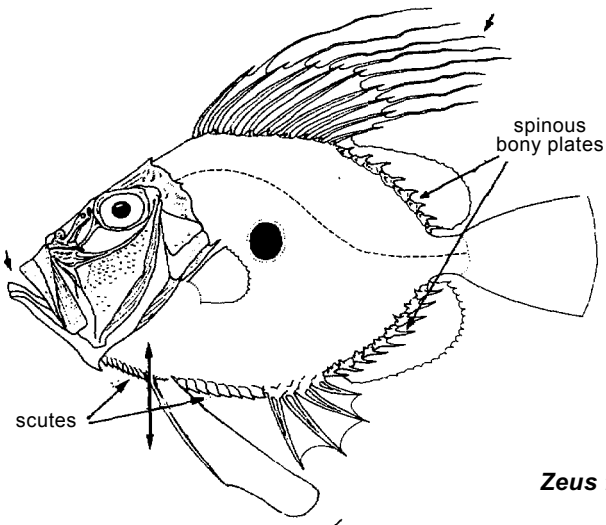
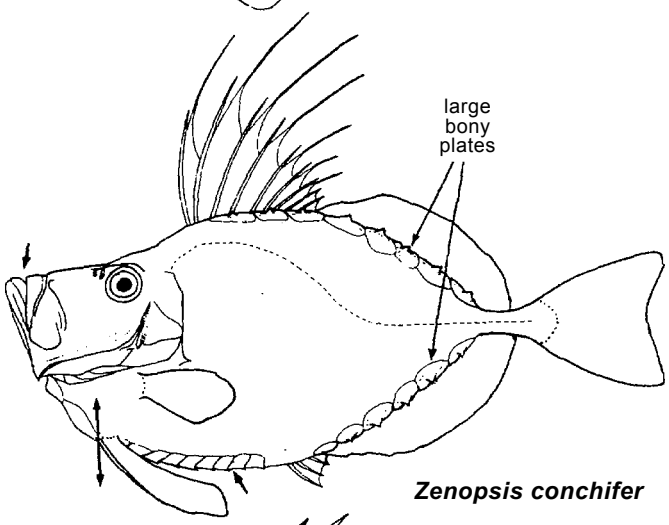
BONY FISHES

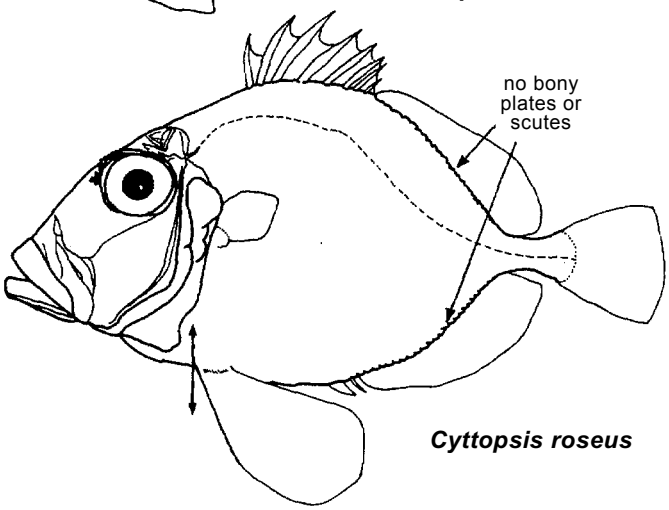
GUIDE TO FAMILIES



Zeus faber



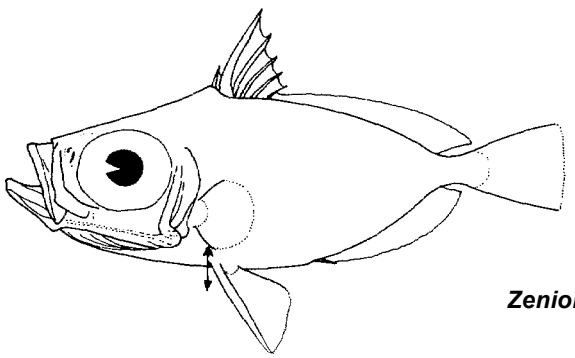
Zenopsis conchifer



Cyttopsis roseus

ZENIONTIDAE Zeniontids

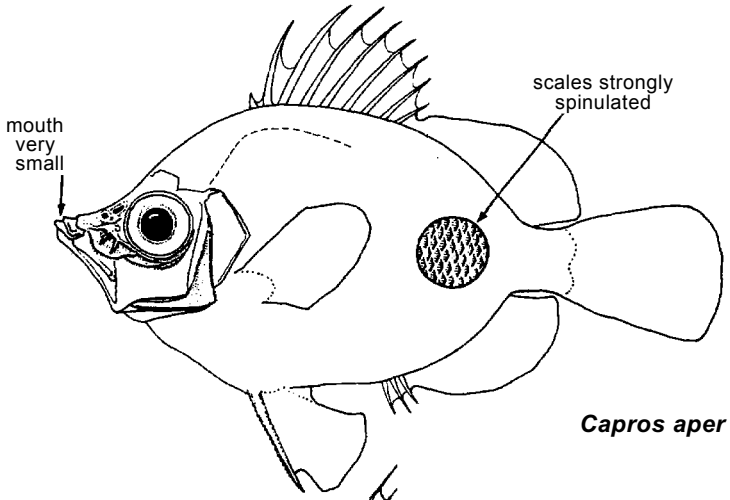
Body rather elongate, always scaled; eyes very large about half of head length; insertions of pelvic fins behind bases of pectorals. A single species in the area.



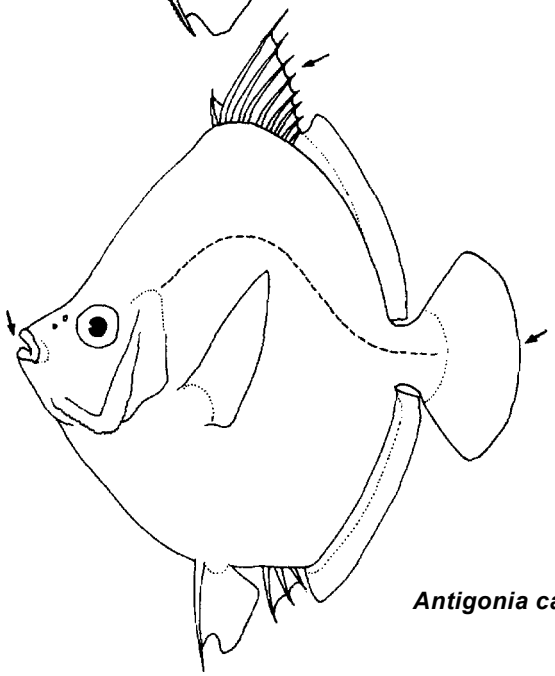
Zenion hololepis

CAPROIDAE Boarfishes

To about 30 cm; marine, from 65 to about 600 m depth; benthic to benthopelagic. Two species occasionally taken in trawls.



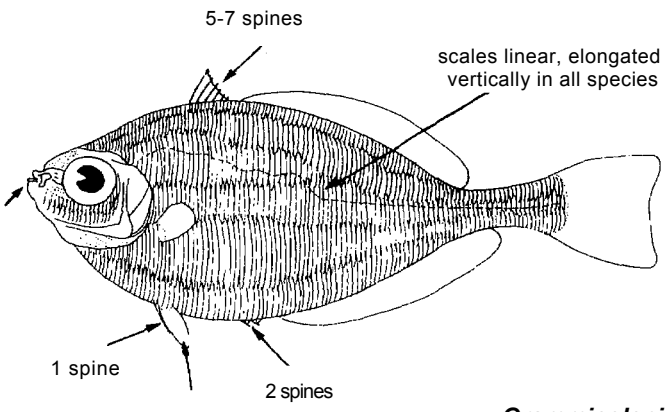
Capros aper



Antigonia capros

GRAMMICOLEPIDAE Grammicolepids

To about 20 cm; marine, from about 200 to below 500 m depth; benthopelagic.



