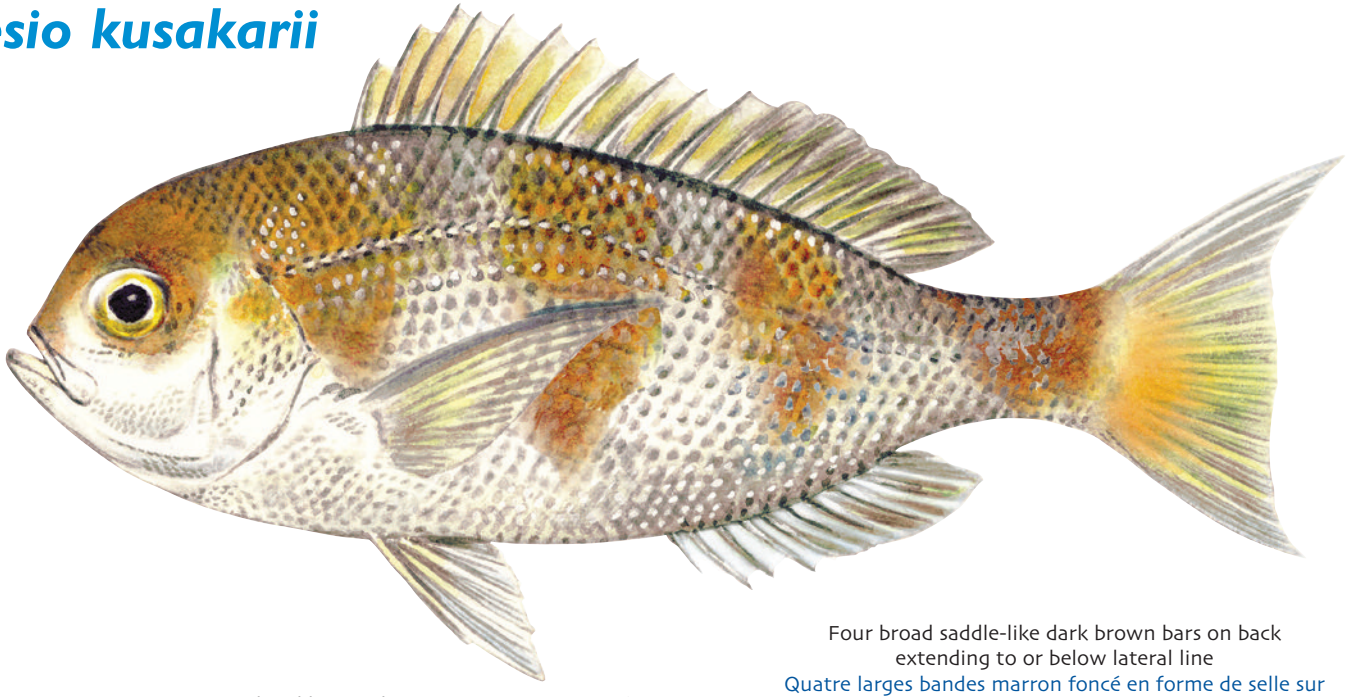
English: Tang's snapper
French: Vivaneau verrue
Japanese: Kibire-fuedai
Local:



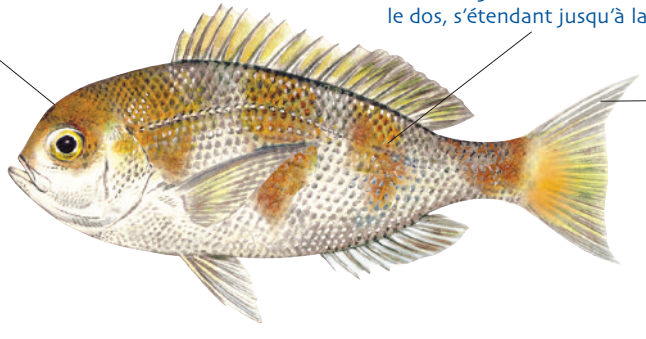
Paracaesio kusakarii

LRK

60–310 m



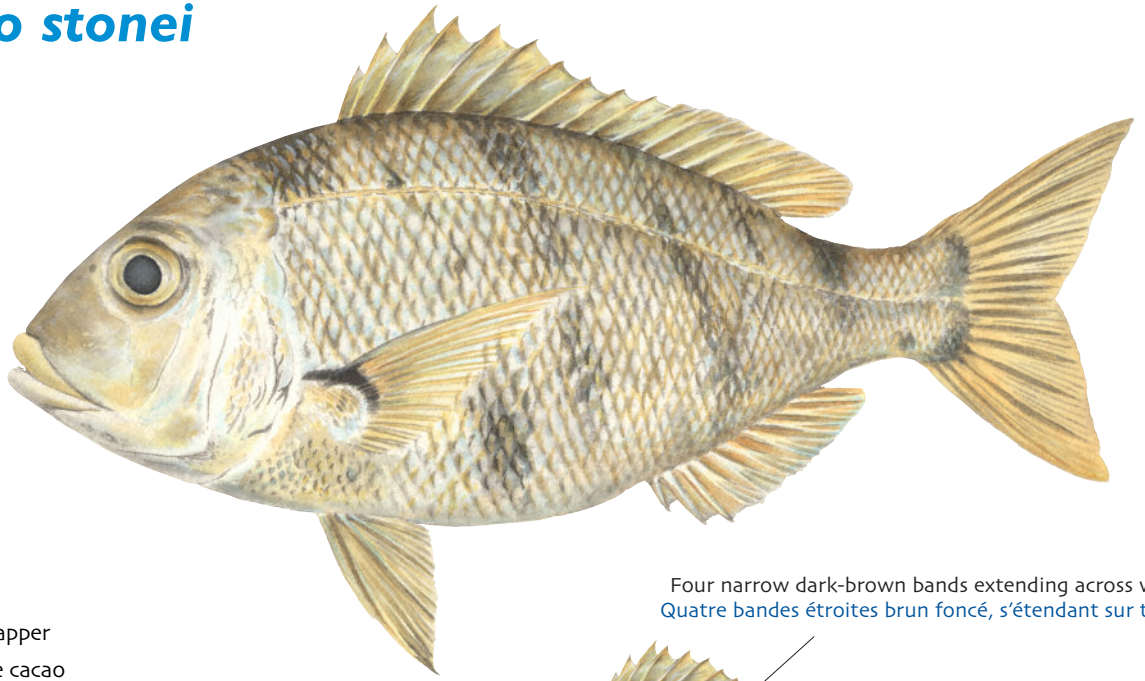
English: Saddle-back snapper
French: Vivanette sellée
Japanese: Shima-aodai
Local:



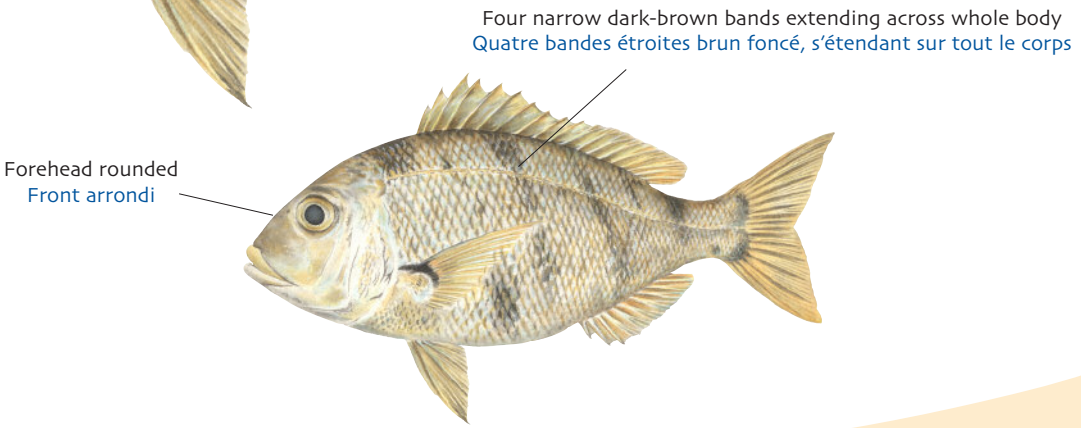
Paracaesio stonei

200–320 m

LWR



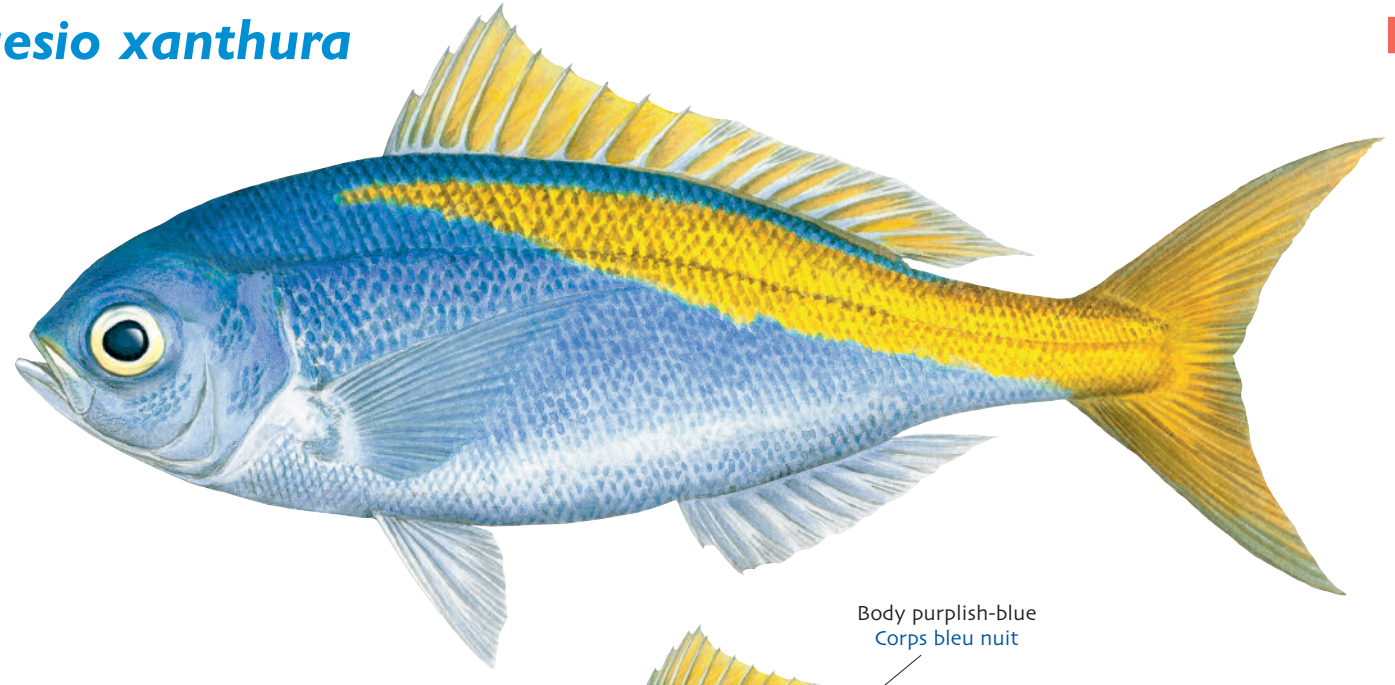
English: Cocoa snapper
French: Vivanette cacao
Japanese: Yanbaru-shima-aodai
Local:

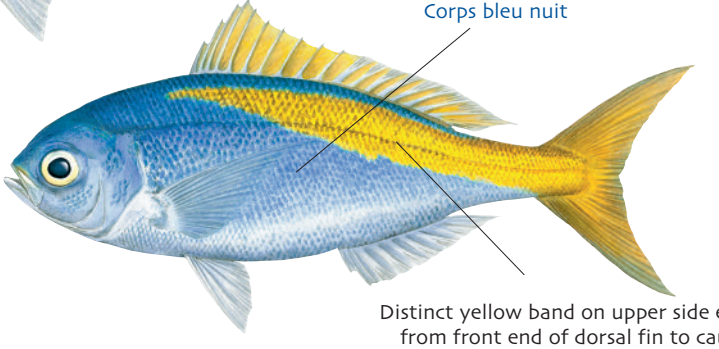


Paracaesio xanthura

LRX

5–150 m



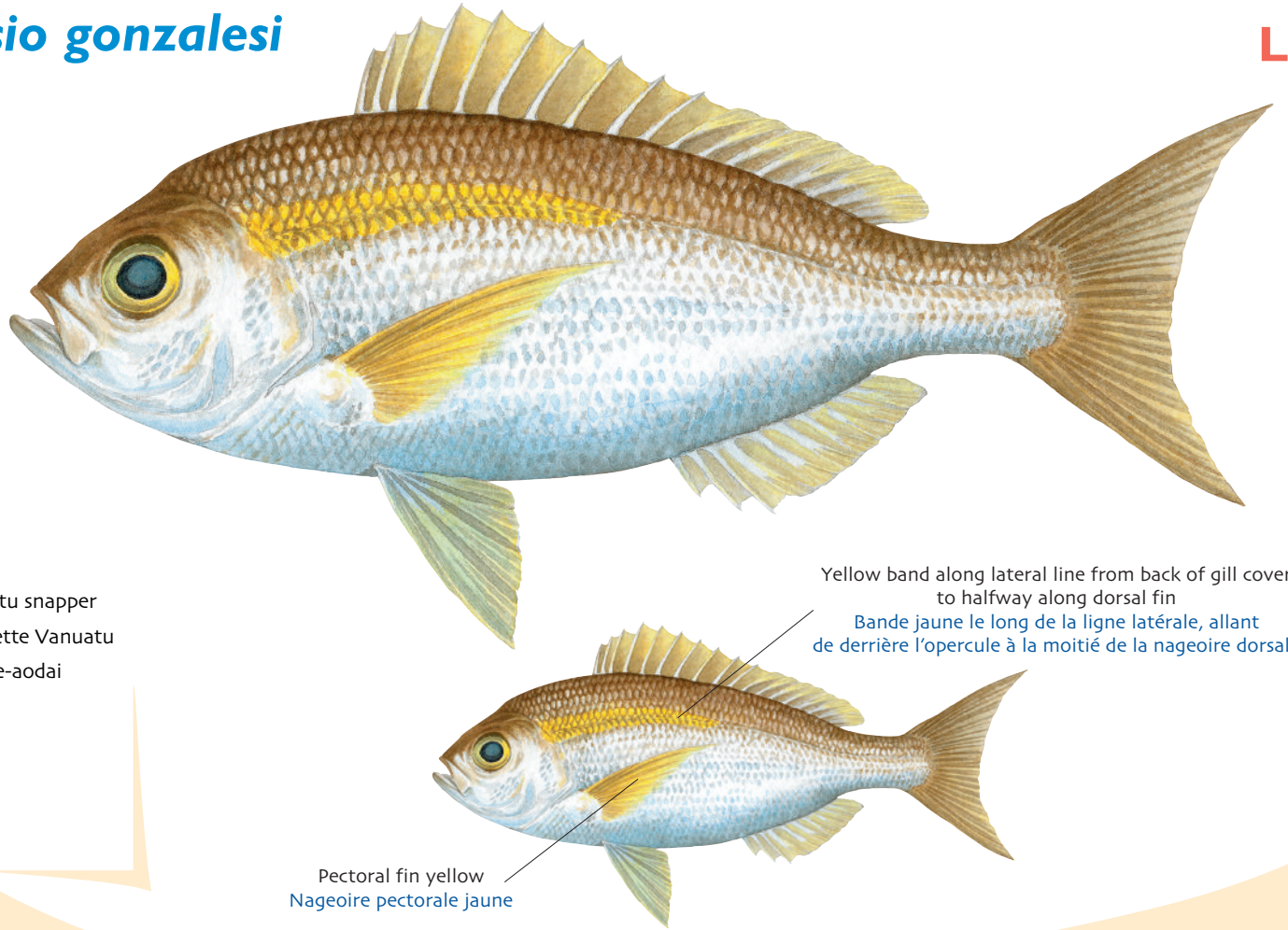


English: Yellowtail blue snapper
French: Vivanette queue jaune
Japanese: Umeiro
Local:

Paracaesio gonzalesi

140–250 m

LRG



English: Vanuatu snapper
French: Vivanette Vanuatu
Japanese: Yogore-aodai
Local:

Lutjanidae – Lutjaninae

Shallow snappers / Vivaneaux peu profonds

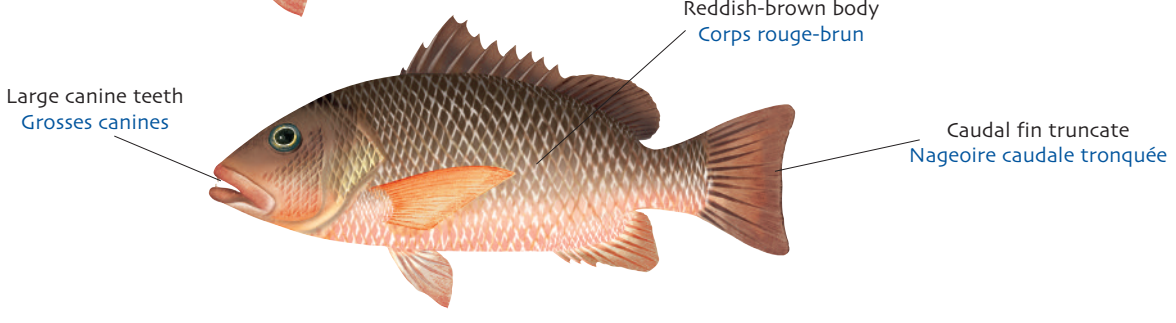
Scientific	FAO code	English	French	Page
Lutjanus argentimaculatus	RES	Mangrove red snapper	Vivaneau des mangroves	24
Lutjanus bohar	LJB	Two-spot red snapper	Vivaneau chien rouge, Anglais	25
Lutjanus timorensis	LWT	Timor snapper	Vivaneau de Timor	26
Lutjanus malabaricus	MAL	Malabar blood snapper	Vivaneau malabar	27
Lutjanus erythropterus	LJT	Crimson snapper	Vivaneau cramoisi	28
Lutjanus sebae	LUB	Emperor red snapper	Vivaneau bourgeois	29
Lutjanus adetii	LDW	Yellow-banded snapper	Vivaneau de nuit	30
Lutjanus gibbus	LJG	Humpback red snapper	Vivaneau pagaie	31
Lutjanus kasmira	LVK	Common bluestripe snapper	Vivaneau à raies bleues	32
Lutjanus rufolineatus	LUF	Yellow-lined snapper	Vivaneau à lignes jaunes	33
Lutjanus monostigma	LJK	Onespot snapper	Vivaneau eglefin	34
Lutjanus fulvus	LJV	Blacktail snapper	Vivaneau queue noire	35
Lutjanus lemniscatus	LWL	Yellowstreaked snapper	Vivaneau à raies jaunes	36
Lutjanus rivulatus	LUV	Blubberlip snapper	Vivaneau maori	37
Macolor niger	MLN	Black and white snapper	Vivaneau plate	38

Lutjanus argentimaculatus

RES

10–160 m

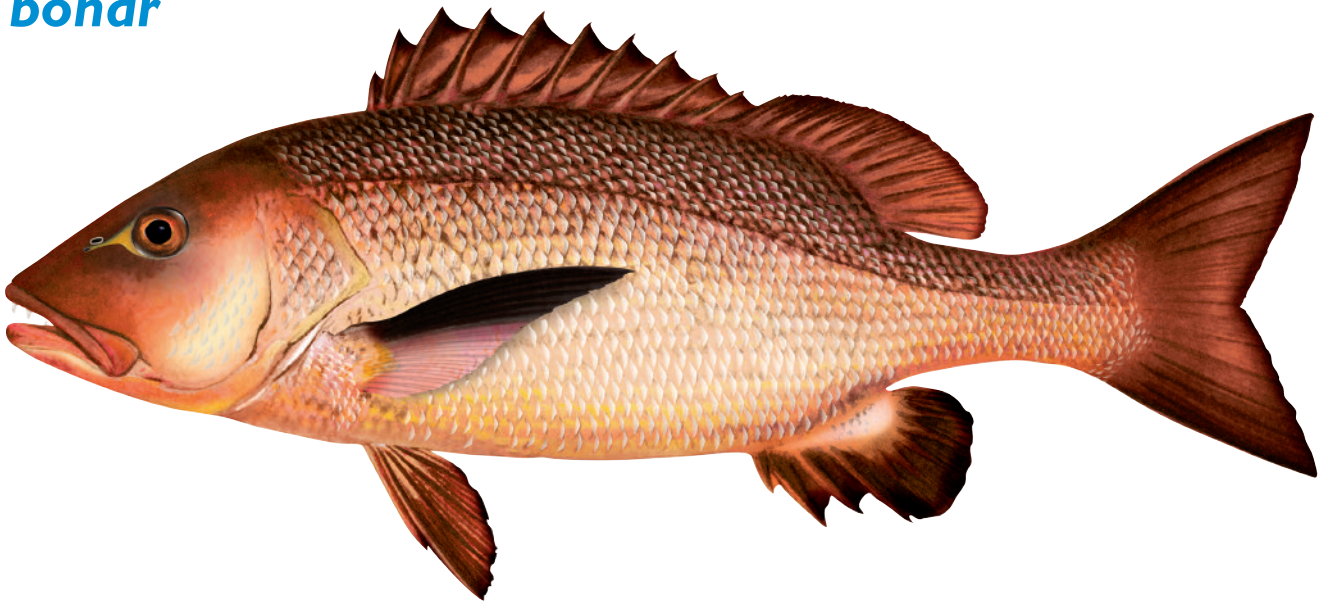
English: Mangrove red snapper
French: Vivaneau des mangroves
Japanese: Goma-fuedai
Local:



Lutjanus bohar

LJB

4–180 m



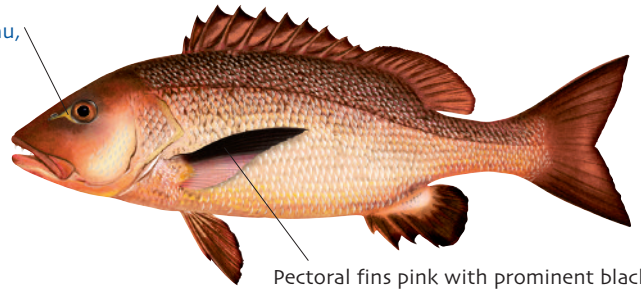
English: Two-spot red snapper

French: Vivaneau chien rouge, Anglais

Japanese: Bara-fuedai

Local:

Deep groove on snout between eye and nostril
Profond sillon sur le museau, entre l'œil et la narine

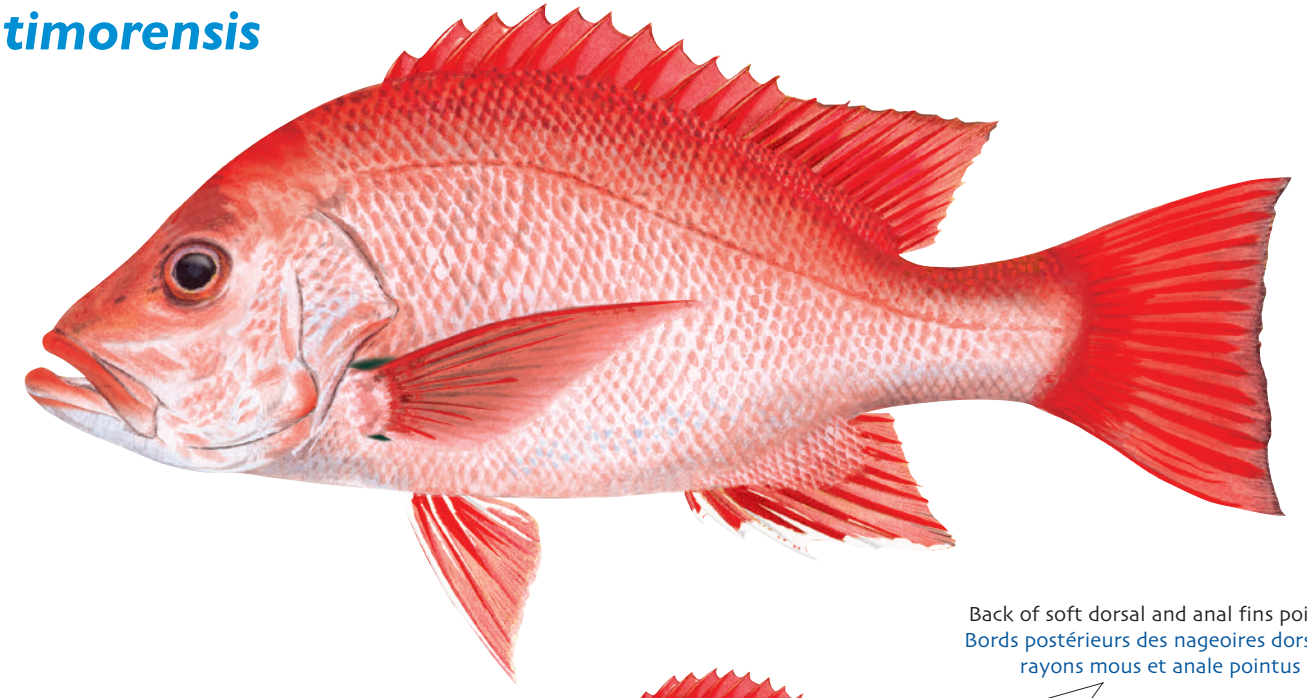


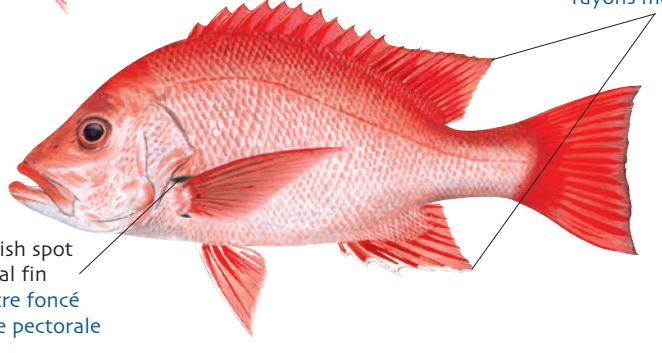
Pectoral fins pink with prominent black dorsal edge
Nageoires pectorales roses, avec bords supérieurs bien noirs

Lutjanus timorensis

LWT

20–130 m



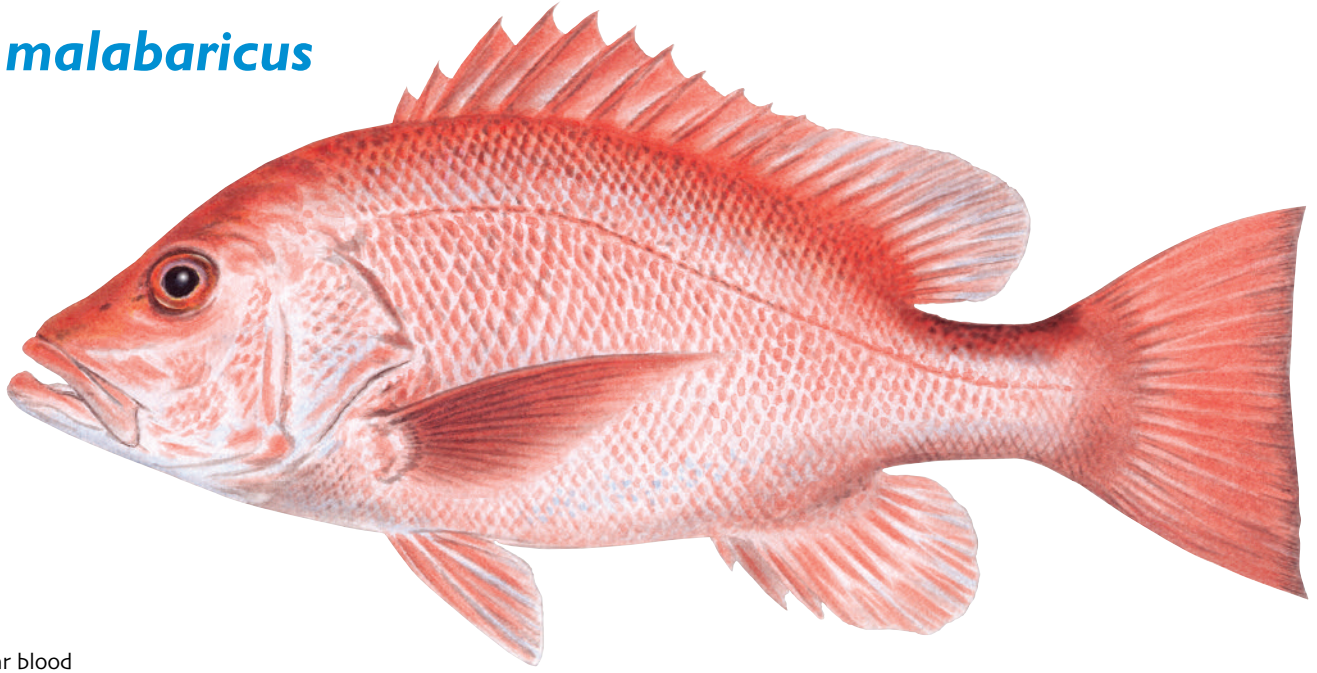


English: Timor snapper
French: Vivaneau de Timor
Japanese: Wakiguro-akafuedari
Local:

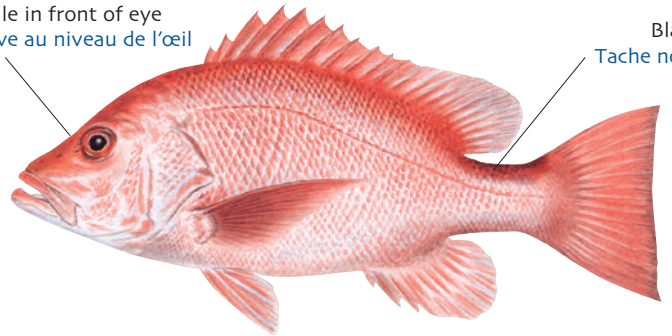
Lutjanus malabaricus

MAL

12–160 m



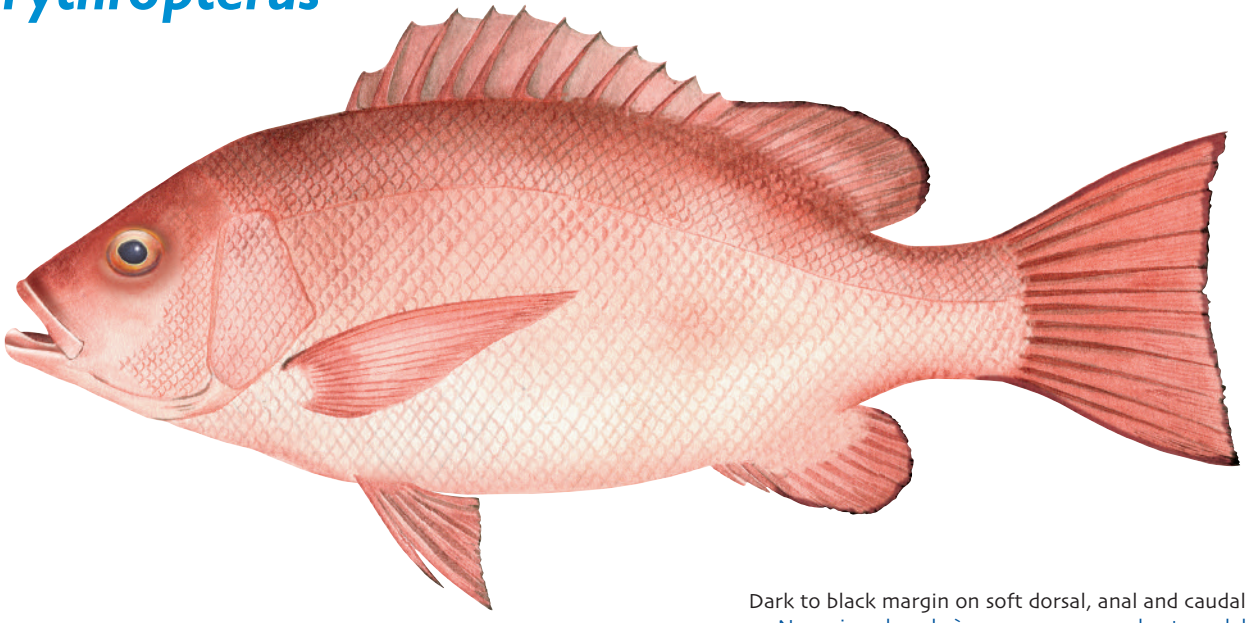
English: Malabar blood snapper
French: Vivaneau malabar
Japanese: Kurakake-tarumi
Local:

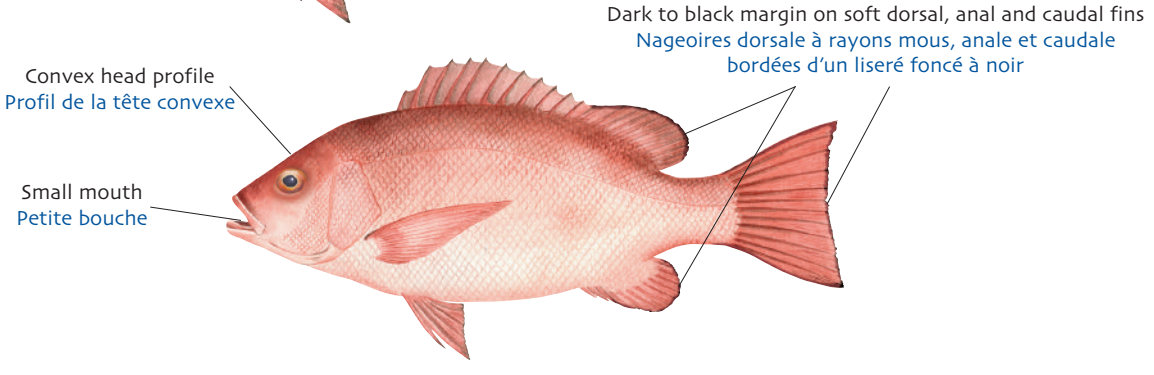


Lutjanus erythropterus

LJT

5–110 m



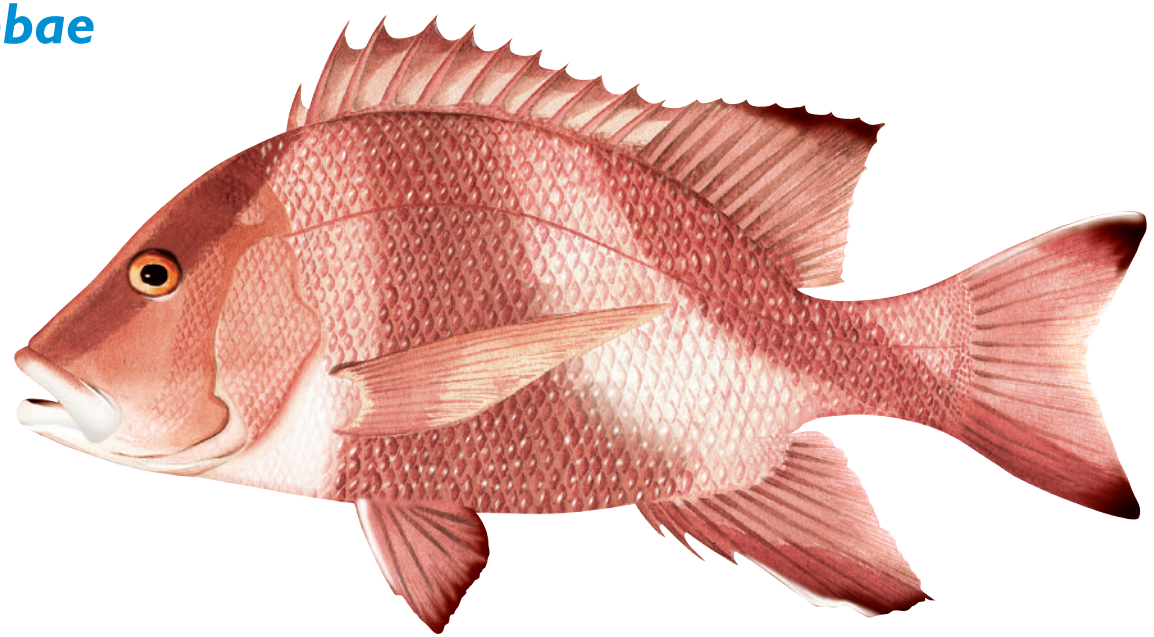


English: Crimson snapper
French: Vivaneau cramoisi
Japanese: Yoko-fuedai
Local:

Lutjanus sebae

5–180 m

LUB

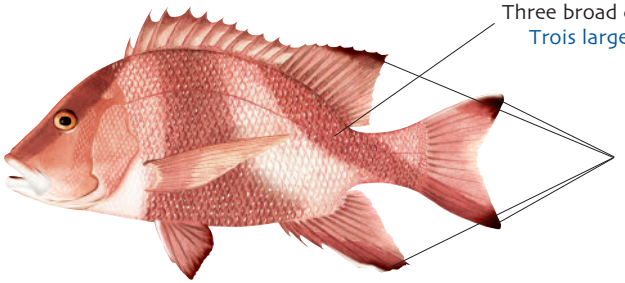


English: Emperor red snapper

French: Vivaneau bourgeois

Japanese: Sen-nendai

Local:



Three broad dark-red bands that fade on larger adults
Trois larges bandes rouge foncé qui s'estompent chez les adultes plus gros

Dorsal, anal and caudal fin edges dark with narrow white margin
Bords des nageoires dorsale, anale et caudale foncés, avec un fin liseré blanc

Lutjanus adetii

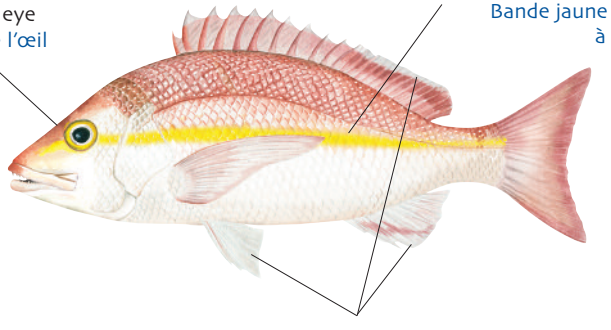
LDW

5–160 m

English: Yellow-banded snapper

French: Vivaneau de nuit

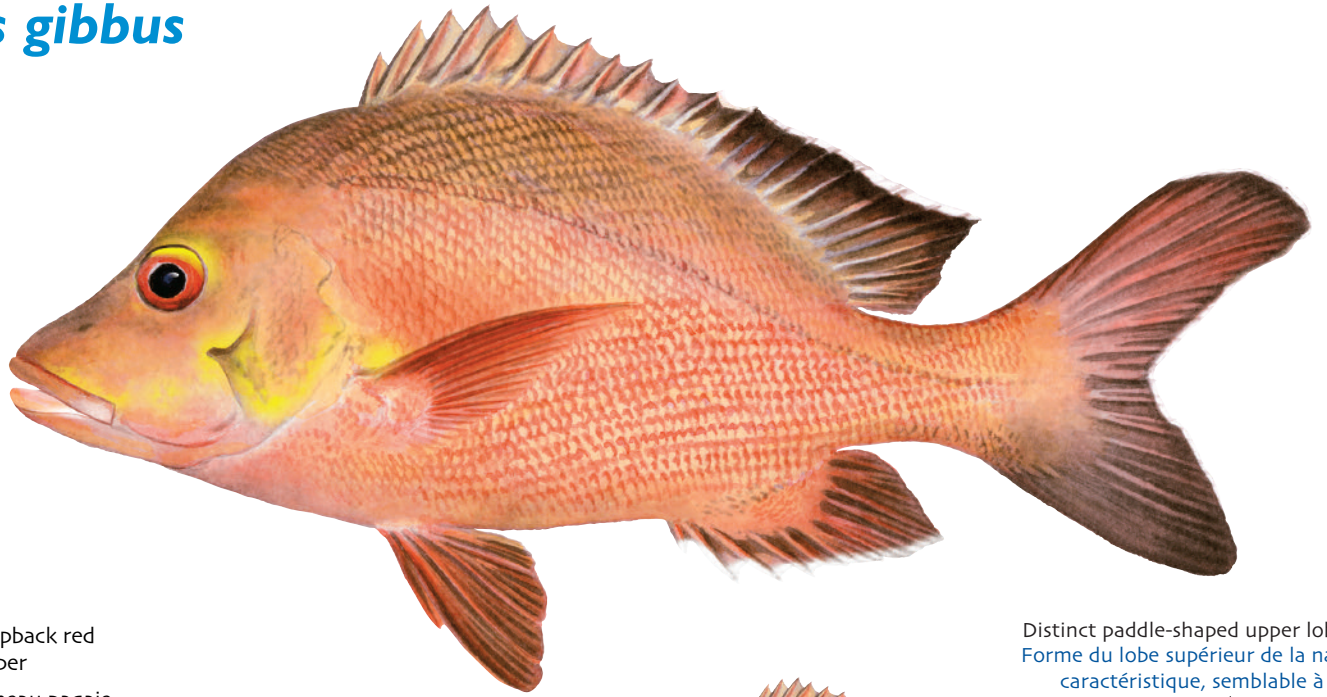
Local:



Lutjanus gibbus

1–150 m

LJG

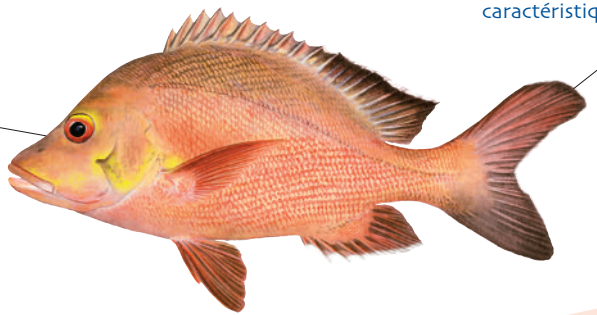


English: Humpback red snapper

French: Vivaneau pagaie

Japanese: Hime-fuedai

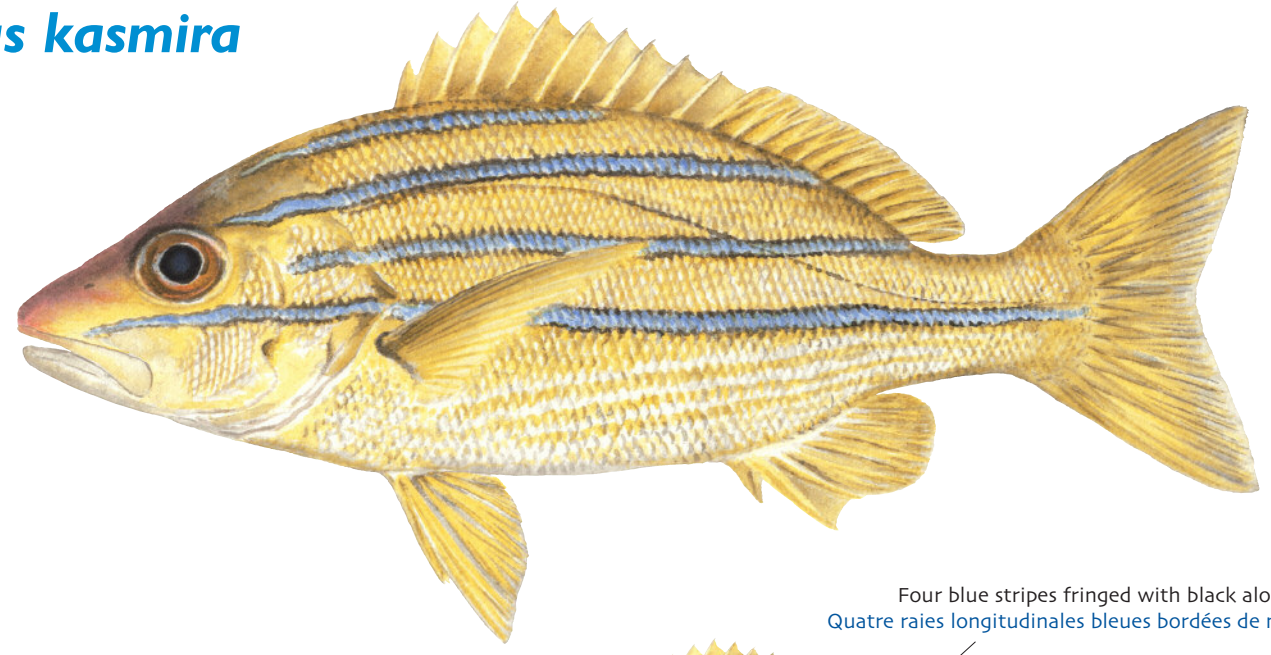
Local:



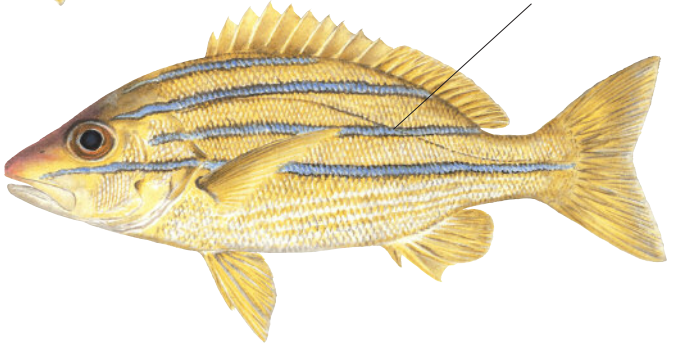
Lutjanus kasmira

LVK

3–265 m



Four blue stripes fringed with black along body
Quatre raies longitudinales bleues bordées de noir sur le corps

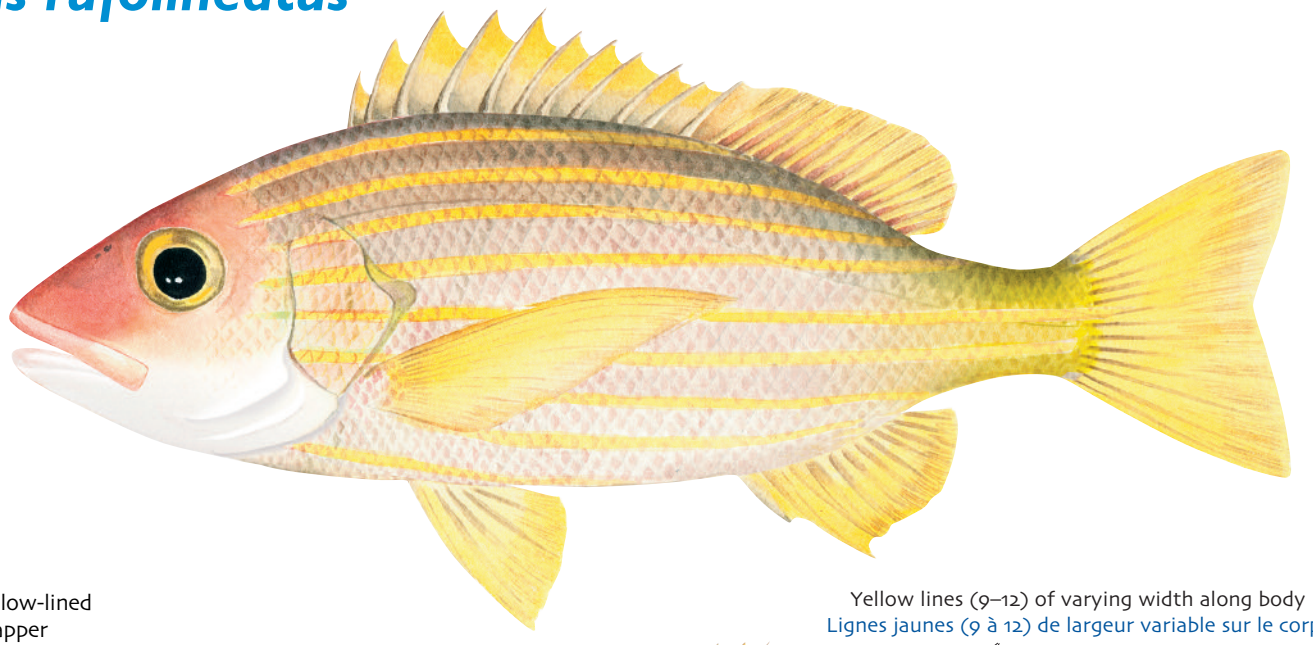


English: Common bluestripe snapper
French: Vivaneau à raies bleues
Japanese: Yosuji-fuedai
Hawaiian: Ta'ape
Local:

Lutjanus rufolineatus

LUF

8–140 m

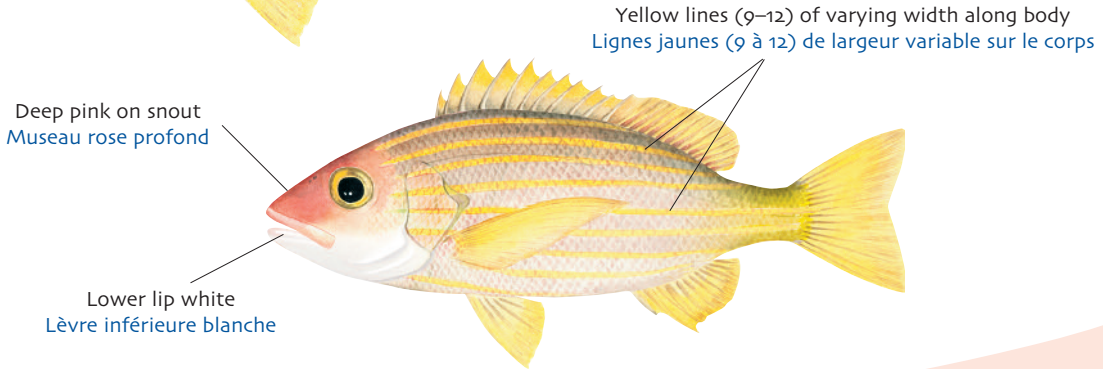


English: Yellow-lined snapper

French: Vivaneau à lignes jaunes

Japanese: Kisuji-tarumi

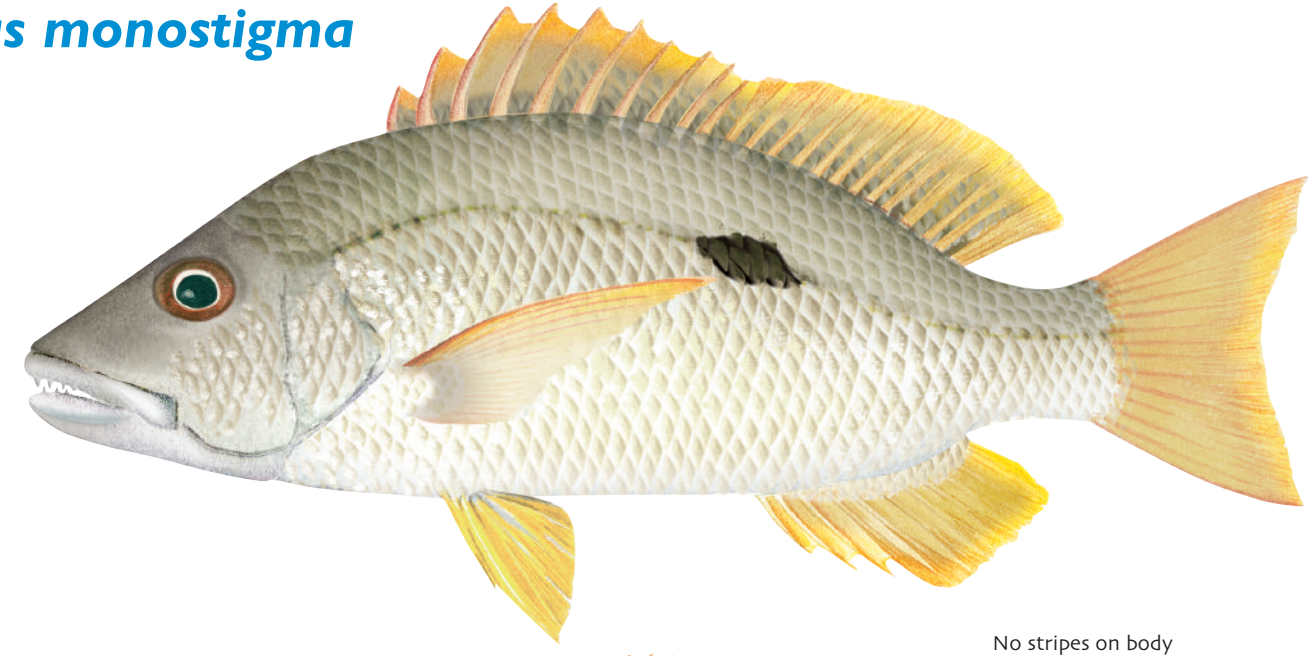
Local:



Lutjanus monostigma

LJK

1–110 m



No stripes on body
Pas de rayure sur le corps

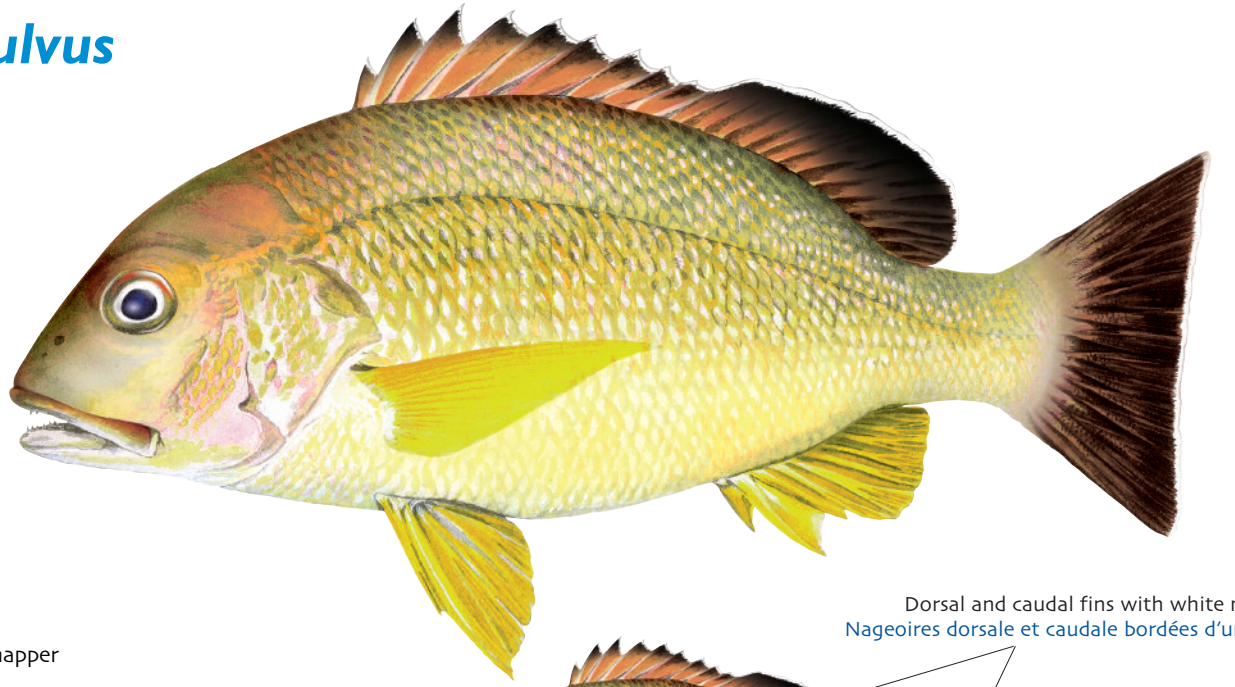
Black spot below start of soft dorsal fin lying over lateral line
Tache noire sur la ligne latérale, sous l'extrémité antérieure de la nageoire dorsale à rayons mous

English: Onespot snapper
French: Vivaneau eglefin
Japanese: Itten-fuedai
Local:

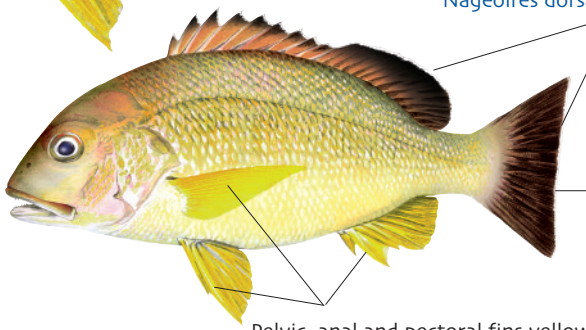
Lutjanus fulvus

1–110 m

LJV



English:	Blacktail snapper
French:	Vivaneau queue noire
Japanese:	Oki-fuedai
Hawaiian:	To'au
Local:	



Lutjanus lemniscatus

LWL

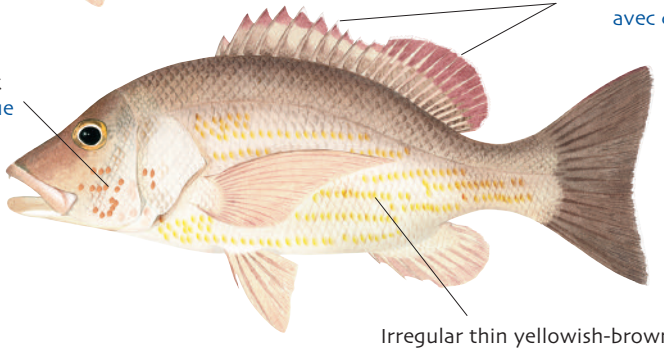
50–110 m

English: Yellowstreaked snapper

French: Vivaneau à raies jaunes

Japanese: Fujiiro-fuedai

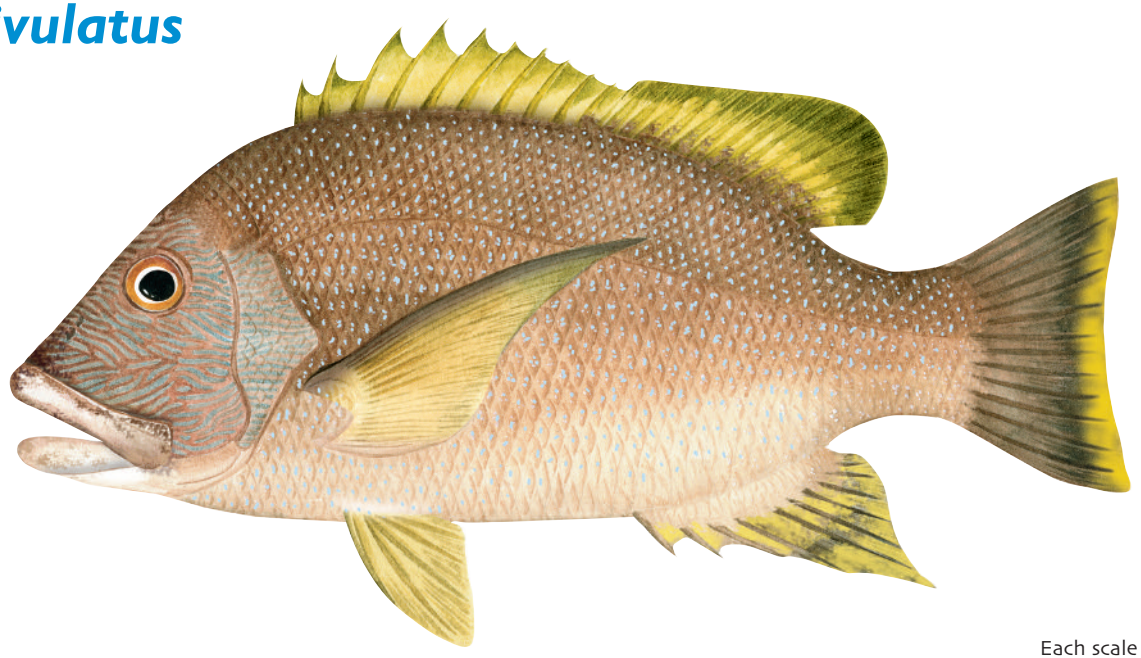
Local:



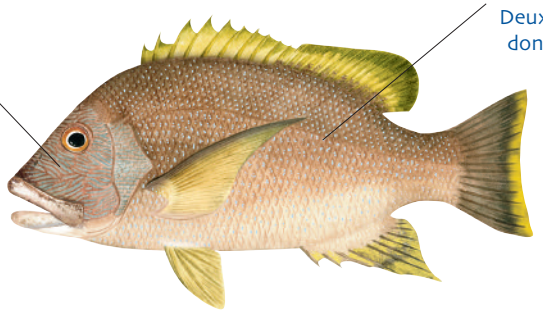
Lutjanus rivulatus

50–110 m

LUV



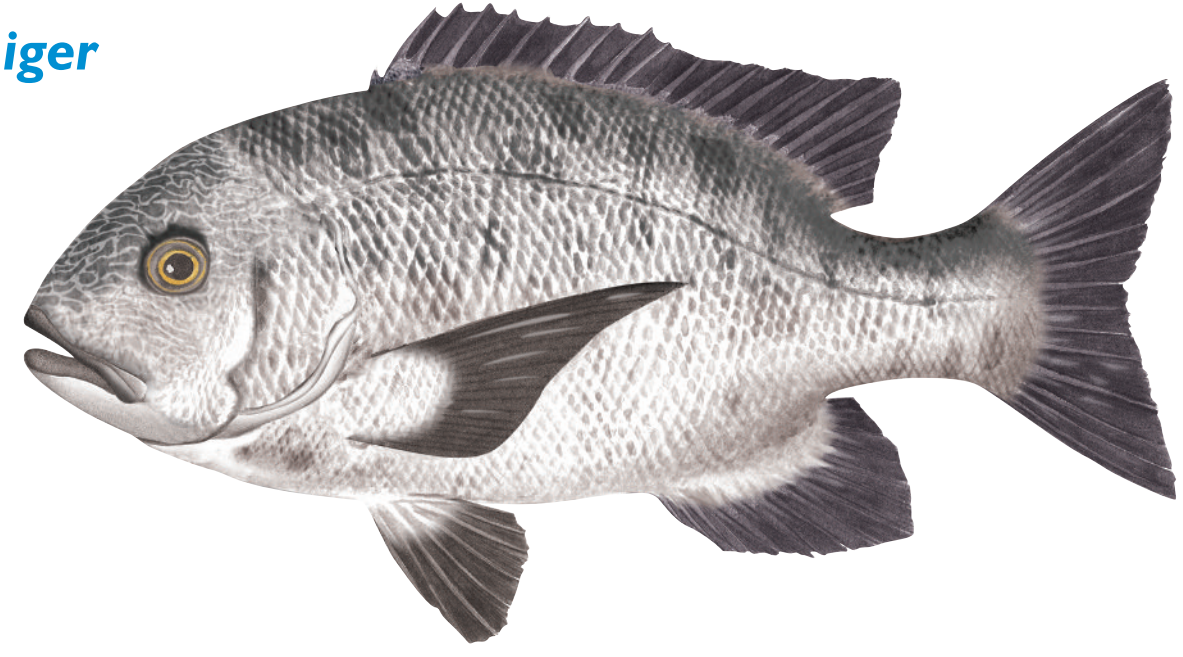
English: Blubberlip snapper
French: Vivaneau maori
Japanese: Nami-fuedai
Local:



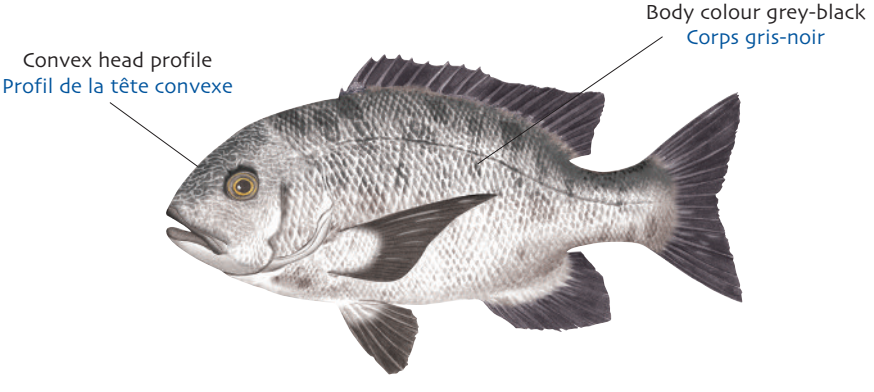
Macolor niger

MLN

2–110 m



English: Black and white snapper
French: Vivaneau plate
Japanese: Madaratarumi
Local:



Lethrinidae

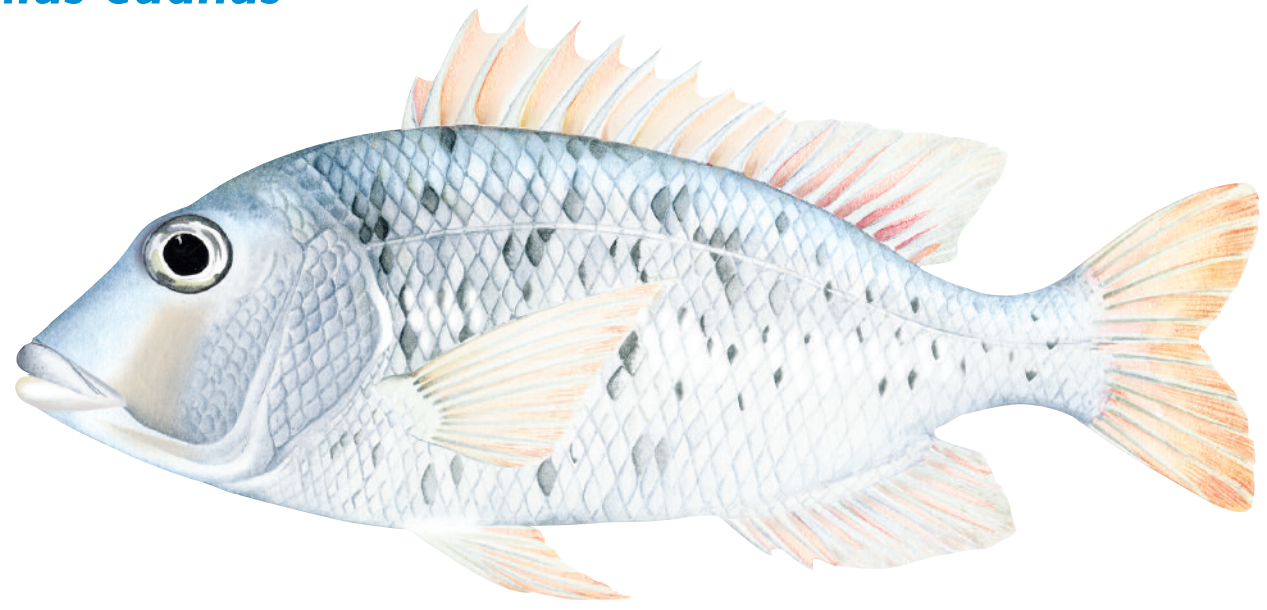
Emperors / Empereurs

Scientific	FAO code	English	French	Page
Gymnocranius euanus	GMQ	Japanese large-eye bream	Empereur blanc à points noirs	40
Gymnocranius griseus	GMR	Grey large-eye bream	Empereur gris	41
Gymnocranius grandoculis	GMW	Blue-lined large-eye bream	Empereur tatoué	42
Wattsia mossambica	WTM	Mozambique large-eye bream	Empereur bariadiva	43
Lethrinus miniatus	LHI	Trumpet emperor	Empereur gueule rouge	44
Lethrinus nebulosus	LHN	Spangled emperor	Empereur moris	45
Lethrinus microdon	LEN	Smalltooth emperor	Empereur tidents	46
Lethrinus olivaceus	LHO	Longface emperor	Empereur gueule longue	47
Lethrinus variegatus	LHV	Slender emperor	Empereur bas cou	48
Lethrinus amboinensis	LLB	Ambon emperor	Empereur d'Ambon	49
Lethrinus rubrioperculatus	LHB	Spotcheek emperor	Empereur honteux	50
Lethrinus xanthochilus	LXN	Yellowlip emperor	Empereur bec-de-cane	51
Lethrinus ornatus	LQO	Ornate emperor	Empereur orné	52
Lethrinus lentjan	LTS	Pink ear emperor	Empereur lentille	53
Lethrinus obsoletus	LWO	Orange-striped emperor	Empereur à bande orange	54
Lethrinus reticulatus	LHR	Red snout emperor	Empereur à museau rouge	55
Lethrinus atkinsoni	LTT	Pacific yellowtail emperor	Empereur doré	56
Lethrinus erythracanthus	LXE	Orange-spotted emperor	Empereur capitaine	57

Gymnocranius euanus

GMQ

15–250 m

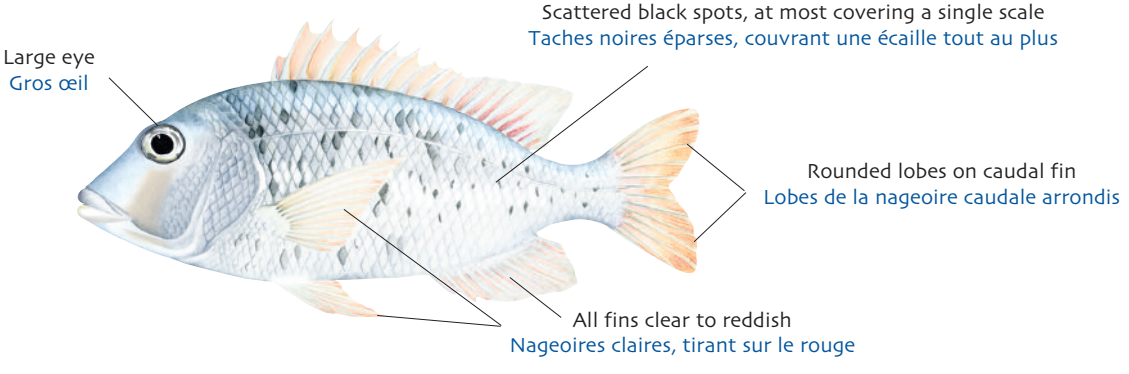


English: Japanese large-eye bream

French: Empereur blanc à points noirs

Japanese: Shirodai

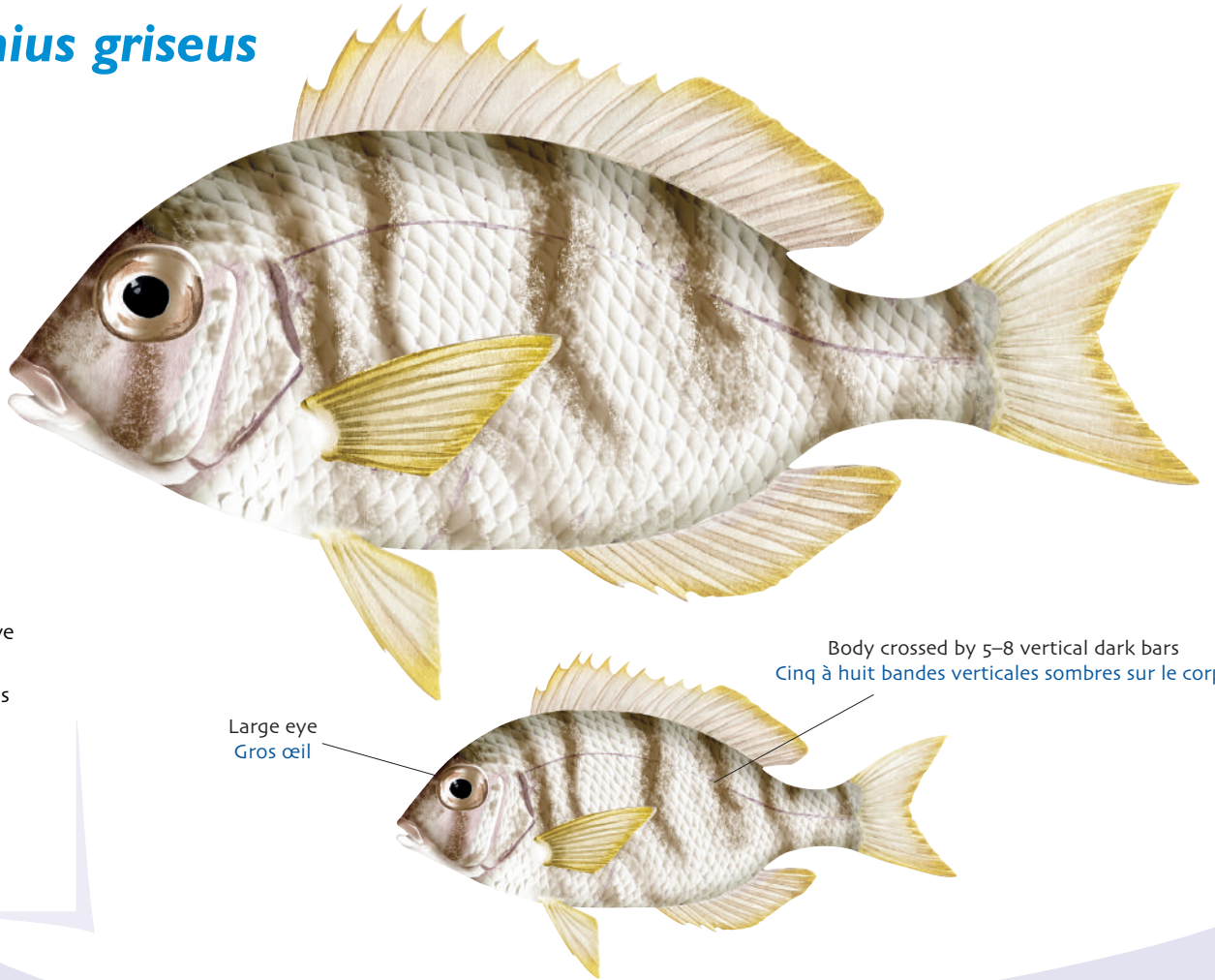
Local:



Gymnocranius griseus

20–110 m

GMR

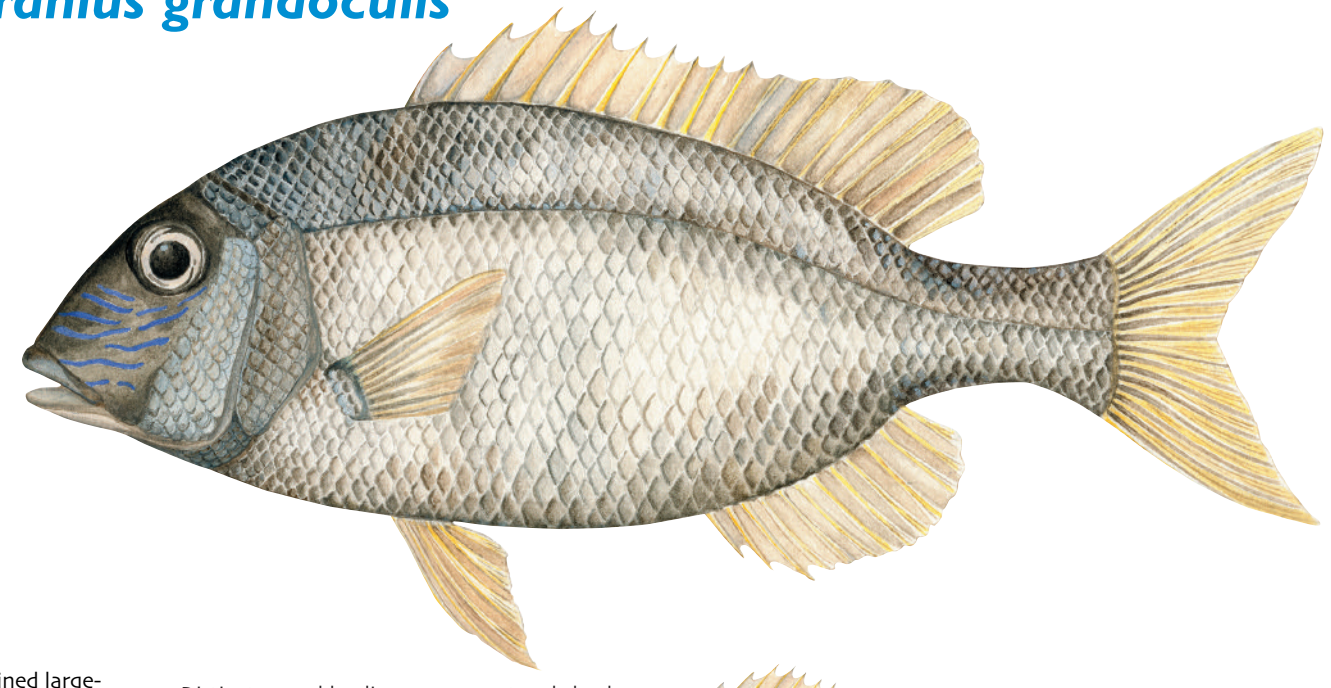


English: Grey large-eye bream
French: Empereur gris
Japanese: Meichi-dai
Local:

Gymnocranius grandoculis

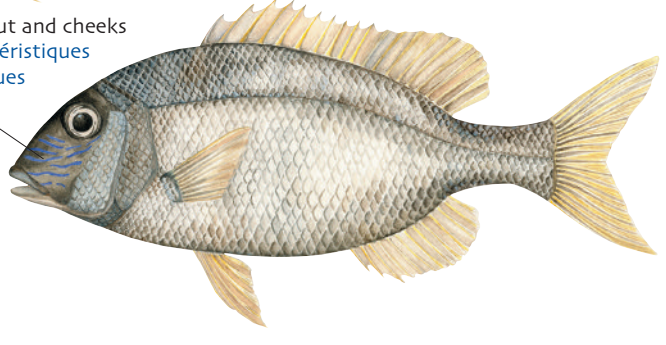
GMW

20–170 m



English: Blue-lined large-eye bream
French: Empereur tatoué
Japanese: Sazanami-dai
Local:

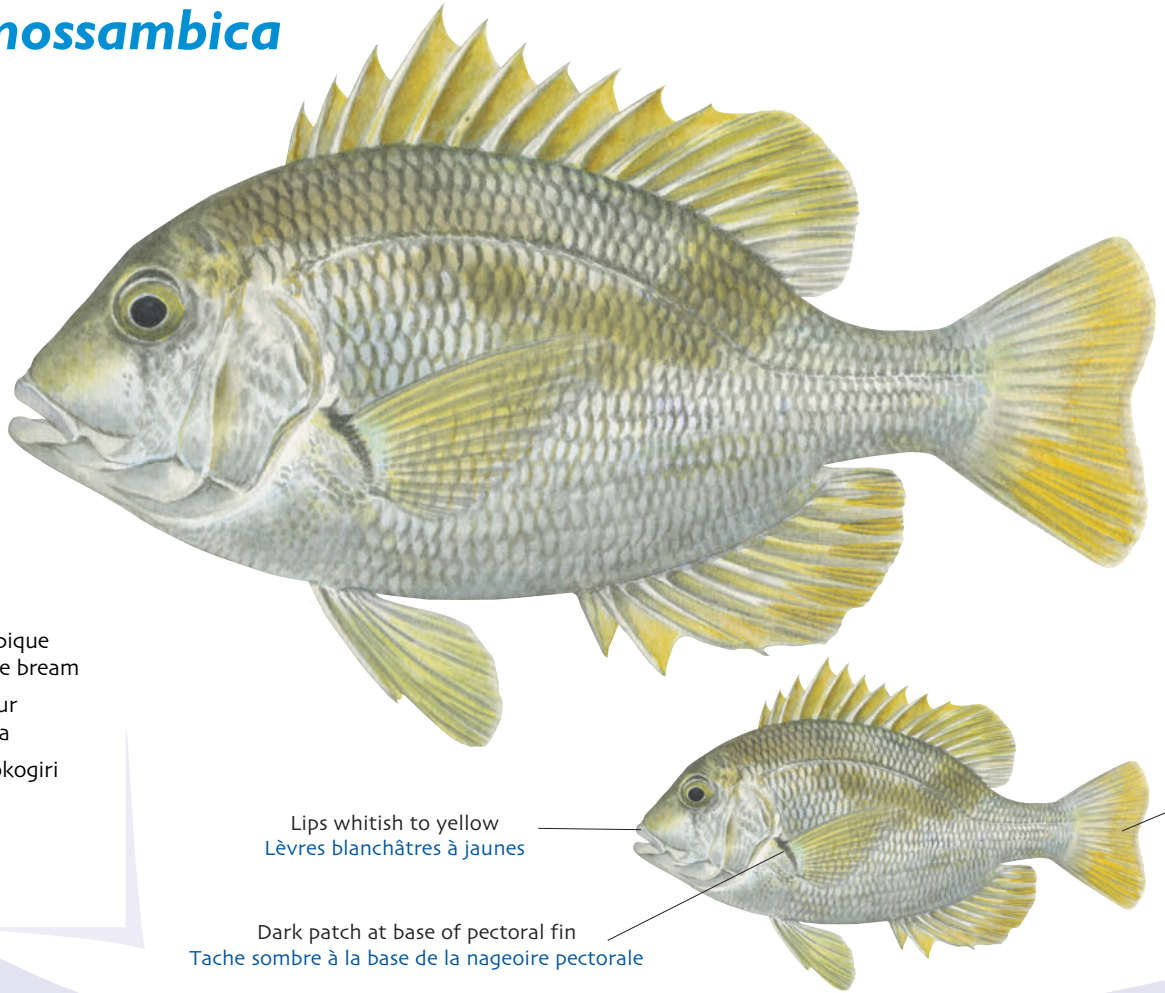
Distinct wavy blue lines over snout and cheeks
Lignes ondulées bleues caractéristiques sur le museau et les joues



Wattsia mossambica

WTM

60–220 m



English: Mozambique large-eye bream

French: Empereur bariadiva

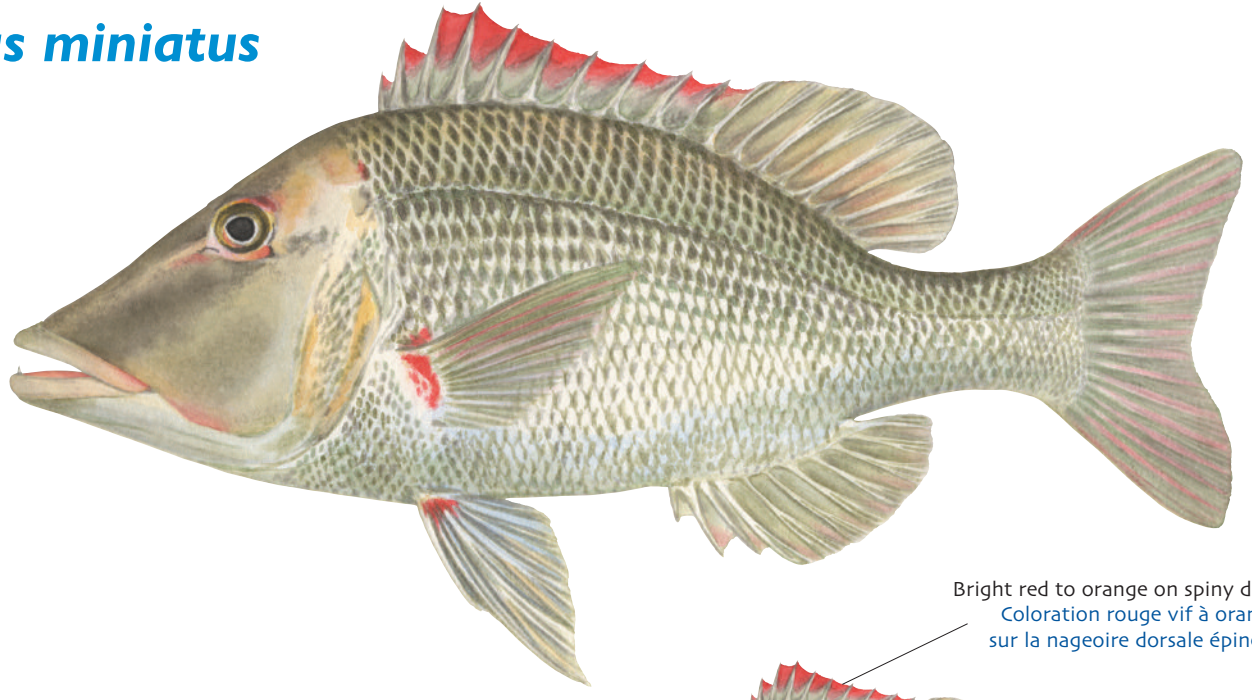
Japanese: Koke-nokogiri

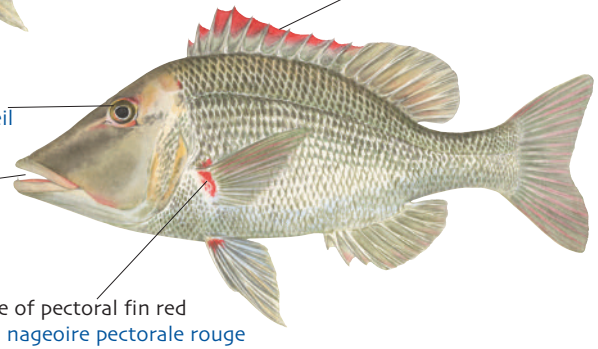
Local:

Lethrinus miniatus

LHI

5–200 m





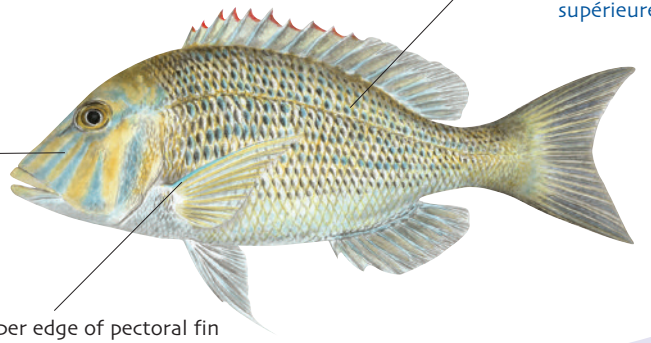
English:	Trumpet emperor
French:	Empereur gueule rouge
Japanese:	Kitsune-fuefuki
Local:	

Lethrinus nebulosus

LHN

1–140 m

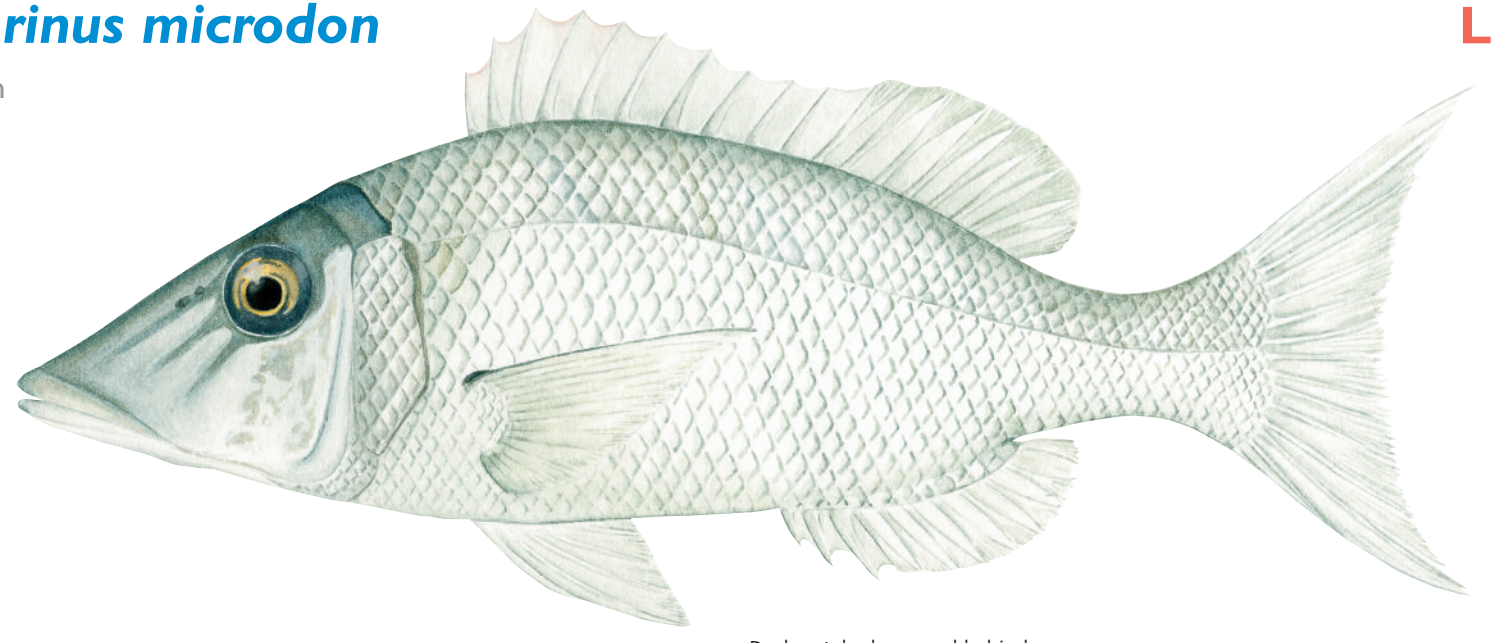
English: Spangled emperor
French: Empereur moris
Japanese: Hama-fuefuki
Local:



Lethrinus microdon

LEN

1–110 m

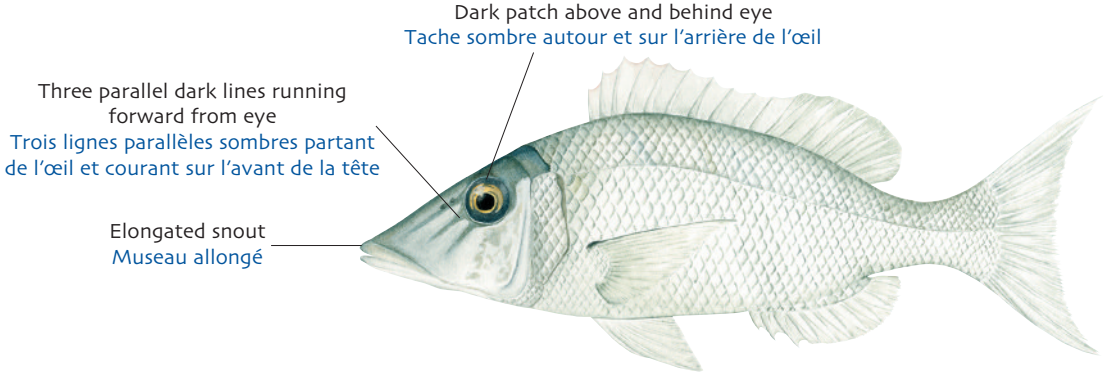


English: Smalltooth emperor

French: Empereur tidents

Japanese: O-fuefuki

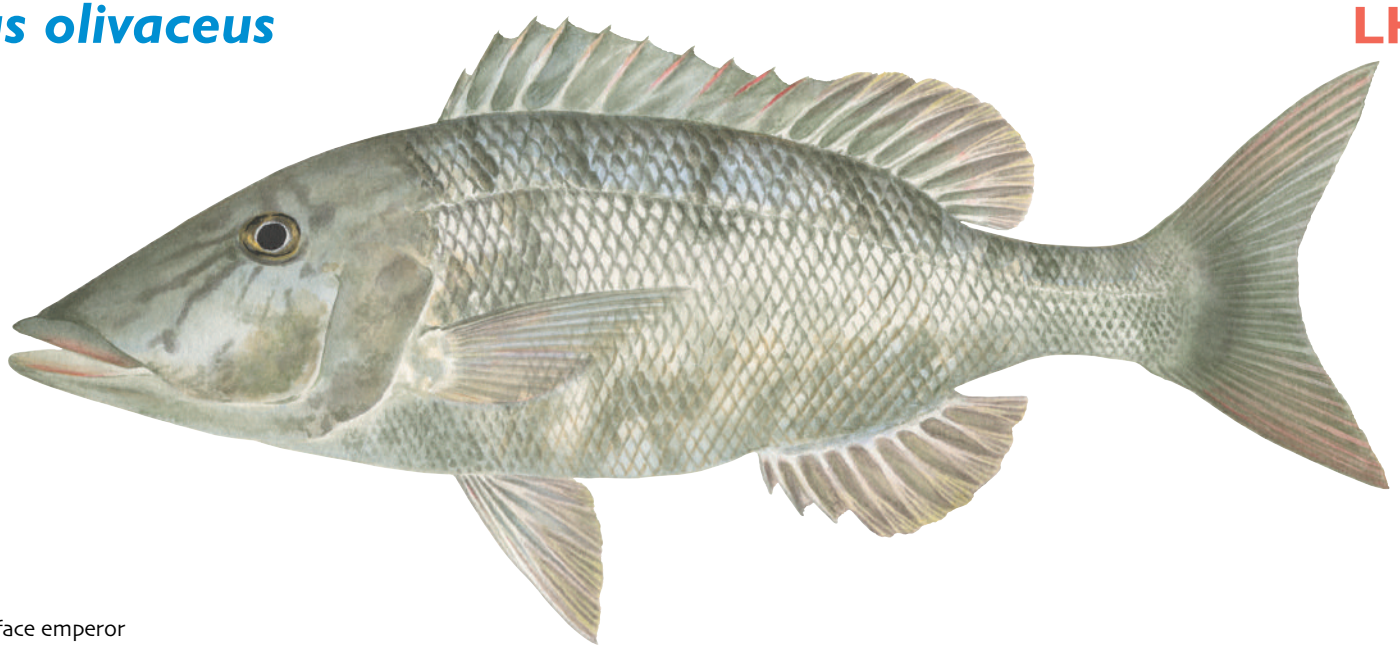
Local:



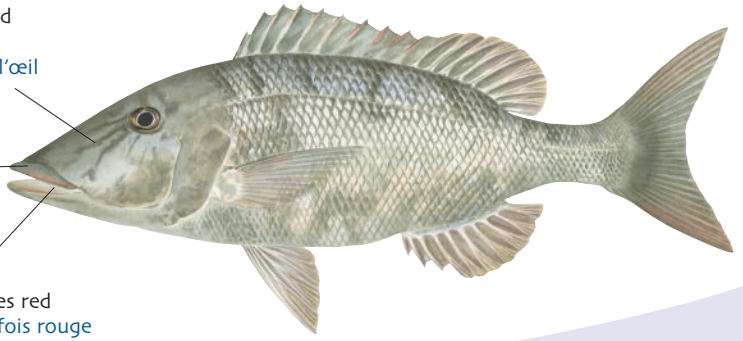
Lethrinus olivaceus

LHO

1–185 m



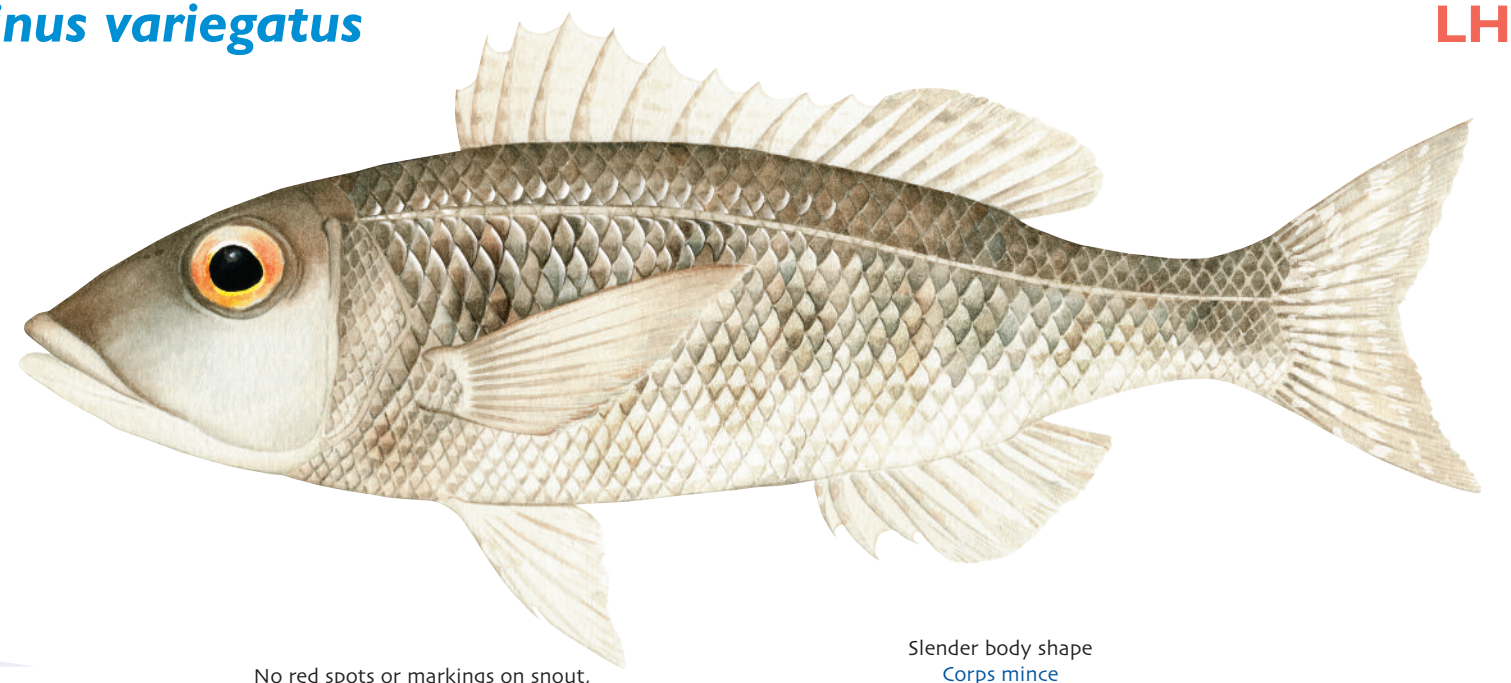
English: Longface emperor
French: Empereur gueule longue
Japanese: Kitsune-fuefuki
Local:



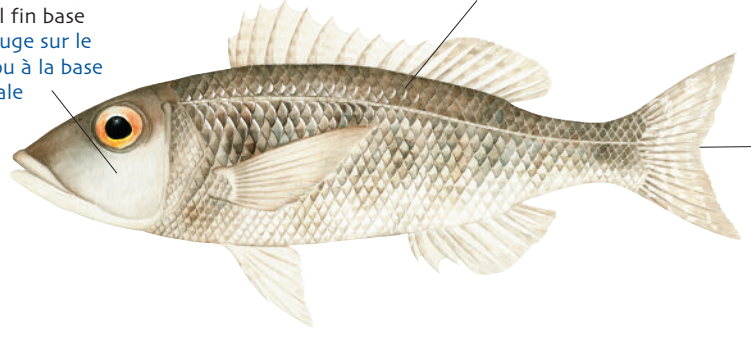
Lethrinus variegatus

LHV

1–150 m



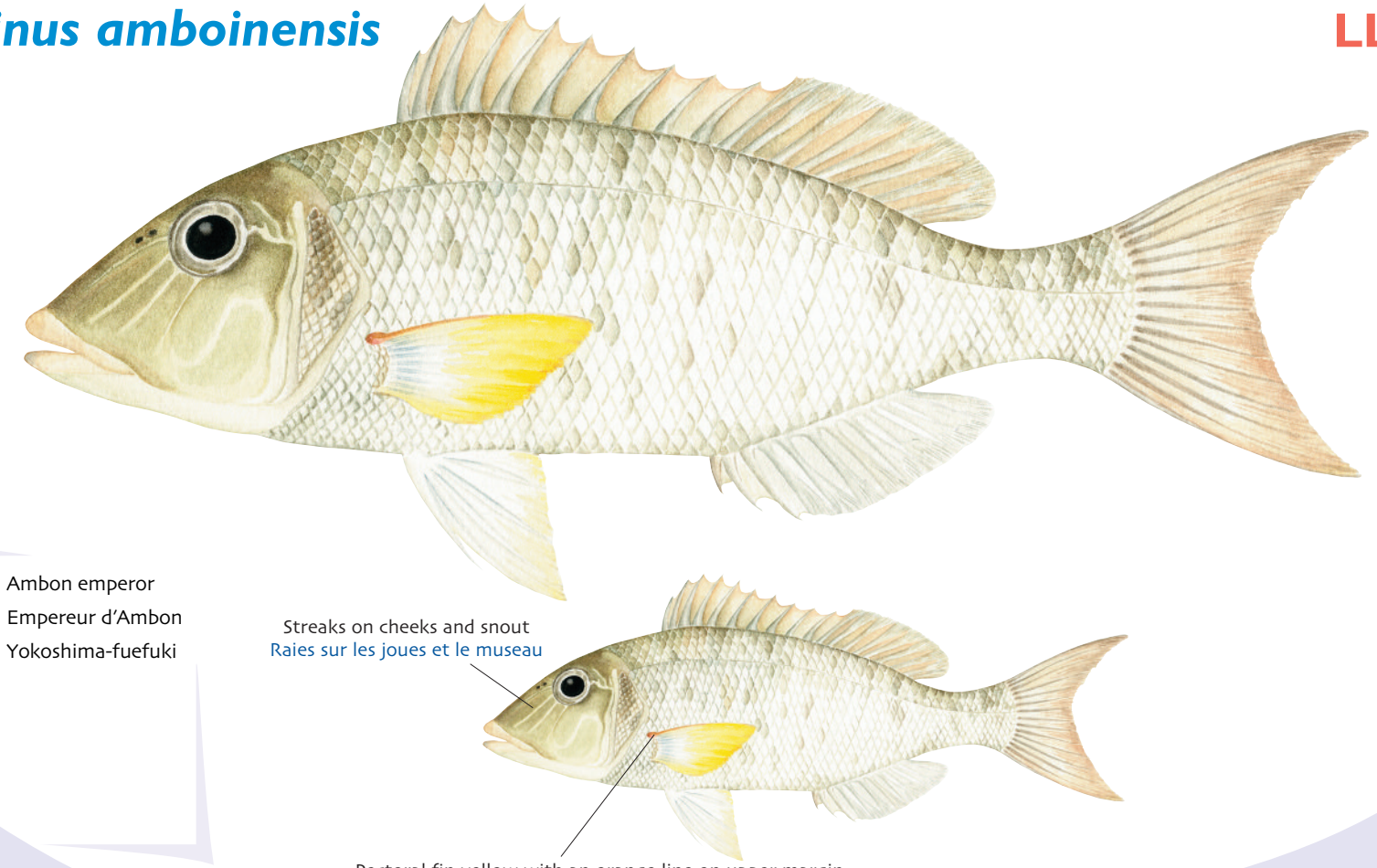
English: Slender emperor
French: Empereur bas cou
Japanese: Hoso-fuefuki
Local:



Lethrinus amboinensis

LLB

5–110 m

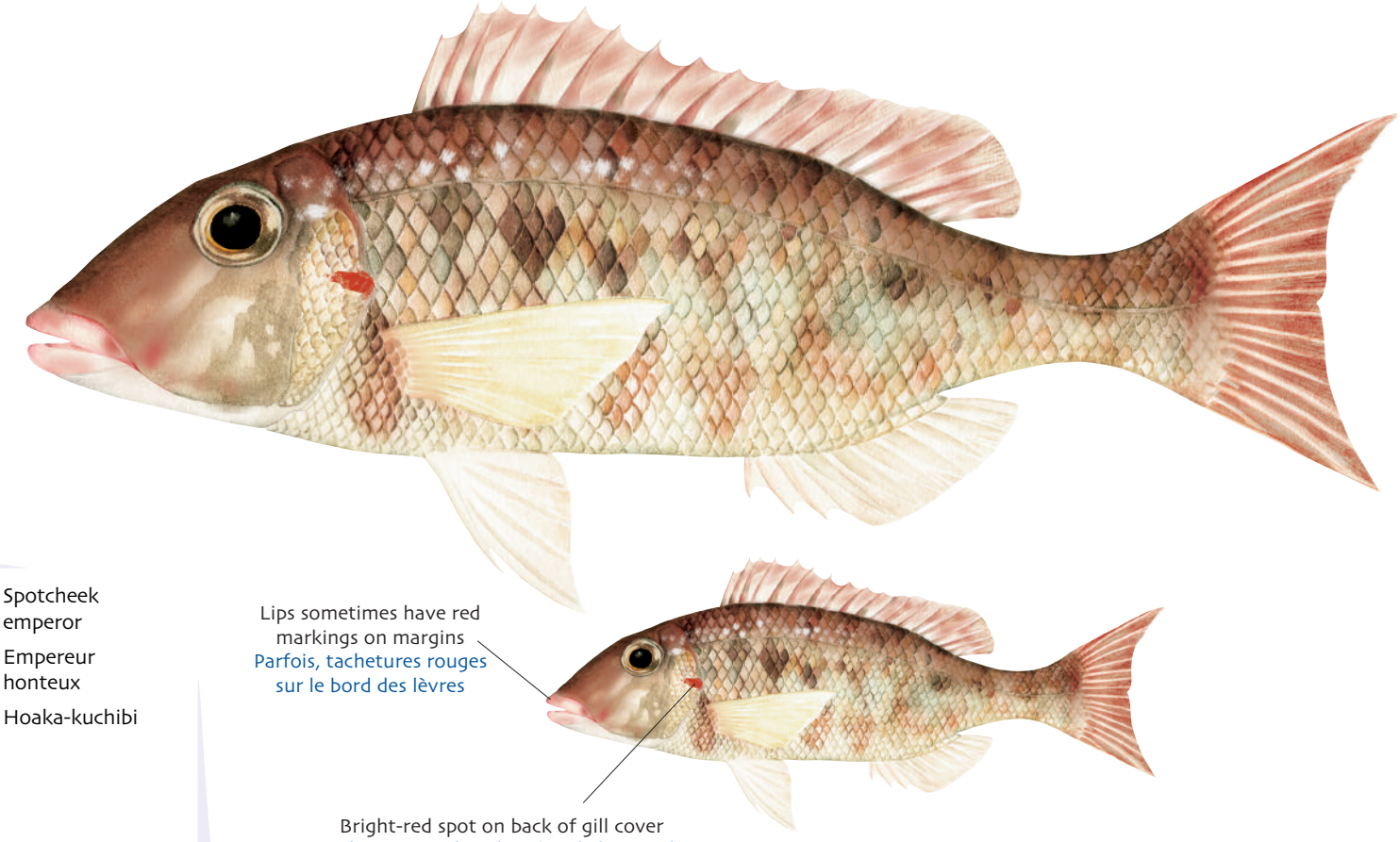


English: Ambon emperor
French: Empereur d'Ambon
Japanese: Yokoshima-fuefuki
Local:

Lethrinus rubrioperculatus

LHB

10–180 m

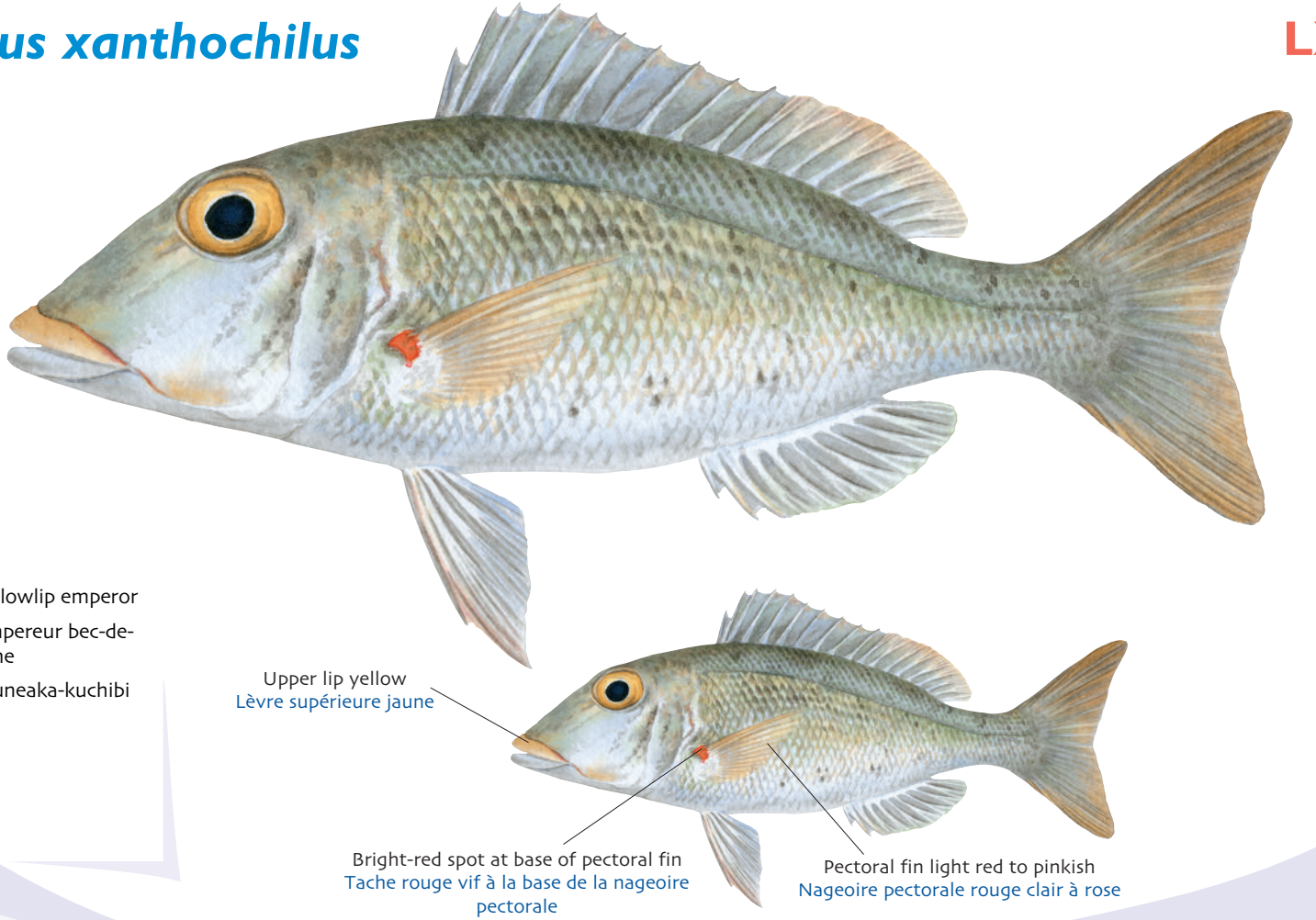


English:	Spotcheek emperor
French:	Empereur honteux
Japanese:	Hoaka-kuchibi
Local:	

Lethrinus xanthochilus

LXN

1–150 m

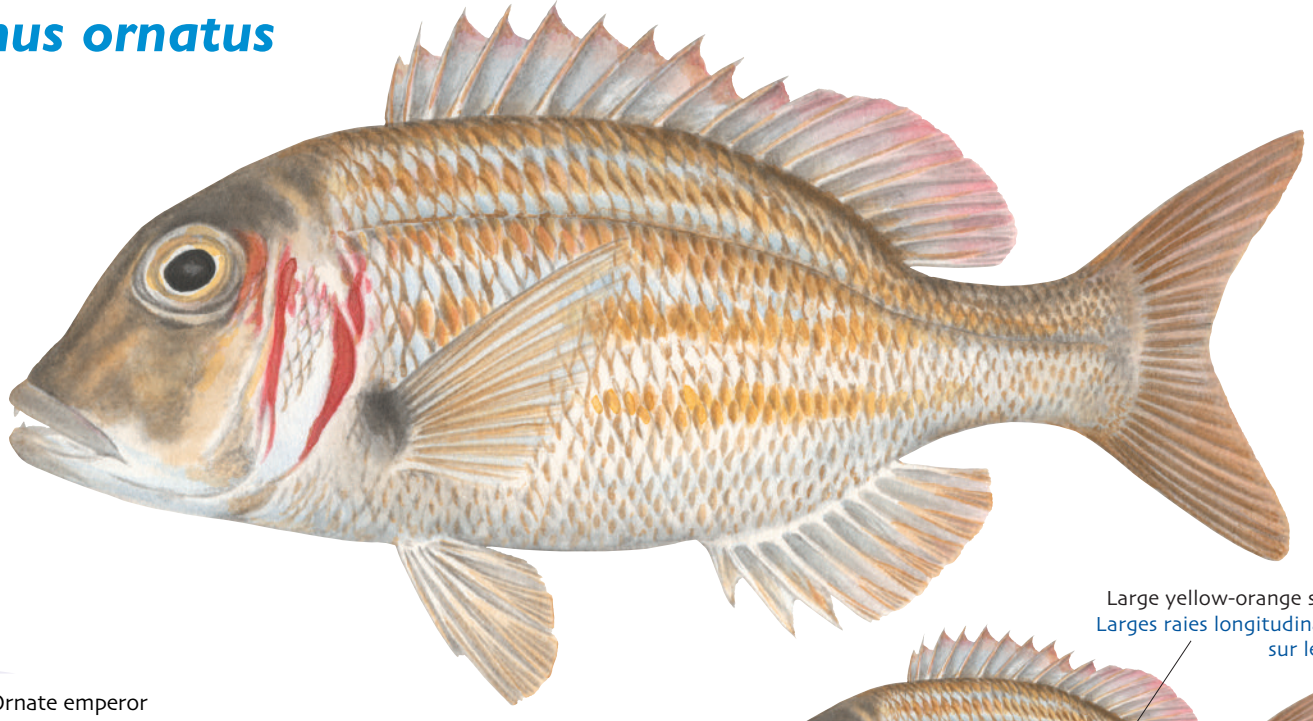


English: Yellowlip emperor
French: Empereur bec-de-cane
Japanese: Muneaka-kuchibi
Local:

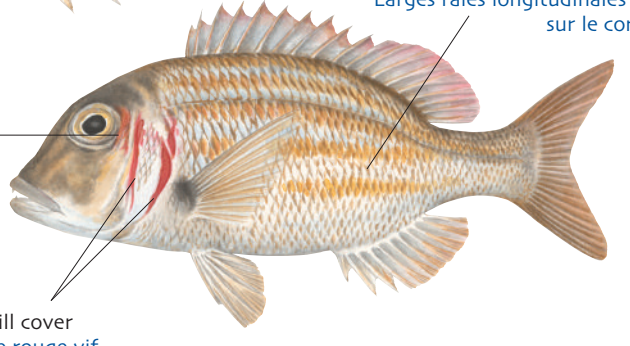
Lethrinus ornatus

LQO

10–110 m



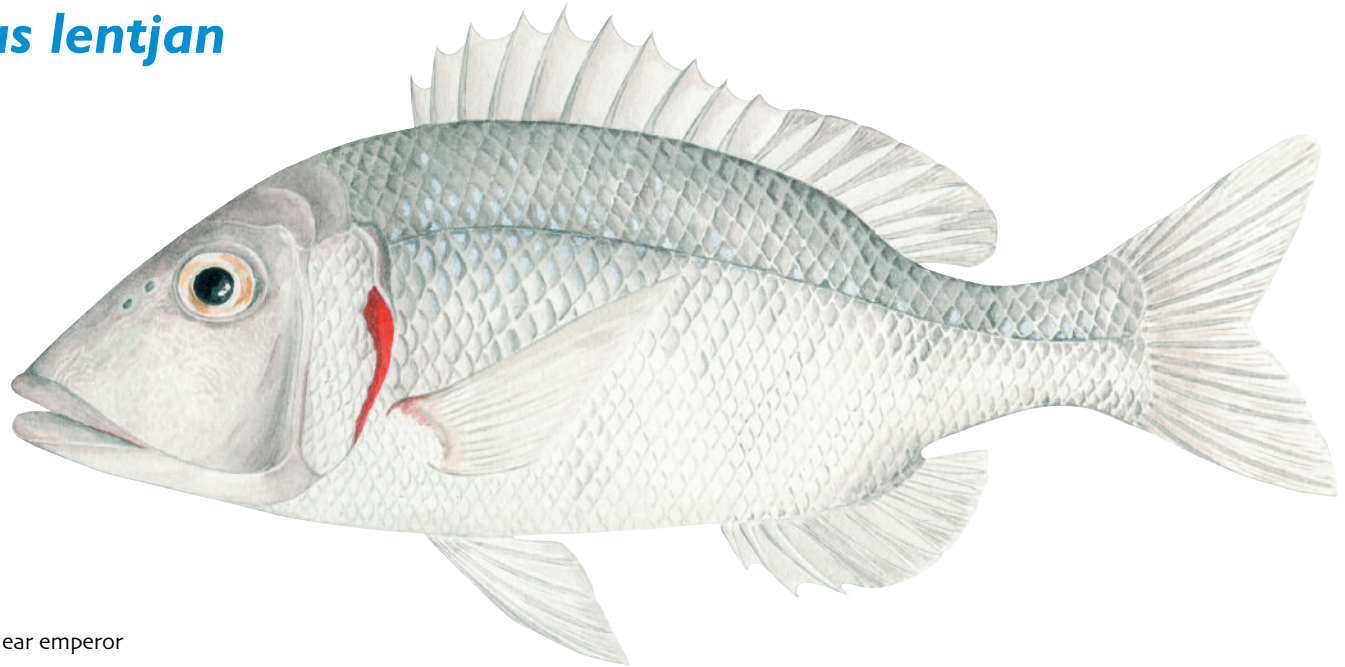
English: Ornate emperor
French: Empereur orné
Japanese: Hana-fuefuki
Local:



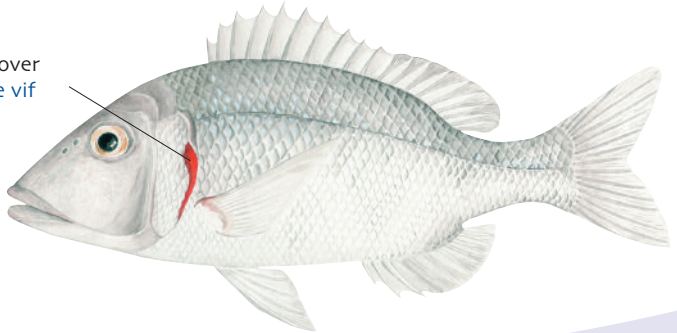
Lethrinus lentjan

20–110 m

LTS



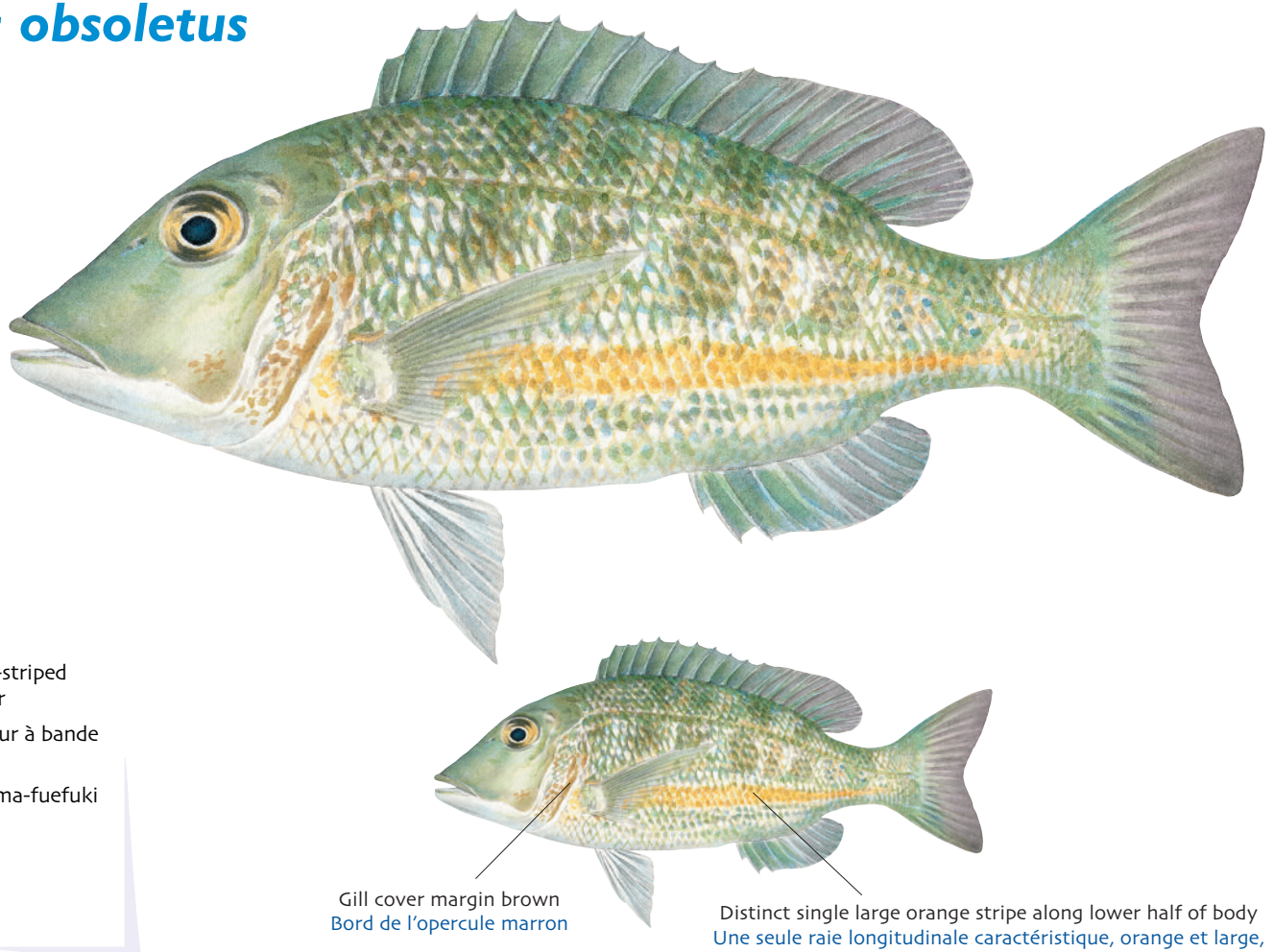
English: Pink ear emperor
French: Empereur lentille
Japanese: Shimofuri-fuefuki
Local:



Lethrinus obsoletus

LWO

1–110 m



English: Orange-striped emperor

French: Empereur à bande orange

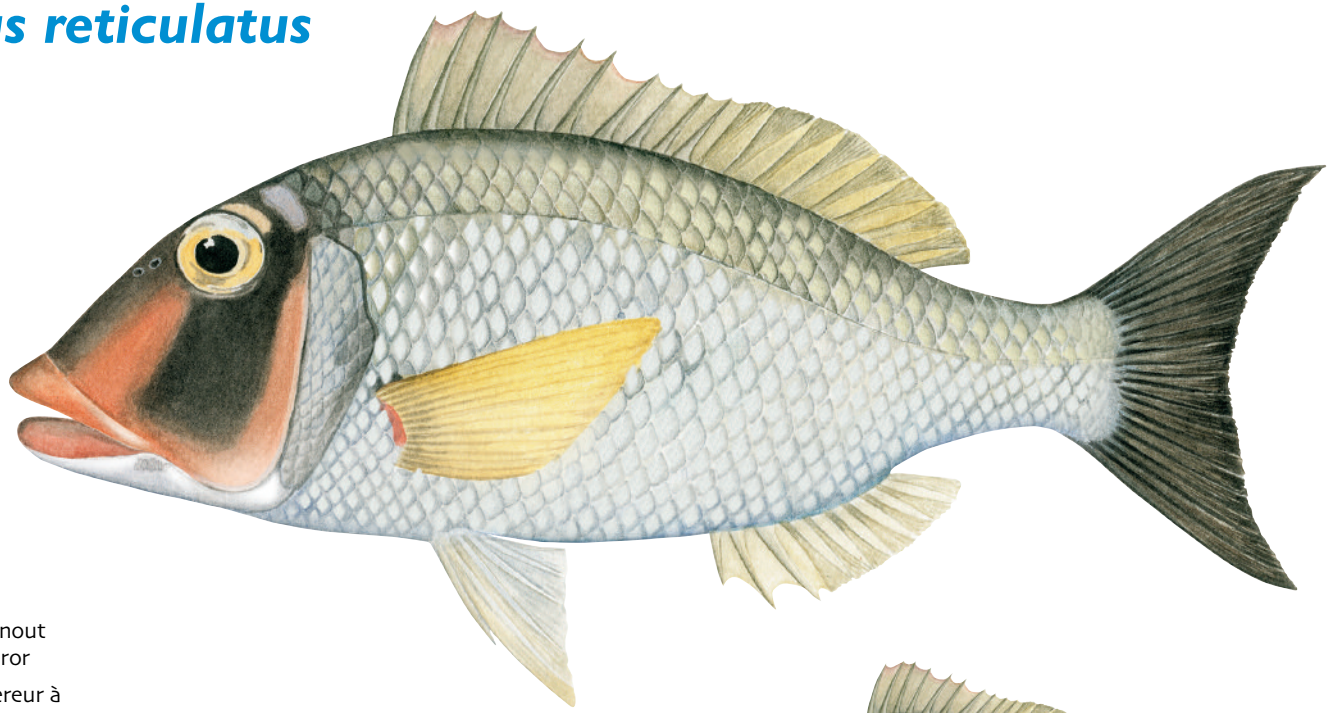
Japanese: Tateshima-fuefuki

Local:

Lethrinus reticulatus

LHR

20–110 m

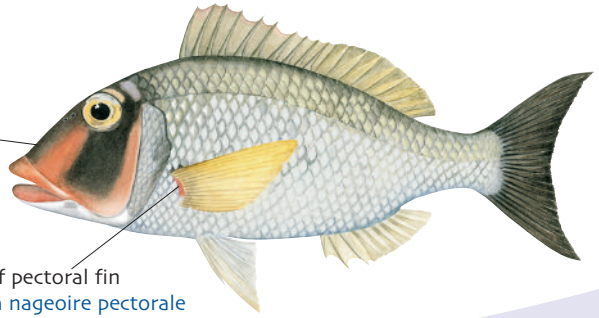


English: Red snout emperor

French: Empereur à museau rouge

Japanese: Yaeyama-fuefuki

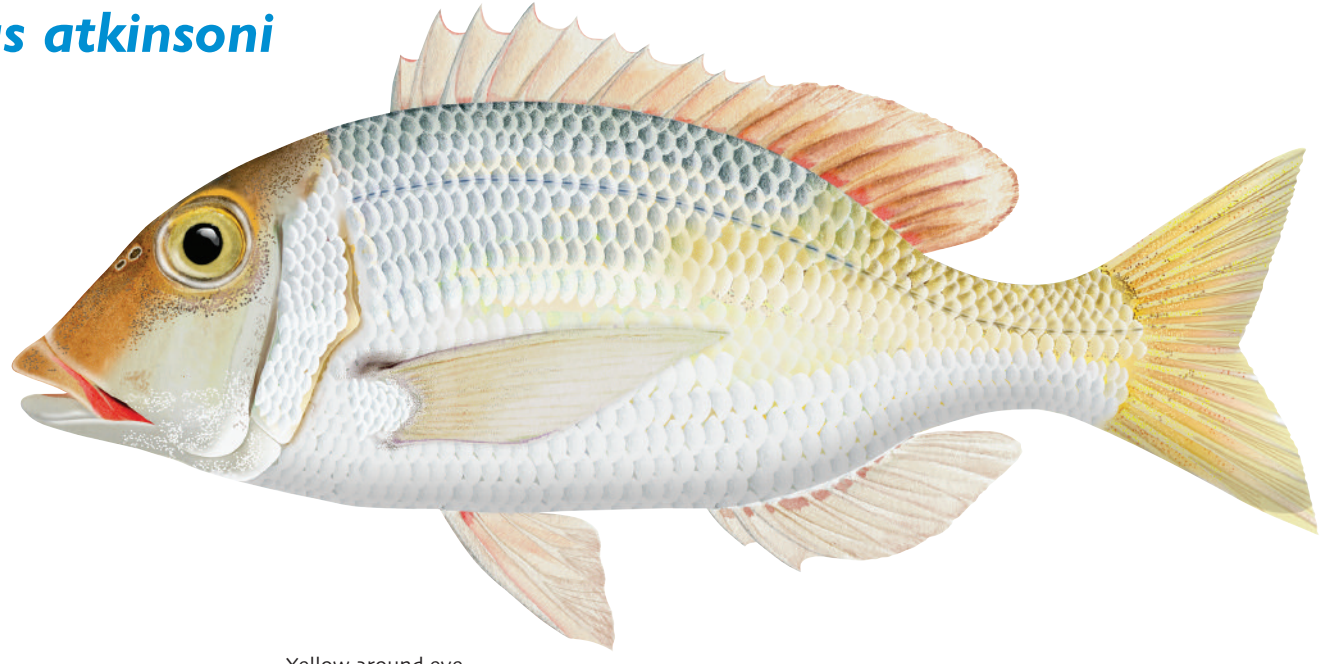
Local:



Lethrinus atkinsoni

LTT

1–110 m

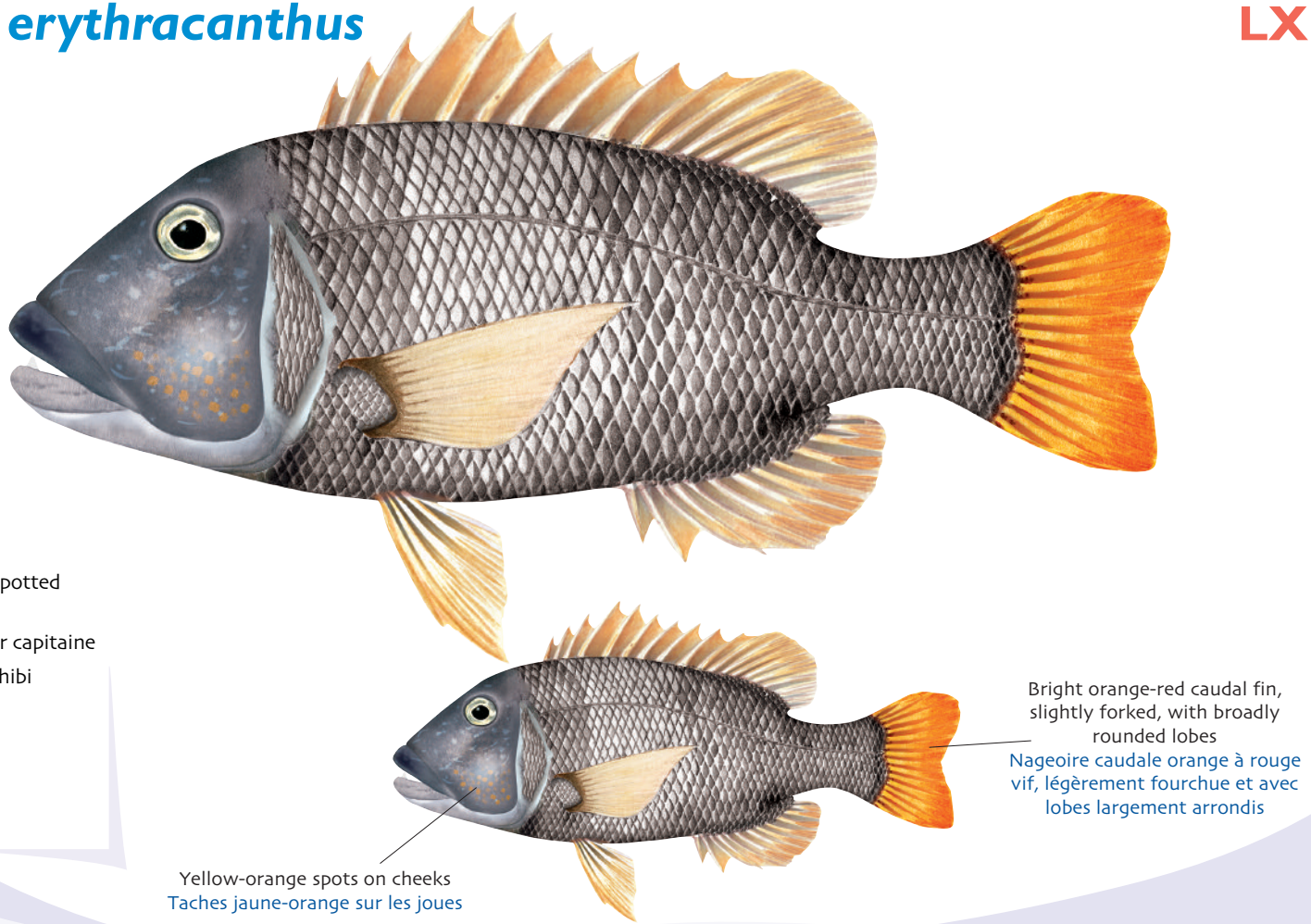


English: Pacific yellowtail emperor
French: Empereur doré
Japanese: Tateshima-fuefuki
Local:

Lethrinus erythracanthus

LXE

10–120 m



English: Orange-spotted emperor

French: Empereur capitaine

Japanese: Ama-kuchibi

Local:

Serranidae

Groupers / Mérous

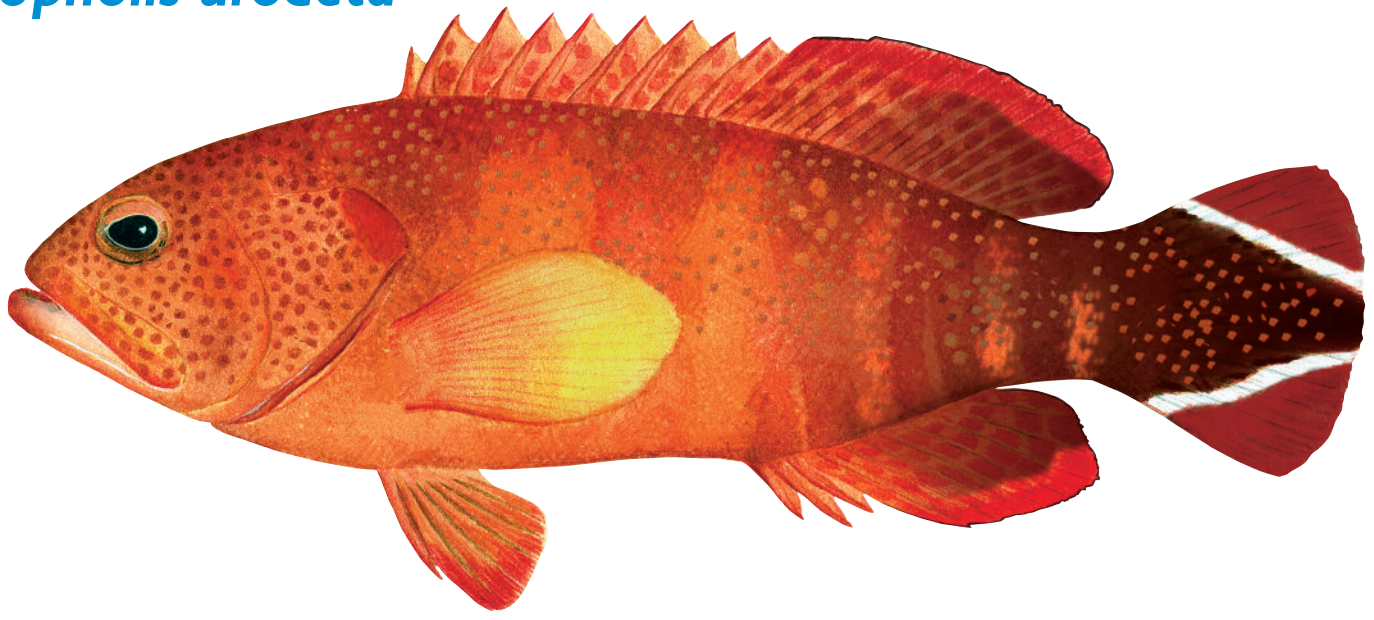
Scientific	FAO code	English	French	Page
Cephalopholis urodeta	CWU	Darkfin hind	Vieille aile noire	60
Cephalopholis spiloparaea	CWR	Strawberry hind	Vieille fraise	61
Cephalopholis sexmaculata	CFX	Sixblotch hind	Vieille six taches	62
Cephalopholis miniata	CFI	Coral hind	Vieille de corail	63
Cephalopholis aurantia	CFZ	Golden hind	Vieille dorée	64
Cephalopholis sonnerati	EFT	Tomato hind	Vieille ananas	65
Cephalopholis igarashiensis	CWI	Garish hind	Vieille voyante	66
Cephalopholis argus	CFF	Peacock hind	Vieille la prude	67
Epinephelus amblycephalus	EFY	Banded grouper	Mérou bande	68
Epinephelus sexfasciatus	EFX	Sixbar grouper	Mérou six raies	69
Epinephelus retouti	EWR	Red-tipped grouper	Mérou à bout rouge	70
Epinephelus rivulatus	EPV	Halfmoon grouper	Mérou demi-lune	71
Epinephelus malabaricus	MAR	Malabar grouper	Mérou malabare	72
Epinephelus octofasciatus	EWO	Eightbar grouper	Mérou huit raies	73
Epinephelus irroratus	EWI	Marquesan grouper	Mérou Marquises	74
Epinephelus lanceolatus	EEN	Giant grouper	Mérou lancéolé	75
Epinephelus quernus	EEQ	Hawaiian grouper	Mérou hawaiien	76
Epinephelus caeruleopunctatus	EWC	Whitespotted grouper	Mérou à taches blanches	77
Epinephelus fuscoguttatus	EWF	Brown-marbled grouper	Mérou marron	78
Epinephelus polyphekadion	EEK	Camouflage grouper	Mérou camouflage	79
Epinephelus tauvina	EPT	Greasy grouper	Mérou loutre	80
Epinephelus miliaris	EWM	Netfin grouper	Mérou abeille	81

Epinephelus maculatus	EEC	Highfin grouper	Mérou haute voile	82
Epinephelus chlorostigma	EFH	Brownspotted grouper	Mérou pintade	83
Epinephelus tukula	EWL	Potato grouper	Mérou patate	84
Epinephelus areolatus	EPR	Areolate grouper	Mérou aréolé	85
Cromileptes altivelis	MPV	Humpback grouper	Mérou bossu	86
Epinephelus cyanopodus	EPY	Speckled blue grouper	Mérou bleu	87
Epinephelus morrhua	EEP	Comet grouper	Mérou comète	88
Epinephelus radiatus	EZR	Oblique-banded grouper	Mérou zébré	89
Epinephelus poecilonotus	EWP	Dot-dash grouper	Mérou morse	90
Epinephelus tuamotuensis	EWT	Reticulate grouper	Mérou réseau	91
Epinephelus magniscuttis	EEJ	Speckled grouper	Mérou grandes écailles	92
Saloptia powelli	OOW	Golden grouper	Mérou d'or	93
Plectropomus leopardus	EMO	Leopard coralgrouper	Saumonée léopard	94
Plectropomus laevis	EML	Blacksaddled coralgrouper	Mérou sellé	95
Plectropomus oligacanthus	EMW	Highfin coralgrouper	Mérou-loche cacatois	96
Plectropomus areolatus	EME	Squaretail coralgrouper	Mérou queue carrée	97
Variola albimarginata	VRA	White-edged lyretail	Croissant queue blanche	98
Variola louti	VRL	Yellow-edged lyretail	Croissant queue jaune	99

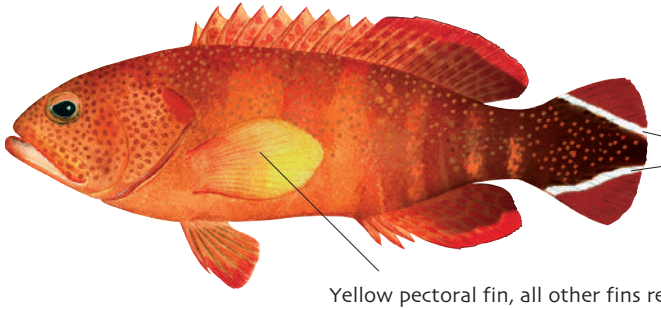
Cephalopholis urodeta

CWU

1–110 m



English: Darkfin hind
French: Vieille aile noire
Japanese: Nijihata
Local:



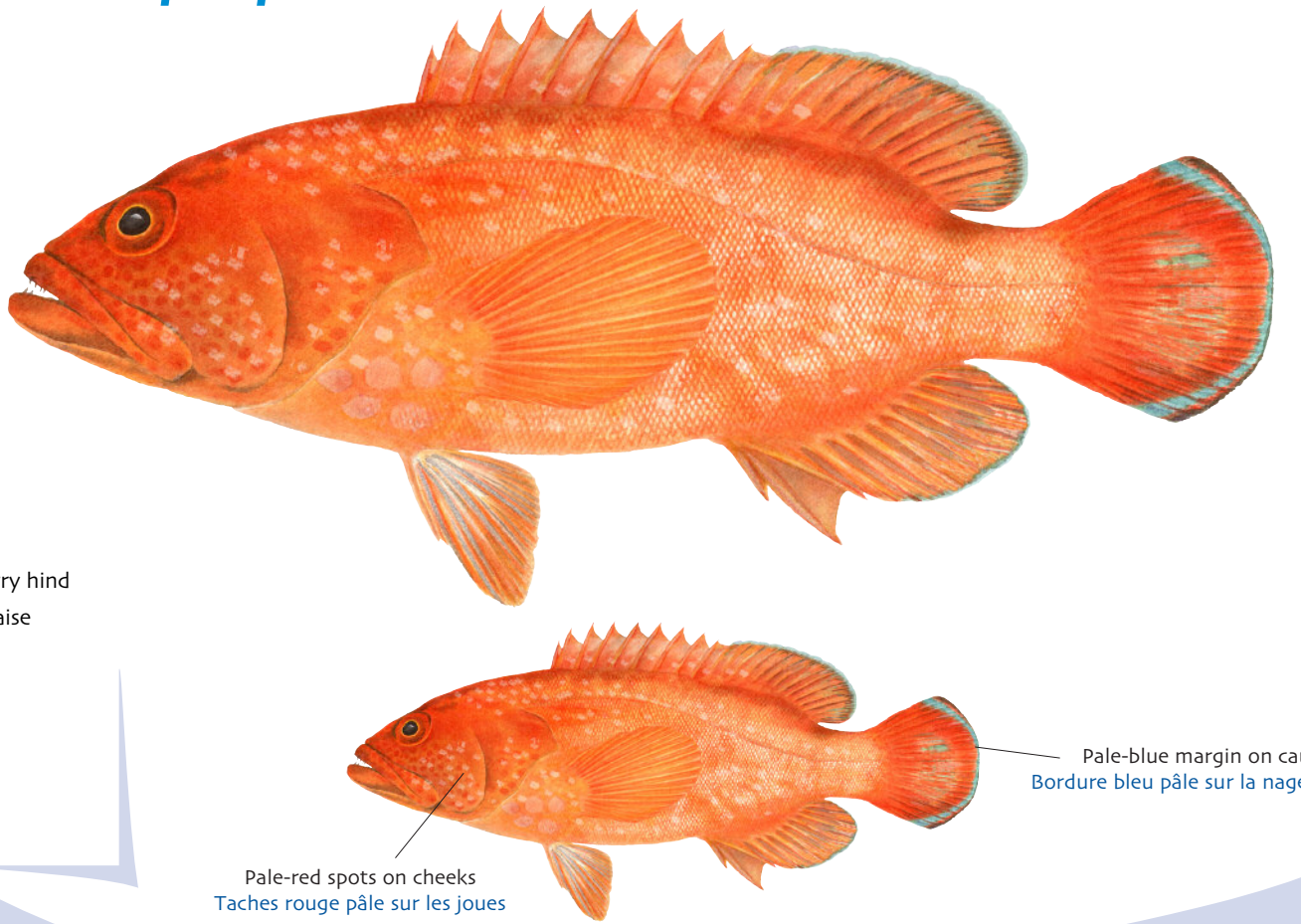
Distinct white stripes across caudal fin
Traits obliques blancs caractéristiques sur la nageoire caudale

Yellow pectoral fin, all other fins red
Nageoire pectorale jaune, les autres nageoires étant rouges

Cephalopholis spiloparaea

CWR

15–110 m

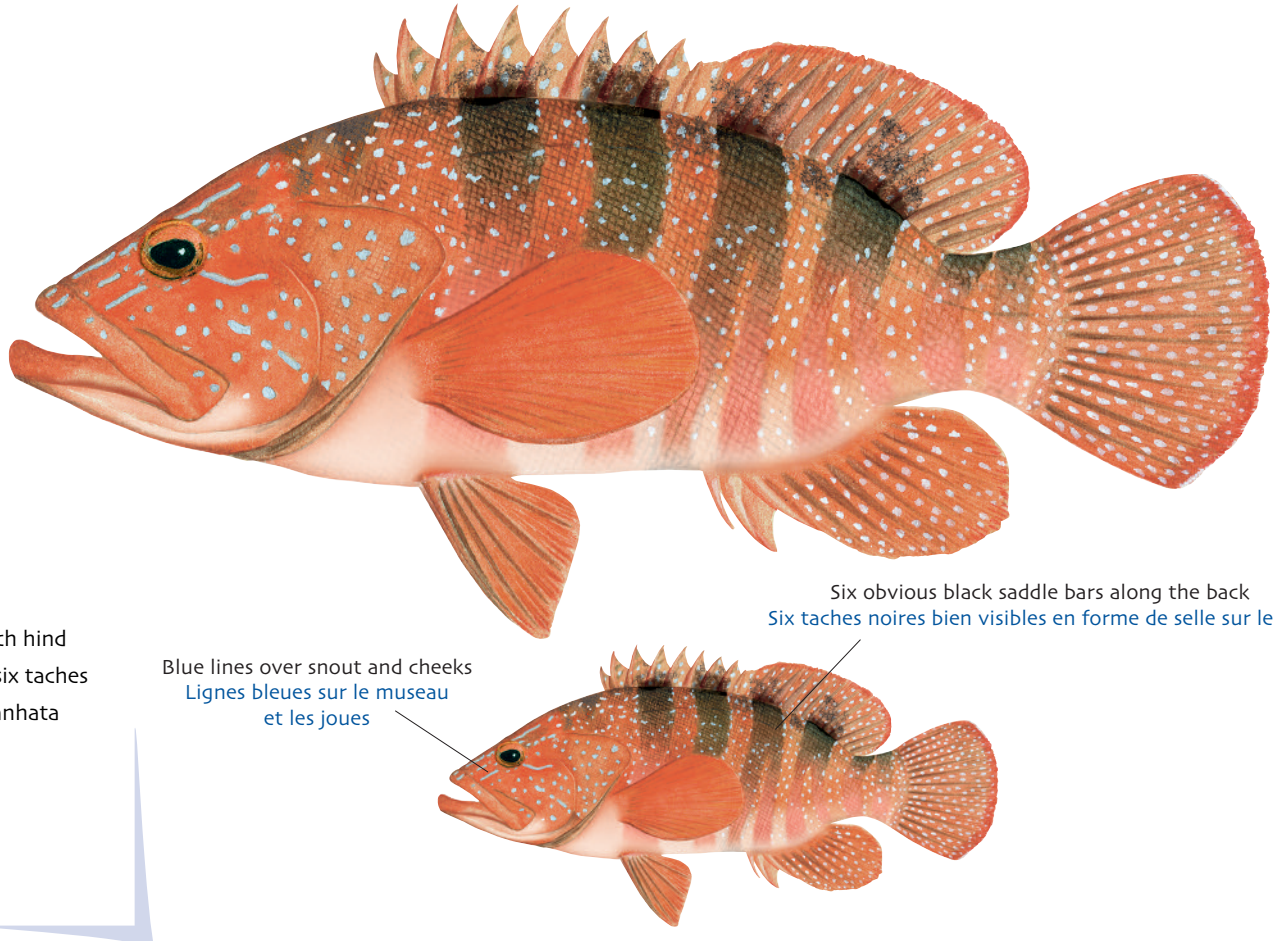


English: Strawberry hind
French: Vieille fraise
Japanese: Akahana
Local:

Cephalopholis sexmaculata

CFX

10–150 m



English: Sixblotch hind
French: Vieille six taches
Japanese: Kokuhanhata
Local:

Cephalopholis miniata

CFI

2–150 m

English: Coral hind
French: Vieille de corail
Japanese: Yukatahata
Local:

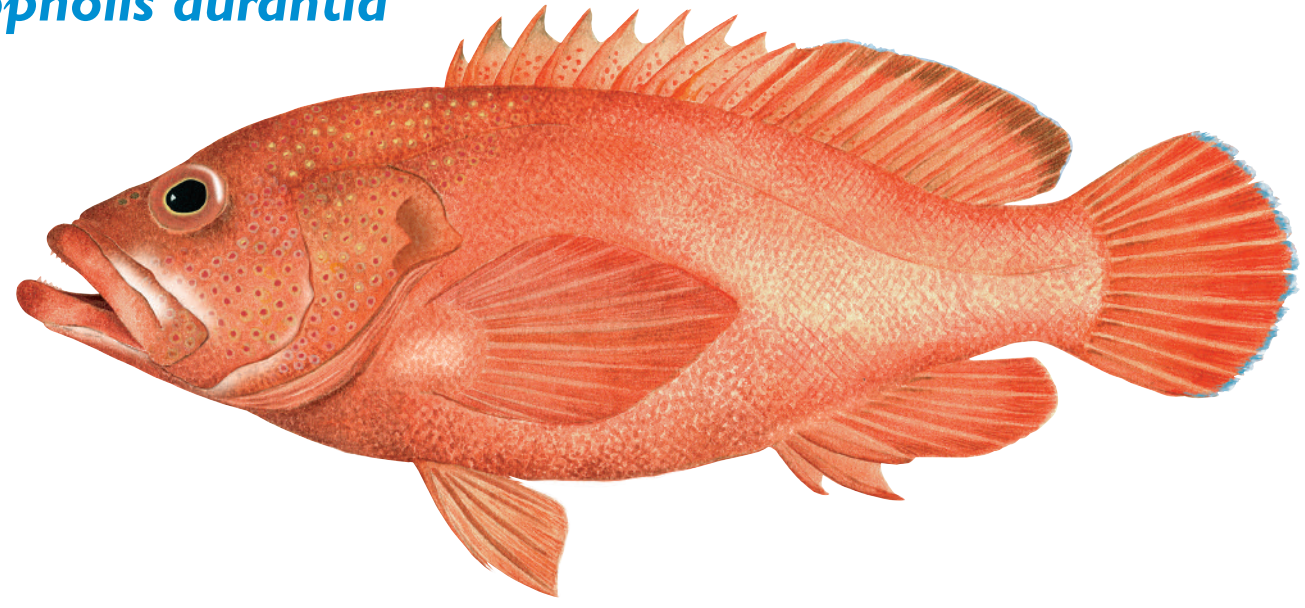
Red body covered with bright-blue spots
except for pectoral and pelvic fins
Corps rouge couvert de taches bleu vif,
excepté sur les nageoires pectorale et pelvienne

Narrow blue margin on soft dorsal,
anal and caudal fins
Nageoires dorsale à rayons mous,
anale et caudale bordées
d'un fin liseré bleu

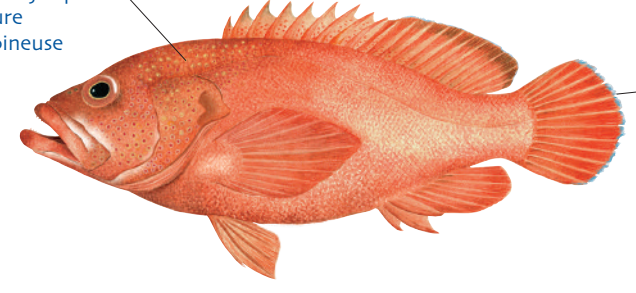
Cephalopholis aurantia

CFZ

20–250 m



Small red or yellow dots on head and back to end of spiny dorsal fin
Petits points rouges ou jaunes sur la tête et le dos, s'étendant jusqu'à l'extrémité postérieure de la nageoire dorsale épineuse



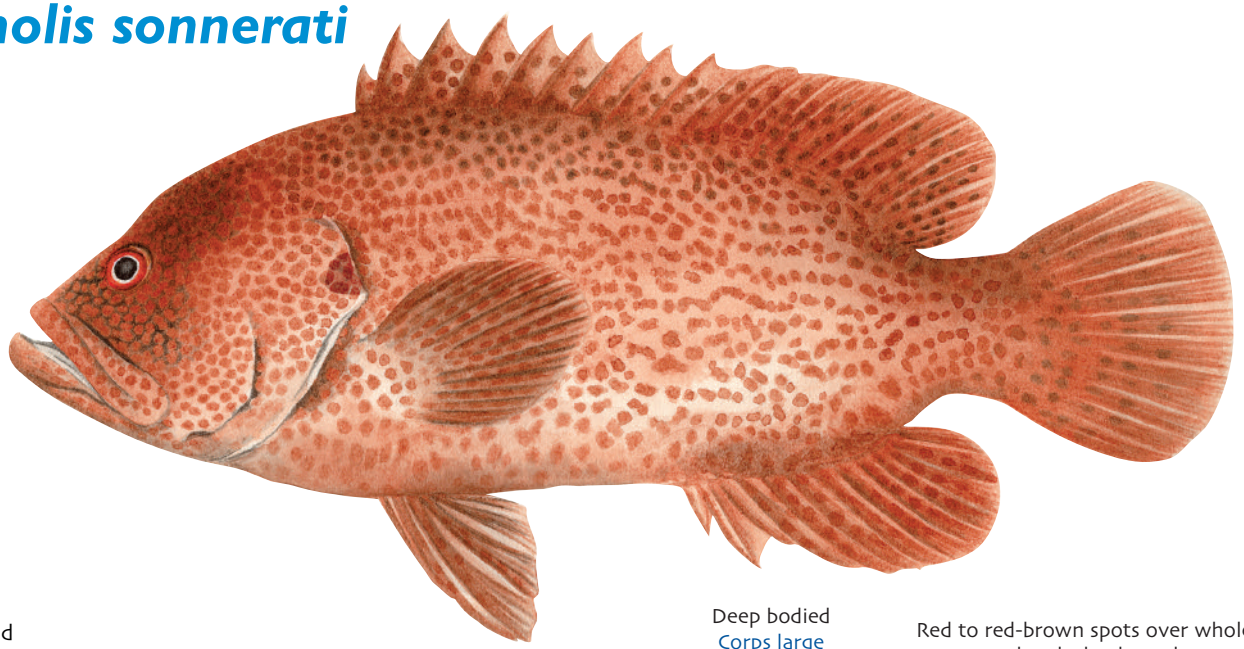
Pale-blue margin on caudal fin
Nageoire caudale bordée d'un liseré bleu pâle

English: Golden hind
French: Vieille dorée
Japanese: Hanahata
Local:

Cephalopholis sonnerati

EFT

10–150 m



English: Tomato hind
French: Vieille ananas
Japanese: Azahata
Local:

Large darker spot may be present on upper gill cover
Parfois, tache plus foncée sur la partie supérieure de l'opercule

Deep bodied
Corps large

Red to red-brown spots over whole body, more distinct on head, cheeks and upper front of body
Corps recouvert de taches marron à rouge-brun, plus visibles sur la tête, les joues et la partie supérieure avant du corps

Cephalopholis igarashiensis

CWI

80–250 m

English: Garish hind
French: Vieille voyante
Japanese: Shimahata
Local:

Cephalopholis argus

CFF

1–110 m

English: Peacock hind

French: Vieille la prude

Japanese: Aonomehata

Hawaiian: Roi, Peacock grouper

Local:

Epinephelus amblycephalus

EFY

80–130 m

Seven broad dark bands on head and body extending onto dorsal fin with small black spots on dorsal parts of bands, mainly along edges
Sept larges bandes verticales sombres sur la tête et le corps, s'étendant sur la nageoire dorsale, avec des petites taches noires sur la partie supérieure des bandes et surtout le long des bords

Caudal fin rounded
Nageoire caudale arrondie

English: Banded grouper
French: Mérou bande
Japanese: Kokuten-aohata
Local:

Epinephelus sexfasciatus

EFX

10–110 m

English: Sixbar grouper
French: Mérou six raies
Japanese: Kokuten-hirehata
Local:

Six dark vertical bands across body
Six bandes verticales sombres sur le corps

Caudal fin rounded
Nageoire caudale arrondie

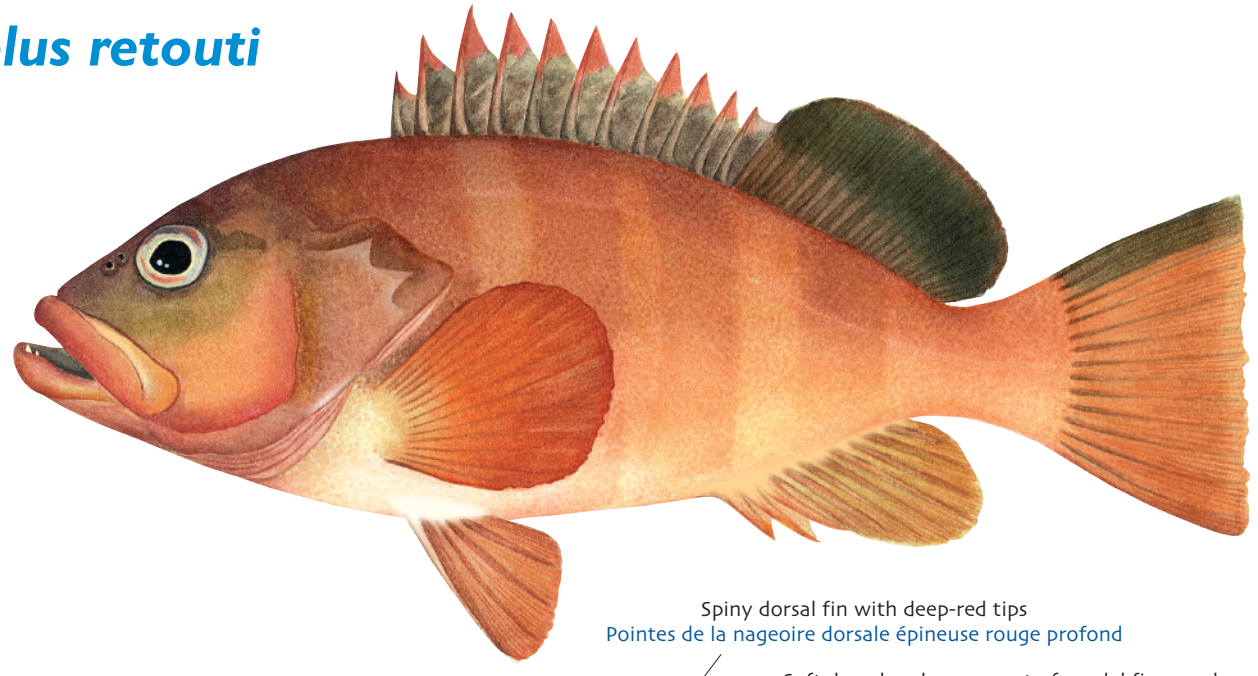
Pectoral fin orange
Nageoire pectorale orange

Dark spots on soft dorsal, caudal and anal fins
Taches sombres sur les nageoires dorsale à rayons mous, caudale et anale

Epinephelus retouti

EWR

40–220 m



Spiny dorsal fin with deep-red tips
Pointes de la nageoire dorsale épineuse rouge profond

Soft dorsal and upper part of caudal fin grey-brown
Nageoire dorsale à rayons mous et partie supérieure de la nageoire caudale gris-brun

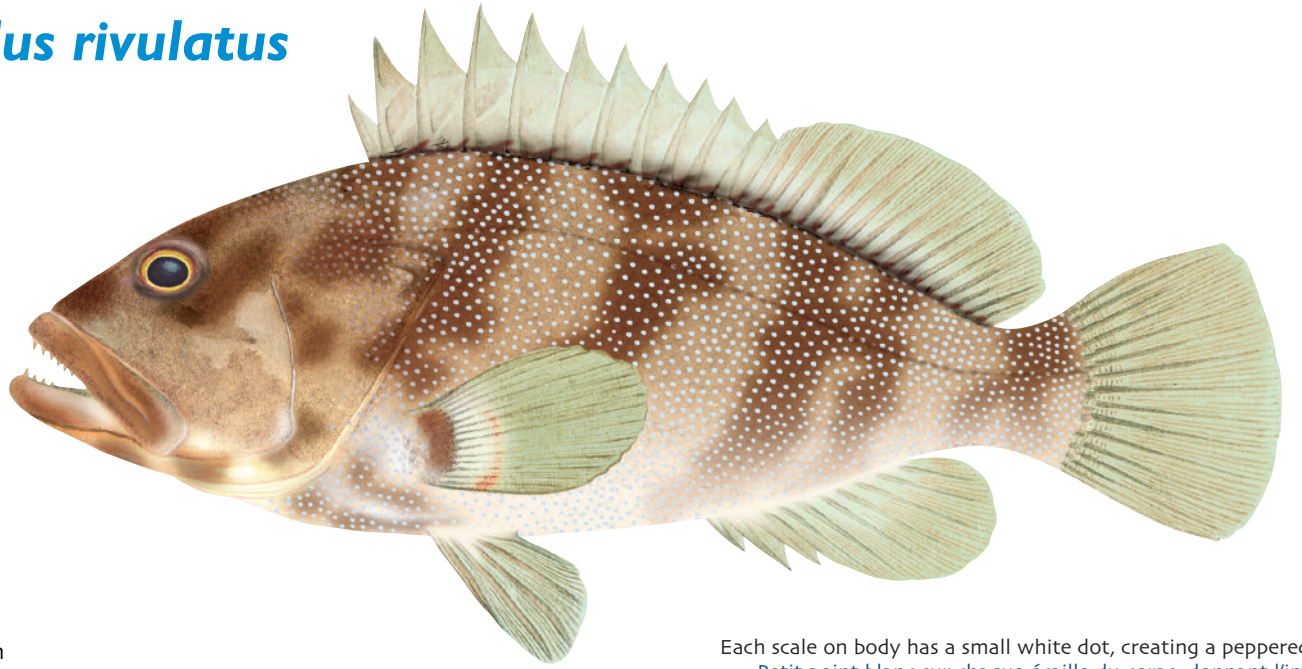
Caudal fin truncate
Nageoire caudale tronquée

English: Red-tipped grouper
French: Mérou à bout rouge
Japanese: Akahata-modoki
Local:

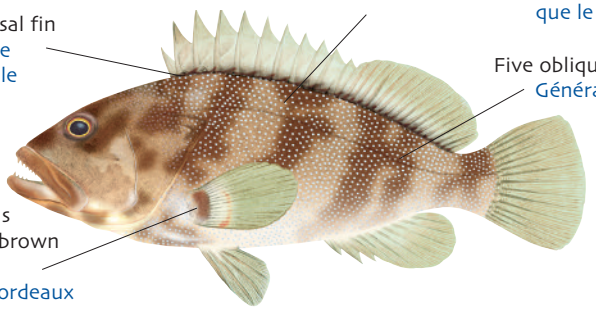
Epinephelus rivulatus

10–150 m

EPV



English: Halfmoon grouper
French: Mérou demi-lune
Japanese: Shimofurihata
Local:



Each scale on body has a small white dot, creating a peppered appearance
Petit point blanc sur chaque écaille du corps, donnant l'impression que le corps est chiné

Black line at base of dorsal fin
Ligne noire à la base de la nageoire dorsale

Five oblique irregular dark-brown bands usually on body
Généralement, cinq bandes obliques irrégulières marron foncé sur le corps

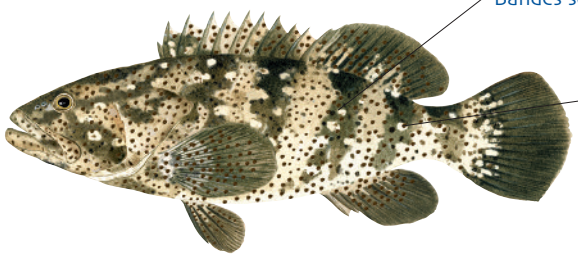
Base of pectoral fin has a large dark-red to reddish-brown semicircular spot
Large tache semi-circulaire bordeaux à rouge-brun à la base de la nageoire pectorale

Epinephelus malabaricus

MAR

1–150 m

English: Malabar grouper
French: Mérou malabare
Japanese: Yaitohata
Local:



Dark bands (5–6) on body
Bandes sombres (5 à 6) sur le corps

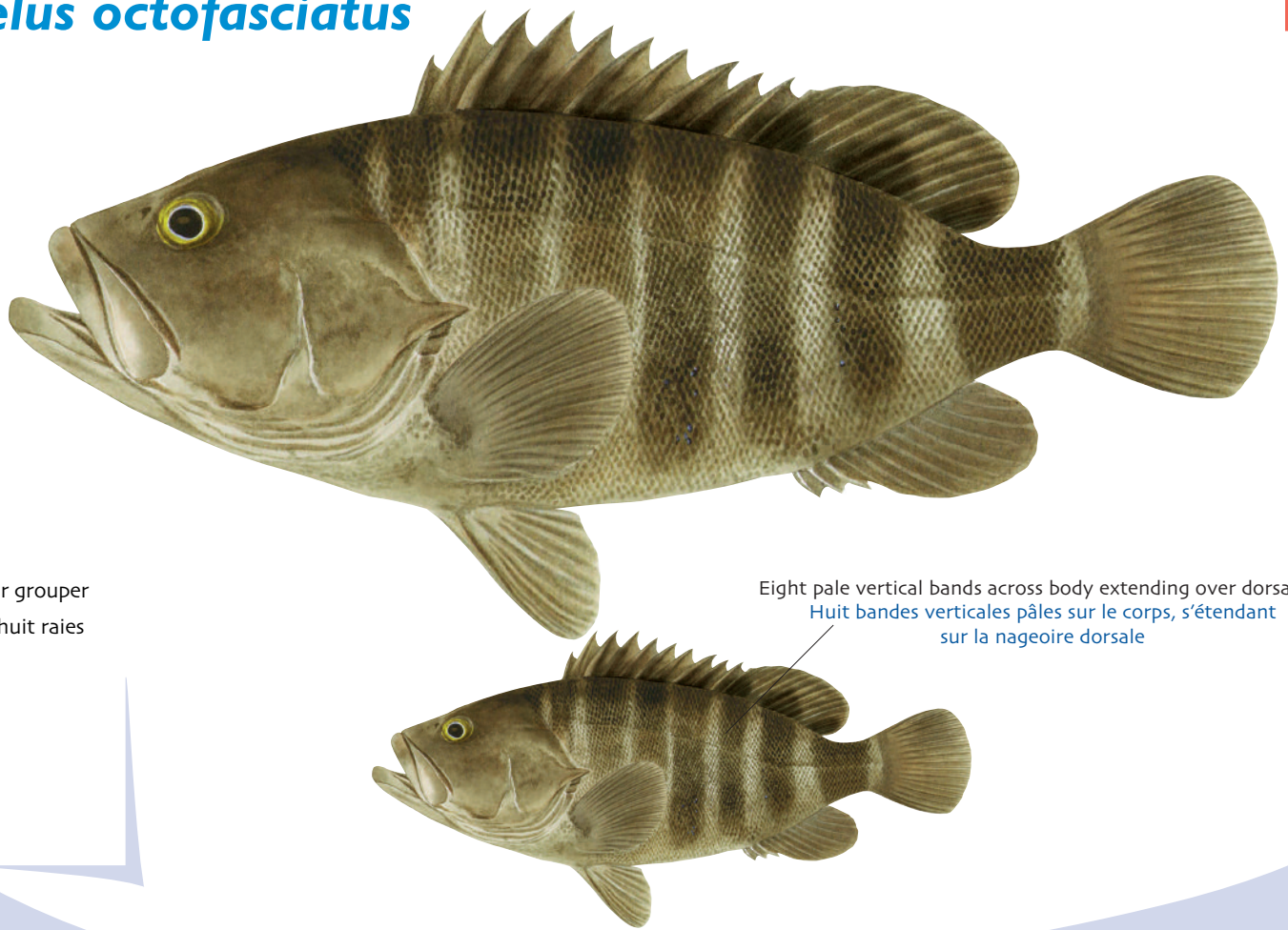
Scattered whitish splotches
Taches blanchâtres éparses

Head, body and often fins have small well-separated black spots
Petites taches noires bien séparées sur la tête, le corps et souvent les nageoires

Epinephelus octofasciatus

EWO

80–300 m



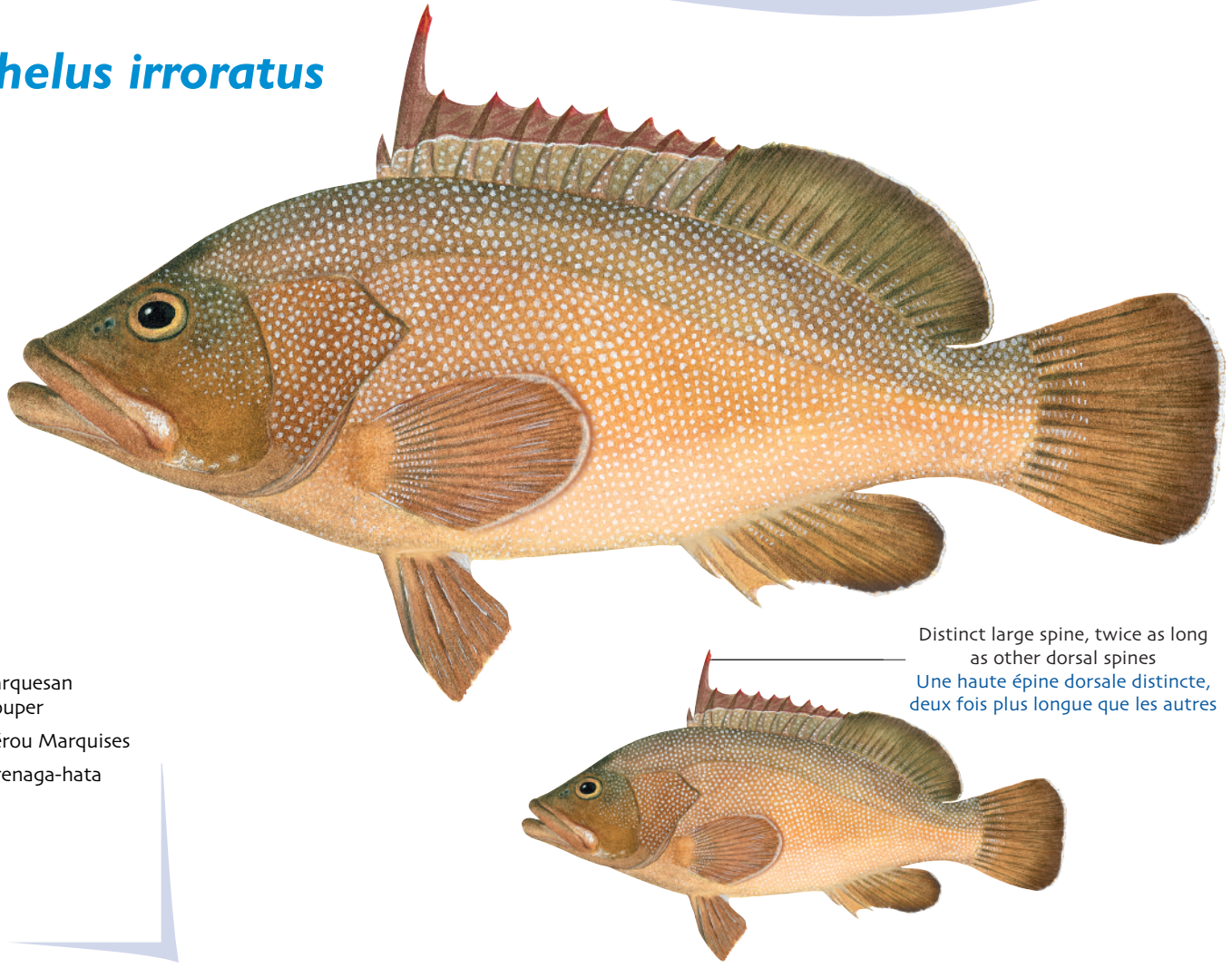
Eight pale vertical bands across body extending over dorsal fin
Huit bandes verticales pâles sur le corps, s'étendant sur la nageoire dorsale

English: Eightbar grouper
French: Mérou huit raies
Japanese: Mahata
Local:

Epinephelus irroratus

5–110 m

EWI

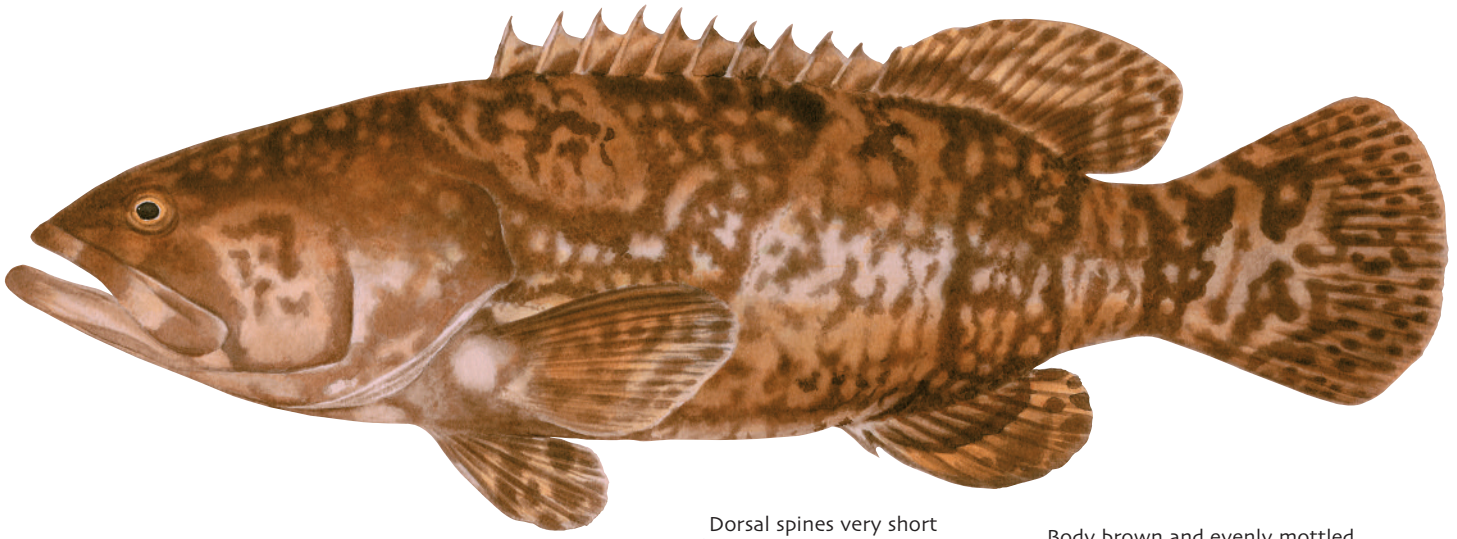


English: Marquesan grouper
French: Mérou Marquises
Japanese: Hirenaga-hata
Local:

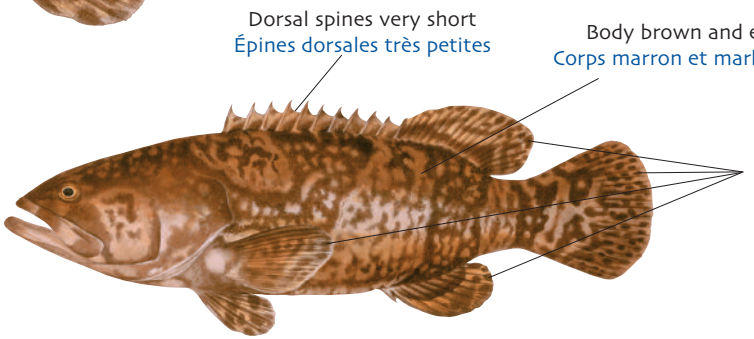
Epinephelus lanceolatus

EEN

1–100 m



English: Giant grouper
French: Mérou lancéolé
Japanese: Tamakai
Local:



Young adults may have whitish blotches and greenish dorsal and caudal fin edges
Les nageoires dorsale et caudale peuvent présenter des taches blanchâtres et une bordure verdâtre chez les jeunes adultes

Epinephelus quernus

EEQ

20–380 m

Body greenish to dark brown
Corps verdâtre à brun foncé

Eight lines of white spots on juveniles, becoming less distinct on adults
Huit rangées de taches blanches chez les juvéniles, devenant moins visibles chez les adultes

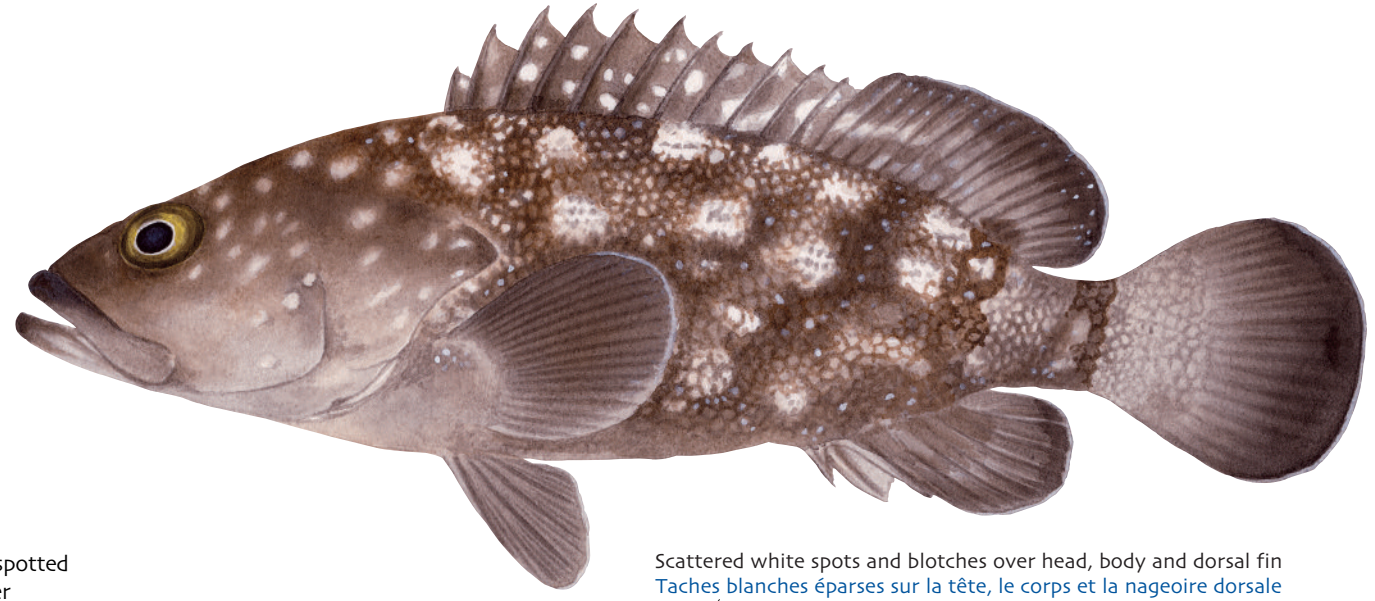
English: Hawaiian grouper
French: Mérou hawaiien
Hawaiian: Seale's grouper, Hapu'upu'u
Local:

Note: Only recorded in Hawaii's Johnston Islands
Note : Poisson observé uniquement dans les Îles Johnston (Hawaii)

Epinephelus caeruleopunctatus

EWC

1–110 m

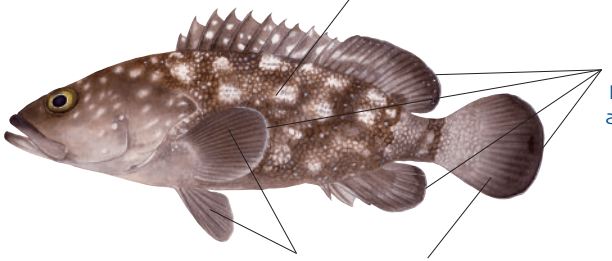


English: Whitespotted grouper

French: Mérou à taches blanches

Japanese: Hakuten-hata

Local:



Epinephelus fuscoguttatus

EWF

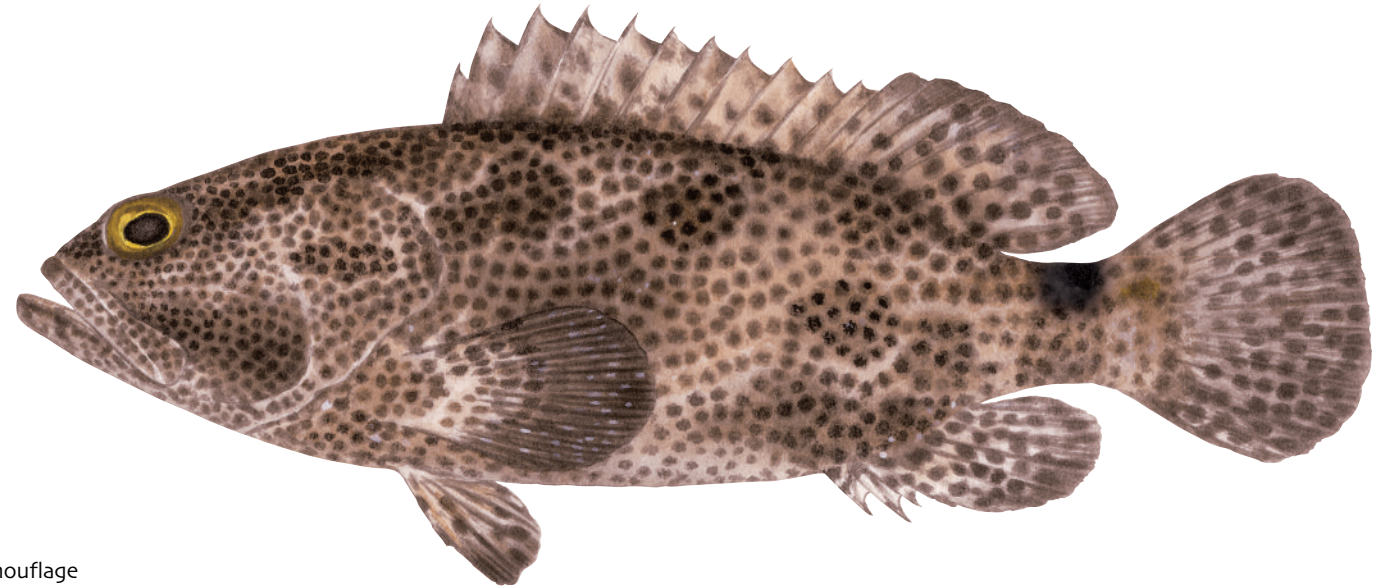
1–110 m

English: Brown-marbled grouper
French: Mérou marron
Japanese: Aka-madarahata
Local:

Epinephelus polyphekadion

EEK

1–120 m

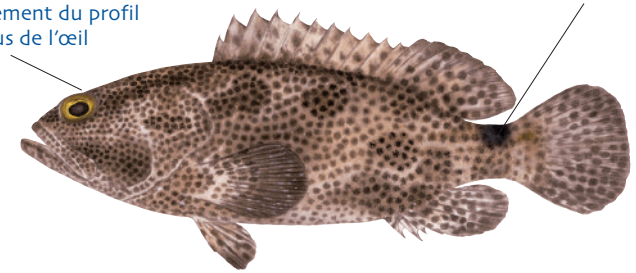


English: Camouflage grouper

French: Mérou camouflage

Japanese: Madarahata

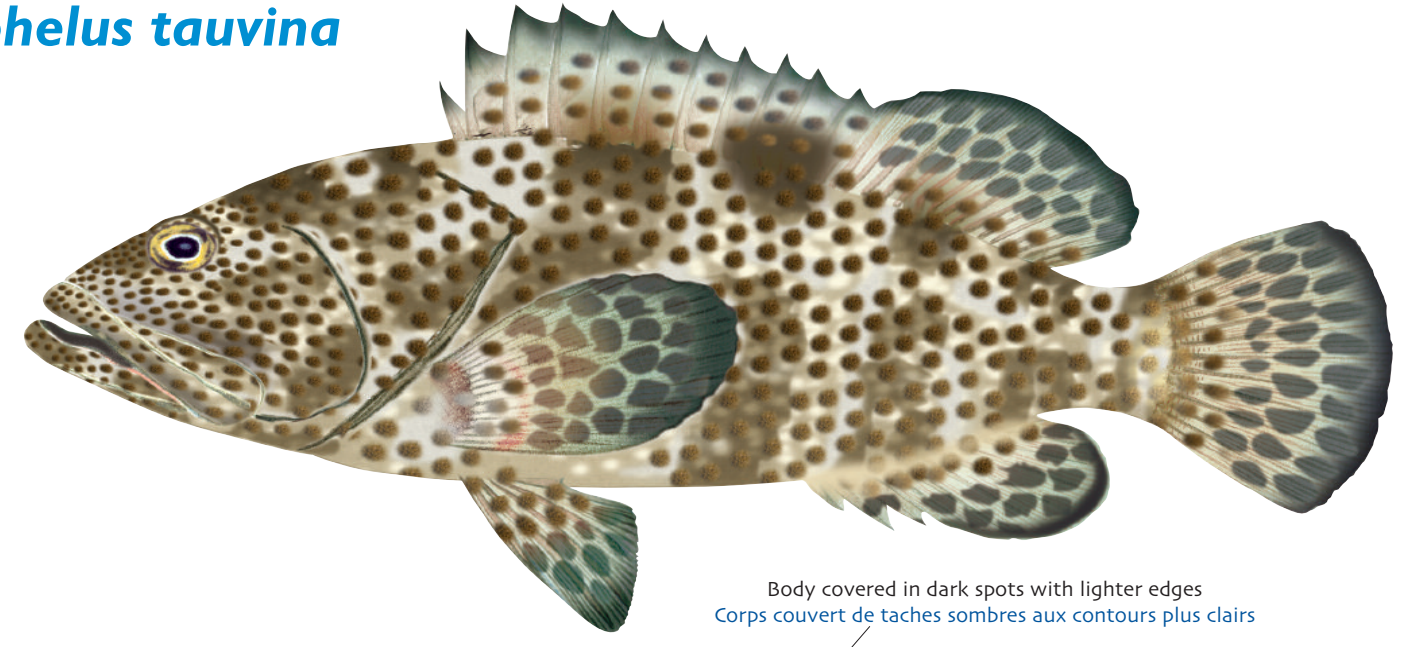
Local:



Epinephelus tauvina

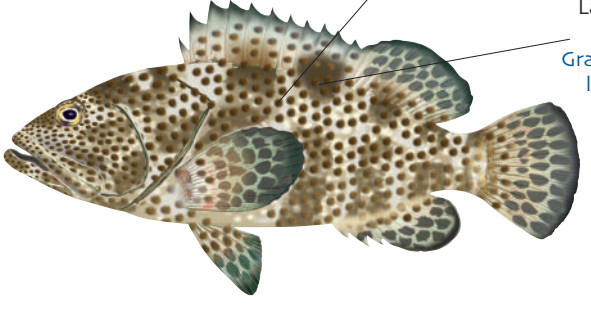
EPT

1–110 m



Body covered in dark spots with lighter edges
Corps couvert de taches sombres aux contours plus clairs

Large dark blotch in centre of back over base of last four dorsal spines
Grande tache sombre au milieu du dos, couvrant la base des quatre dernières épines dorsales

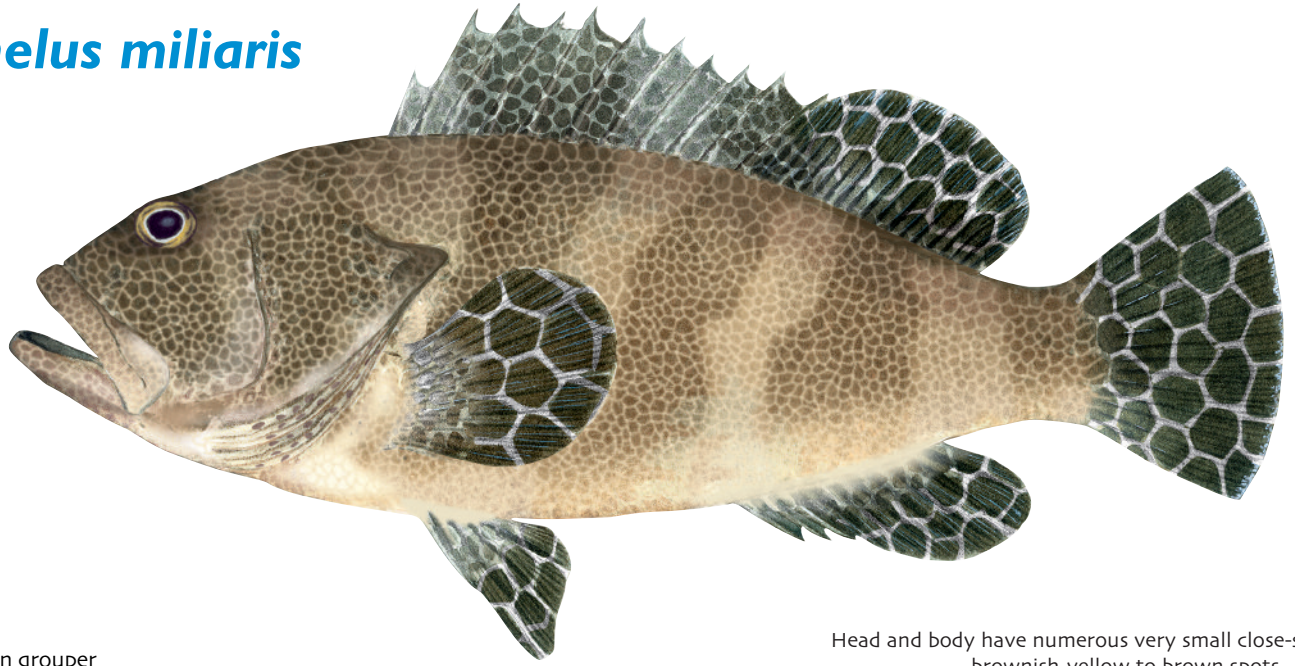


English: Greasy grouper
French: Mérou loutre
Japanese: Hitomihata
Local:

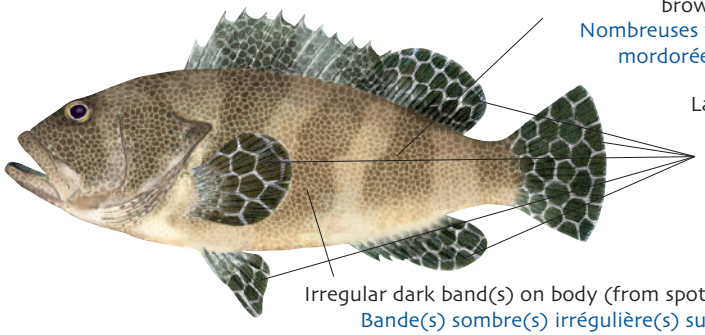
Epinephelus miliaris

1–200 m

EWM



English: Netfin grouper
French: Mérou abeille
Japanese: Hosekihata-modoki
Local:



Head and body have numerous very small close-set polygonal brownish-yellow to brown spots
Nombreuses toutes petites taches en nid d'abeille mordorées à brunes sur la tête et le corps

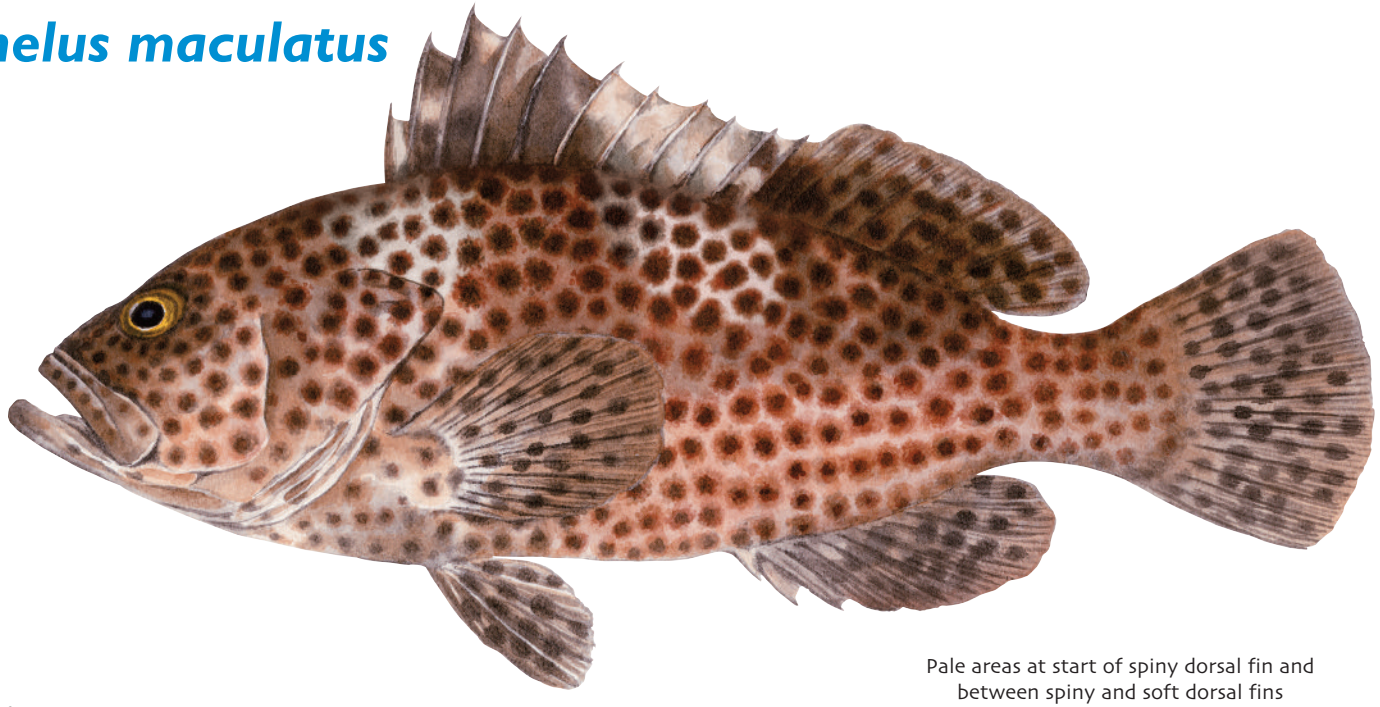
Largish black spots on soft dorsal, pectoral, pelvic, anal and caudal fins
Taches noires plus grandes sur les nageoires dorsale à rayons mous, pectorale, pelvienne, anale et caudale

Irregular dark band(s) on body (from spots being darker)
Bande(s) sombre(s) irrégulière(s) sur le corps (du fait que les taches s'assombrissent)

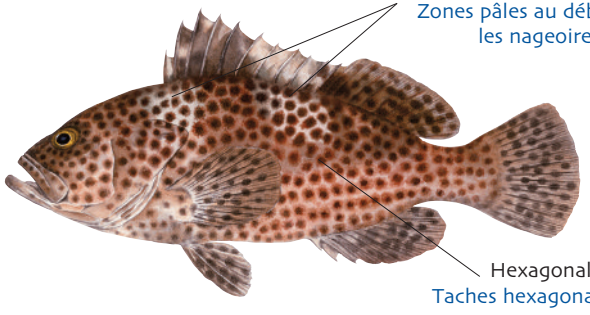
Epinephelus maculatus

EEC

2–160 m



English: Highfin grouper
French: Mérou haute voile
Japanese: Shirobuchihata
Local:



Epinephelus chlorostigma

EFH

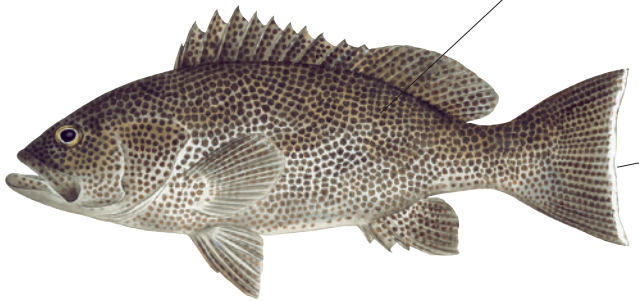
4–300 m

English: Brownspotted grouper

French: Mérou pintade

Japanese: Hosekihata

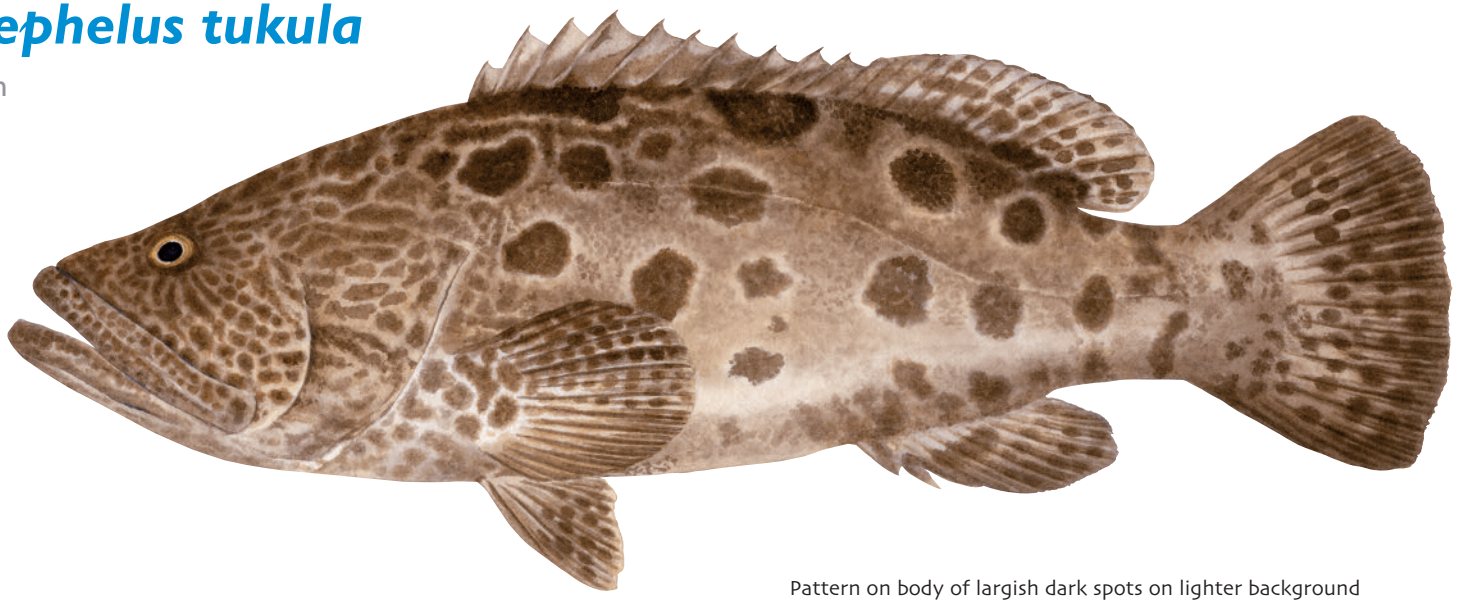
Local:



Epinephelus tukula

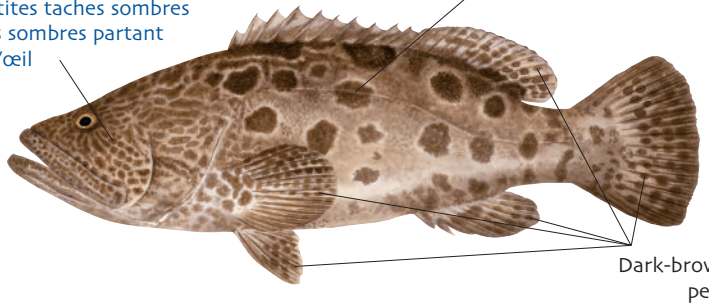
EWL

10–150 m



Head covered with small dark spots and short dark bands radiating from eye
Tête couverte de petites taches sombres et de courts traits sombres partant de l'œil

Pattern on body of largish dark spots on lighter background
Corps couvert de grandes taches sombres sur fond plus clair



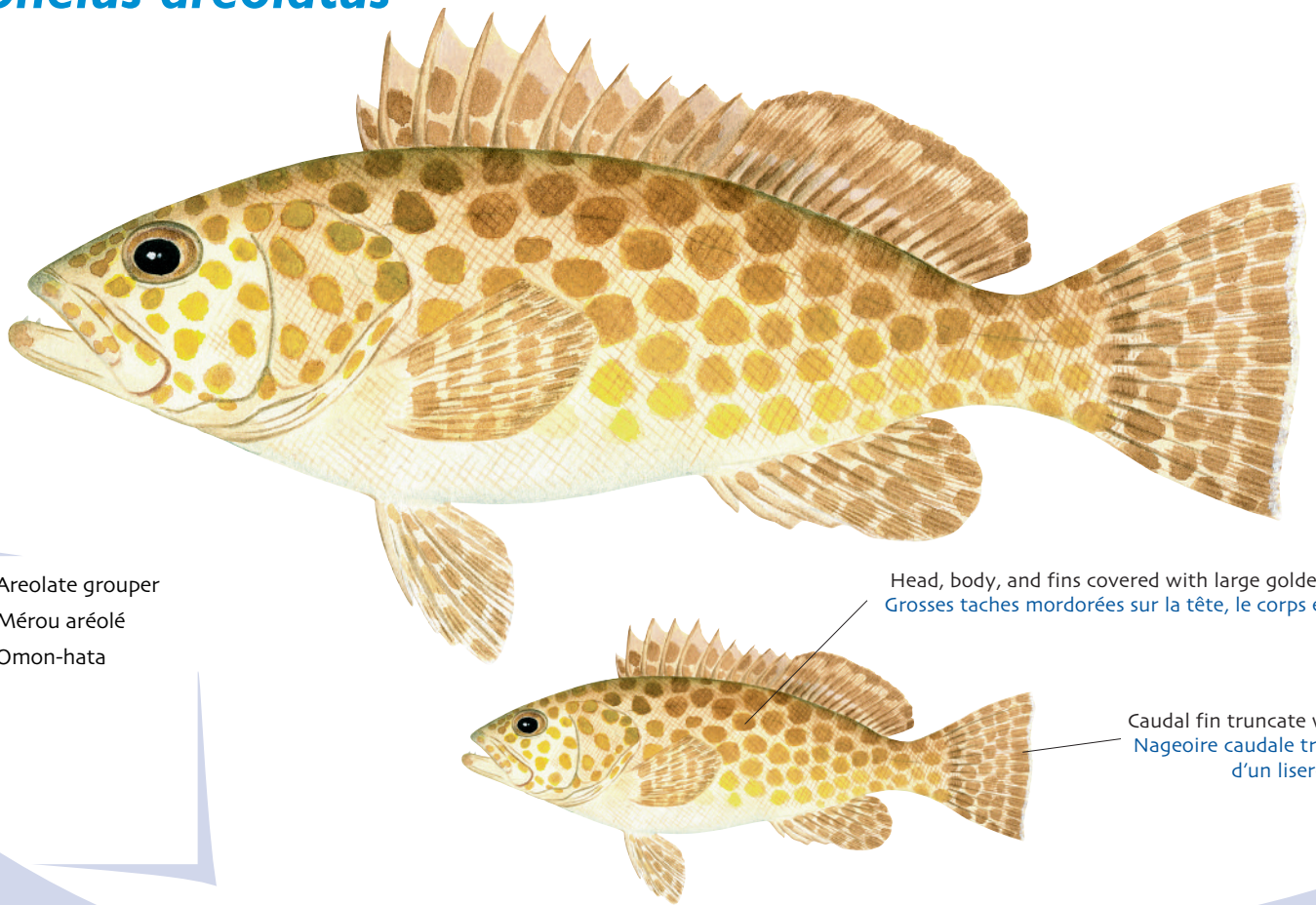
Dark-brown spots densely scattered on soft dorsal, pectoral, pelvic, anal and caudal fins
Nombreuses taches brun foncé éparpillées sur les nageoires dorsale à rayons mous, pectorale, pelvienne, anale et caudale

English: Potato grouper
French: Mérou patate
Japanese: Kasurihata
Local:

Epinephelus areolatus

EPR

5–200 m



English: Areolate grouper
French: Mérou aréolé
Japanese: Omon-hata
Local:

Cromileptes altivelis

MPV

1–110 m

English: Humpback grouper
French: Mérou bossu
Japanese: Sarasa-hata
Local:

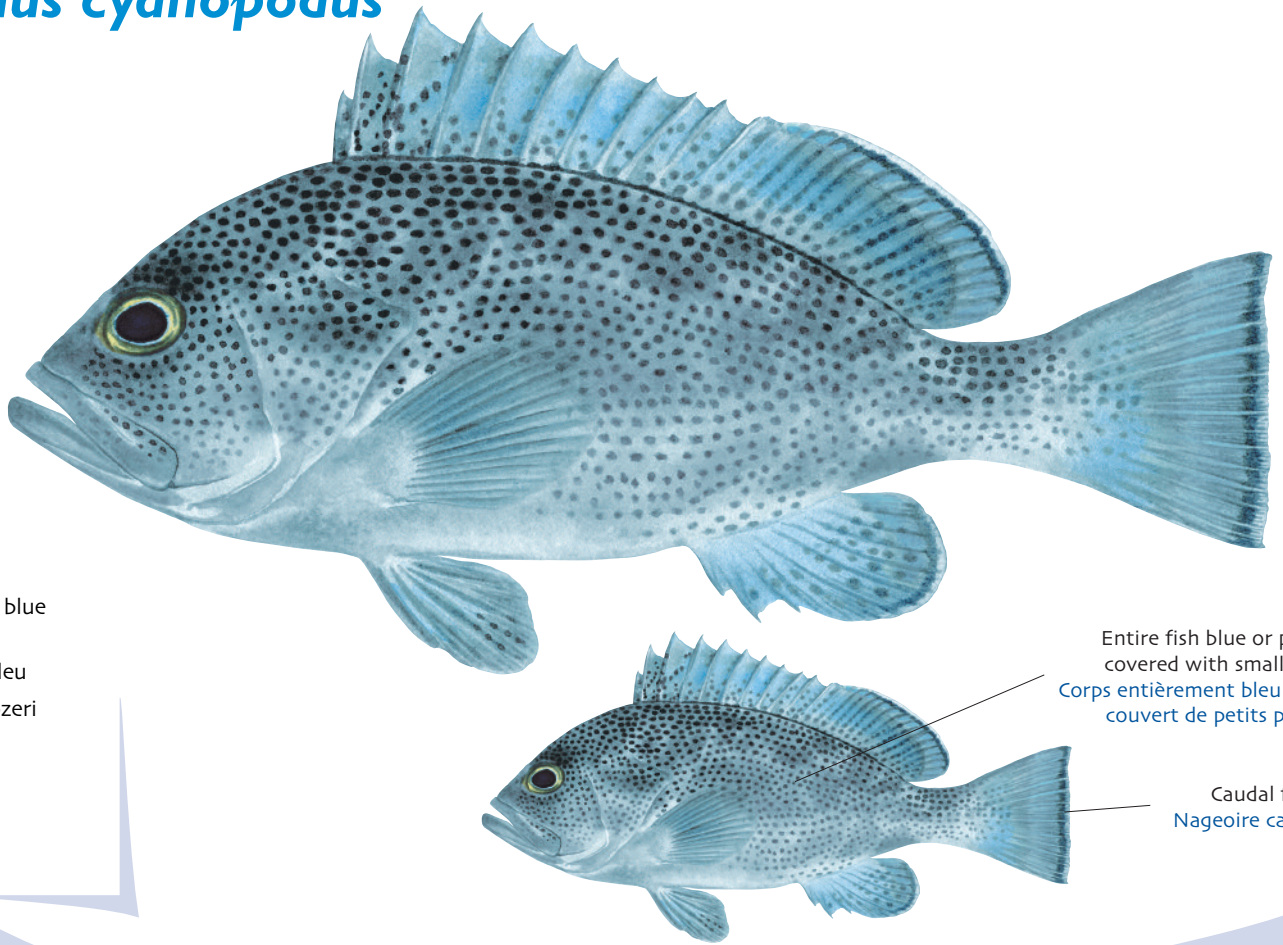
Upper head profile deeply concave
Partie supérieure de la tête très concave

Head, body, and fins coverd with round, dark-brown to black spots
Taches rondes brun foncé à noires sur la tête, le corps et les nageoires

Epinephelus cyanopodus

EPY

1–150 m

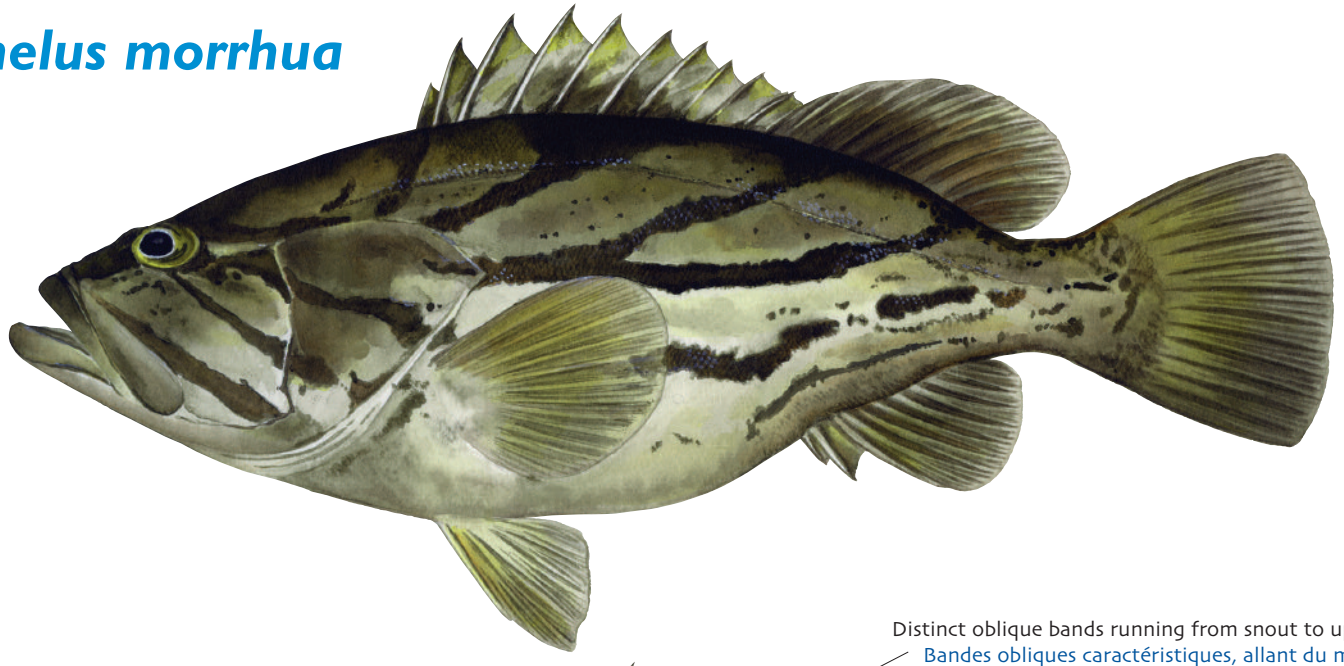


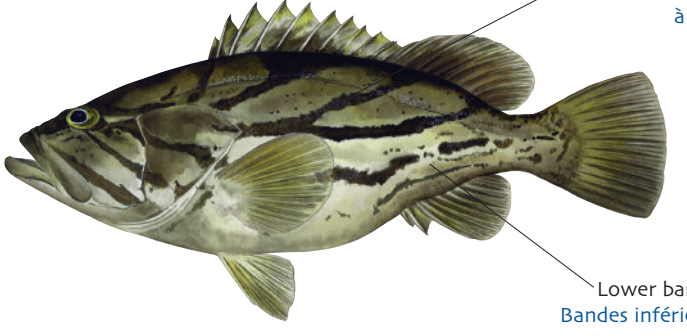
English: Speckled blue grouper
French: Mérou bleu
Japanese: Tsuchihozeri
Local:

Epinephelus morrhua

EEP

80–370 m





Distinct oblique bands running from snout to upper body
Bandes obliques caractéristiques, allant du museau à la partie supérieure du corps

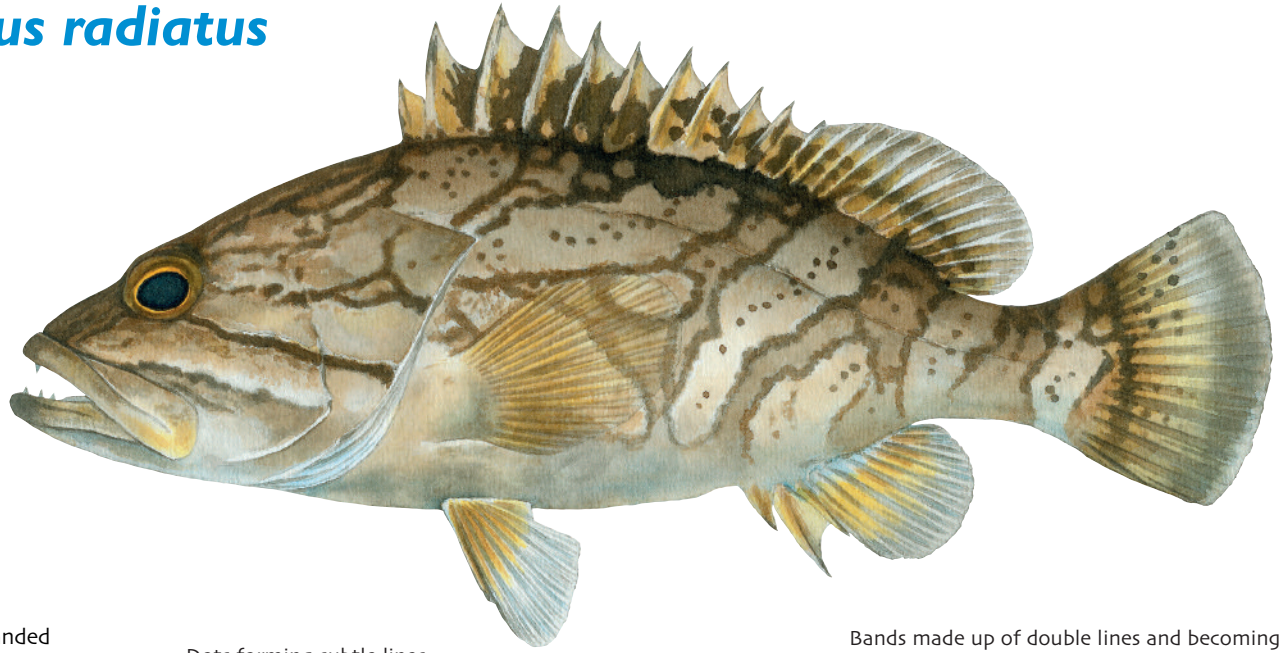
Lower bands break into lines and blotches
Bandes inférieures faisant des lignes et des taches

English: Comet grouper
French: Mérou comète
Japanese: Hokihata
Local:

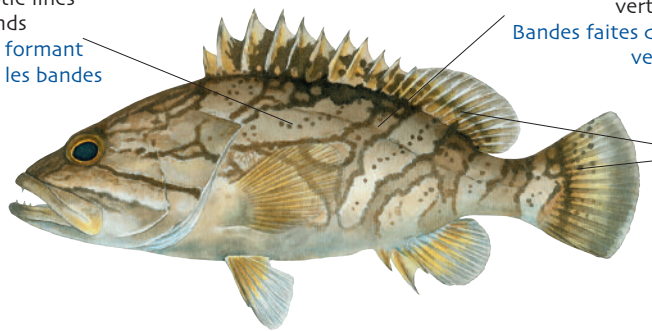
Epinephelus radiatus

EZR

80–390 m



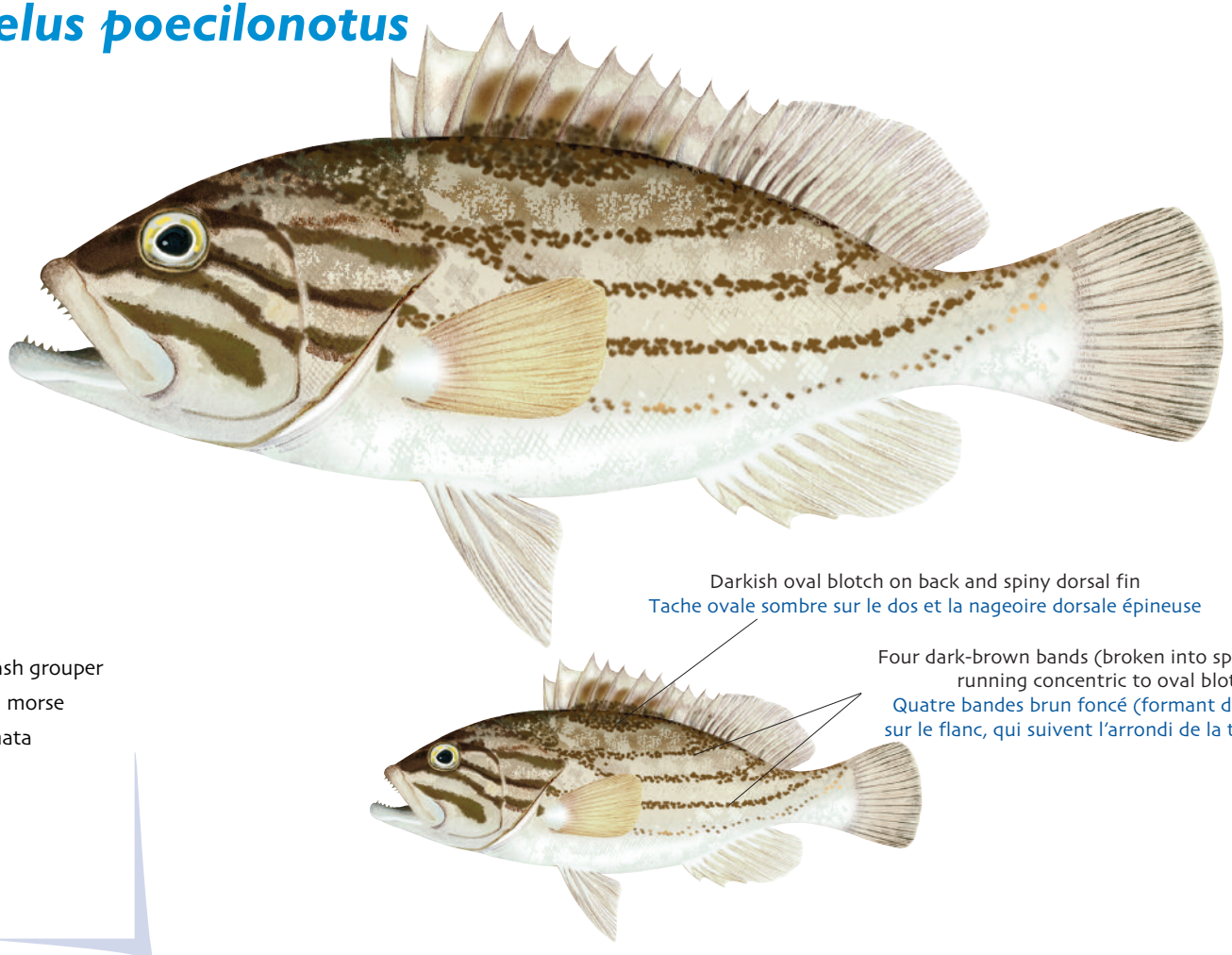
English: Oblique-banded grouper
French: Mérou zébré
Japanese: Kakehashihata
Local:



Epinephelus poecilonotus

EWP

45–375 m

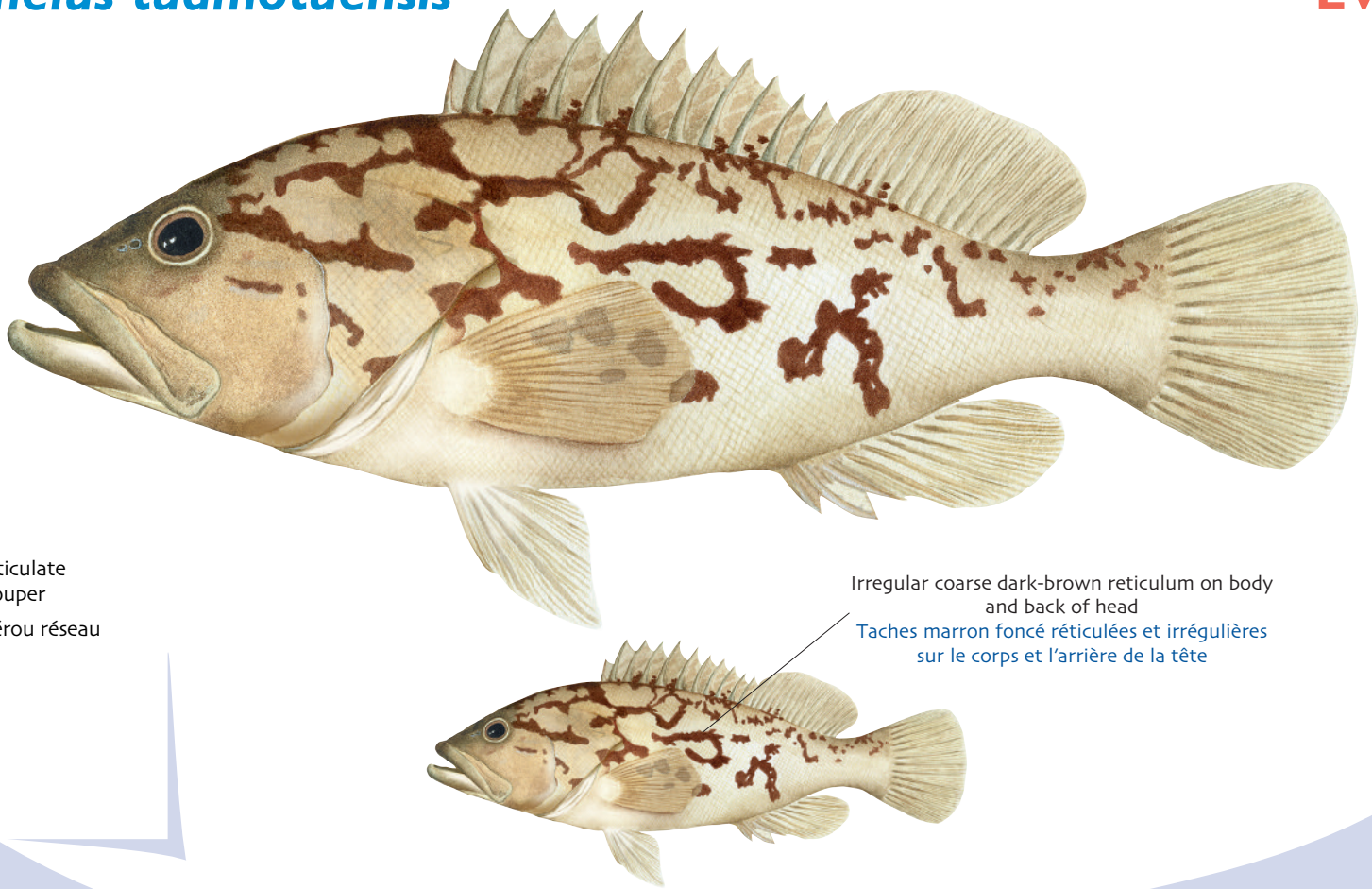


English: Dot-dash grouper
French: Mérou morse
Japanese: Iyagohata
Local:

Epinephelus tuamotuensis

EWT

120–250 m



English: Reticulate grouper

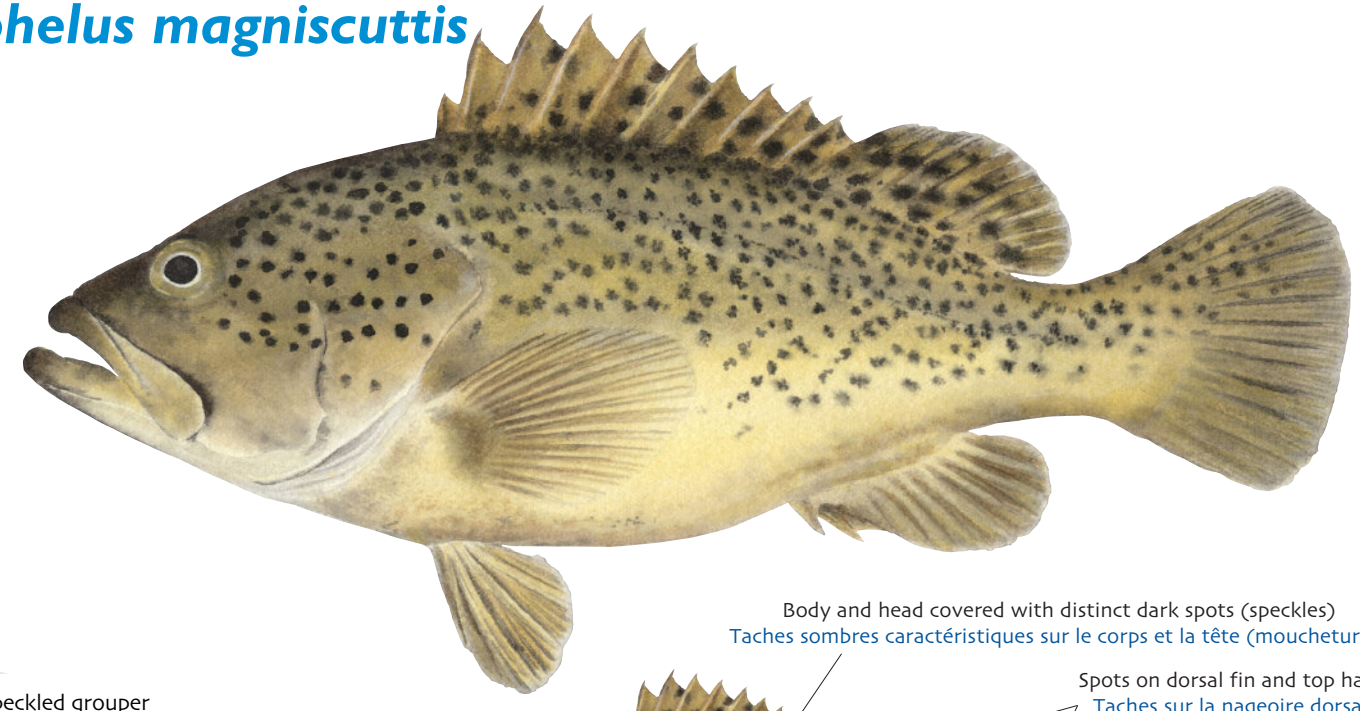
French: Mérou réseau

Local:

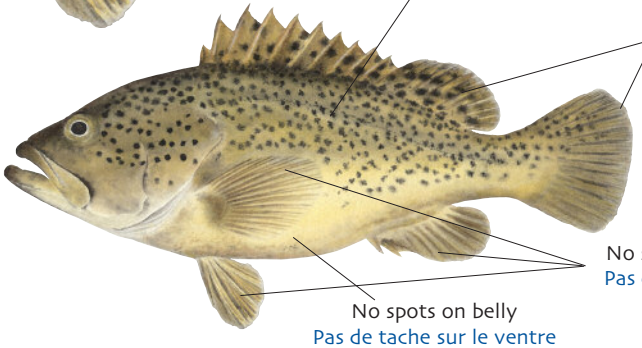
Epinephelus magniscuttis

EEJ

50–340 m



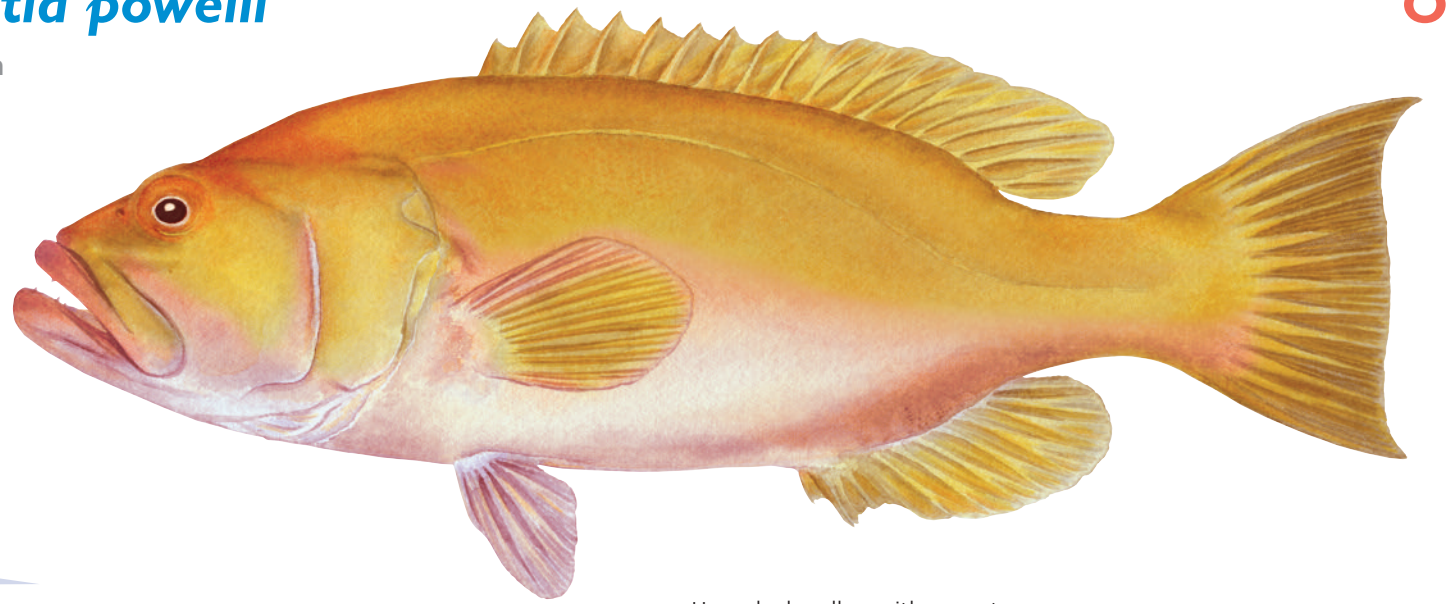
English: Speckled grouper
French: Mérou grandes écailles
Japanese: Tsuchi-hozeri
Local:



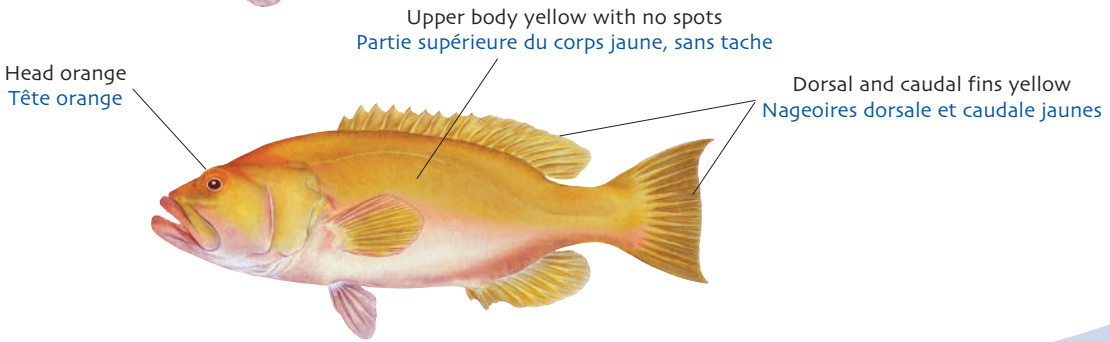
Saloptia powelli

OOW

140–370 m



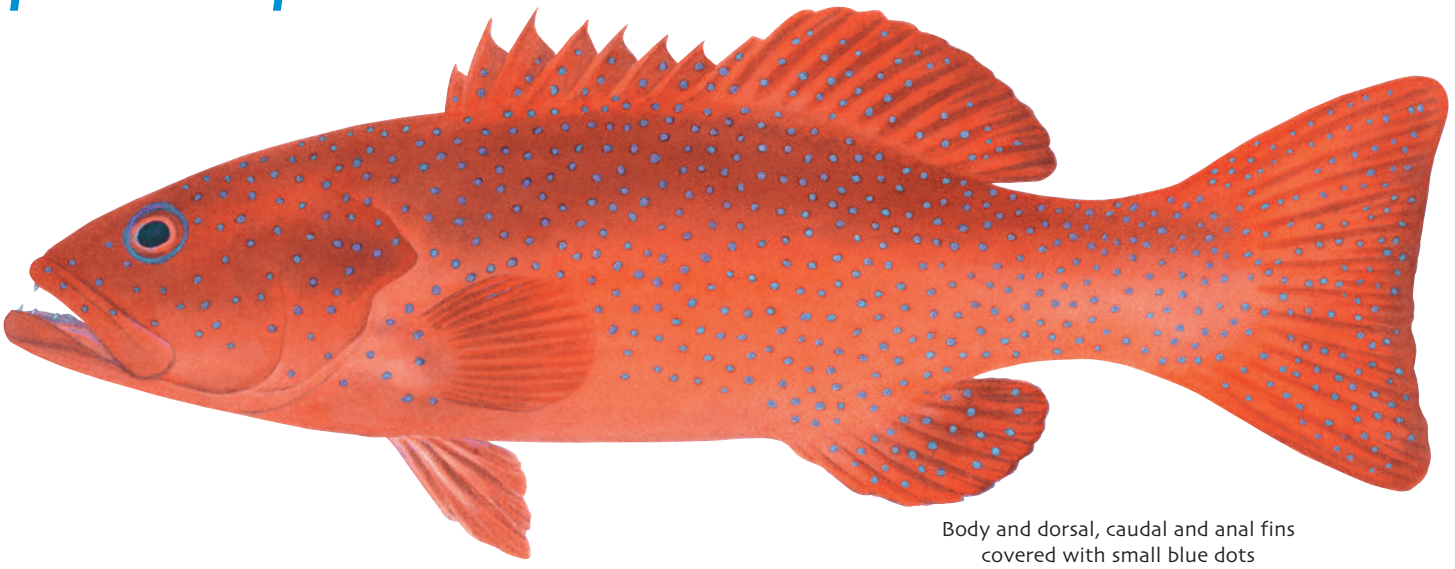
English: Golden grouper
French: Mérou d'or
Japanese: Yamabukihata
Local:

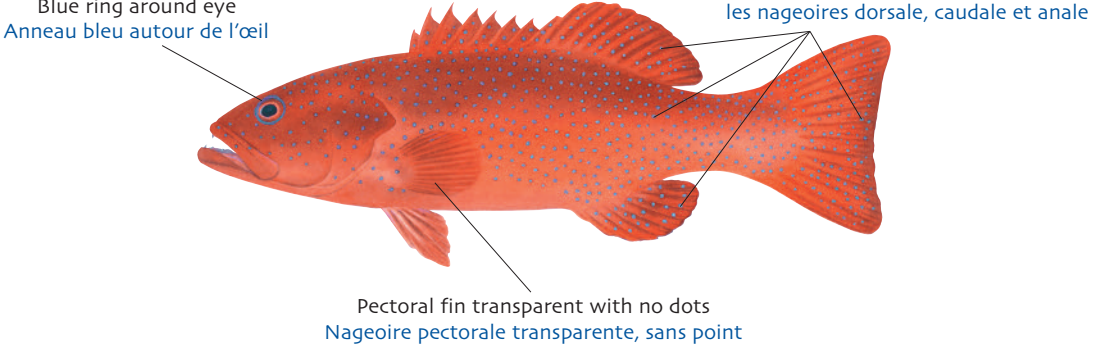


Plectropomus leopardus

EMO

3–120 m





English: Leopard coralgrouper

French: Saumonée léopard

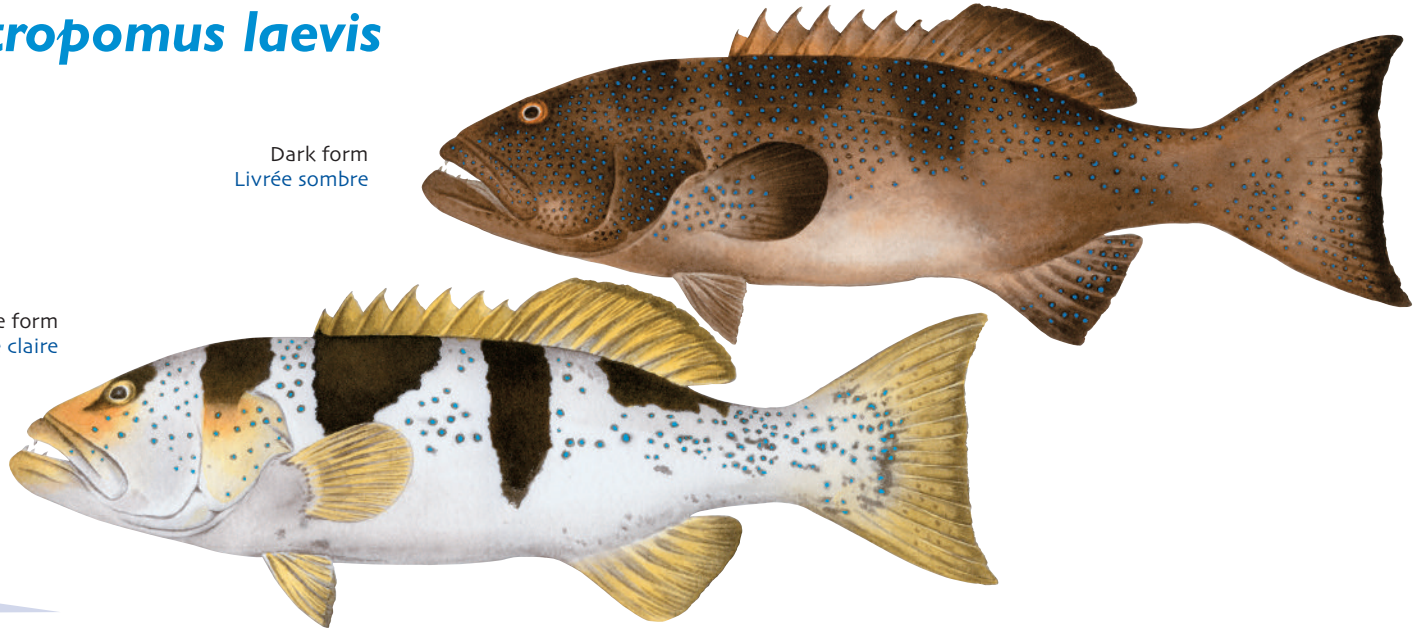
Japanese: Suji-ara

Local:

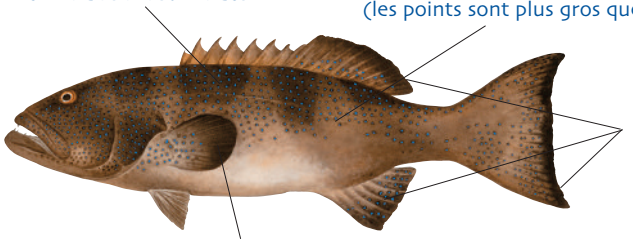
Plectropomus laevis

EML

3–120 m



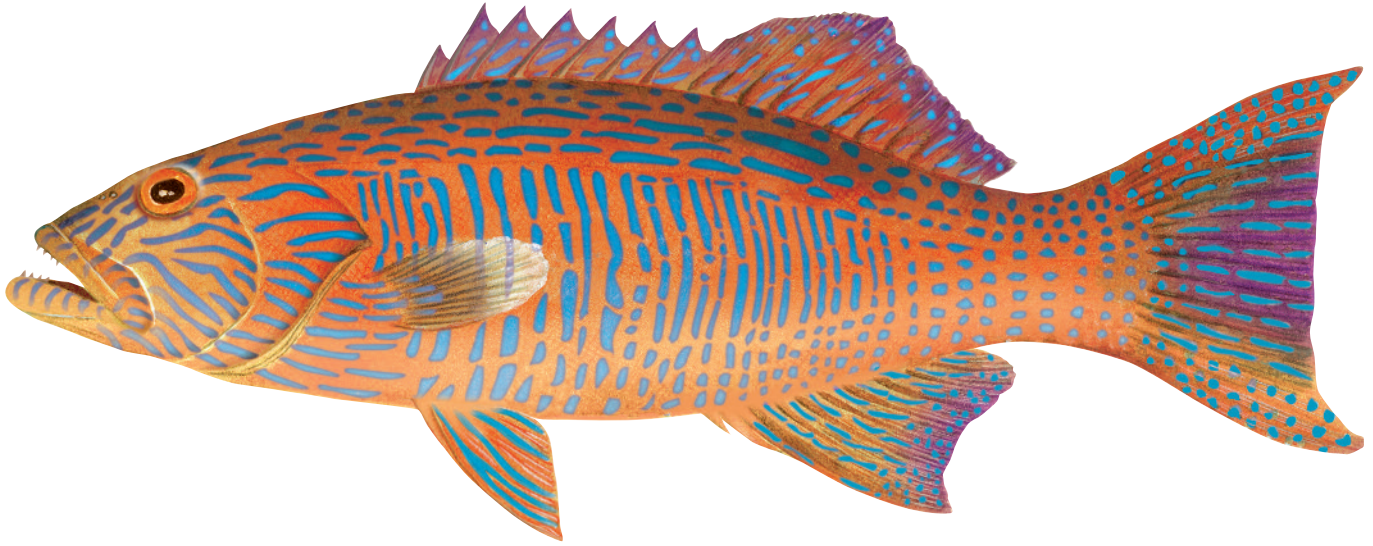
English: Blacksaddled coralgrouper
French: Mérou sellé
Japanese: Kokuhan-ara
Local:



Plectropomus oligacanthus

EMW

1–110 m



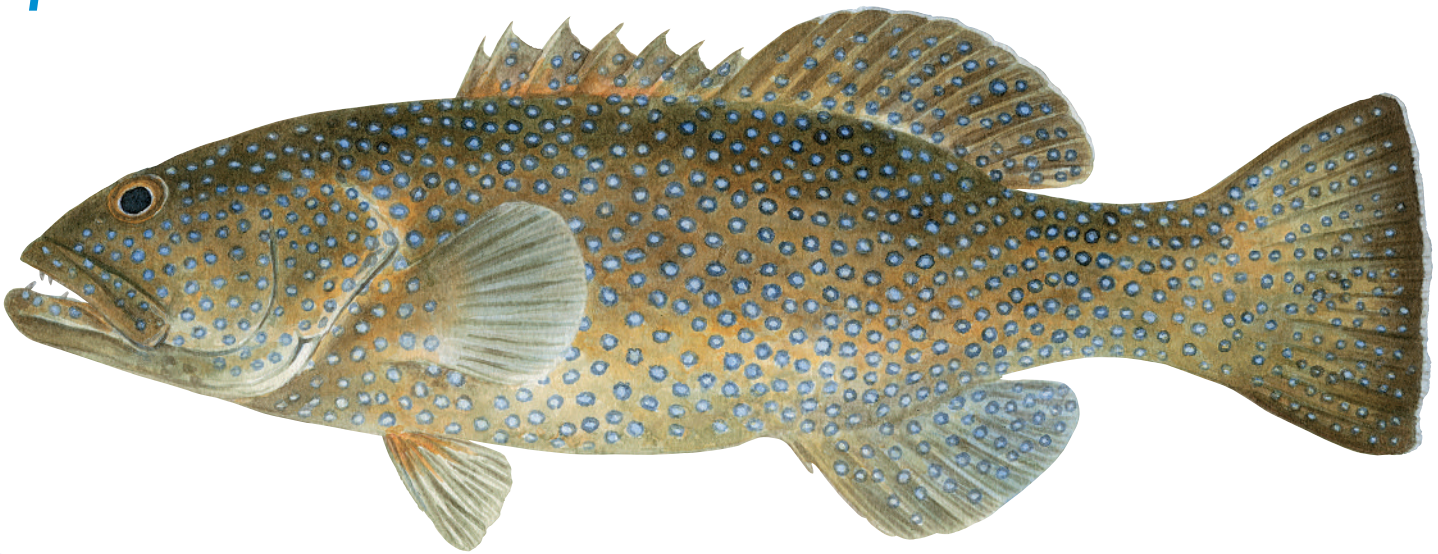
Distinct pattern of blue lines and short bars covering body and fins
Différents motifs de traits et de petites bandes bleus sur le corps et les nageoires

English: Highfin coralgrouper
French: Mérou-loche cacatois
Japanese: Amadare-dokuhata
Local:

Plectropomus areolatus

EME

1–110 m



English: Squaretail coralgrouper

French: Mérou queue carrée

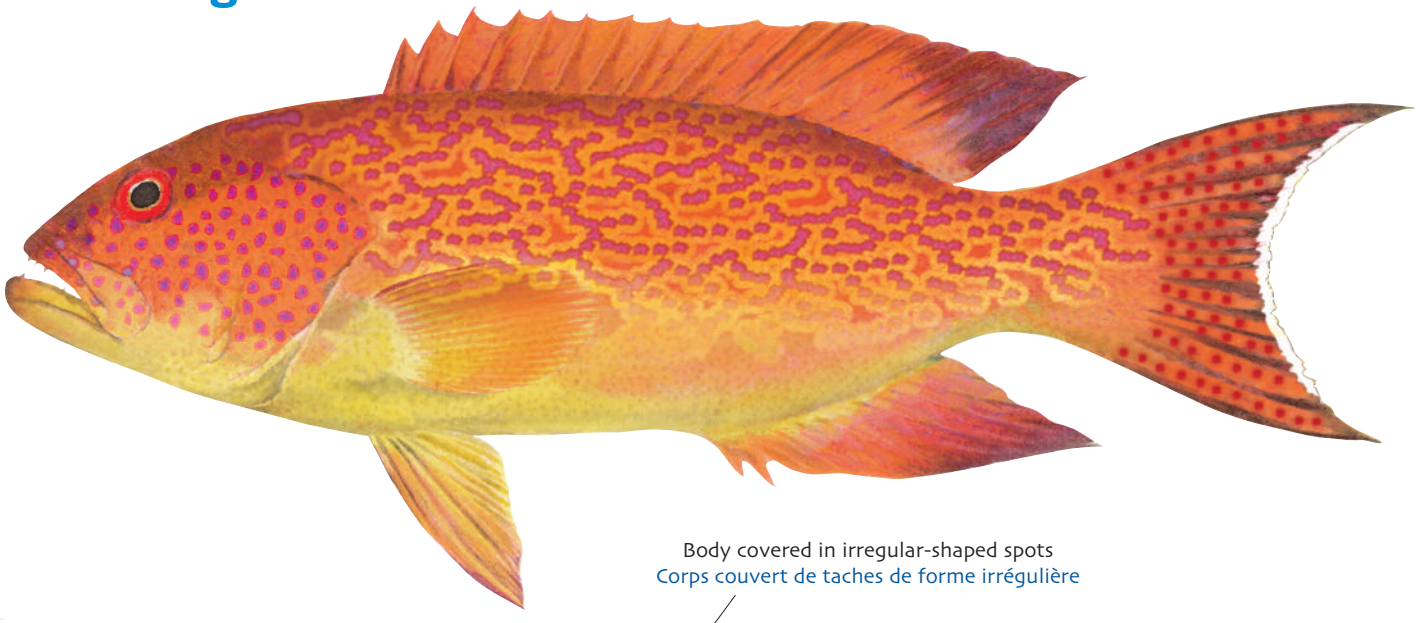
Japanese: O-aonome-era

Local:

Variola albimarginata

VRA

4–200 m



Body covered in irregular-shaped spots
Corps couvert de taches de forme irrégulière

Caudal fin lunate with white margin
Nageoire caudale en forme de croissant, bordée d'un liseré blanc

English: White-edged lyretail

French: Croissant queue blanche

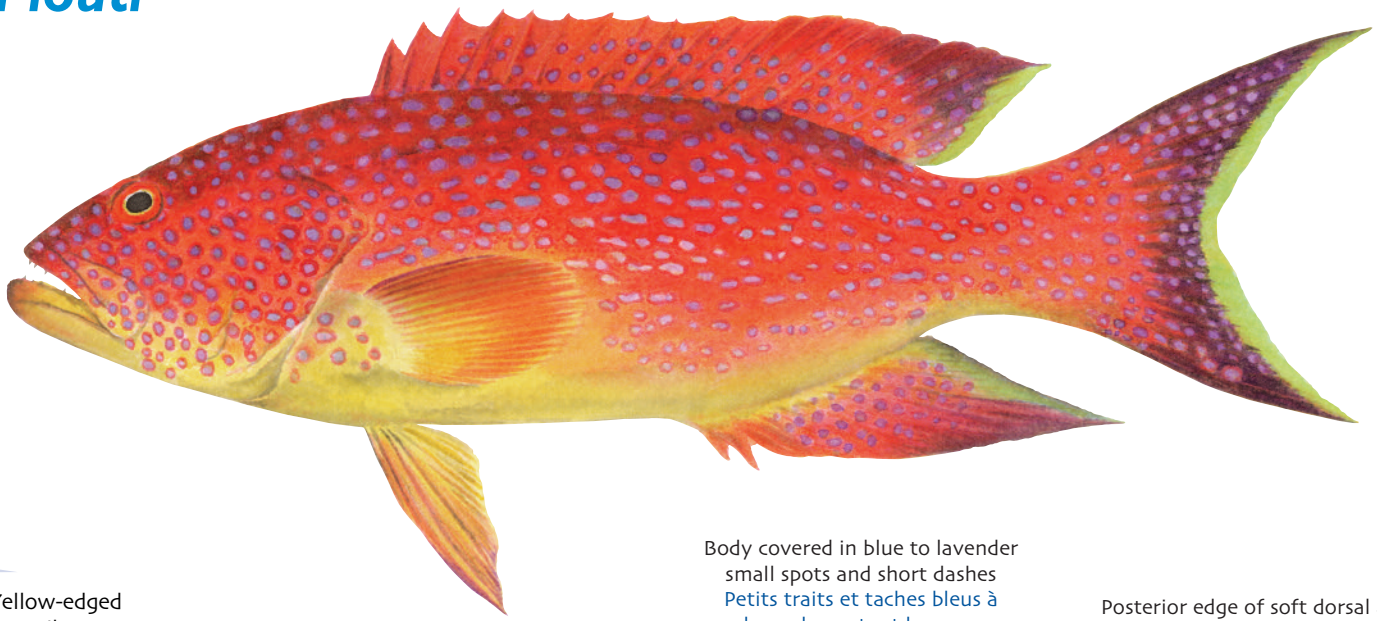
Japanese: Ojiro-barahata

Local:

Variola louti

VRL

3–250 m

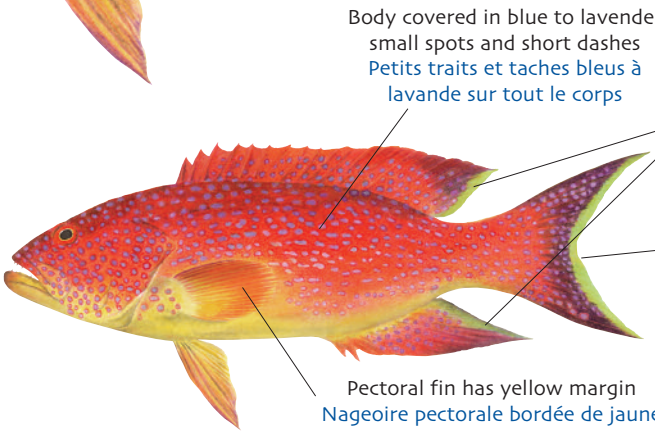


English: Yellow-edged lyretail

French: Croissant queue jaune

Japanese: Bara-hata

Local:



Carangidae

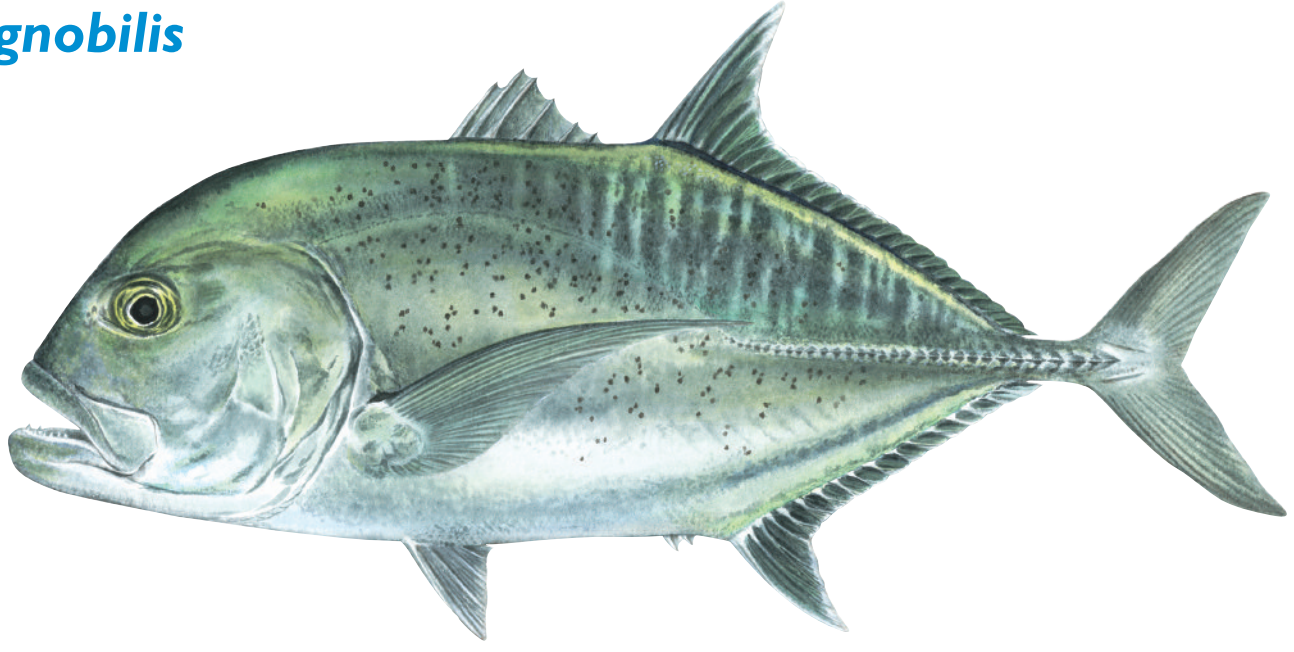
Trevallies / Carangues

Scientific	FAO code	English	French	Page
Caranx ignobilis	NXI	Giant trevally	Carangue têtue	102
Caranx lugubris	NXU	Black jack	Carangue noire	103
Caranx tille	NXT	Tille trevally	Carangue tille	104
Caranx sexfasciatus	CXS	Bigeye trevally	Carangue vorace	105
Carangoides fulvoguttatus	NGU	Yellowspotted trevally	Carangue pailletée	106
Carangoides orthogrammus	NGT	Island trevally	Carangue des îles	107
Pseudocaranx dentex	TRZ	White trevally	Carangue dentue	108
Carangoides chrysophrys	NGH	Longnose trevally	Carangue tapir	109
Seriola rivoliana	YTL	Almaco jack, Longfin yellowtail	Sériole limon	110
Seriola dumerili	AMB	Greater amberjack	Sériole couronnée	111

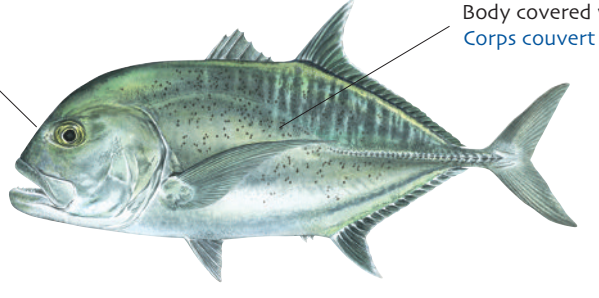
Caranx ignobilis

NXI

1–140 m



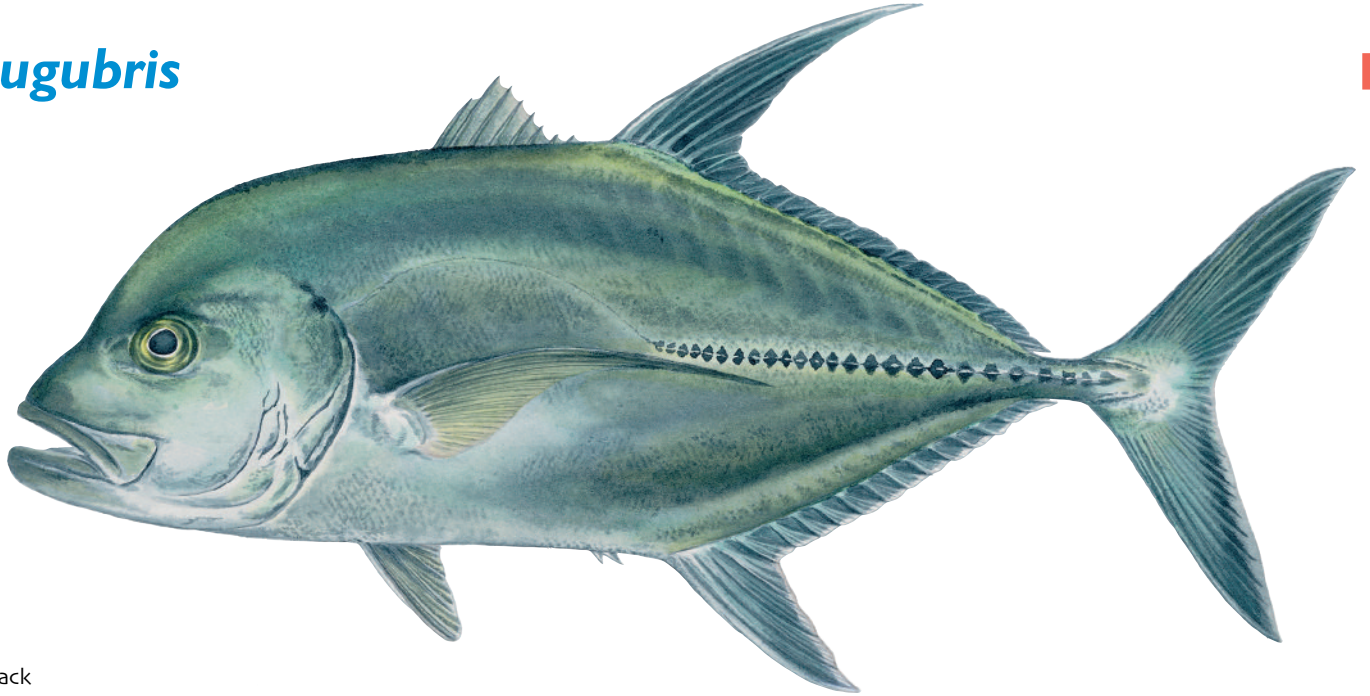
English: Giant trevally
French: Carangue têtue
Japanese: Ronin-aji
Hawaiian: Ulua, White ulua
Local:



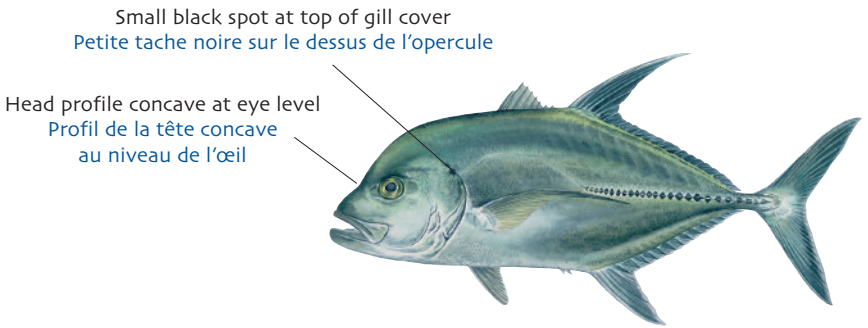
Caranx lugubris

10–350 m

NXU



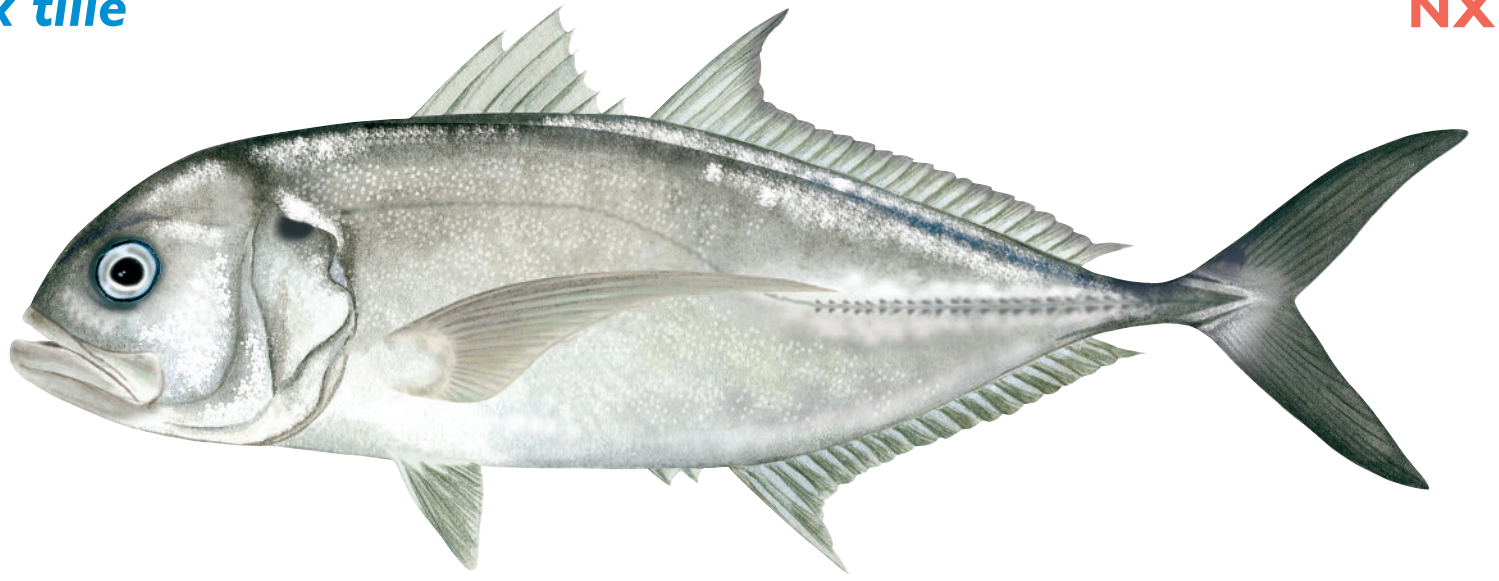
English: Black jack
French: Carangue noire
Japanese: Kappore
Hawaiian: Black ulua, Ulua-'ele'ele
Local:



Caranx tille

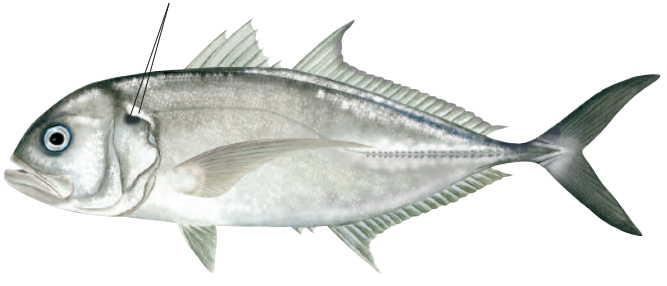
NXT

30–120 m



English: Tille trevally
French: Carangue tille
Japanese: Minami-gingame-aji
Local:

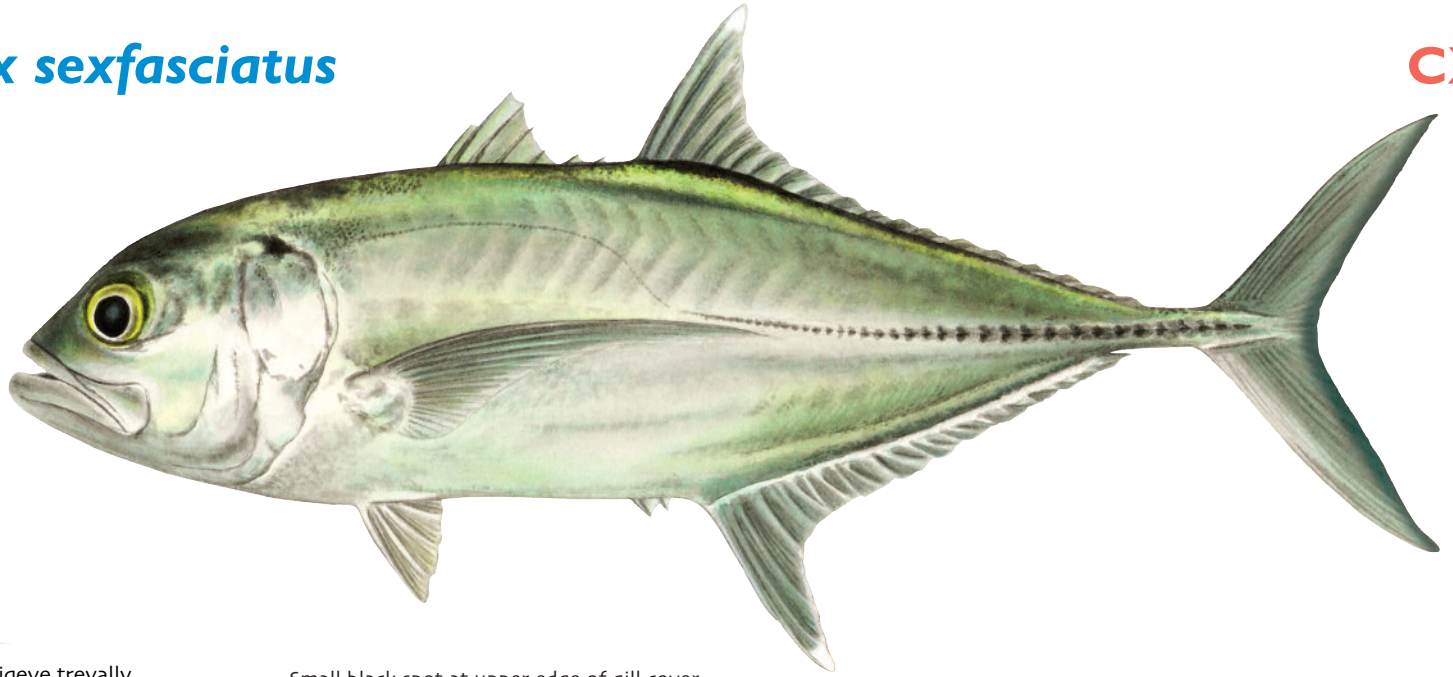
Black spot at upper edge of gill cover, adjacent to a small white spot
Tache noire sur le bord supérieur de l'opercule, à côté d'une petite tache blanche



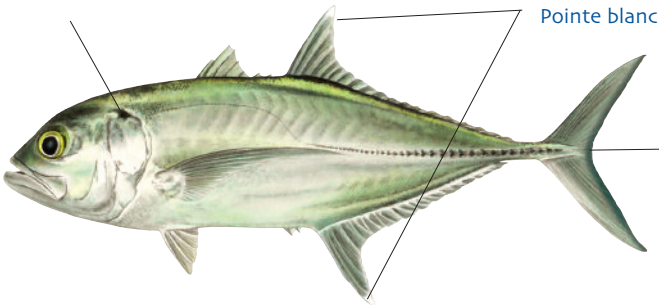
Caranx sexfasciatus

CXS

2–120 m



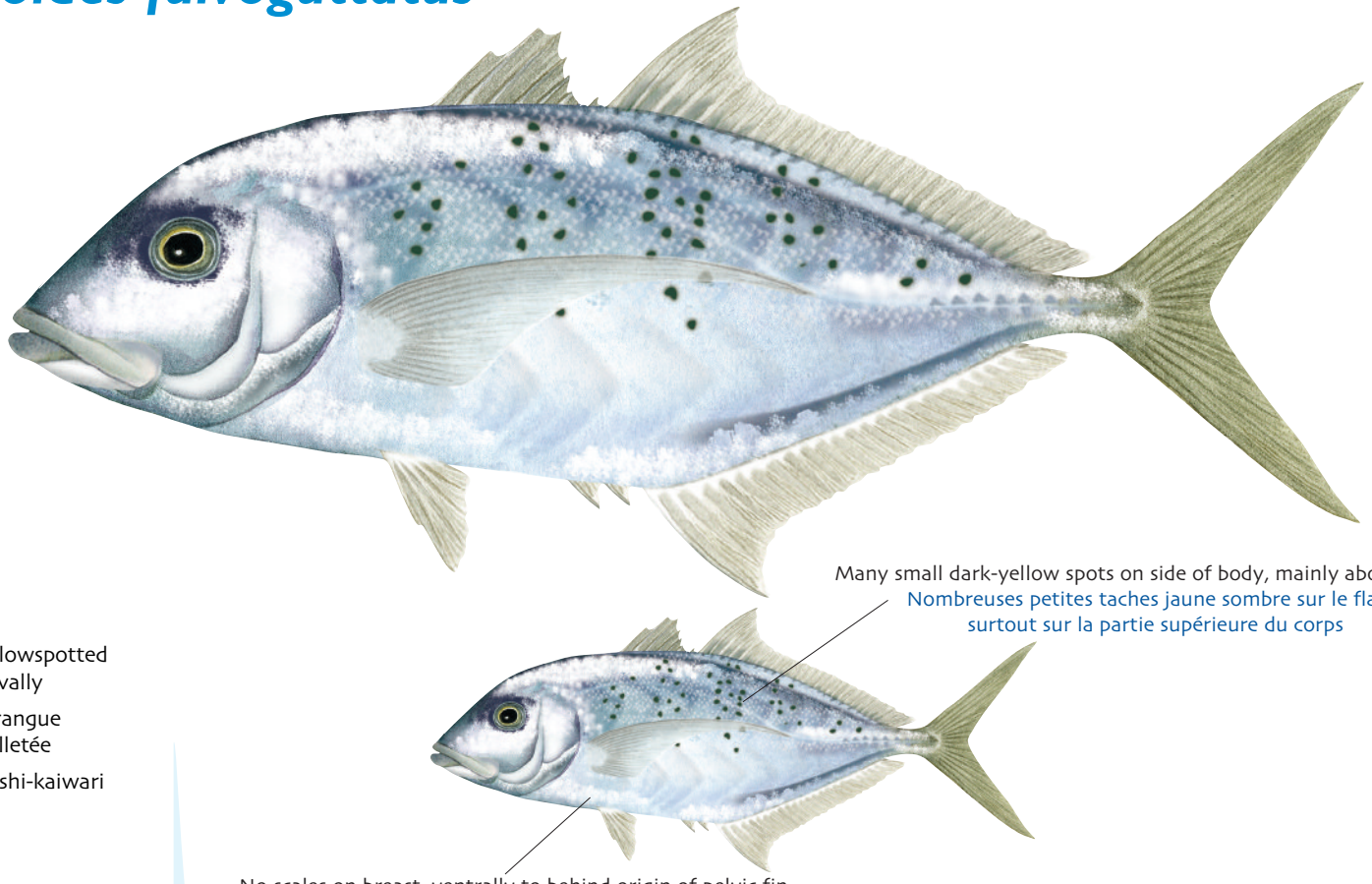
English: Bigeye trevally
French: Carangue vorace
Japanese: Gingame-aji
Hawaiian: Pake ulua, Sasa ulua
Local:



Carangoides fulvoguttatus

NGU

1–140 m

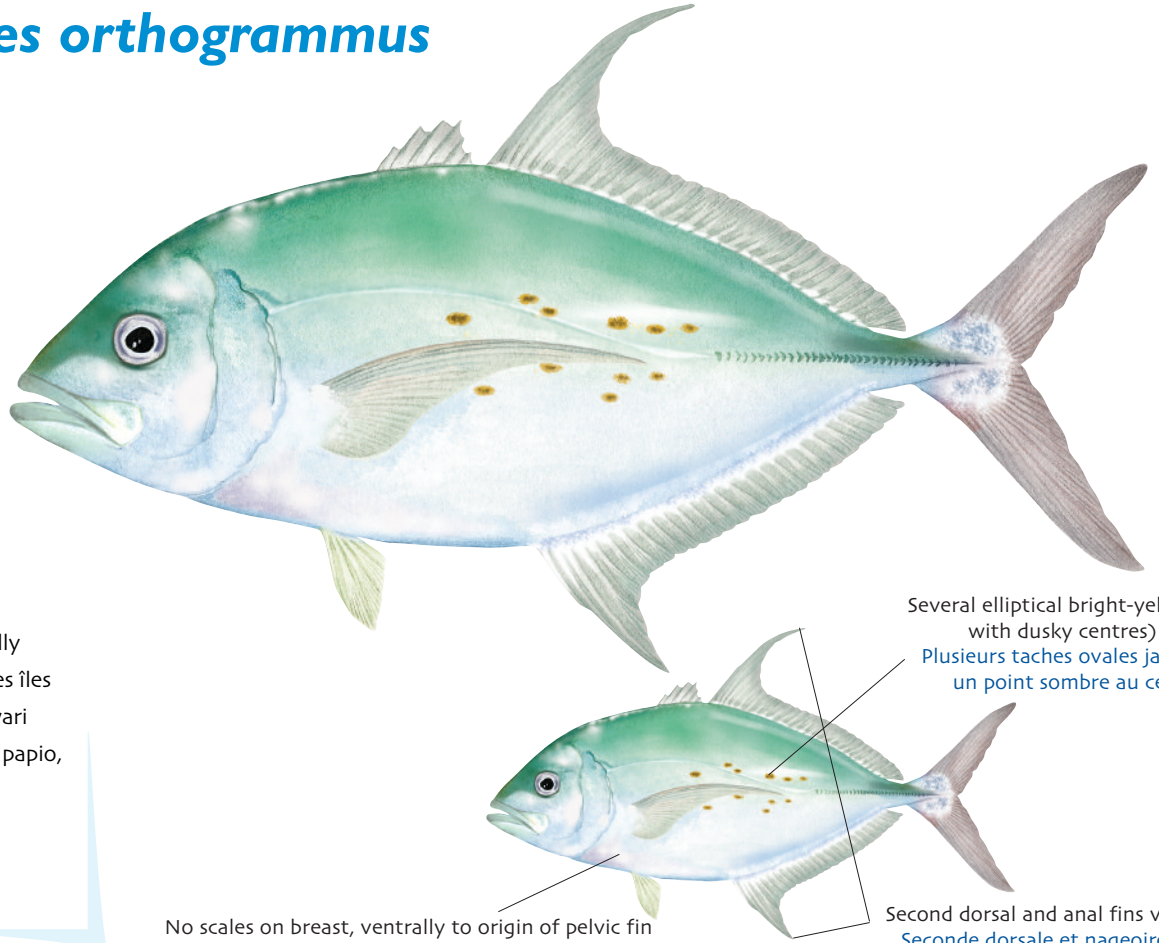


English: Yellowspotted trevally
French: Carangue pailletée
Japanese: Hoshi-kaiwari
Local:

Carangoides orthogrammus

NGT

3–170 m

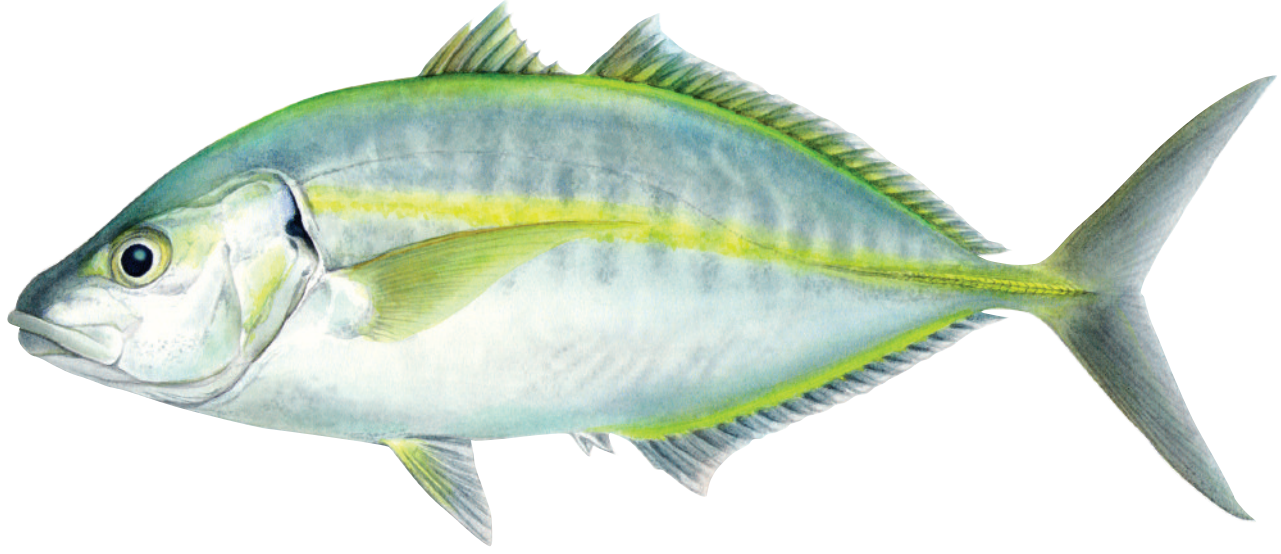


English: Island trevally
French: Carangue des îles
Japanese: Nanyo-kaiwari
Hawaiian: Yellow spot papio, Papa papio
Local:

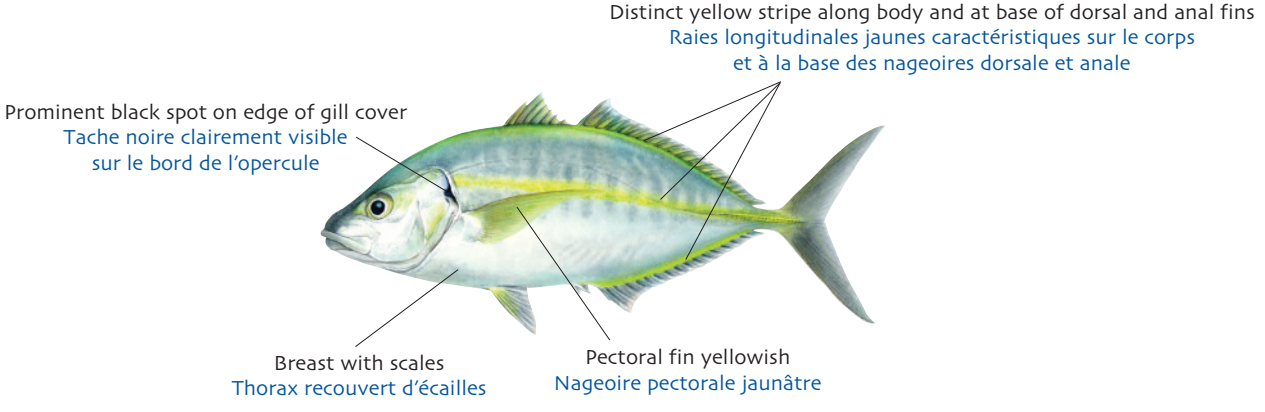
Pseudocaranx dentex

TRZ

80–200 m



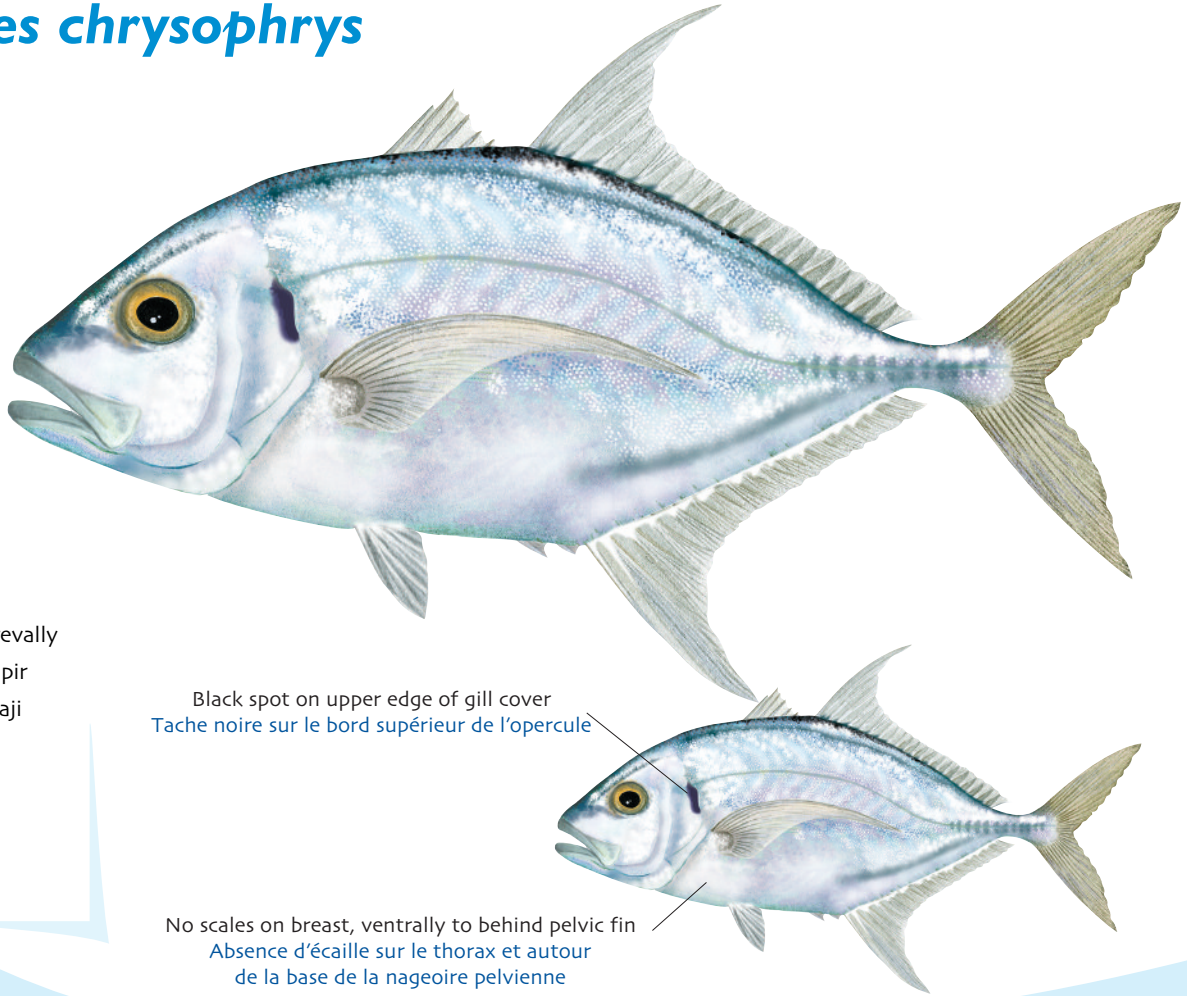
English:	White trevally
French:	Carangue dentue
Japanese:	Shimaaji
Hawaiian:	Butaguchi, Pig ulua
Local:	



Carangoides chrysophrys

NGH

30–240 m

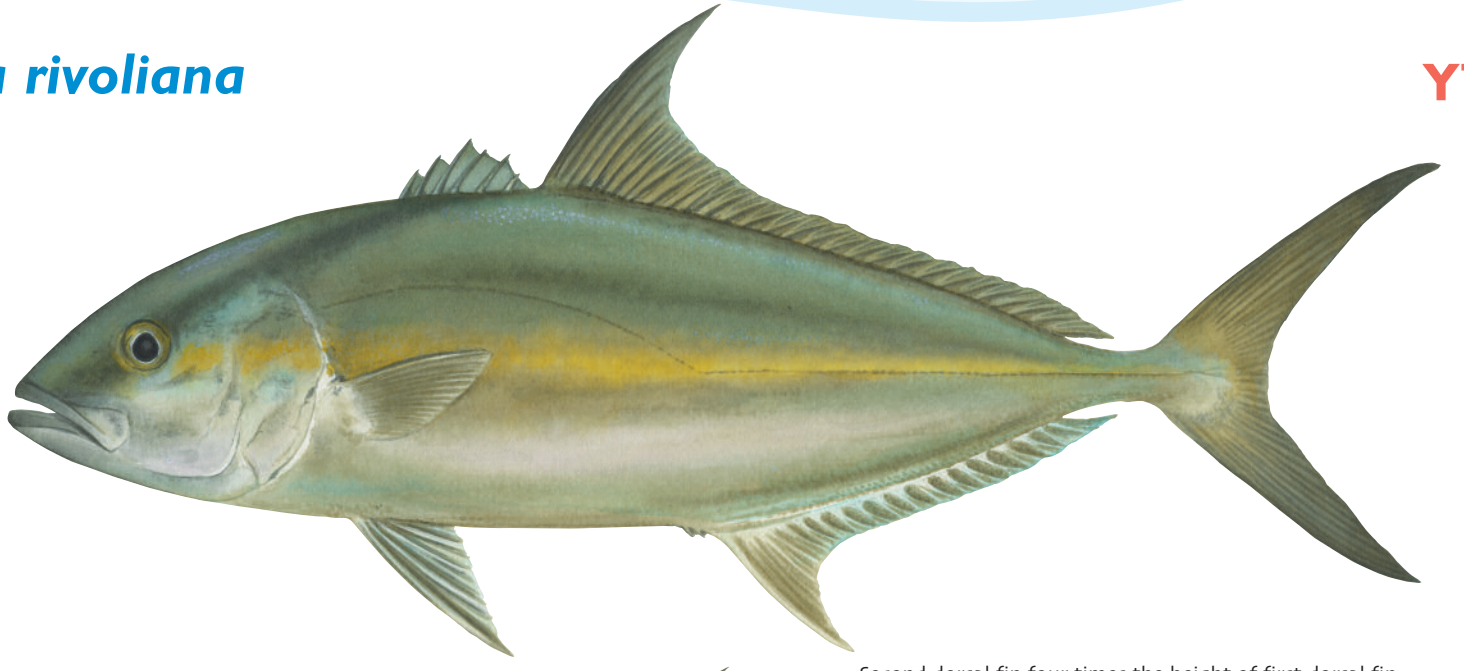


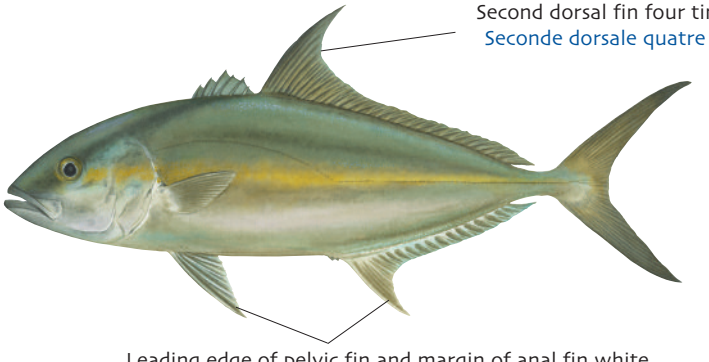
English: Longnose trevally
French: Carangue tapir
Japanese: Hishi-yoroi-aji
Local:

Seriola rivoliana

YTL

10–340 m





Second dorsal fin four times the height of first dorsal fin
Seconde dorsale quatre fois plus haute que la première

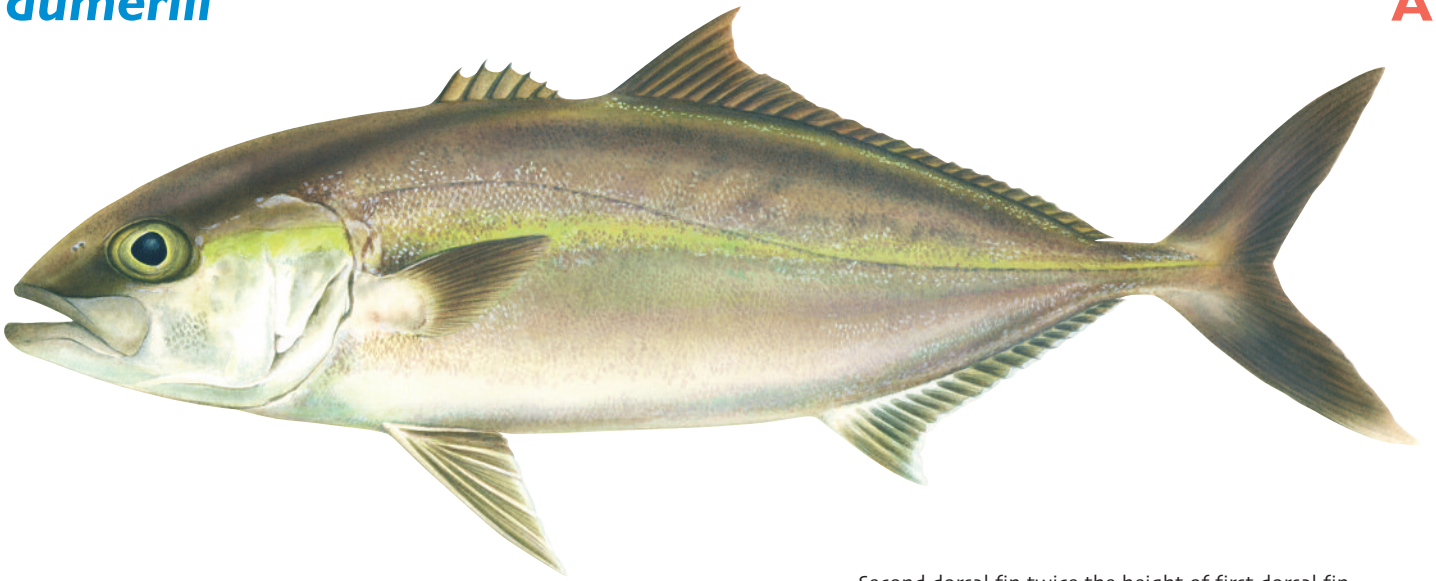
Leading edge of pelvic fin and margin of anal fin white
Bord antérieur de la nageoire pelvienne et bords de la nageoire anale blancs

English: Almaco jack, Longfin yellowtail
French: Sériole limon
Japanese: Hirenaga-kanpachi
Hawaiian: Kahala, Almaco jack
Local:

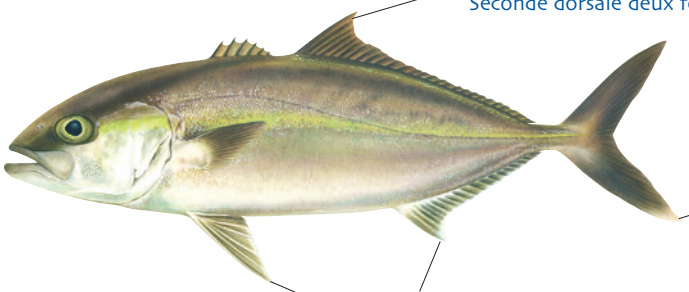
Seriola dumerili

AMB

1–360 m



English: Greater amberjack
French: Sériole couronnée
Japanese: Kanpachi
Hawaiian: Kahala
Local:



Gempylidae

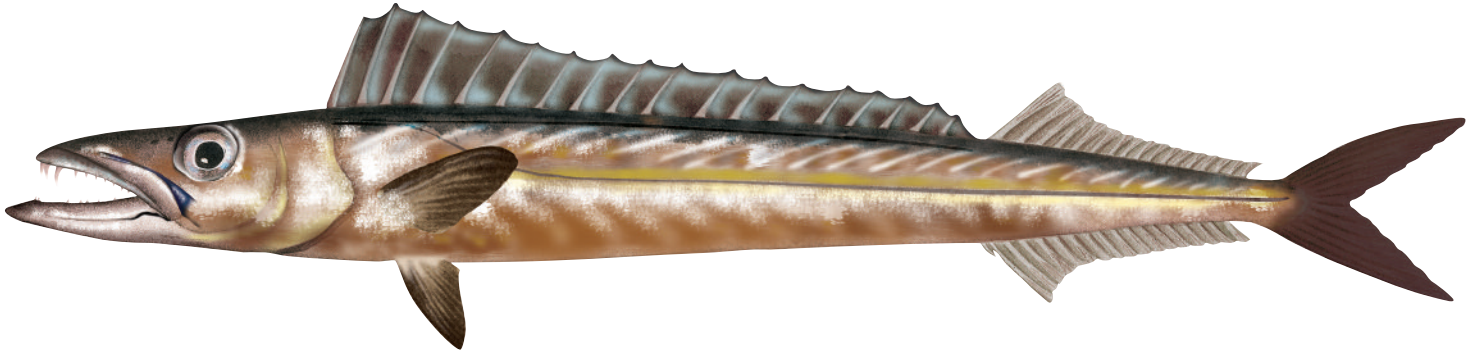
Snake mackerels / Escoliers

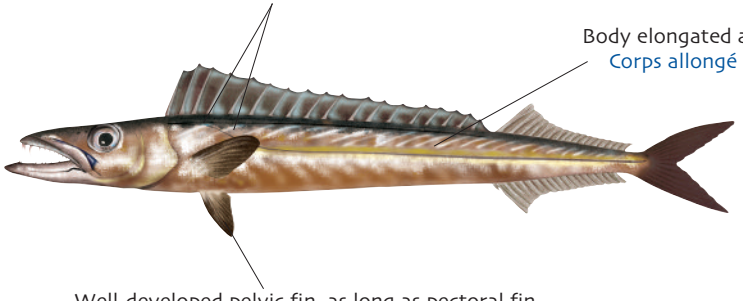
Scientific	FAO code	English	French	Page
Thyrsitoides marleyi	THM	Black snoek	Escolier gracile	114
Gempylus serpens	GES	Snake mackerel	Escolier serpent	115
Ruvettus pretiosus	OIL	Oilfish	Rouvet	116
Promethichthys prometheus	PRP	Roudi escolar	Escolier clair	117

Thyrsitoides marleyi

THM

1–400 m



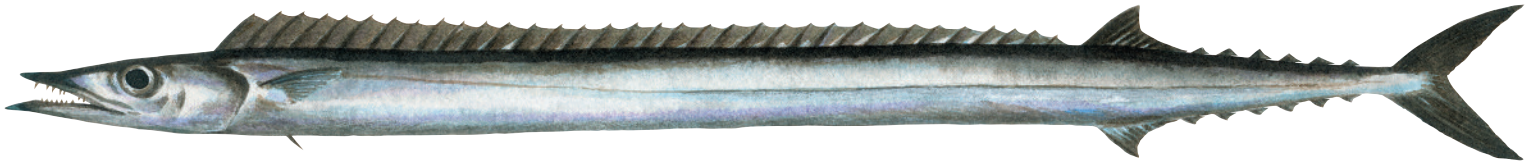


English: Black snoek
French: Escolier gracile
Japanese: Nagatachikamasu
Local:

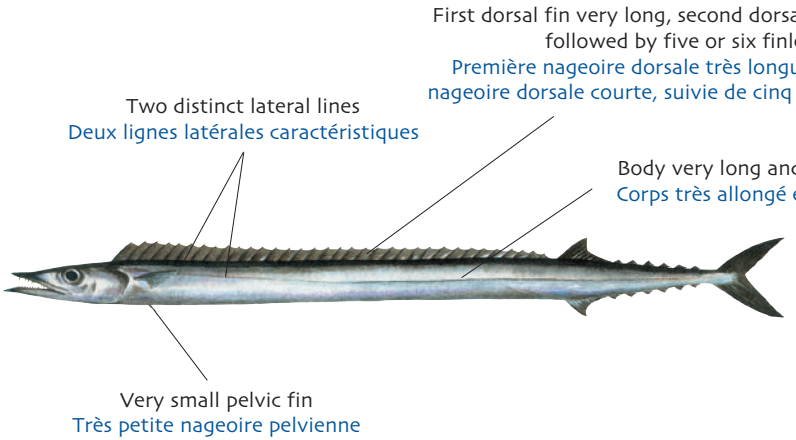
Gempylus serpens

GES

1–600 m



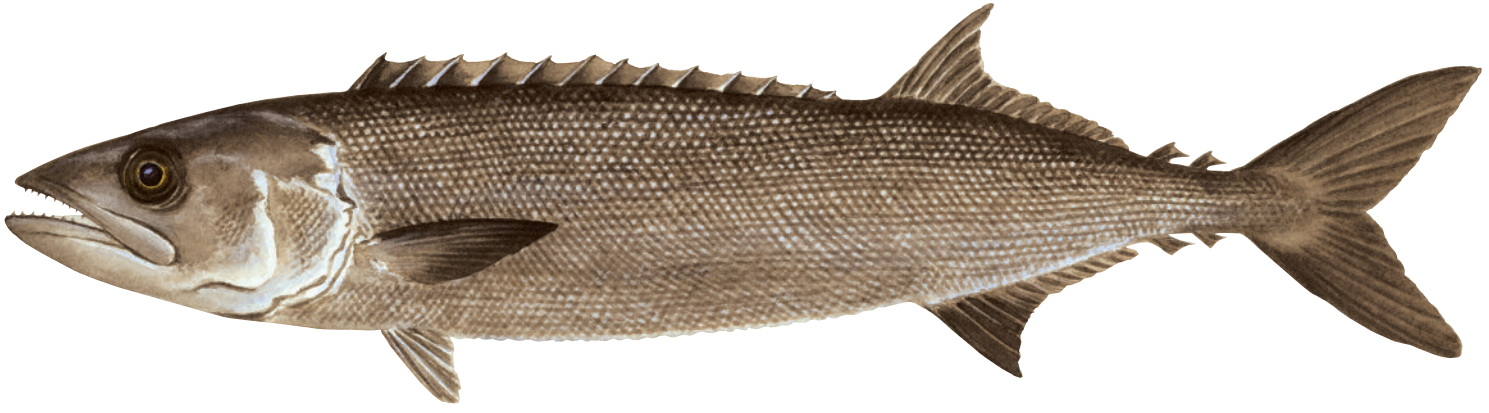
English: Snake mackerel
French: Escolier serpent
Japanese: Kurotachikamasu
Hawaiian: Snake mackerel
Local:

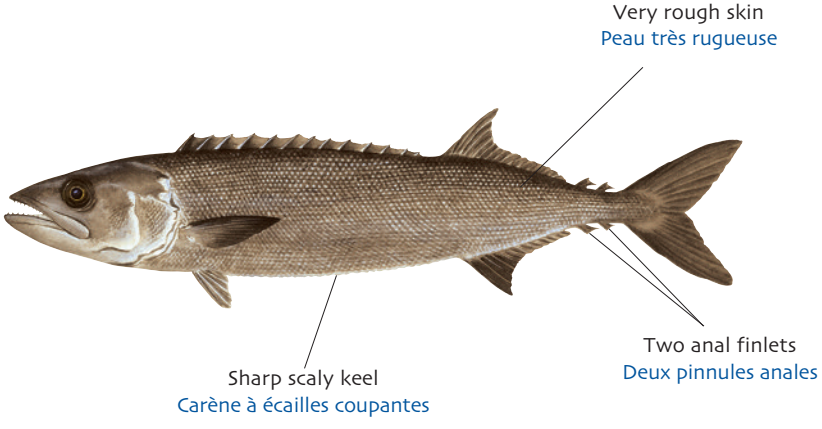


Ruvettus pretiosus

OIL

100–800 m



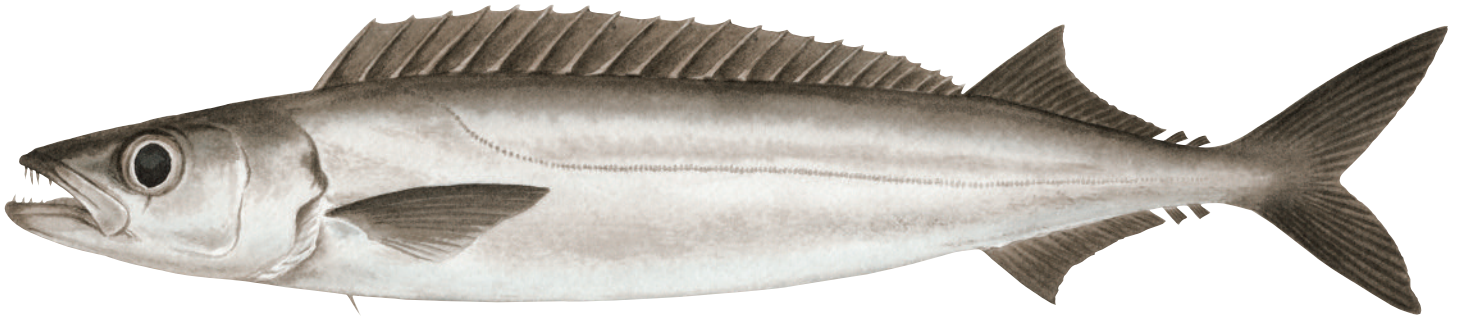


English: Oilfish
French: Rouvet
Japanese: Baramutsu
Hawaiian: Walu, Rough walu, Hawaiian butterfish
Local:

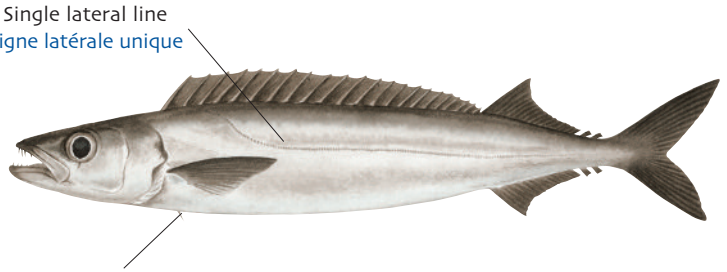
Promethichthys prometheus

PRP

100–750 m



English: Roudi escolar
French: Escolier clair
Japanese: Kuroshibikamasu
Hawaiian: Snake mackerel
Local:



Other bony fish / Autres poissons osseux

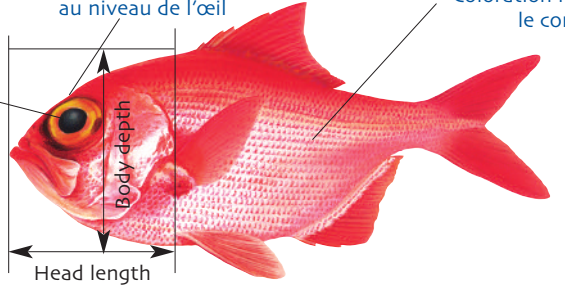
Scientific	FAO code	English	French	Page
Beryx decadactylus	BXD	Alfonsino	Béryx commun	120
Beryx splendens	BYS	Splendid alfonsino	Béryx long	121
Erythrocles schlegelii	ERY	Japanese rubyfish	Poisson trompette de Schlegel	122
Erythrocles scintillans	ERZ	Golden kalikali	Poisson trompette scintillant	123
Ostichthys japonicus	HWJ	Japanese soldierfish, Brocade perch	Soldat japonais	124
Ostichthys kaianus	HWK	Kai soldierfish	Soldat japonais rayé	125
Sargocentron spiniferum	HVS	Sabre squirrelfish	Marignan sabre	126
Argyrops spinifer	KBR	Longspined seabream	Spare royal	127
Heteropriacanthus cruentatus	HTU	Glasseye	Beauclaire de roche	128
Priacanthus hamrur	BWH	Moontail bullseye	Beauclaire miroir	129
Bodianus perditio	BDT	Golden-spot hogfish	Labre de la perdition	130
Branchiostegus wardi	TIZ	Ward's tilefish	Tête de cheval	131
Polymixia japonica	PXJ	Silver eye	Œil d'argent	132
Neoscombrops pacificus	NSW	(No common name)	(Pas de nom commun)	133
Pontinus macrocephalus	PZM	Large-headed scorpionfish	Poisson scorpion grosse tête	134
Triodon macropterus	TDU	Threetooth puffer	Triodon jaune à point noir	135
Decapterus tabl	DCT	Roughear scad	Comète queue rouge	136
Gymnosarda unicolor	DOT	Dogtooth tuna	Bonite à gros yeux, Thon dents de chien	137
Conger cinereus	COI	Longfin conger	Congre oiro	138
Muraenesox cinereus	DPC	Daggertooth pike conger	Murénésoce-dague	139

Beryx decadactylus

BXD

110–1000 m

English: Alfonsino
French: Béryx commun
Japanese: Nanyokinme
Hawaiian: Alfonsin
Local:

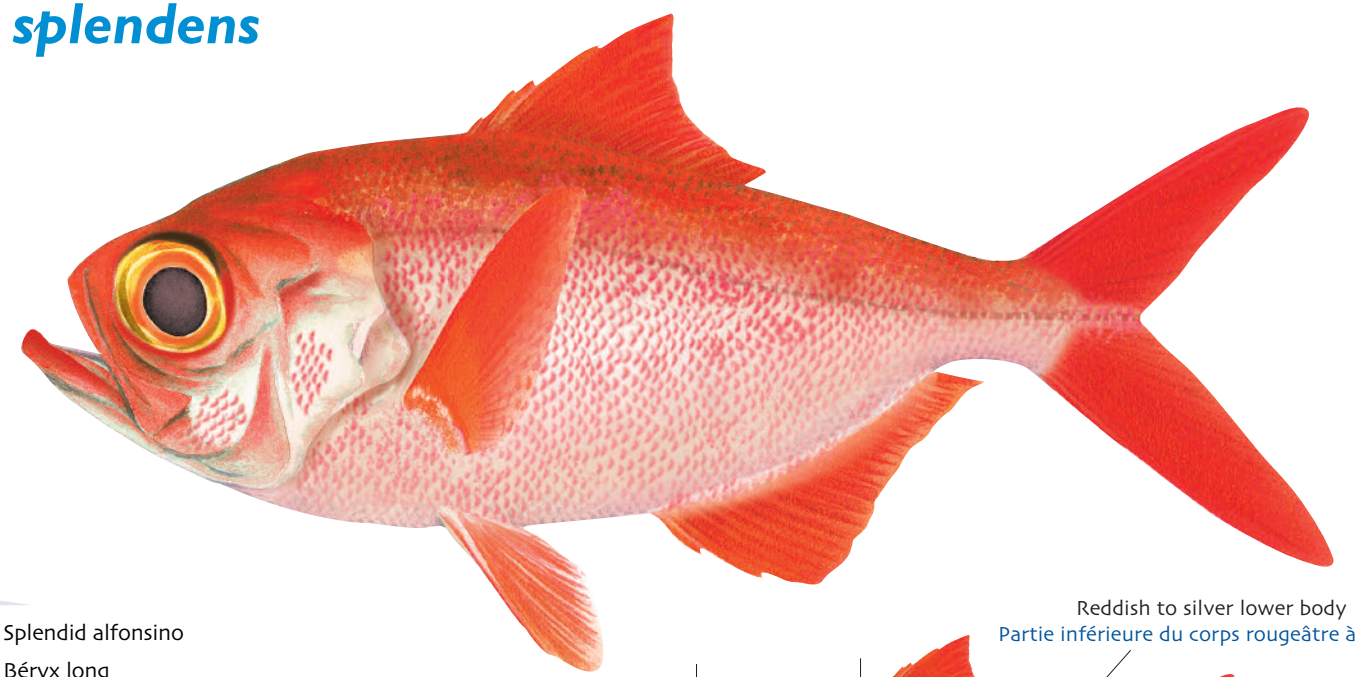


Body depth significantly greater than head length
Hauteur du corps nettement supérieure à la longueur de la tête

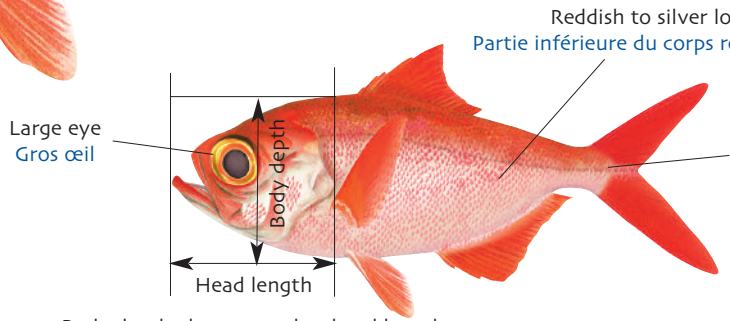
Beryx splendens

BYS

25–1300 m



English: Splendid alfonsino
French: Béryx long
Japanese: Kimedai
Hawaiian: Alfonsin
Local:

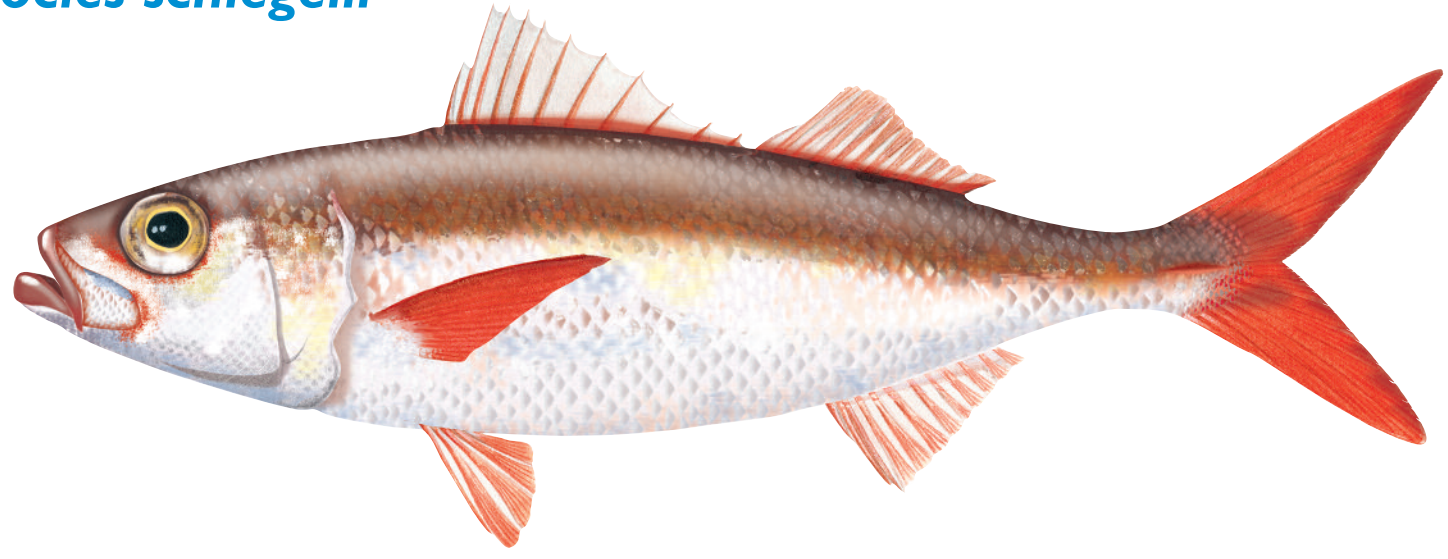


Body depth almost equal to head length
Hauteur du corps environ égale à la longueur de la tête

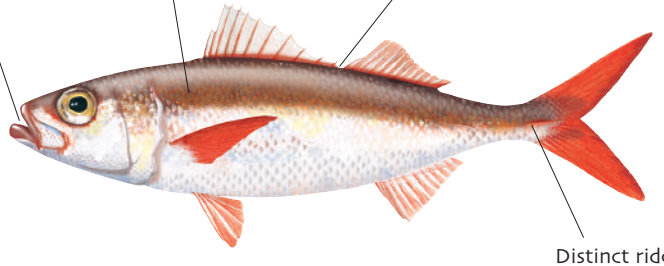
Erythrocles schlegelii

ERY

50–250 m



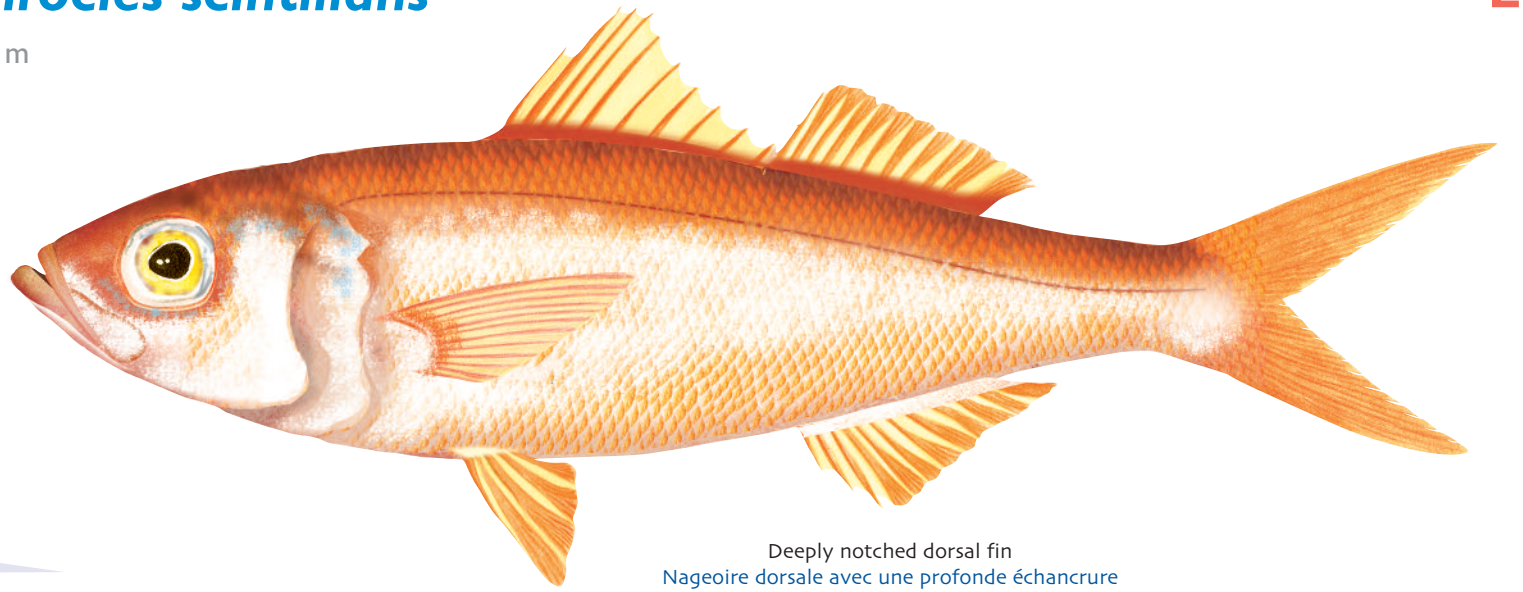
English: Japanese rubyfish
French: Poisson trompette de Schlegel
Japanese: Hachibiki
Hawaiian: Golden kalekale
Local:



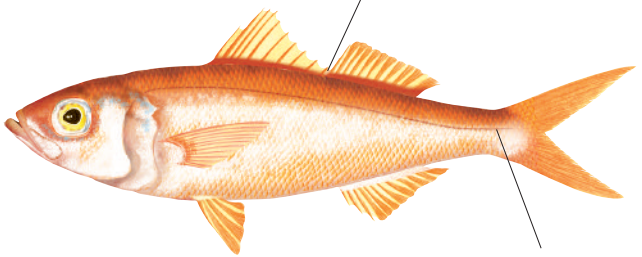
Erythrocles scintillans

ERZ

250–350 m



Deeply notched dorsal fin
Nageoire dorsale avec une profonde échancrure



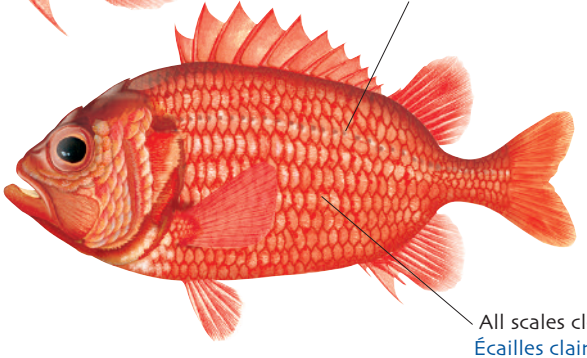
No trace of ridge or caudal keel
Pas de trace d'arête ou de carène caudale

English: Golden kalikali
French: Poisson trompette scintillant
Japanese: Hawai-chibiki
Hawaiian: Golden kalekale
Local:

Ostichthys japonicus

HWJ

150–350 m

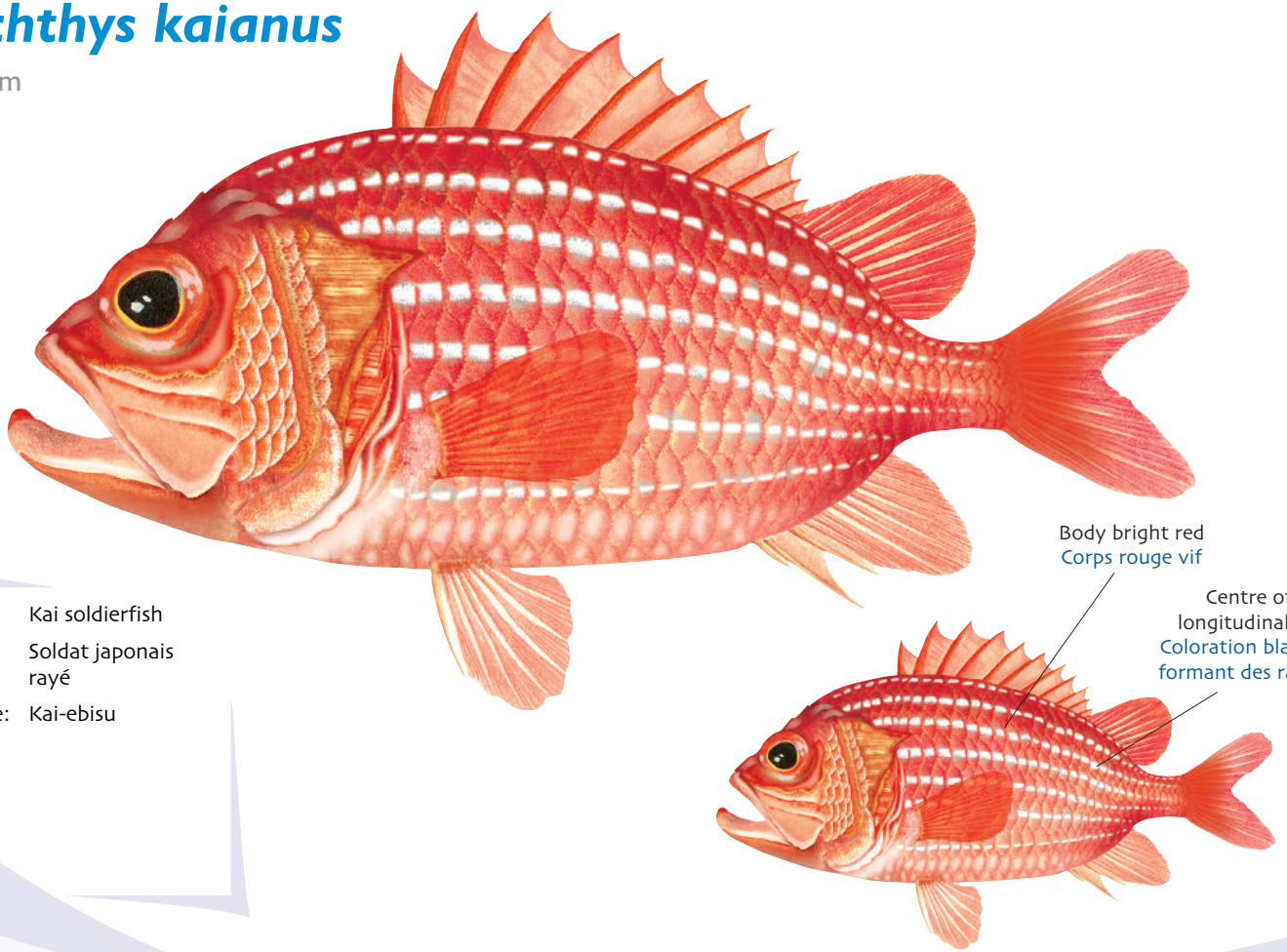


English:	Japanese soldierfish, Brocade perch
French:	Soldat japonais
Japanese:	Ebisudai
Local:	

Ostichthys kaianus

310–640 m

HWK



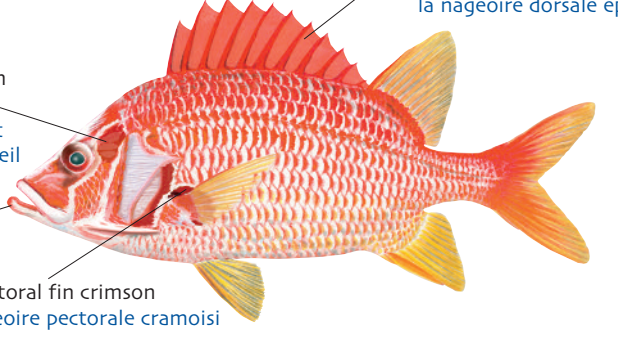
English: Kai soldierfish
French: Soldat japonais rayé
Japanese: Kai-ebisu
Local:

Sargocentron spiniferum

HVS

1–120 m

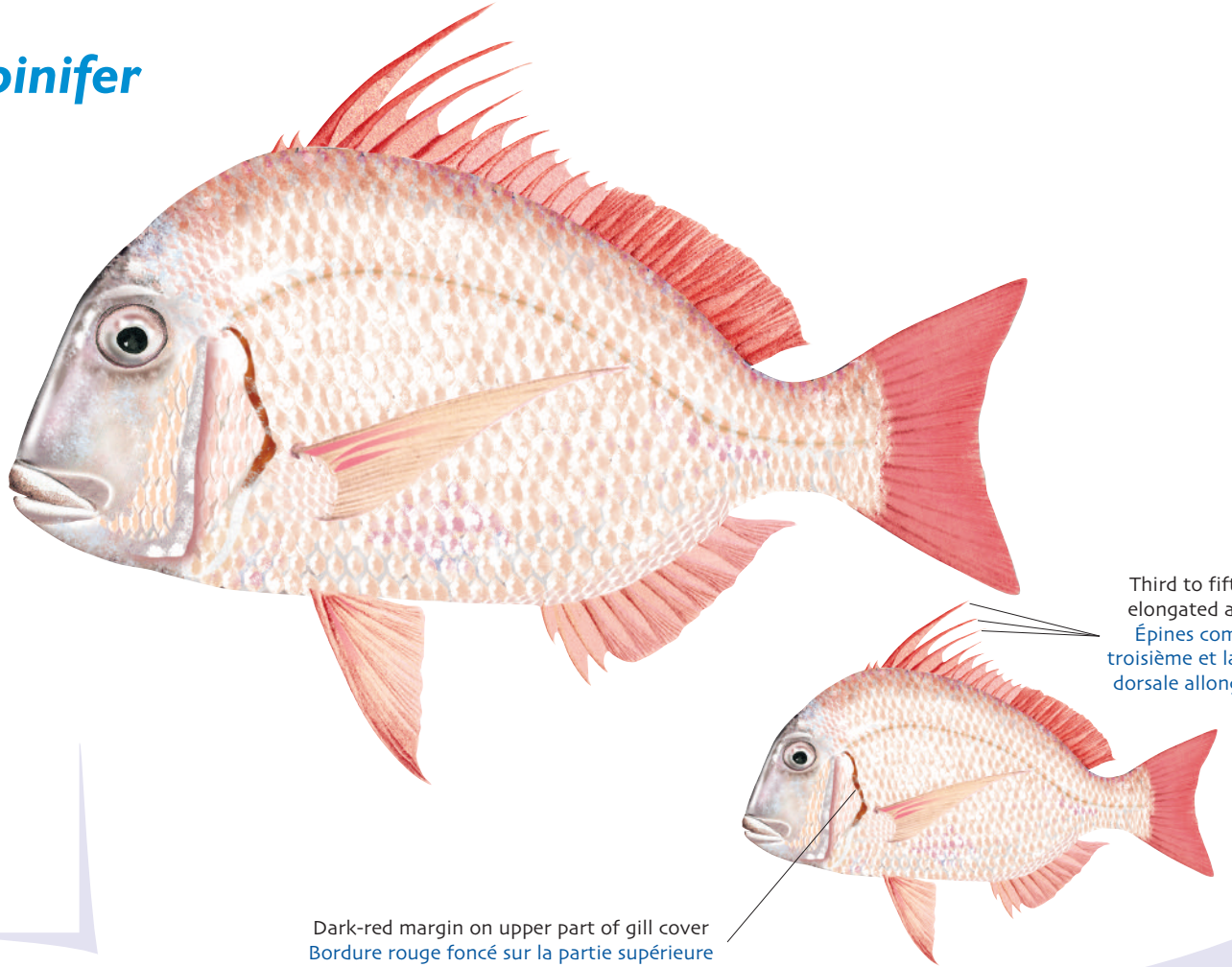
English: Sabre squirrelfish
French: Marignan sabre
Japanese: Togari-ebisu
Hawaiian: Ala'ihi
Local:



Argyrops spinifer

1–150 m

KBR

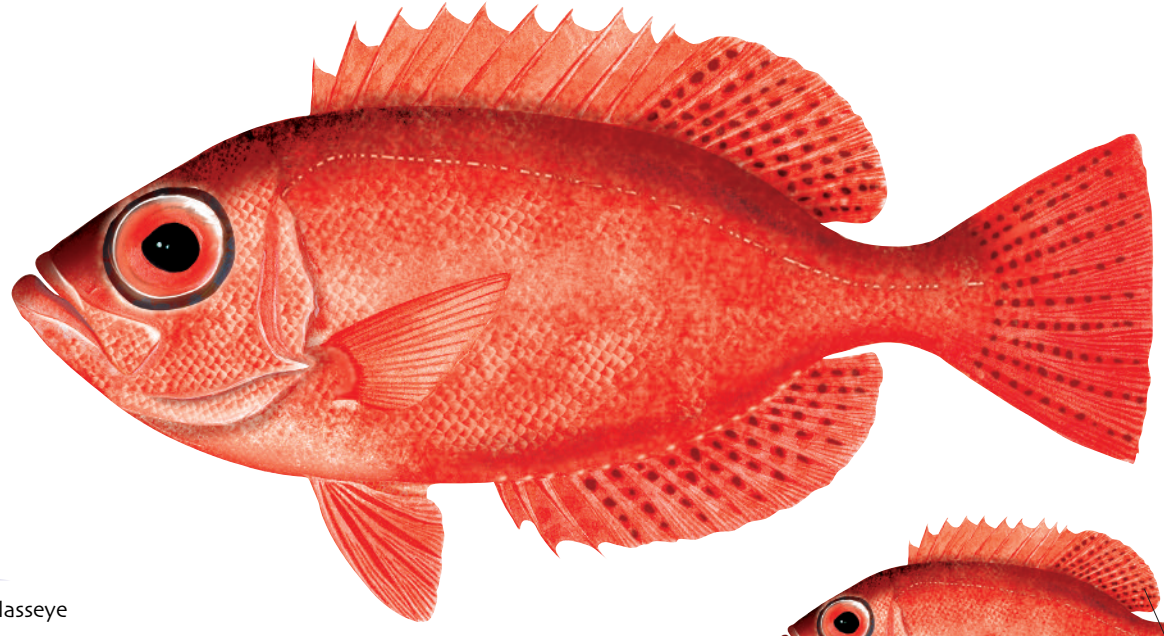


English:	King soldier bream
French:	Spare royal
Japanese:	Taiwandai
Local:	

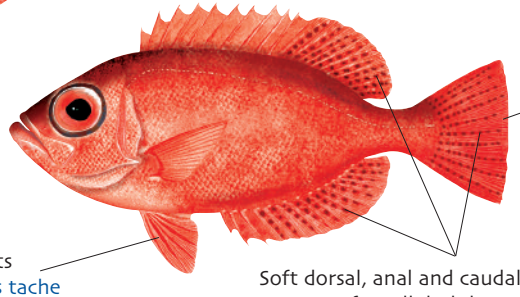
Heteropriacanthus cruentatus

HTU

3–300 m



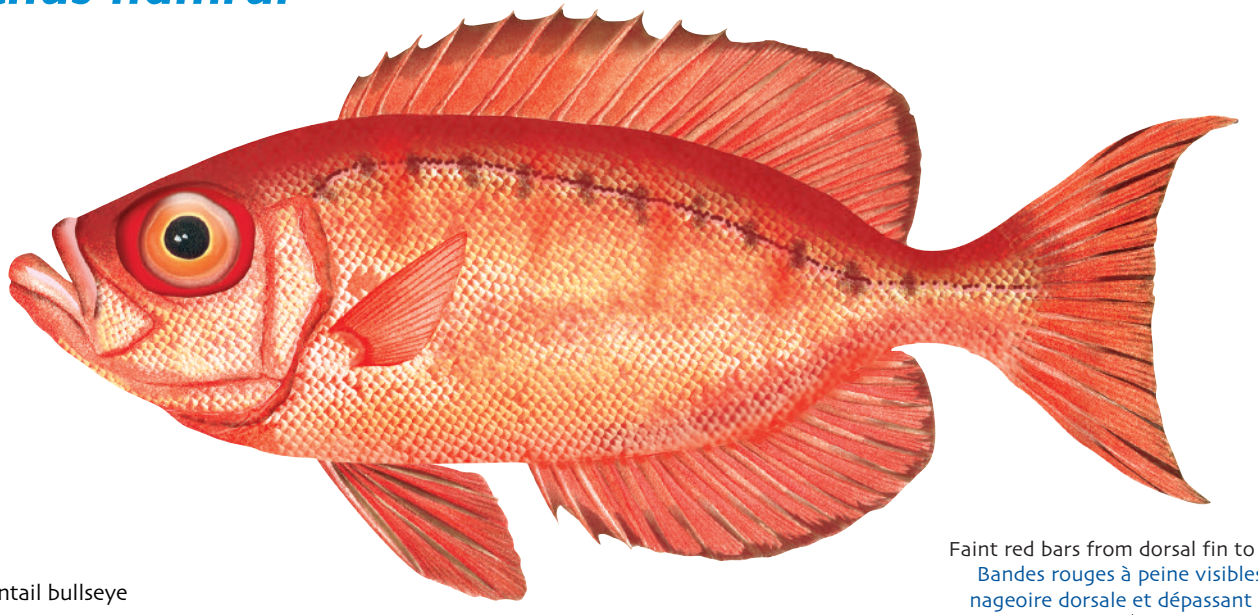
English: Glasseye
French: Beauclaire de roche
Japanese: Gomahire-kintoki
Hawaiian: Deep sea aweoweo
Local:



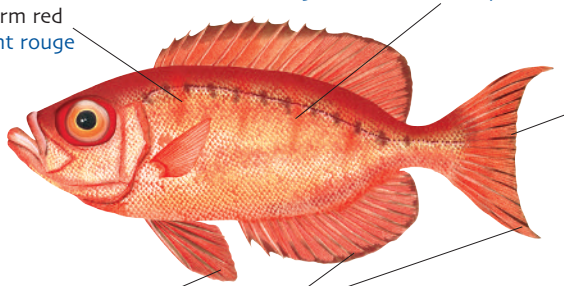
Priacanthus hamrur

8–250 m

BWH



English: Moontail bullseye
French: Beauclaire miroir
Japanese: Hoseki-kintoki
Hawaiian: Aweoweo
Local:

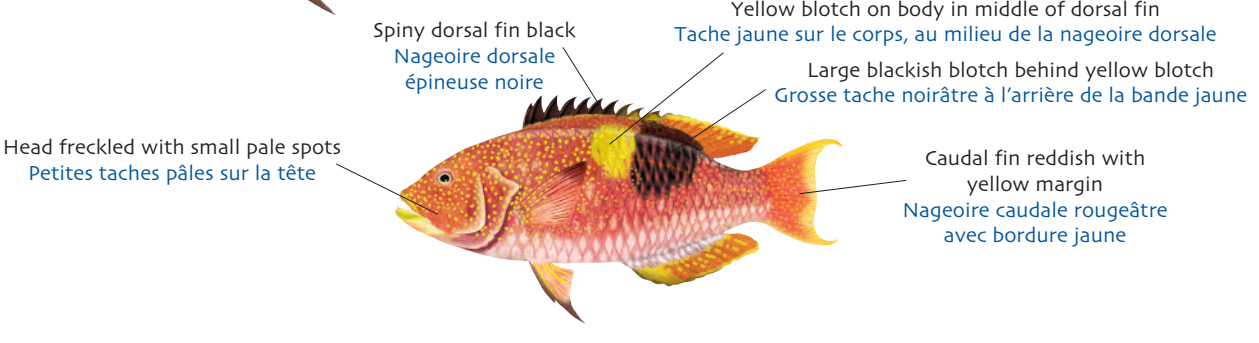


Bodianus perditio

BDT

10–220 m

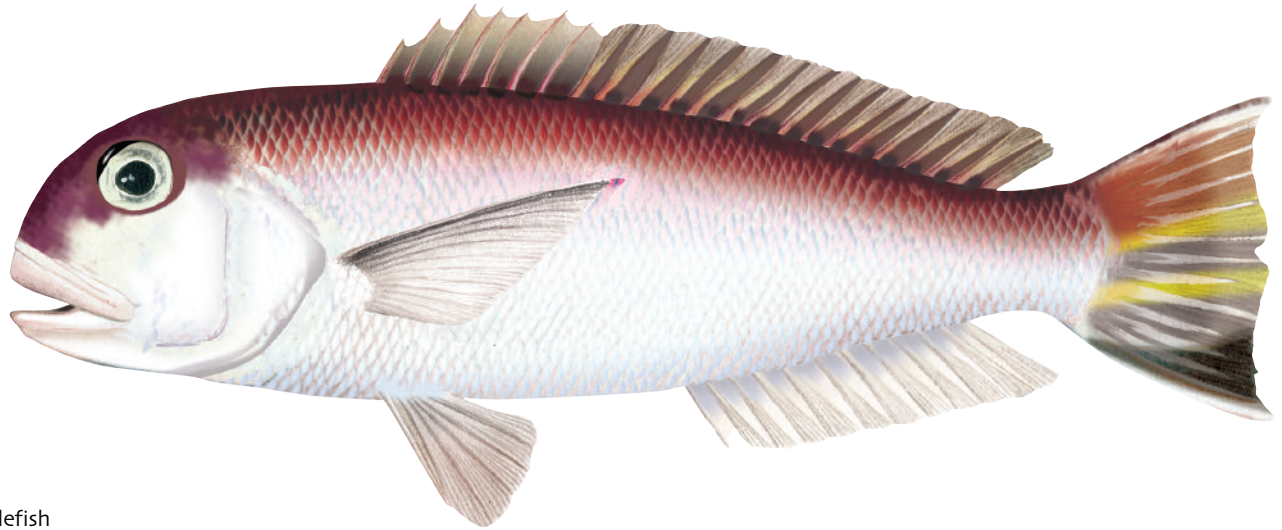
English: Golden-spot hogfish
French: Labre de la perdition
Japanese: Takibera
Local:



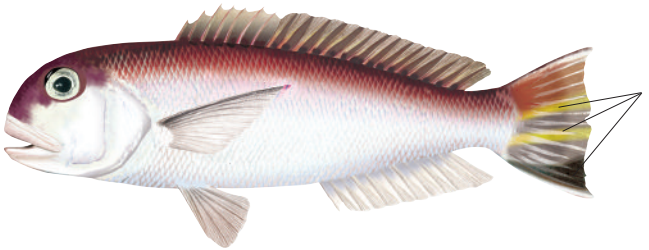
Branchiostegus wardi

100–250 m

TIZ



English: Ward's tilefish
French: Tête de cheval
Japanese: Minami-amadai
Hawaiian: Amadai
Local:



Caudal fin has dark triangle on lower lobe and two yellow stripes above
Triangle sombre sur le lobe inférieur de la nageoire caudale et deux raies jaunes sur le dessus

Polymixia japonica

PXJ

160–630 m

English: Silver eye
French: Œil d'argent
Japanese: Ginmedai
Hawaiian: Deep sea moi
Local:

Neoscombrops pacificus

60–500 m

NSW

English: (No known common name)

French: (Pas de nom commun connu)

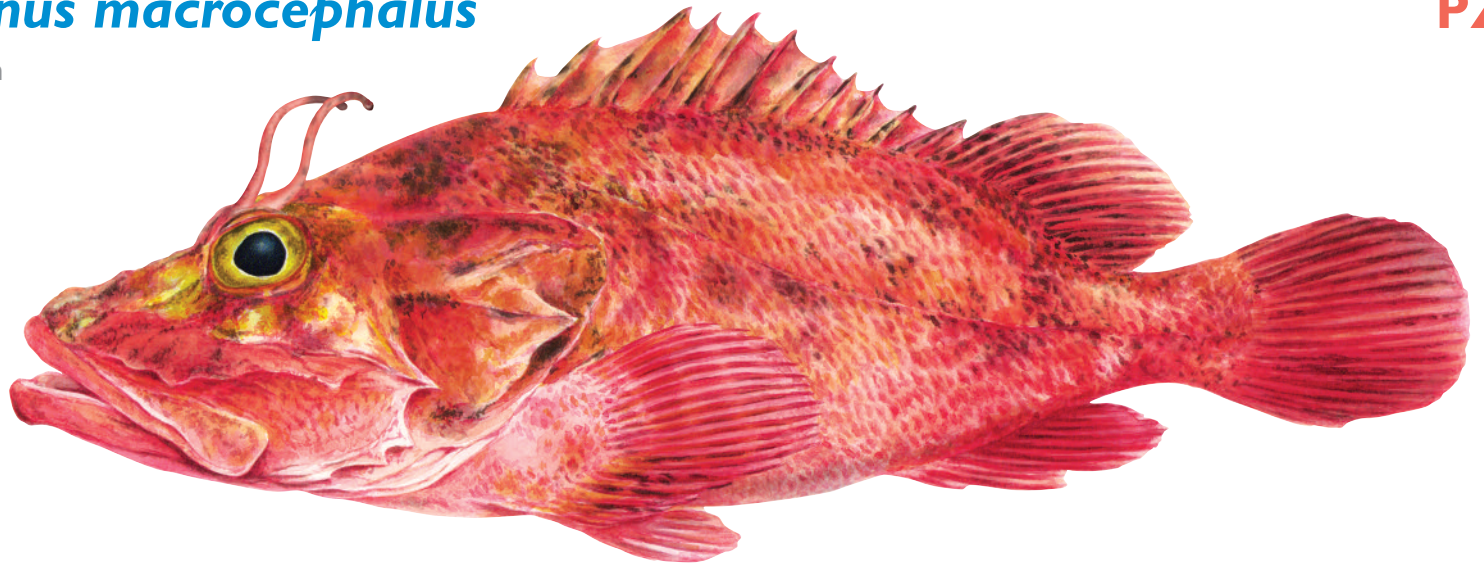
Japanese: Bakemutsu

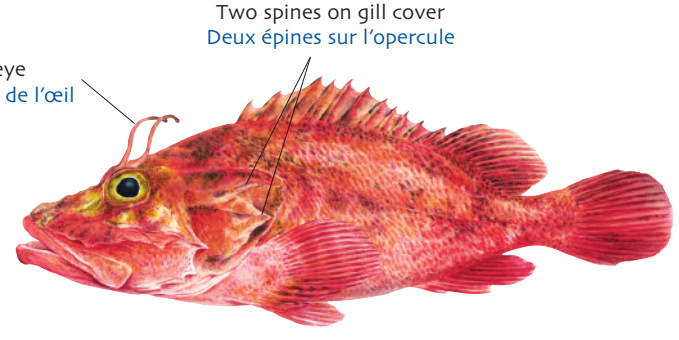
Local:

Pontinus macrocephalus

PZM

170–275 m





English: Large-headed scorpionfish

French: Poisson scorpion grosse tête

Japanese: Hiodoshi

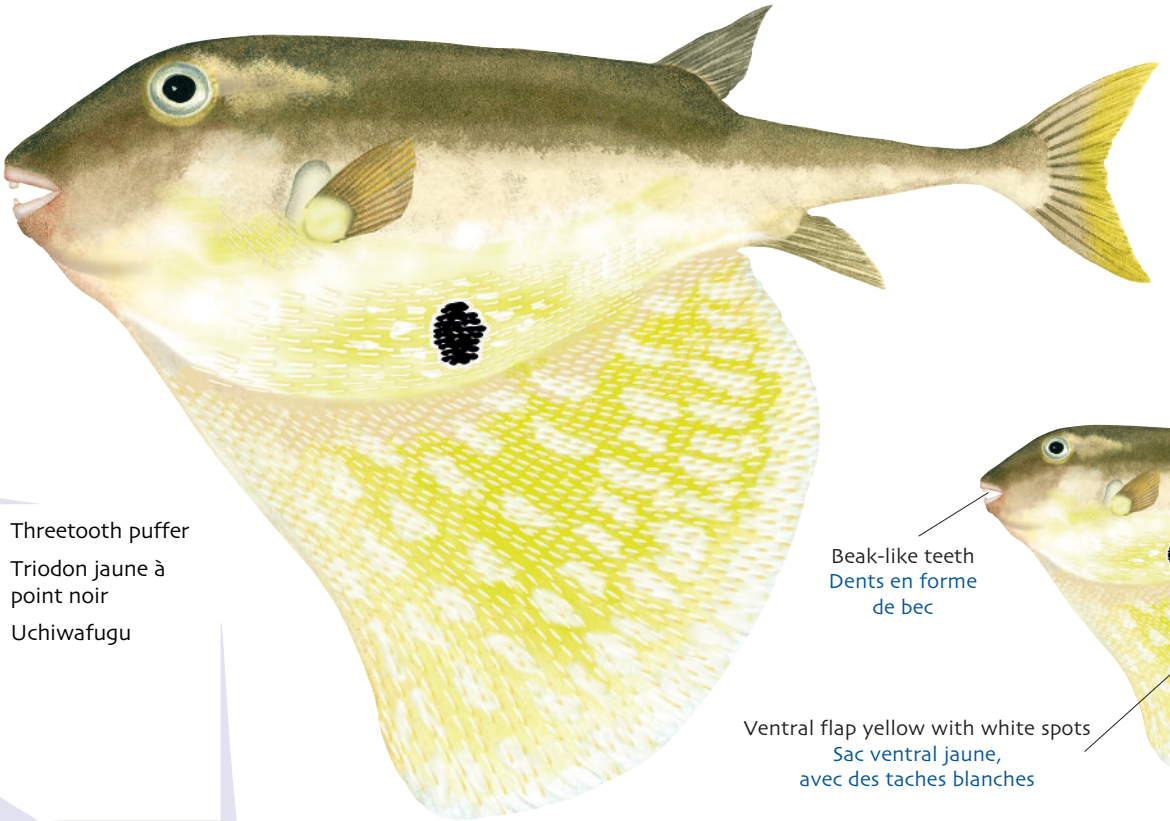
Hawaiian: No-hu, O'opu kai nohu

Local:

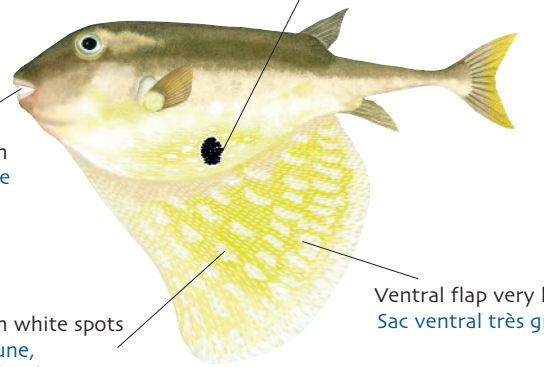
Triodon macropterus

50–300 m

TDU



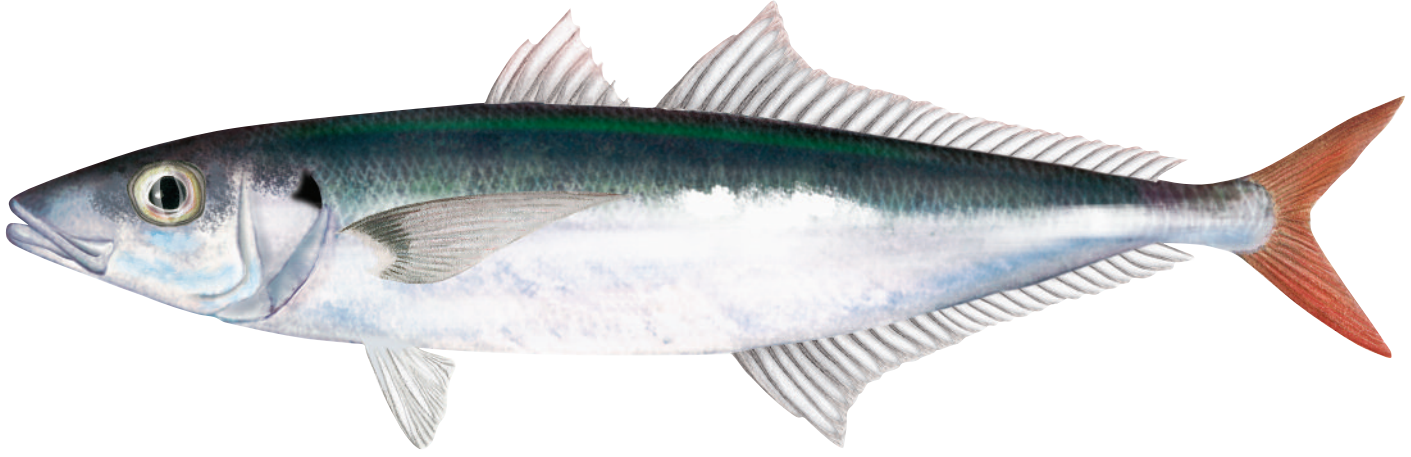
English: Threetooth puffer
French: Triodon jaune à point noir
Japanese: Uchiwafugu
Local:



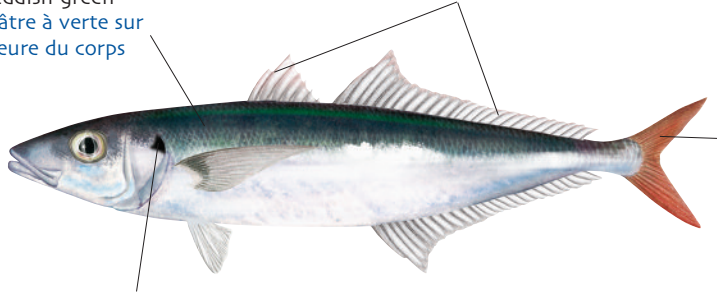
Decapterus tabl

DCT

200–360 m



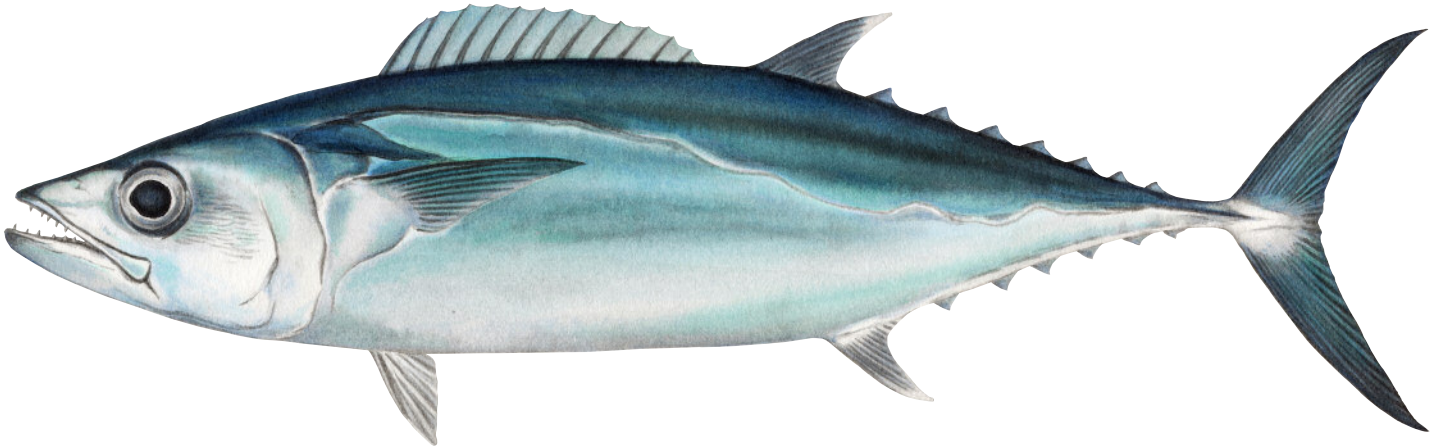
English: Roughear scad
French: Comète queue rouge
Japanese: Oaka-muro
Local:



Gymnosarda unicolor

DOT

1–120 m



English: Dogtooth tuna

French: Bonite à gros yeux, Thon dents de chien

Japanese: Iso-maguro

Local:

Cone-shaped (dog-like) teeth in a large mouth
Dents coniques (dents de chien) dans une large gueule

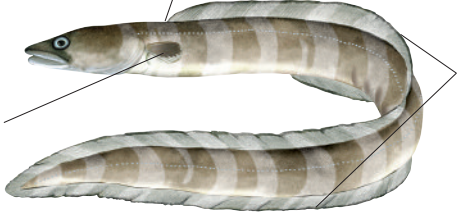
Obvious wavy lateral line
Ligne latérale sinueuse clairement visible

Conger cinereus

COI

1–200 m

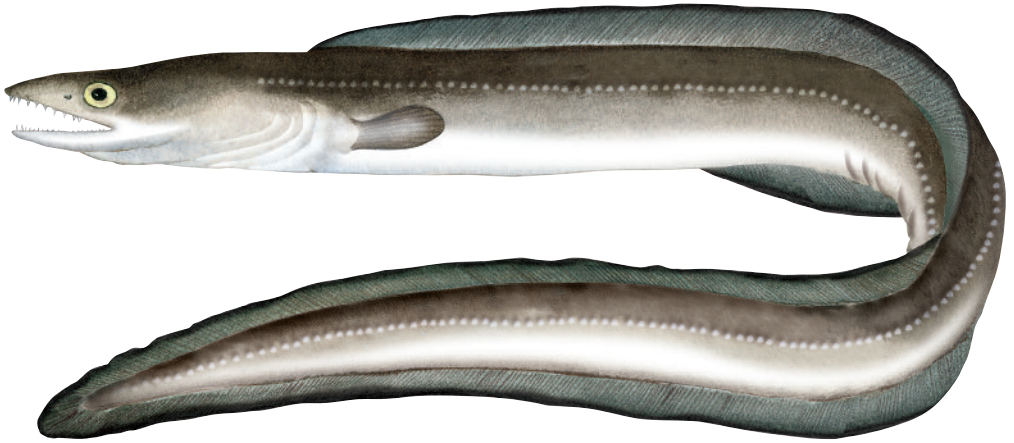
English: Longfin conger
French: Congre oiro
Japanese: Kiri-anago
Hawaiian: Tohei, White eel, Puli-uha
Local:



Muraenesox cinereus

DPC

1–740 m

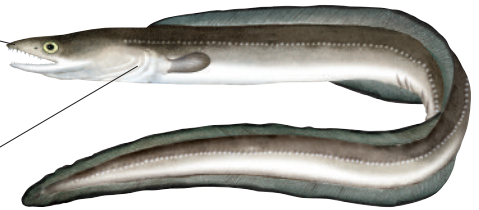


English: Daggertooth pike conger

French: Murénésoce-dague

Japanese: Hamo

Local:



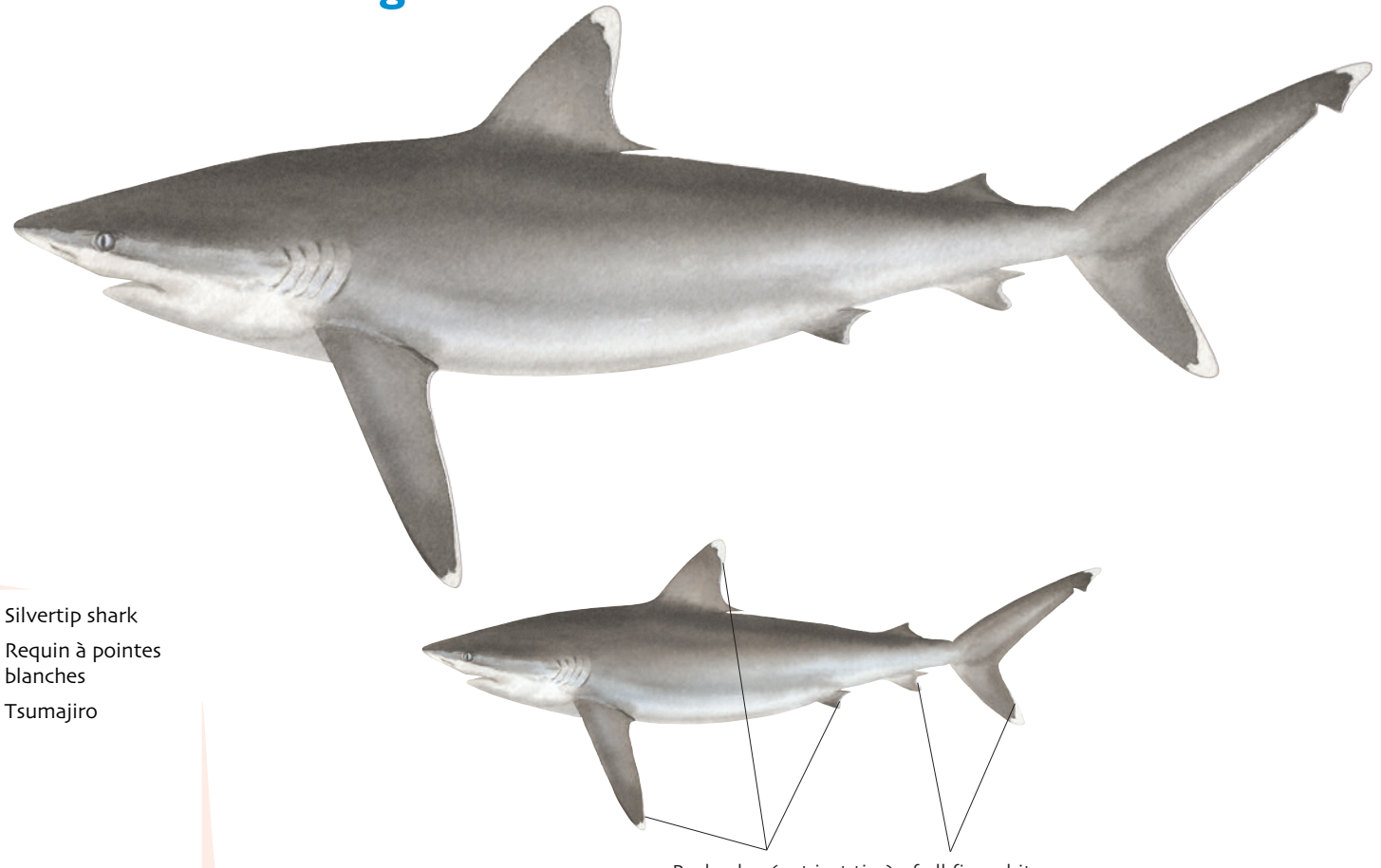
Sharks / Requins

Scientific	FAO code	English	French	Page
Carcharhinus albimarginatus	ALS	Silvertip shark	Requin à pointes blanches	142
Triaenodon obesus	TRB	Whitetip reef shark	Requin corail	143
Carcharhinus amblyrhynchos	AML	Grey reef shark	Requin dagsit, Requin gris de récif	144
Carcharhinus plumbeus	CCP	Sandbar shark	Requin gris, Requin gris à haute dorsale	145
Hexanchus griseus	SBL	Bluntnose sixgill shark	Requin grisé	146
Carcharhinus melanopterus	BLR	Blacktip reef shark	Requin à pointes noires	147
Squalus megalops	DOP	Shortnose spurdog	Aiguillat nez court	148

Carcharhinus albimarginatus

ALS

1–800 m



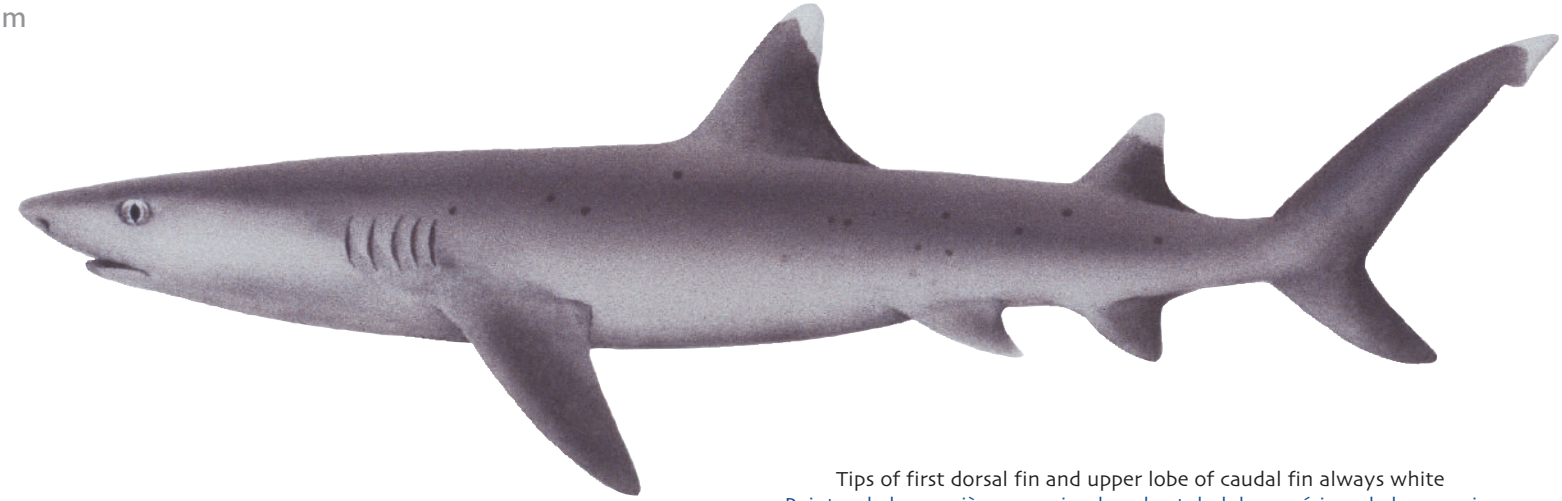
Back edge (not just tips) of all fins white
Bords postérieurs (pas seulement les extrémités) de toutes les nageoires blancs

English: Silvertip shark
French: Requin à pointes blanches
Japanese: Tsumajiro
Local:

Triaenodon obesus

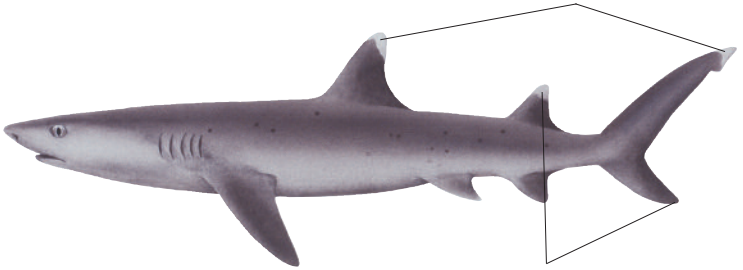
TRB

1–330 m



Tips of first dorsal fin and upper lobe of caudal fin always white
Pointes de la première nageoire dorsale et du lobe supérieur de la nageoire caudale toujours blanches

English: Whitetip reef shark
French: Requin corail
Japanese: Nemuribuka
Hawaiian: Mano lalakea
Local:

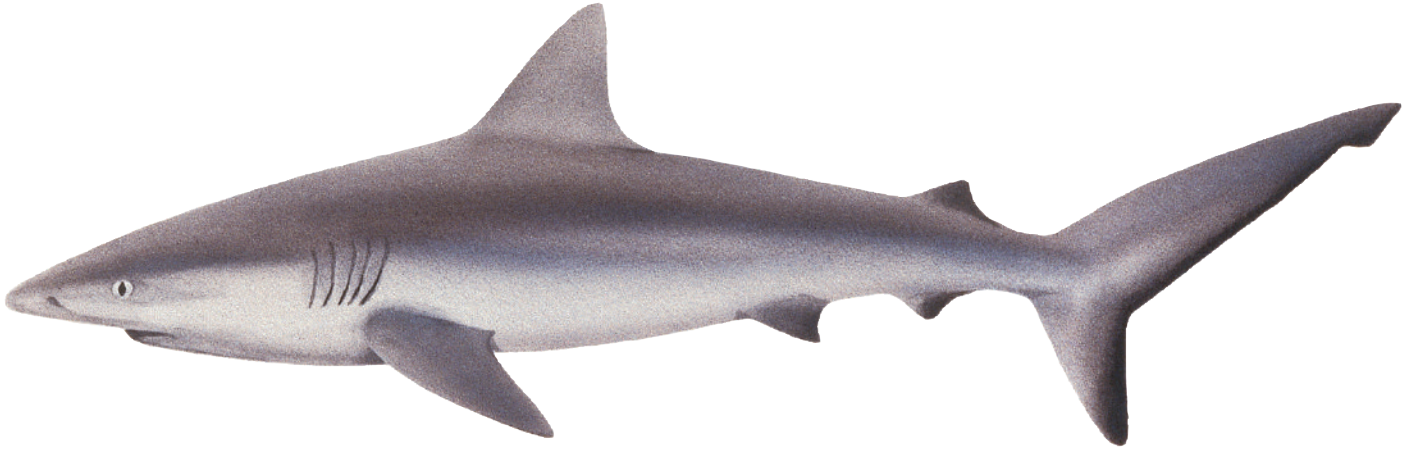


Tips of second dorsal fin and lower lobe of caudal fin sometimes white
Pointes de la deuxième nageoire dorsale et du lobe inférieur de la nageoire caudale parfois blanches

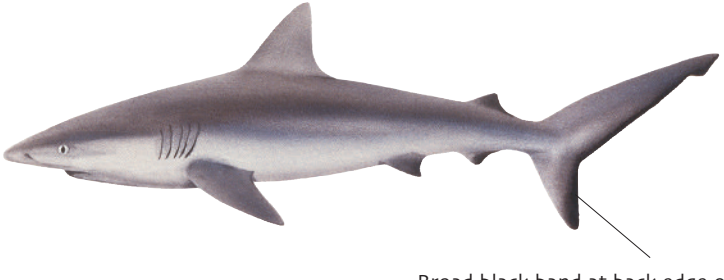
Carcharhinus amblyrhynchos

AML

1–280 m



English: Grey reef shark
French: Requin dagsit, Requin gris de récif
Japanese: Oguromejirozame, Haiiromejirozame
Hawaiian: Mano lalakea
Local:

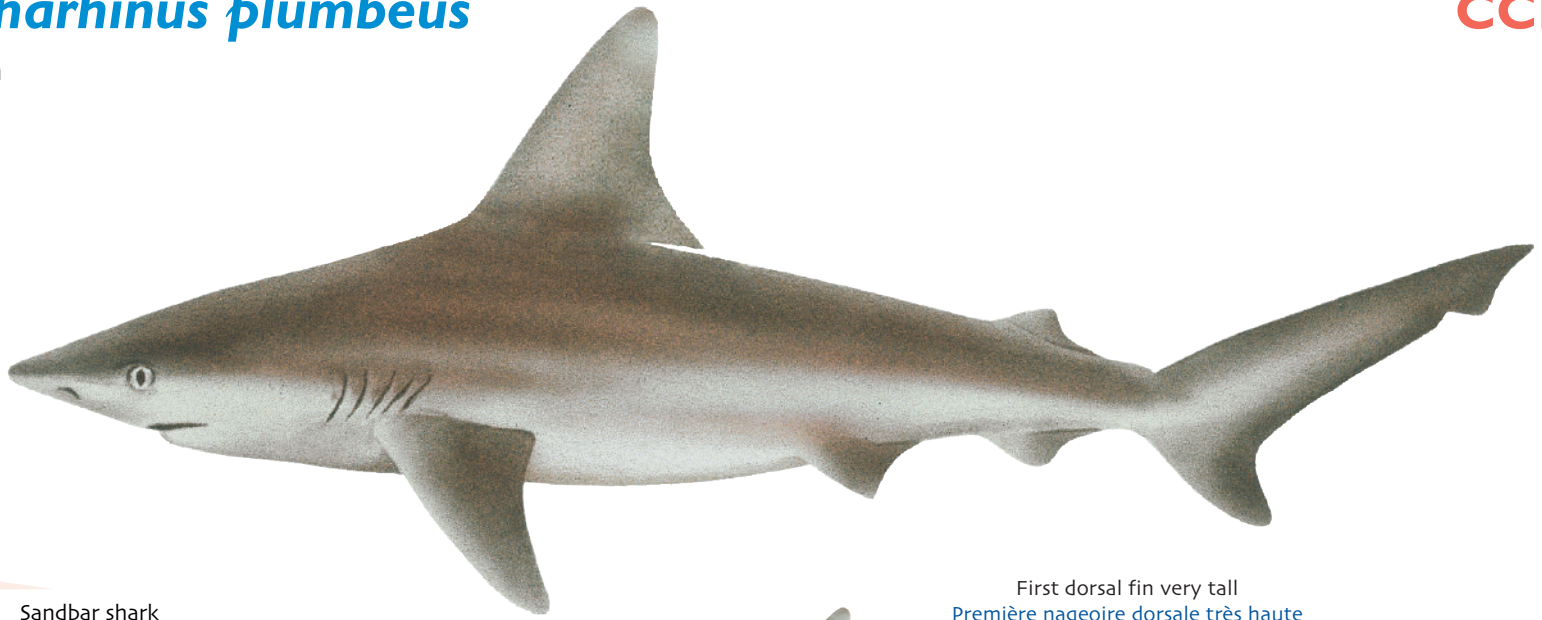


Broad black band at back edge of caudal fin
Large bande noire sur le bord postérieur de la nageoire caudale

Carcharhinus plumbeus

CCP

1–1800 m



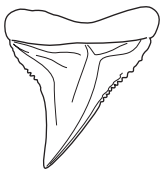
English: Sandbar shark

French: Requin gris, Requin gris à haute dorsale

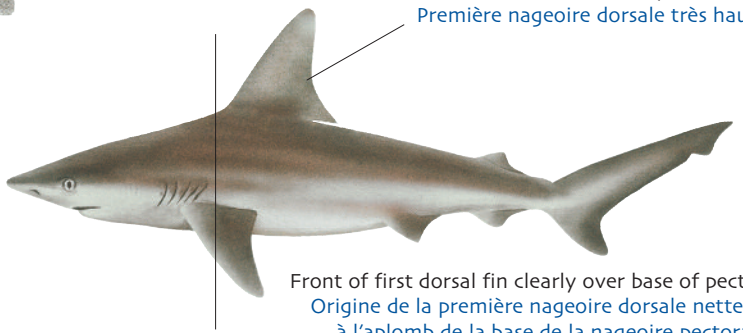
Japanese: Mejirozame, Yajibuka

Hawaiian: Mano

Local:



Shape of upper teeth
Forme des dents supérieures



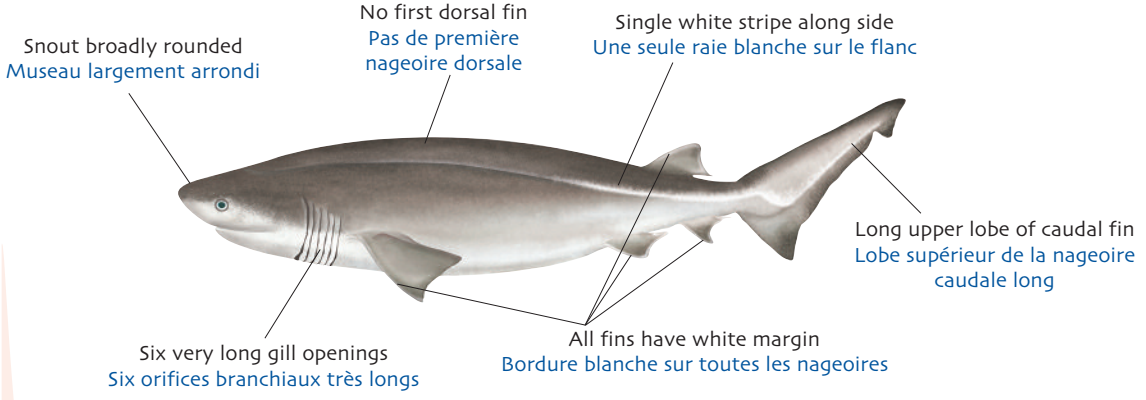
First dorsal fin very tall
Première nageoire dorsale très haute

Front of first dorsal fin clearly over base of pectoral fin
Origine de la première nageoire dorsale nettement à l'aplomb de la base de la nageoire pectorale

Hexanchus griseus

SBL

1–2500 m

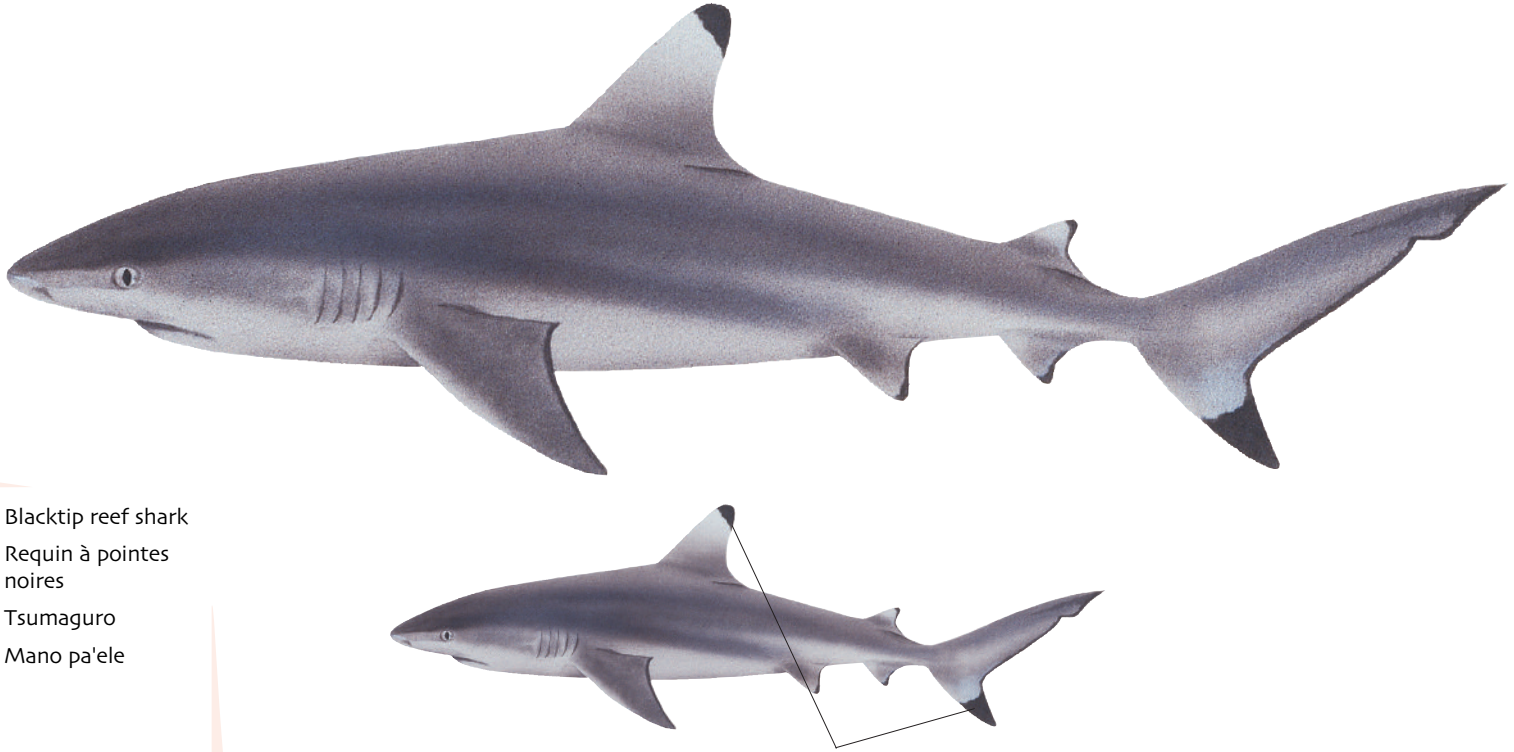


English: Bluntnose sixgill shark
French: Requin grisé
Japanese: Kagurazame
Local:

Carcharhinus melanopterus

BLR

1–110 m



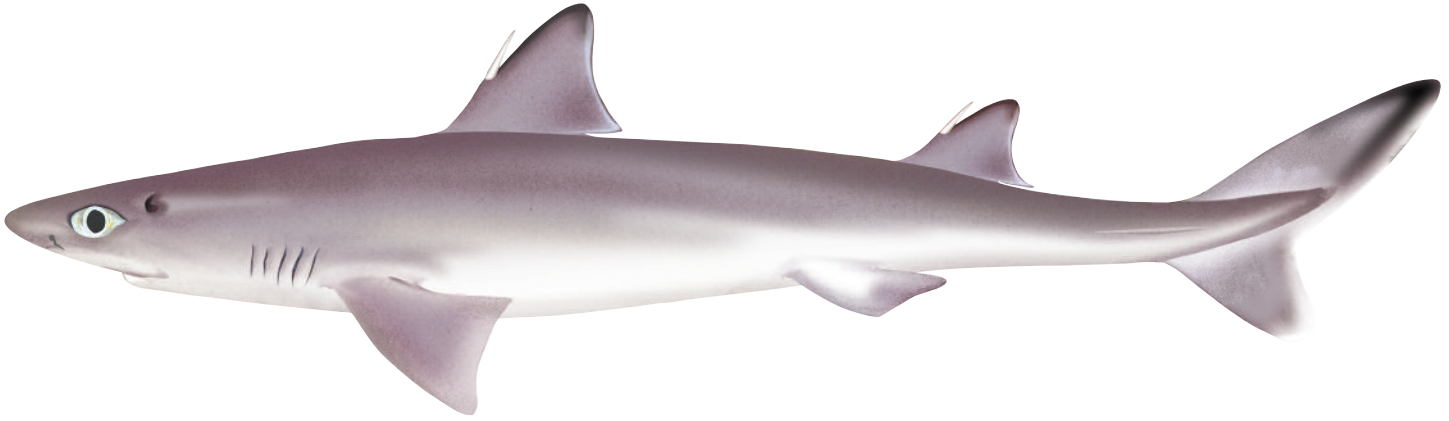
English: Blacktip reef shark
French: Requin à pointes noires
Japanese: Tsumaguro
Hawaiian: Mano pa'ele
Local:

Distinct black markings on tips of first dorsal fin and lower lobe of caudal fin
Marques noires distinctes sur les pointes de la première nageoire dorsale et du lobe inférieur de la nageoire caudale

Squalus megalops

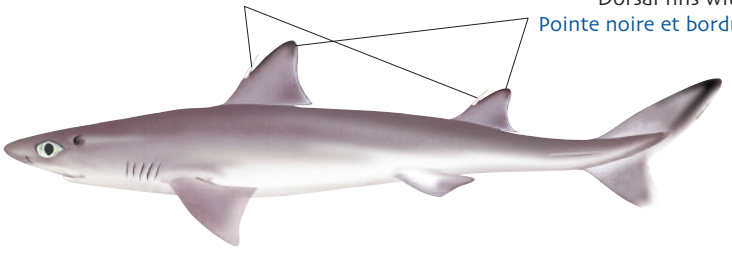
DOP

30–750 m



Spine on leading edge of both first and second dorsal fins
Épine sur le bord antérieur des deux nageoires dorsales

Dorsal fins with black tips and white margins
Pointe noire et bordure blanche sur les nageoires dorsales



English: Shortnose spurdog
French: Aiguillat nez court
Japanese: Tsumari-tsuno-zame
Local:

Index
Index

Aiguillat nez court 148
Alfonsino 120
Almaco jack 110
Ambon emperor 49
Anglais 25
Aphareus rutilans 2
Aprion virescens 3
Apsilinae 1
Areolate grouper 85
Argyrops spinifer 127
Autres poissons osseux 119
Banded grouper 68
Beauclaire de roche 128
Beauclaire miroir 129
Béryx commun 120
Beryx decadactylus 120
Béryx long 121
Beryx splendens 121
Bigeye trevally 105
Black and white snapper 38
Black jack 103
Black snoek 114
Blacksaddled coralgrouper 95
Blacktail snapper 35
Blacktip reef shark 147
Blubberlip snapper 37
Blue-lined large-eye bream 42
Bluntnose sixgill shark 146
Bodianus perditio 130
Bonite à gros yeux 137
Branchiostegus wardi 131
Brocade perch 124
Brown-marbled grouper 78
Brownspotted grouper 83
Camouflage grouper 79
Carangidae 101
Carangoides chrysophrys 109
Carangoides fulvoguttatus 106
Carangoides orthogrammus 107
Carangue dentue 108
Carangue des îles 107
Carangue noire 103
Carangue pailletée 106
Carangue tapir 109
Carangue têtue 102
Carangue tille 104
Carangue vorace 105
Carangues 101
Caranx ignobilis 102
Caranx lugubris 103
Caranx sexfasciatus 105
Caranx tille 104
Carcharhinus albimarginatus 142
Carcharhinus amblyrhynchos 144
Carcharhinus melanopterus 147
Carcharhinus plumbeus 145
Cephalopholis argus 67
Cephalopholis aurantia 64
Cephalopholis igarashiensis 66
Cephalopholis miniata 63
Cephalopholis sexmaculata 62
Cephalopholis sonnerati 65
Cephalopholis spiloparaea 61
Cephalopholis urodeta 60
Cocoa snapper 19
Colas à bandes dorées 11
Colas bagnard 16
Colas dentu 13
Colas drapeau 15
Colas écailleux 12
Colas fil 8
Colas lavande 9
Colas œil doré 10
Colas orné 14
Comet grouper 88
Comète queue rouge 136
Common bluestripe snapper 32
Conger cinereus 138
Congre oiro 138
Coral hind 63
Crimson jobfish 8
Crimson snapper 28
Croissant queue blanche 98
Croissant queue jaune 99
Cromileptes altivelis 86
Daggertooth pike conger 139
Darkfin hind 60
Decapterus tabl 136
Deepwater longtail red snapper 7
Deepwater red snapper 4
Dogtooth tuna 137
Dot-dash grouper 90
Eightbar grouper 73
Empereur à bande orange 54
Empereur à museau rouge 55
Empereur bariadiva 43
Empereur bas cou 48
Empereur bec-de-cane 51
Empereur blanc à points noirs 40
Empereur capitaine 57
Empereur d'Ambon 49
Empereur doré 56
Empereur gris 41
Empereur gueule longue 47
Empereur gueule rouge 44
Empereur honteux 50
Empereur lentille 55
Empereur moris 45
Empereur orné 52
Empereur tatoué 42
Empereur tidents 46
Empereurs 39
Emperor red snapper 29
Emperors 39
Epinephelus amblycephalus 68
Epinephelus areolatus 85
Epinephelus caeruleopunctatus 77
Epinephelus chlorostigma 83
Epinephelus cyanopodus 87
Epinephelus fuscoguttatus 78

Epinephelus irroratus 74
Epinephelus lanceolatus 75
Epinephelus maculatus 82
Epinephelus magniscuttis 92
Epinephelus malabaricus 72
Epinephelus miliaris 81
Epinephelus morrhua 88
Epinephelus octofasciatus 73
Epinephelus poecilonotus 90
Epinephelus polyphekadion 79
Epinephelus quernus 76
Epinephelus radiatus 89
Epinephelus retouti 70
Epinephelus rivulatus 71
Epinephelus sexfasciatus 69
Epinephelus tauvina 80
Epinephelus tuamotuensis 91
Epinephelus tukula 84
Erythrocles schlegelii 122
Erythrocles scintillans 123
Escolier clair 117
Escolier gracile 114
Escolier serpent 115
Escoliers 113
Etelinae 1
Etelis carbunculus 4
Etelis coruscans 7
Etelis radiosus 6
Flame snapper 7
Garish hind 66
Gempylidae 113
Gempylus serpens 115
Giant grouper 75
Giant trevally 102
Glasseye 128
Goldbanded jobfish 11
Golden eye jobfish 10
Golden grouper 93
Golden hind 64
Golden kalikali 123
Golden-spot hogfish 130
Goldflag jobfish 15
Greasy grouper 80
Greater amberjack 111
Green jobfish 3
Grey large-eye bream 41
Grey reef shark 144
Groupers 58
Gymnocranius euanus 40
Gymnocranius grandoculis 42
Gymnocranius griseus 41
Gymnosarda unicolor 137
Halfmoon grouper 71
Hawaiian grouper 76
Heteropriacanthus cruentatus 128
Hexanchus griseus 146
Highfin coralgrouper 96
Highfin grouper 82
Humpback grouper 86
Humpback red snapper 31
Island trevally 107
Japanese large-eye bream 40
Japanese rubyfish 122
Japanese soldierfish 124
Kai soldierfish 125
King solider bream 127
Labre de la perdition 130
Large-headed scorpionfish 134
Lavender jobfish 9
Leopard coralgrouper 94
Lethrinidae 39
Lethrinus amboinensis 49
Lethrinus atkinsoni 56
Lethrinus erythracanthus 57
Lethrinus lentjan 53
Lethrinus microdon 46
Lethrinus miniatus 44
Lethrinus nebulosus 45
Lethrinus obsoletus 54
Lethrinus olivaceus 47
Lethrinus ornatus 52
Lethrinus reticulatus 55
Lethrinus rubrioperculatus 50
Lethrinus variegatus 48
Lethrinus xanthochilus 51
Lipocheilus carnolabrum 17
Longface emperor 47
Longfin conger 138
Longfin yellowtail, Almaco jack 110
Longnose trevally 109
Lutjanidae — Etelinae & Apsilinae 1
Lutjanidae — Lutjaninae 23
Lutjaninae 23
Lutjanus adetii 30
Lutjanus argentimaculatus 24
Lutjanus bohar 25
Lutjanus erythropterus 28
Lutjanus fulvus 35
Lutjanus gibbus 31
Lutjanus kasmira 32
Lutjanus lemniscatus 36
Lutjanus malabaricus 27
Lutjanus monostigma 34
Lutjanus rivulatus 37
Lutjanus rufolineatus 33
Lutjanus sebae 29
Lutjanus timorensis 26
Macolor niger 38
Malabar blood snapper 27
Malabar grouper 72
Mangrove red snapper 24
Marignan sabre 126
Marquesan grouper 74
Mérou à bout rouge 70
Mérou à taches blanches 77
Mérou abeille 81
Mérou aréolé 85
Mérou bande 68
Mérou bleu 87
Mérou bossu 86
Mérou camouflage 79
Mérou comète 88
Mérou demi-lune 71
Mérou d'or 93
Mérou grandes écailles 92
Mérou haute voile 82
Mérou hawaiien 76
Mérou huit raies 73
Mérou lancéolé 75
Mérou loutre 80
Mérou malabare 72

Mérou Marquises 74
Mérou marron 78
Mérou morse 90
Mérou patate 84
Mérou pintade 83
Mérou queue carrée 97
Mérou réseau 91
Mérou sellé 95
Mérou six raies 69
Mérou zébré 89
Mérou-loche cacatois 96
Mérous 59
Moontail bullseye 129
Mozambique large-eye bream 43
Muraenesox cinereus 139
Murénésoce-dague 139
Neoscombrops pacificus 133
Netfin grouper 81
Oblique-banded grouper 89
Oblique-banded snapper 16
Œil d'argent 132
Oilfish 116
Onespot snapper 34
Orange-spotted emperor 57
Orange-striped emperor 54
Ornate emperor 52
Ornate jobfish 14
Ostichthys japonicus 124
Ostichthys kaianus 125
Other bony fish 119
Pacific yellowtail emperor 56
Pale snapper 6
Paracaesio gonzalesi 21
Paracaesio kusakarii 18
Paracaesio stonei 19
Paracaesio xanthura 20
Parapristipomoides squamimaxillaris 12
Peacock hind 67
Pink ear emperor 53
Plectropomus areolatus 97
Plectropomus laevis 95
Plectropomus leopardus 94
Plectropomus oligacanthus 96
Poisson scorpion grosse tête 134
Poisson trompette de Schlegel 122
Poisson trompette scintillant 123
Polymixia japonica 132
Pontinus macrocephalus 134
Potato grouper 84
Priacanthus hamrur 129
Pristipomoides argyrogrammicus 14
Pristipomoides auricilla 15
Pristipomoides filamentosus 8
Pristipomoides flavipinnis 10
Pristipomoides multidens 11
Pristipomoides sieboldii 9
Pristipomoides typus 13
Pristipomoides zonatus 16
Promethichthys prometheus 117
Pseudocaranx dentex 108
Randallichthys filamentosus 5
Randall's snapper 5
Red snout emperor 55
Red-tipped grouper 70
Requin à pointes blanches 142
Requin à pointes noires 147
Requin corail 143
Requin dagsit 144
Requin gris à haute dorsale 145
Requin gris de récif 144
Requin gris 145
Requin grisé 146
Requins 141
Reticulate grouper 91
Roudi escolar 117
Roughear scad 136
Rouvet 116
Ruby snapper 4
Rusty jobfish 2
Ruvettus pretiosus 116
Sabre squirrelfish 126
Saddle-back snapper 18
Saloptia powelli 93
Sandbar shark 145
Sargocentron spiniferum 126
Saumonée léopard 94
Scalemouth jobfish 12
Scarlet snapper 6
Seriola dumerili 111
Seriola rivoliana 110
Sériole couronnée 111
Sériole limon 110
Serranidae 58
Sharks 141
Sharptooth jobfish 13
Shortnose spurdog 148
Silver eye 132
Silvertip shark 142
Sixbar grouper 69
Sixblotch hind 62
Slender emperor 48
Smalltooth emperor 46
Snake mackerel 115
Snake mackerels 113
Snappers (deep-bottom) 1
Snappers (shallow) 23
Soldat japonais 124
Soldat japonais rayé 125
Spangled emperor 45
Spare royal 127
Speckled blue grouper 87
Speckled grouper 92
Splendid alfonsino 121
Spotcheek emperor 50
Squalus megalops 148
Squaretail coralgrouper 97
Strawberry hind 61
Tang's snapper 17
Tête de cheval 131
Thon dents de chien 137
Threetooth puffer 135
Thyrsitoides marleyi 114

Tille trevally 104
Timor snapper 26
Tomato hind 65
Trevallies 101
Triaenodon obesus 143
Triodon jaune à point noir 135
Triodon macropterus 135
Trumpet emperor 44
Two-spot red snapper 25
Vanuatu snapper 21
Variola albimarginata 98
Variola louti 99
Vieille aile noire 60
Vieille ananas 65
Vieille de corail 63
Vieille dorée 64
Vieille fraise 61
Vieille la prude 67
Vieille six taches 62
Vieille voyante 66
Vivaneau à lignes jaunes 33
Vivaneau à raies bleues 32
Vivaneau à raies jaunes 36
Vivaneau bourgeois 29
Vivaneau chien rouge 25
Vivaneau cramoisi 28
Vivaneau de nuit 30
Vivaneau de Randall 5
Vivaneau de Timor 26
Vivaneau des mangroves 24
Vivaneau écarlate 6
Vivaneau eglefin 34
Vivaneau job 3
Vivaneau la flamme 7
Vivaneau malabar 27
Vivaneau maori 37
Vivaneau pagaie 31
Vivaneau pâle 6
Vivaneau plate 38
Vivaneau queue noire 35
Vivaneau rouillé 2
Vivaneau rubis 4
Vivaneau verrue 17
Vivaneaux peu profonds 23
Vivaneaux profonds 1
Vivanette cacao 19
Vivanette queue jaune 20
Vivanette sellée 18
Vivanette Vanuatu 21
Ward's tilefish 131
Wattsia mossambica 43
White trevally 108
White-edged lyretail 98
Whitespotted grouper 77
Whitetip reef shark 143
Yellow-banded snapper 30
Yellow-edged lyretail 99
Yellow-lined snapper 33
Yellowlip emperor 51
Yellowspotted trevally 106
Yellowstreaked snapper 36
Yellowtail blue snapper 20

Index of FAO codes
Index des codes FAO

ALS	*Carcharhinus albimarginatus*	142
AMB	*Seriola dumerili*	111
AML	*Carcharhinus amblyrhynchos*	144
ARQ	*Aphareus rutilans*	2
AVR	*Aprion virescens*	3
BDT	*Bodianus perditio*	130
BLR	*Carcharhinus melanopterus*	147
BWH	*Priacanthus hamrur*	129
BXD	*Beryx decadactylus*	120
BYS	*Beryx splendens*	121
CCP	*Carcharhinus plumbeus*	145
CFF	*Cephalopholis argus*	67
CFI	*Cephalopholis miniata*	63
CFX	*Cephalopholis sexmaculata*	62
CFZ	*Cephalopholis aurantia*	64
COI	*Conger cinereus*	138
CWI	*Cephalopholis igarashiensis*	66
CWR	*Cephalopholis spiloparaea*	61
CWU	*Cephalopholis urodeta*	60
CXS	*Caranx sexfasciatus*	105
DCT	*Decapterus tabl*	136
DOP	*Squalus megalops*	148
DOT	*Gymnosarda unicolor*	137
DPC	*Muraenesox cinereus*	139
EEC	*Epinephelus maculatus*	82
EEJ	*Epinephelus magniscuttis*	92
EEK	*Epinephelus polyphekadion*	79
EEN	*Epinephelus lanceolatus*	75
EEP	*Epinephelus morrhua*	88
EEQ	*Epinephelus quernus*	76
EEW	*Etelis radiosus*	6
EFH	*Epinephelus chlorostigma*	83
EFT	*Cephalopholis sonnerati*	65
EFX	*Epinephelus sexfasciatus*	69
EFY	*Epinephelus amblycephalus*	68
EME	*Plectropomus areolatus*	97
EML	*Plectropomus laevis*	95
EMO	*Plectropomus leopardus*	94
EMW	*Plectropomus oligacanthus*	96
EPR	*Epinephelus areolatus*	85
EPT	*Epinephelus tauvina*	80
EPV	*Epinephelus rivulatus*	71
EPY	*Epinephelus cyanopodus*	87
ERY	*Erythrocles schlegelii*	122
ERZ	*Erythrocles scintillas*	123
ETA	*Etelis carbunculus*	4
ETC	*Etelis coruscans*	7
EWC	*Epinephelus caeruleopunctatus*	77
EWF	*Epinephelus fuscoguttatus*	78
EWI	*Epinephelus irroratus*	74
EWL	*Epinephelus tukula*	84
EWM	*Epinephelus miliaris*	81
EWO	*Epinephelus octofasciatus*	73
EWP	*Epinephelus poecilonotus*	90
EWR	*Epinephelus retouti*	70
EWT	*Epinephelus tuamotuensis*	91
EZR	*Epinephelus radiatus*	89
GES	*Gempylus serpens*	115
GMQ	*Gymnocranius euanus*	40
GMR	*Gymnocranius griseus*	41
GMW	*Gymnocranius grandoculis*	42
HTU	*Heteropriacanthus cruentatus*	128
HVS	*Sargocentron spiniferum*	126
HWJ	*Ostichthys japonicus*	124
HWK	*Ostichthys kaianus*	125
KBR	*Argyrops spinifer*	127
LDW	*Lutjanus adetii*	30
LEN	*Lethrinus microdon*	46
LHB	*Lethrinus rubrioperculatus*	50
LHI	*Lethrinus miniatus*	44
LHN	*Lethrinus nebulosus*	45
LHO	*Lethrinus olivaceus*	47
LHR	*Lethrinus reticulatus*	55
LHV	*Lethrinus variegatus*	48
LIR	*Lipocheilus carnolabrum*	17
LJB	*Lutjanus bohar*	25
LJG	*Lutjanus gibbus*	31
LJK	*Lutjanus monostigma*	34
LJT	*Lutjanus erythropterus*	28
LJV	*Lutjanus fulvus*	35
LLB	*Lethrinus amboinensis*	49
LQO	*Lethrinus ornatus*	52
LRB	*Pristipomoides sieboldii*	9
LRG	*Paracaesio gonzalesi*	21
LRI	*Pristipomoides multidens*	11
LRK	*Paracaesio kusakarii*	18
LRU	*Pristipomoides typus*	13
LRX	*Paracaesio xanthura*	20
LRY	*Pristipomoides argyrogrammicus*	14

LTS	*Lethrinus lentjan*	53
LTT	*Lethrinus atkinsoni*	56
LUB	*Lutjanus sebae*	29
LUF	*Lutjanus rufolineatus*	33
LUV	*Lutjanus rivulatus*	37
LVK	*Lutjanus kasmira*	32
LWA	*Pristipomoides auricilla*	15
LWF	*Pristipomoides flavipinnis*	10
LWL	*Lutjanus lemniscatus*	36
LWO	*Lethrinus obsoletus*	54
LWR	*Paracaesio stonei*	19
LWT	*Lutjanus timorensis*	26
LWZ	*Pristipomoides zonatus*	16
LXE	*Lethrinus erythracanthus*	57
LXN	*Lethrinus xanthochilus*	51
MAL	*Lutjanus malabaricus*	27
MAR	*Epinephelus malabaricus*	72
MLN	*Macolor niger*	38
MPV	*Cromileptes altivelis*	86
NGH	*Carangoides chrysophrys*	109
NGT	*Carangoides orthogrammus*	107
NGU	*Carangoides fulvoguttatus*	106
NSW	*Neoscombrops pacificus*	133
NXI	*Caranx ignobilis*	102
NXT	*Caranx tille*	104
NXU	*Caranx lugubris*	103
OIL	*Ruvettus pretiosus*	116
OOW	*Saloptia powelli*	93
PFM	*Pristipomoides filamentosus*	8
PQM	*Parapristipomoides squamimaxillaris*	12
PRP	*Promethichthys prometheus*	117
PXJ	*Polymixia japonica*	132
PZM	*Pontinus macrocephalus*	134
RAI	*Randallichthys filamentosus*	5
RES	*Lutjanus argentimaculatus*	24
SBL	*Hexanchus griseus*	146
TDU	*Triodon macropterus*	135
THM	*Thyrsitoides marleyi*	114
TIZ	*Branchiostegus wardi*	131
TRB	*Triaenodon obesus*	143
TRZ	*Pseudocaranx dentex*	108
VRA	*Variola albimarginata*	98
VRL	*Variola louti*	99
WTM	*Wattsia mossambica*	43
YTL	*Seriola rivoliana*	110