Grammicolepis

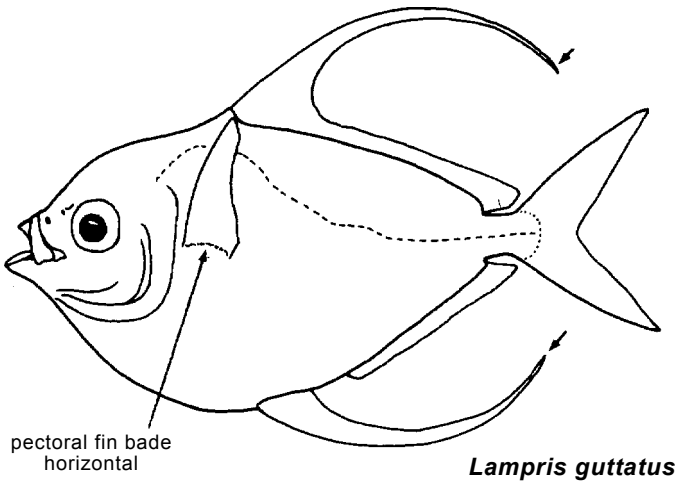
BONY FISHES
GUIDE TO FAMILIES

OPAHS AND ALLIES - Lampridiformes

Body shape highly variable with the families; no spines in fins; jaws protrusible.

LAMPRIDAE Opahs **page 77**

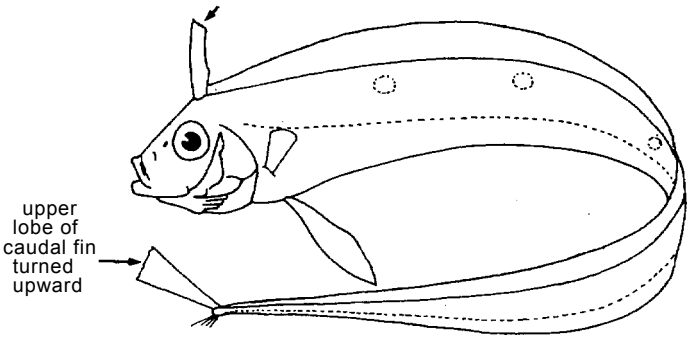
To 185 cm; marine, from the surface to about 200 m depth; pelagic. A single species.



Lampris guttatus

TRACHIPTERIDAE Ribbonfishes

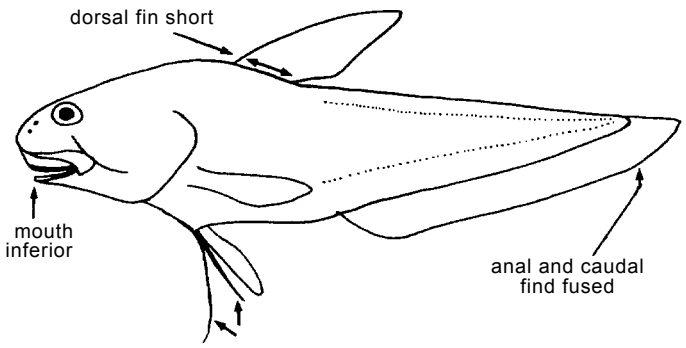
To about 200 cm; marine, from about 180 to nearly 1000 m depth; pelagic. A single species.



Trachypterus tachypterus

ATELEOPODIDAE Ateleopids

To 180 cm; marine, from 200 to 600 m depth; benthopelagic. Several genera and species present in the area.

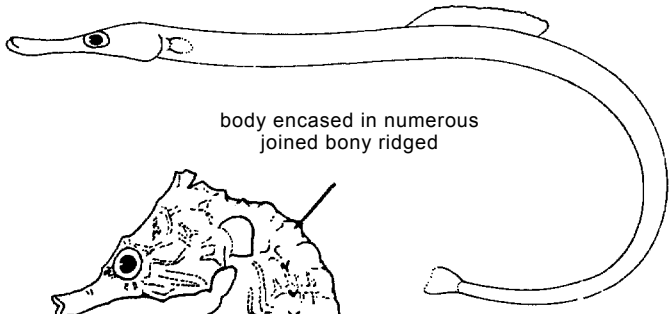


PIPEFISHES AND ALLIES - Gasterosteiformes

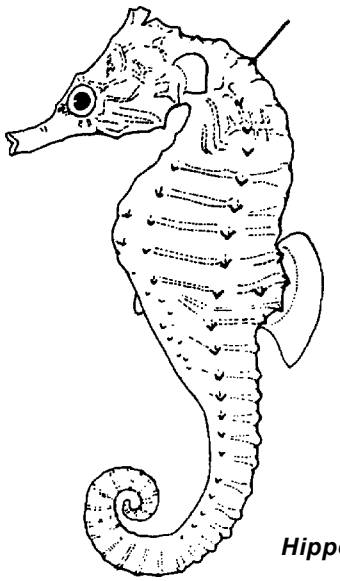
Body elongate, snout tube-like; scales sometimes modified to form series of body plates.

SYNGNATHIDAE Pipefishes

To about 30 cm; in freshwater, estuaries, coastal lagoons, littoral pools and coastal marine waters to about 90 m depth; mostly benthic (at least one species pelagic).



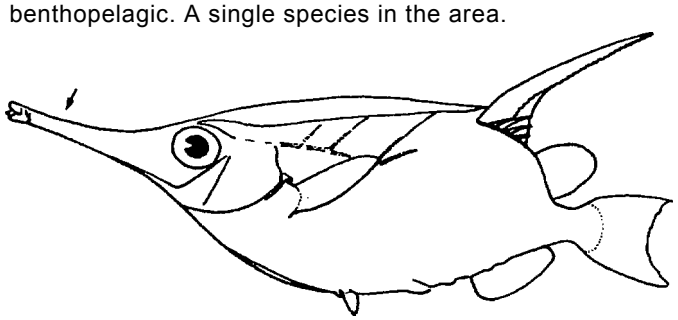
Syngnathus



Hippocampus

MACRORAMPHOSIDAE Snipefishes **page 80**

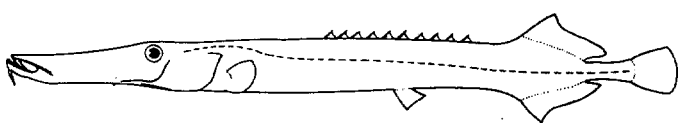
To about 15 cm; marine, from 25 to 600 m depth; benthopelagic. A single species in the area.



Macrorhamphosus scolopax

AULOSTOMIDAE Trumpetfishes

To 75 cm; marine, in shallow and clear coastal waters; often drifting head down. A single species in the area.



Aulostomus strigosus

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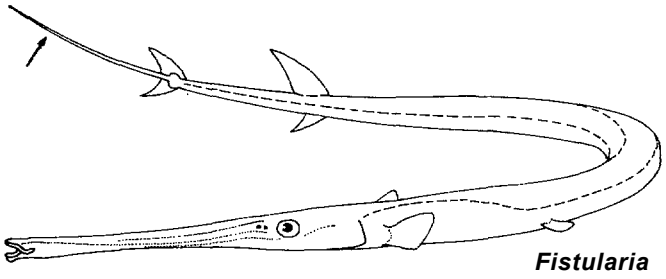
FISTULARIIDAE Cornetfishes, flutemouths **page 67**

To 200 cm; marine, shallow coastal waters.



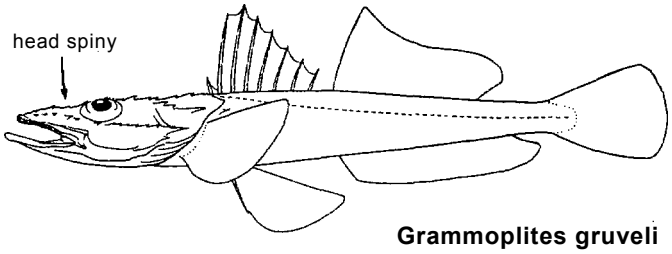
Fistularia

SCORPIONFISHES AND ALLIES - Scorpaeniformes

Cheeks with a bony strut (posterior extension of suborbital bone to preopercle); usually well developed spines on head and prominent spines in dorsal fin; pectoral fins usually rounded; membranes between lower rays often incised; caudal fin rarely forked.

PLATYCEPHALIDAE Spiny flatheads **page 90**

To 20 cm; marine, from 20 to about 200 m depth; a single species in the area.

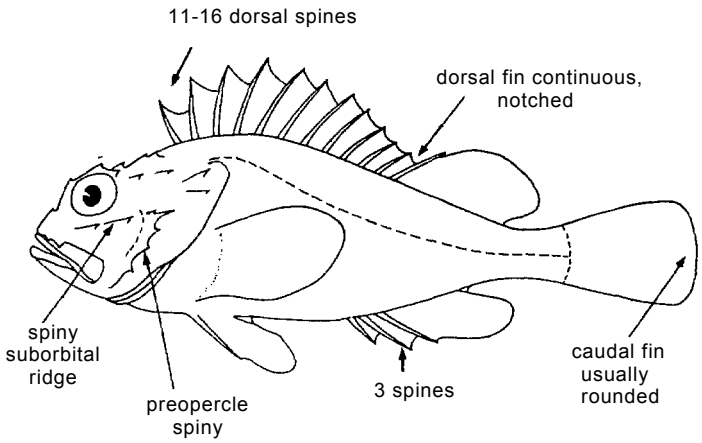


Grammoplites gruveli

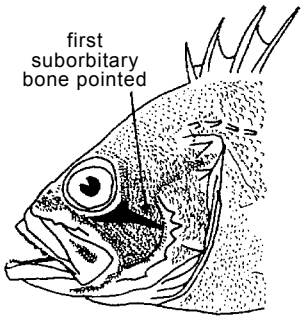
Remarks : do not confuse with Percophidae.

SCORPAENIDAE Scorpionfishes, rockfishes, rosefishes **page 101**

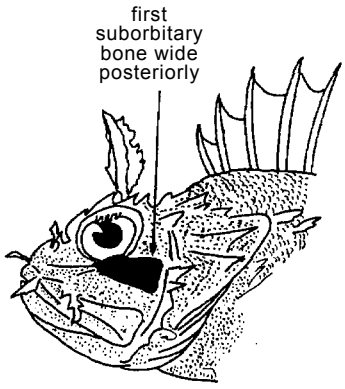
To over 50 cm; marine, from the coastline to below 600 m depth; benthic; often with venimous spines.



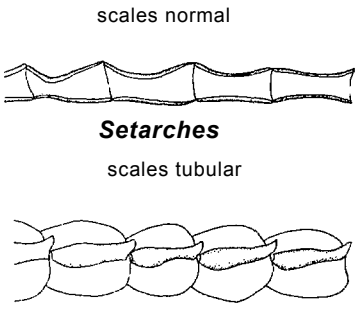
The most important genera:



Helicolenus



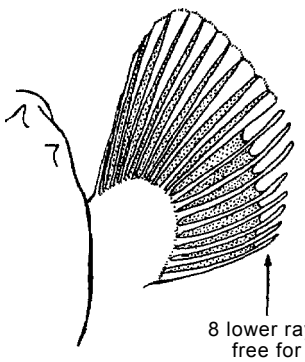
Scorpaena



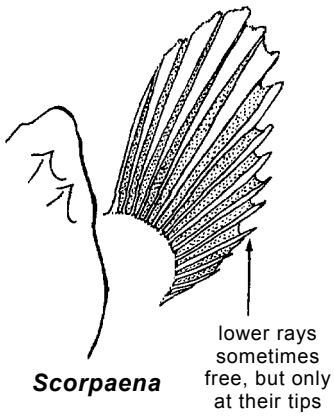
Setarches

Pontinus, Scorpaena

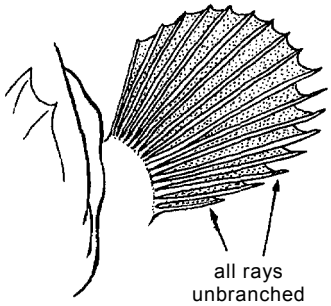
lateral lines



Helicolenus



Scorpaena



Pontinus

pectoral fins

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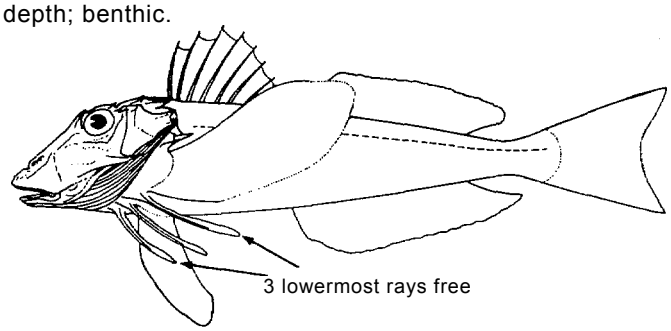
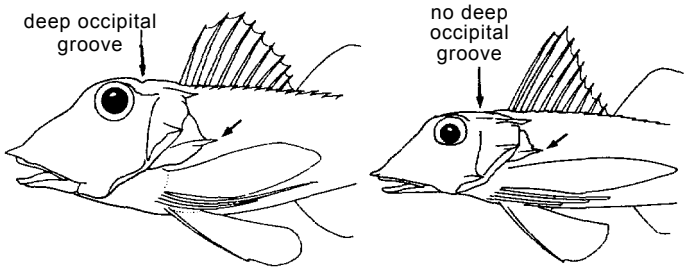
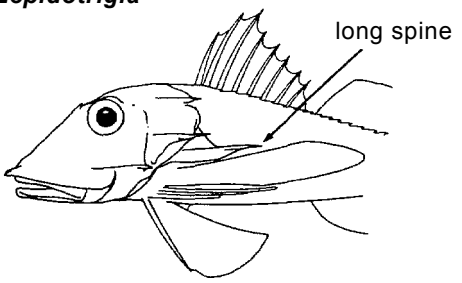
TRIGLIDAE Searobins, gurnards **page 126**

To about 45 cm; marine, from the coastline to about 200 m depth; benthic.





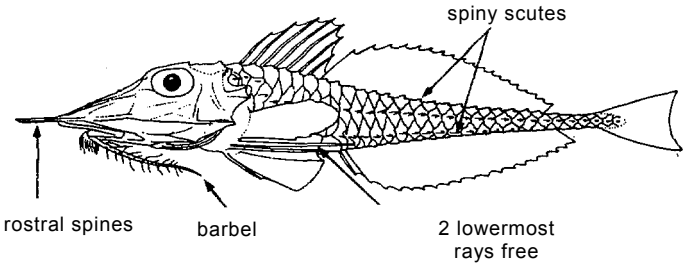
Lepidotrigla ***Chelidonichthys***



Trigla lyra

PERISTEDIIDAE Armoured searobins

To 35 cm; marine, from about 50 to 500 m depth; benthic. A single species in the area.



Peristedion cataphractrum

CYCLOPTERIDAE (including Liparididae)

Lumpfishes, snailfishes

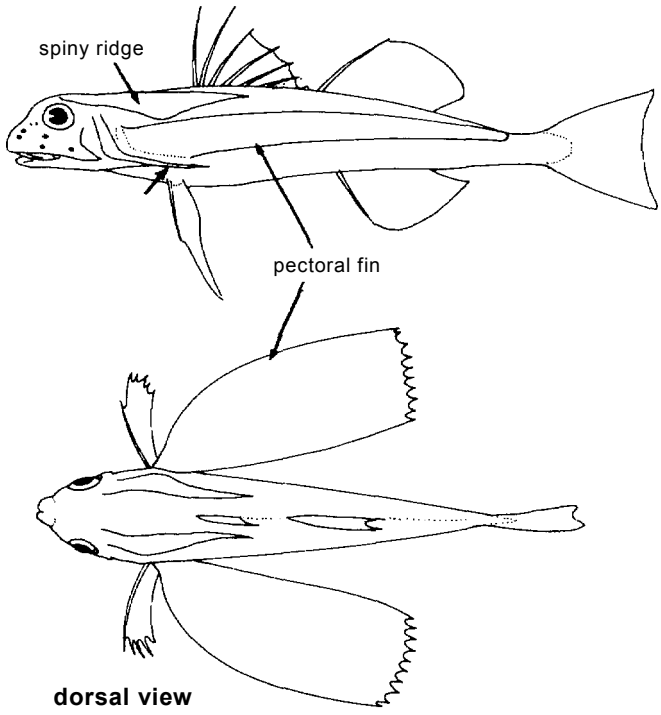
To about 30 cm, but usually smaller; marine, from the coastline to below 1400 m depth; benthic to benthopelagic.

FLYING GURNARDS - Dactylopteriformes

Greatly enlarged pectoral fins; head encased in a bony shield with a spiny crest from nape to below base of first dorsal fin.

DACTYLOPTERIDAE Flying gurnards **page 61**

To at least 45 cm; marine, in shallow coastal waters; benthic. A single species.



Dactylopterus volitans

PERCH-LIKE FISHES - Perciformes: Percoidei

Shape extremely variable; either 2 dorsal fins, or 1 dorsal fin with the anterior elements being sharp spines; pelvic fins with 1 spine and 5 soft rays, placed well forward on ventral surface of body; maxillary bone not included in gape of mouth but dorsal to the tooth-bearing premaxilla.

SERRANIDAE (including subfamily Anthiinae) **page 104**

Groupers, hinds, hamlets, seabasses, combers, creolefishes

To over 300 cm; marine, from the coastline to depths below 300 m; also in the lower reaches of estuaries; mostly benthic.

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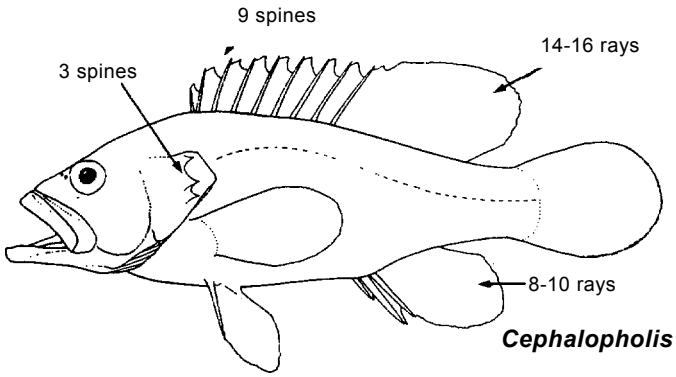
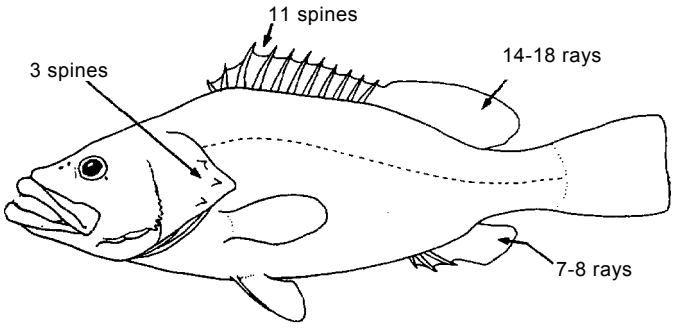
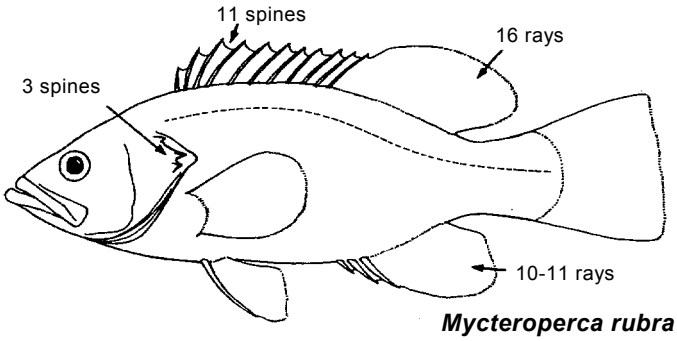


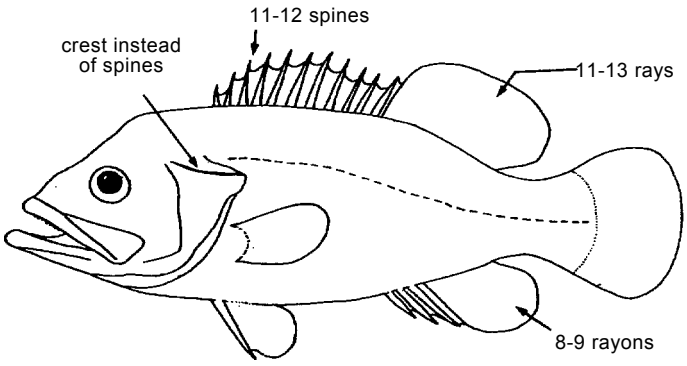
Cephalopholis



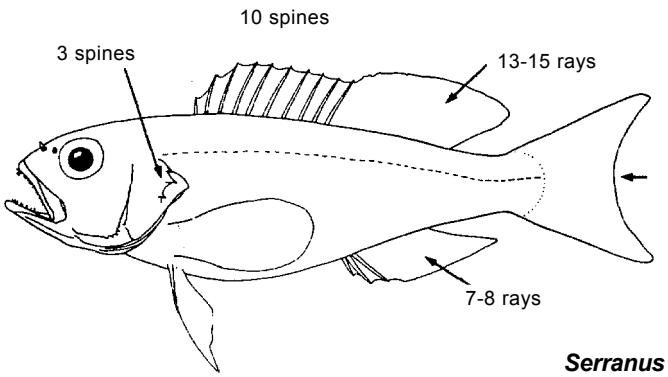
Epinephelus



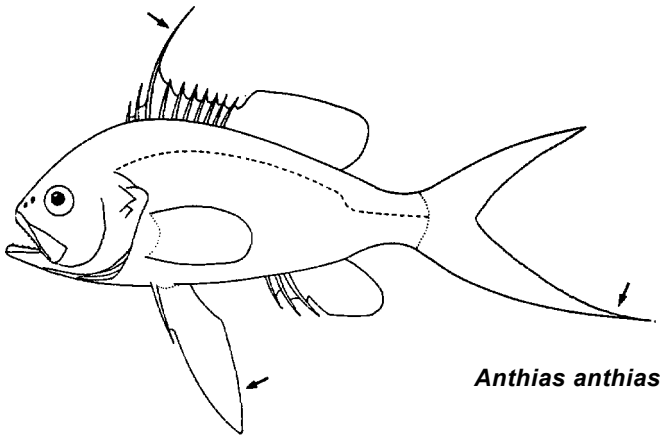
Mycteroperca rubra



Polyprion americanus



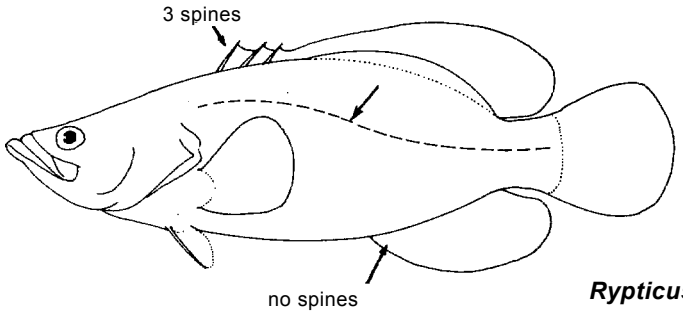
Serranus



Anthias anthias

GRAMMISTIDAE Soapfishes **page 69**

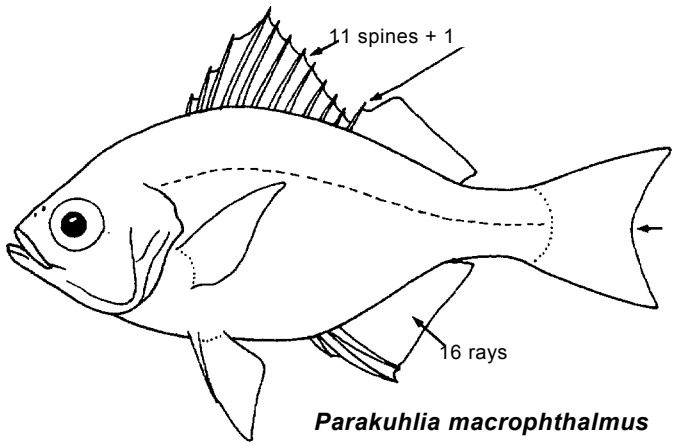
To about 32 cm; marine, from shallow coastal waters to about 50 m depth; benthic.



Rypticus

KUHLIIDAE Daras **page 75**

To 20 cm; marine, coastal waters to about 20 m depth. A single species in the area.



Parakuhlia macrophthalmus

PRIACANTHIDAE Bigeyes, glasseyes **page 91**

To 40 cm; marine, from the coastline to about 200 m depth; benthic.

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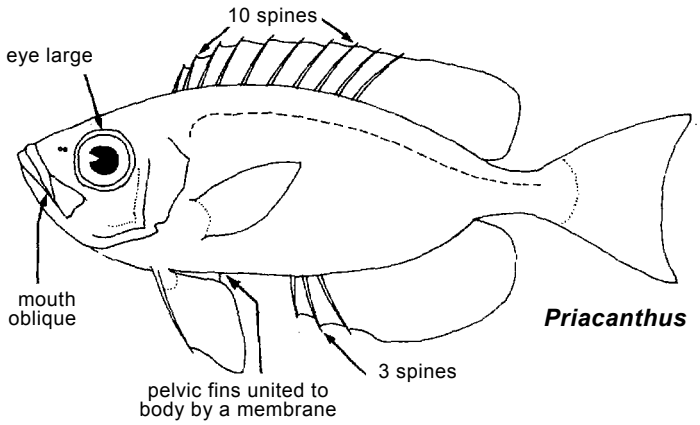
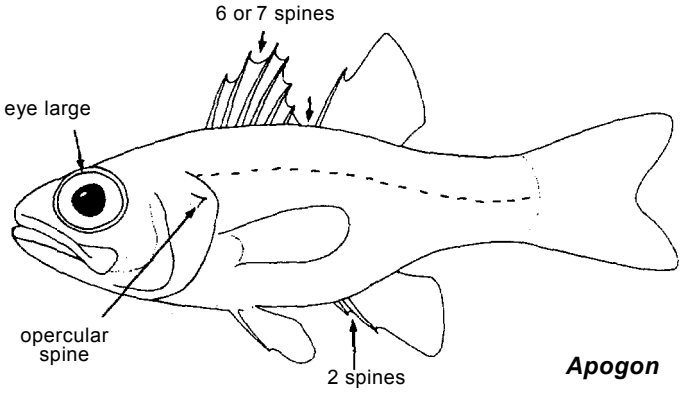


Priacanthus

APOGONIDAE Cardinalfishes

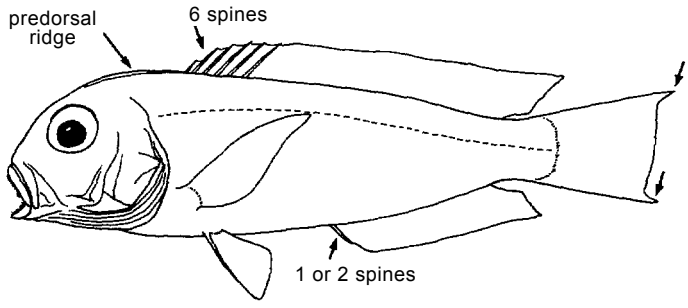
To about 20 cm, but most species smaller than 12 cm; marine, from the coastline to about 1000 m depth; also in brackish waters and freshwater; mostly benthic.



Apogon

BRANCHIOSTEGIDAE Tilefishes **page 48**

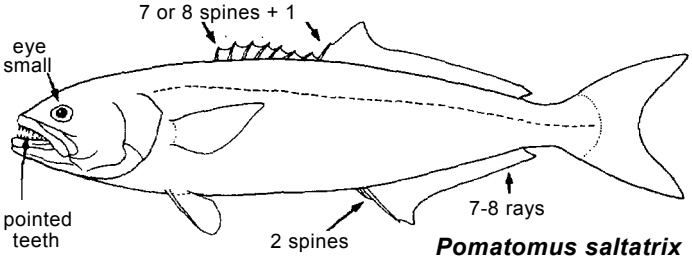
To 70 cm; marine, from about 20 to 200 m depth; benthic. A single species in the area.



Branchiostegus semifasciatus

POMATOMIDAE Bluefishes **page 91**

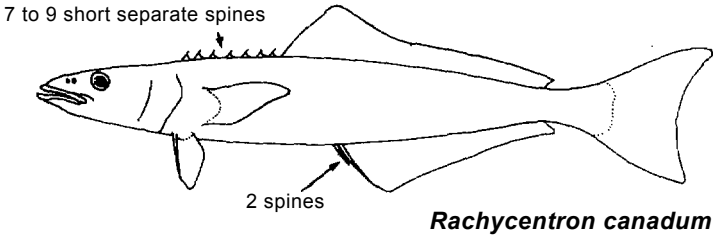
To 110 cm; marine, surface waters; pelagic. A single species in the area.



Pomatomus saltatrix

RACHYCENTRIDAE Cobias **page 92**

To 200 cm; marine, pelagic in offshore waters (near the surface) but also over shallow reefs and occasionally in estuaries. A single species.

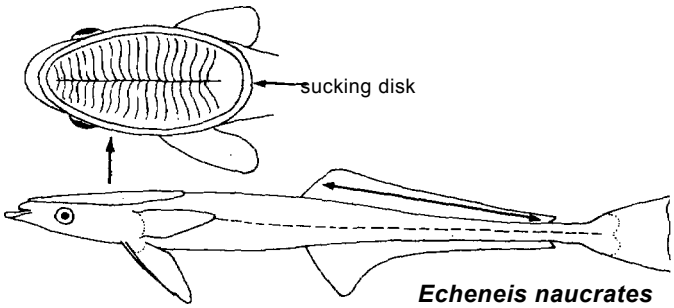


Rachycentron canadum

ECHENEIDIDAE Remoras, shark-suckers, disc fishes

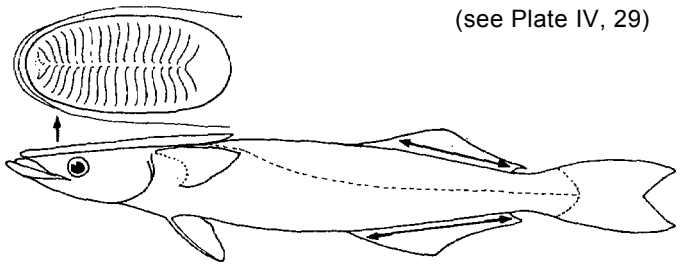
To about 100 cm; marine, pelagic and attached to larger marine organisms (sharks, turtles, marine mammals, etc.).

The most important genera



Echeneis naucrates

(see Plate IV, 29)

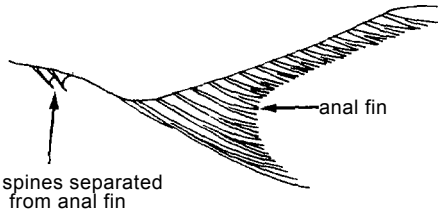


Remora

CARANGIDAE **page 48**

Jacks, pompanos, runners, bumpers, scads, pilotfishes, rudderfishes, lookdowns, moonfishes, amberjacks, leatherjacks

To about 140 cm; marine, from the coastline to below 200 m depth; a few species entering brackish waters; benthic, coastal-pelagic or oceanic-pelagic.



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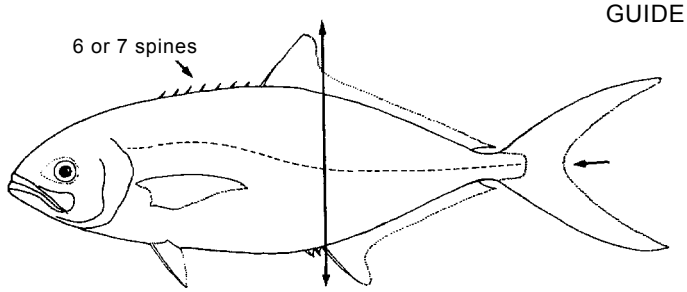
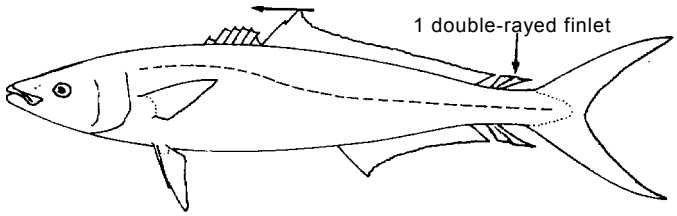
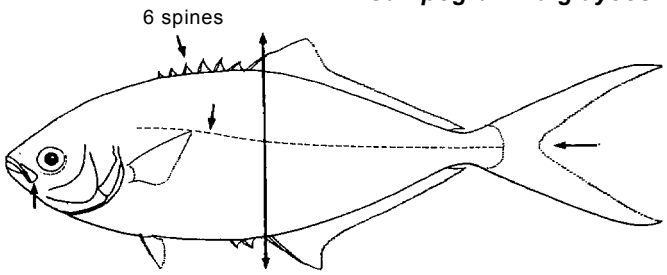


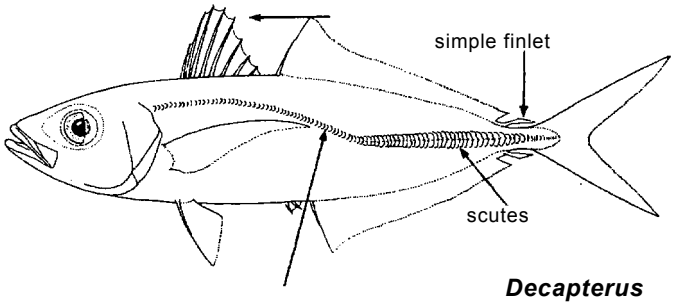
Campogramma glaycos



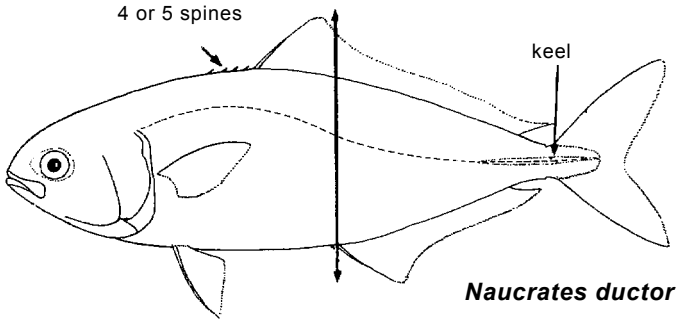
Elagatis bipinnulata



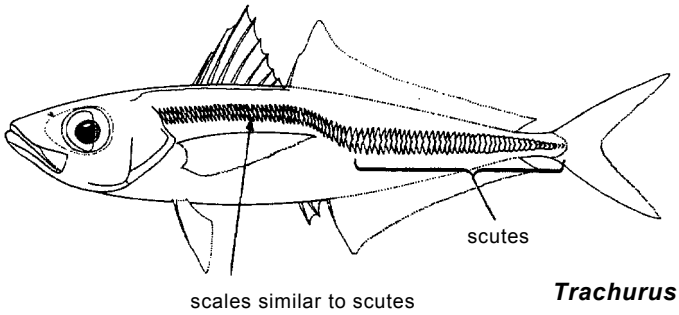
Trachinotus



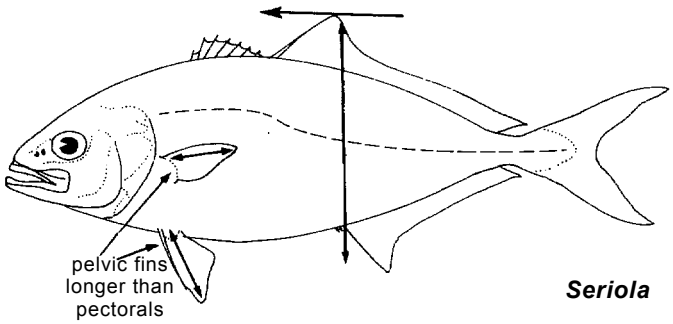
Decapterus



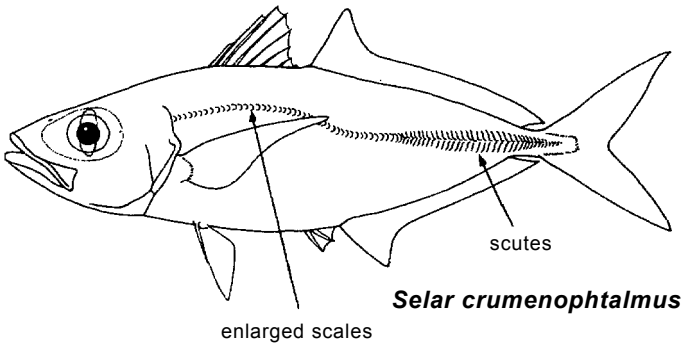
Naucrates ductor



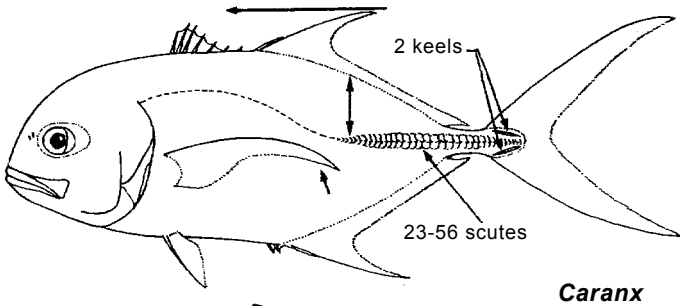
Trachurus



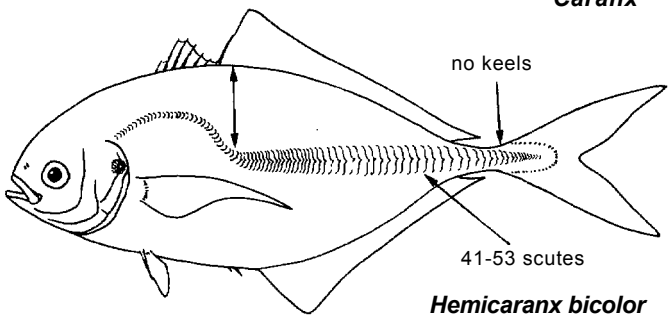
Seriola



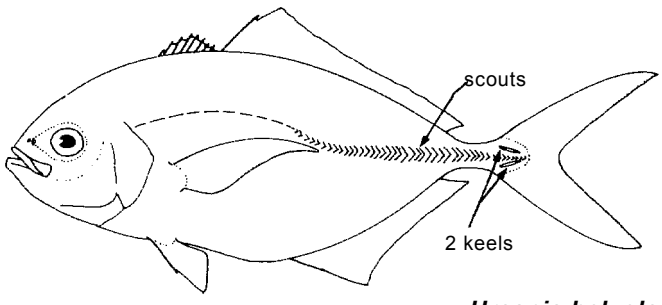
Selar crumenophtalmus



Caranx

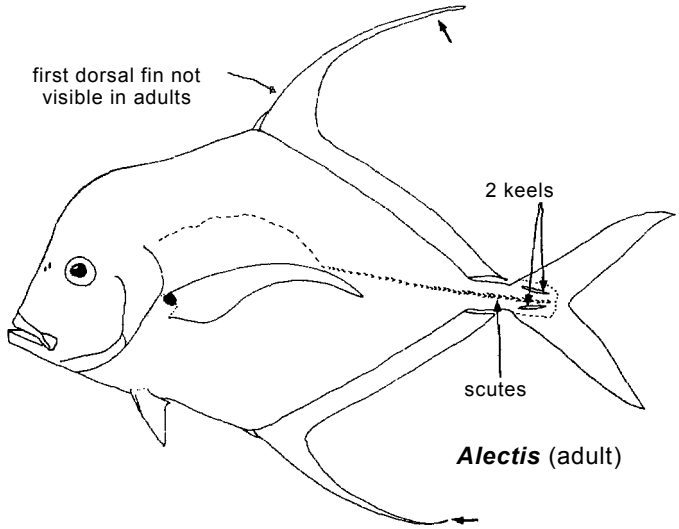


Hemicaranx bicolor

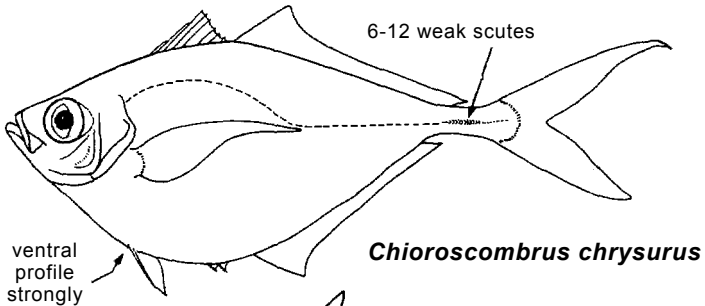


Uraspis helvola

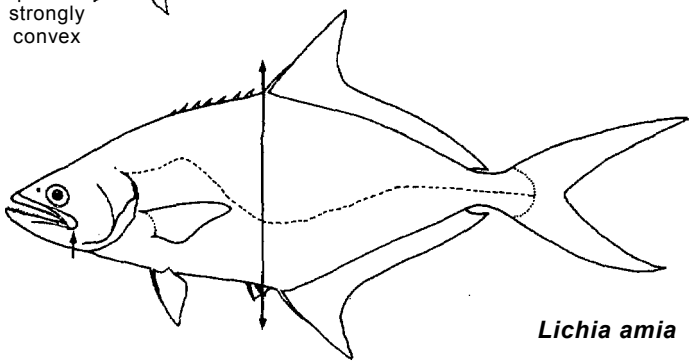
BONY FISHES
GUIDE TO FAMILIES



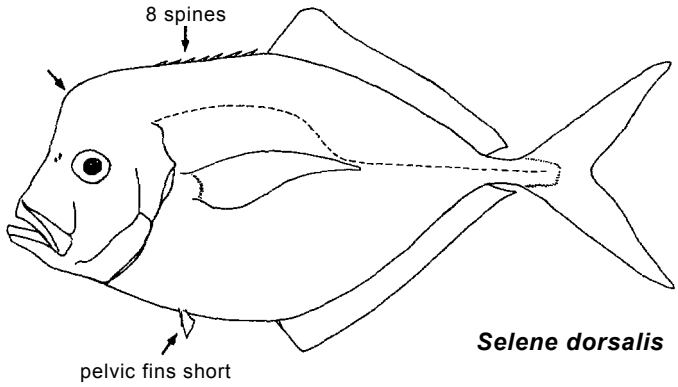
Alectis (adult)



Chioroscombrus chrysurus



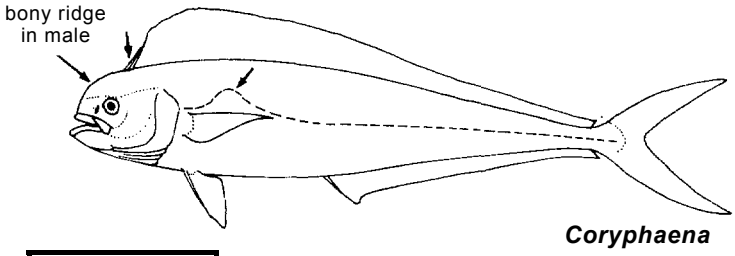
Lichia amia



Selene dorsalis

CORYPHAENIDAE Dolphinfishes, "Dolphins" **page 59**

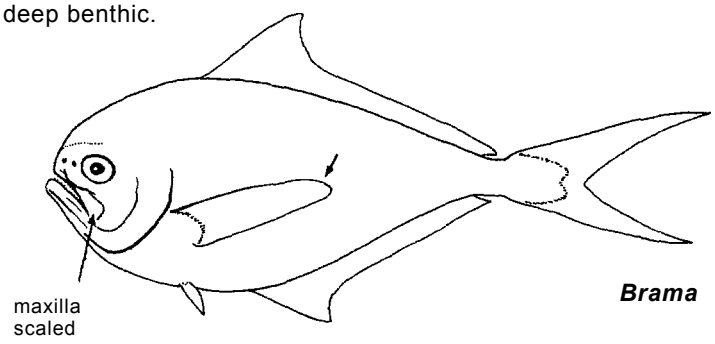
To 200 cm; marine, oceanic-pelagic, but sometimes approaching the coast.



Coryphaena

BRAMIDAE Pomfrets

To about 100 cm; marine, mostly epi- or mesopelagic to below 300 m depth; one genus (Eumegistus), possibly deep benthic.

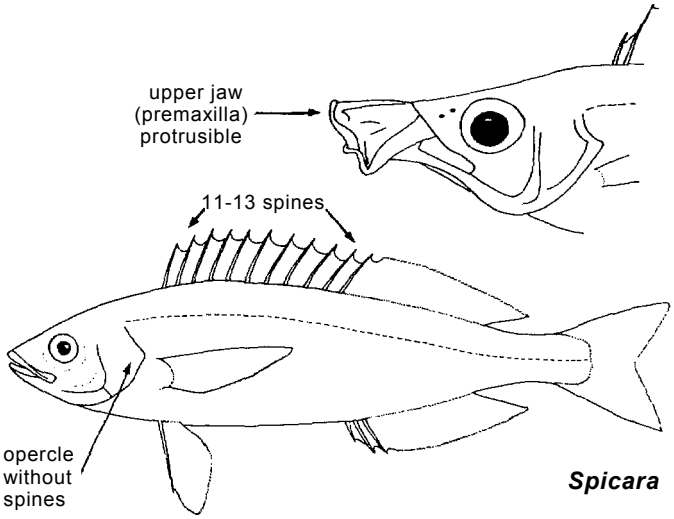


Brama

Several other genera occur in the area.

CENTRACANTHIDAE Picarels, bonnetmouths **page 56**

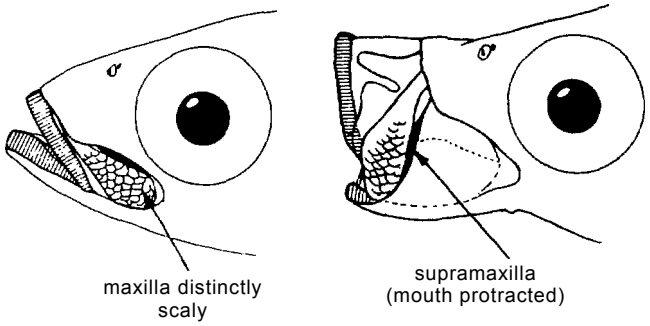
To 30 cm; marine, to about 200 m depth; benthic.



Spicara

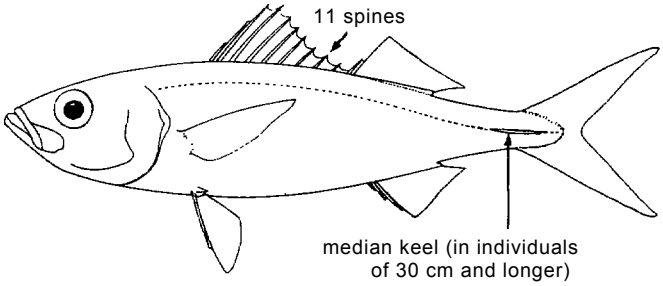
EMMELICHTHYIDAE Rubyfishes, redbaits, rovers **page 63**

To 30 cm; marine, from about 100 to 300 m depth; bentho-pelagic. A single species in the area.



next page

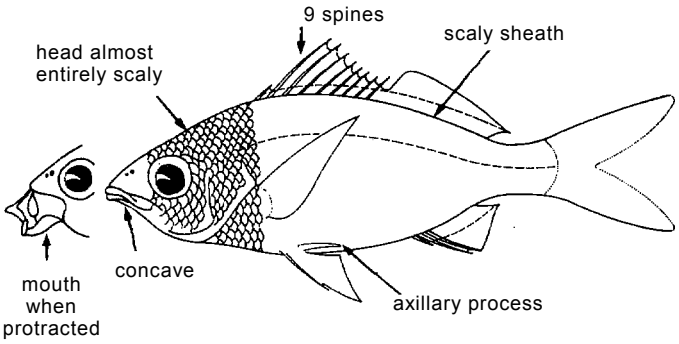
BONY FISHES
GUIDE TO FAMILIES



Erythrocles monodi

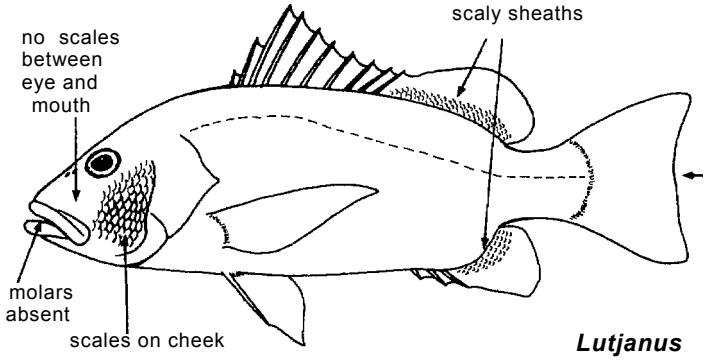
GERREIDAE Mojarras **page 68**

To 25 cm; coastal marine waters to about 60 m depth; also estuaries, coastal lagoons and freshwater; benthic.

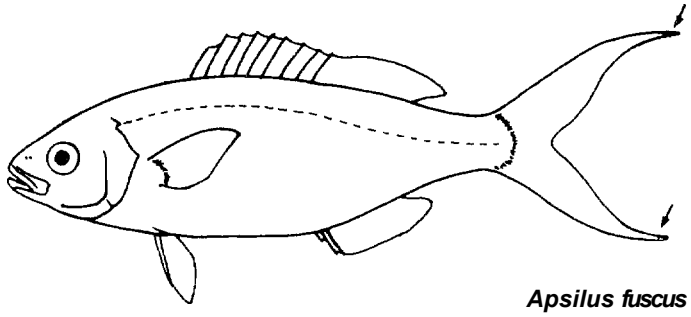


LUTJANIDAE Snappers **page 79**

To 80 cm; mostly marine, from the coastline to 450 m depth; some species enter estuaries and even rivers; a few may enter hypersaline lagoons; benthic.



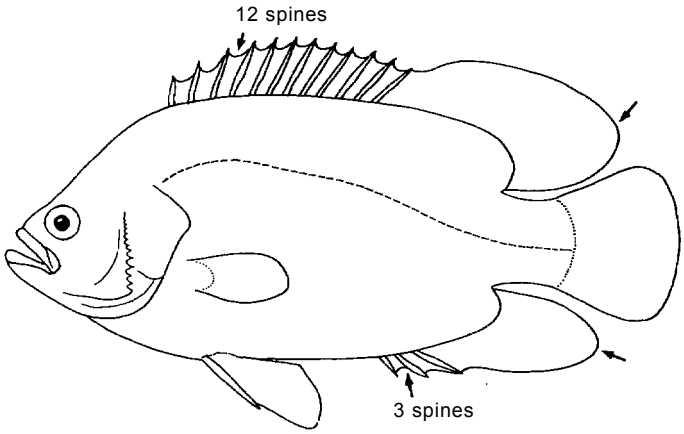
Lutjanus



Apsilus fuscus

LOBOTIDAE Tripletails **page 78**

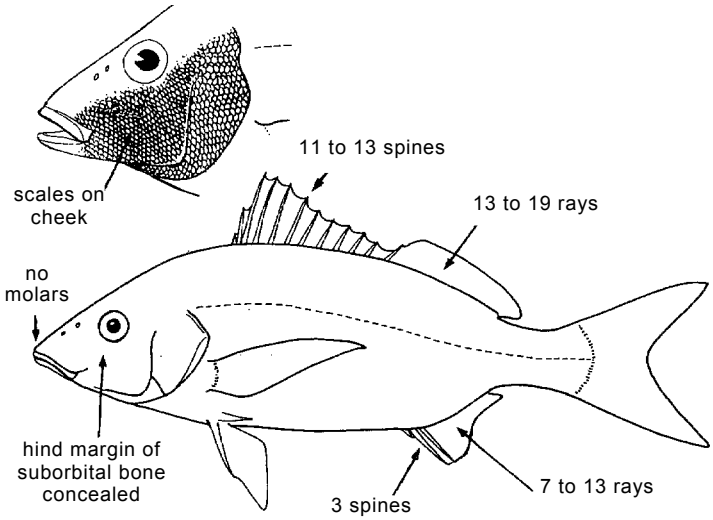
To over 100 cm; marine, oceanic-pelagic, drifting near the surface. A single species in the area.

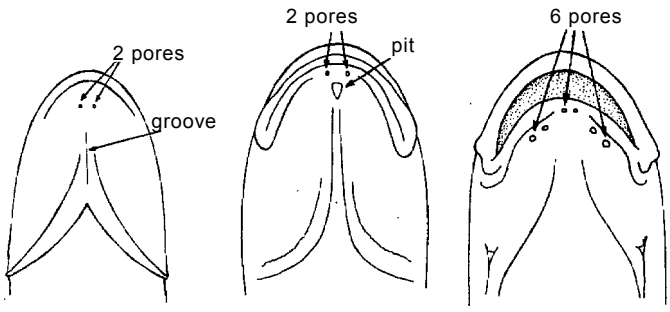


Lobotes surinamensis

HAEMULIDAE (= POMADASYIDAE) Grunts, margates, pigfishes, porkfishes **page 69**

To 80 cm; mostly marine, from the coastline to about 200 m depth, and in brackish waters; benthic.

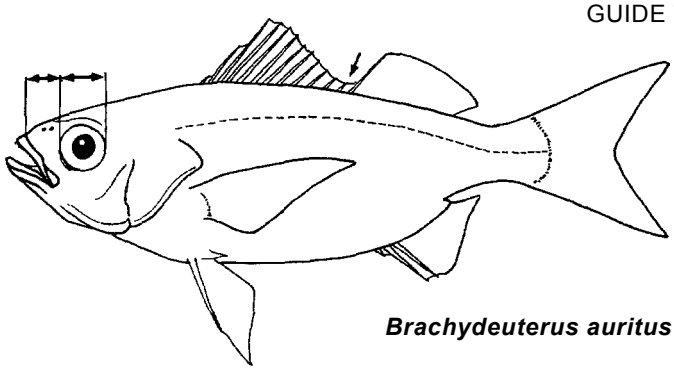




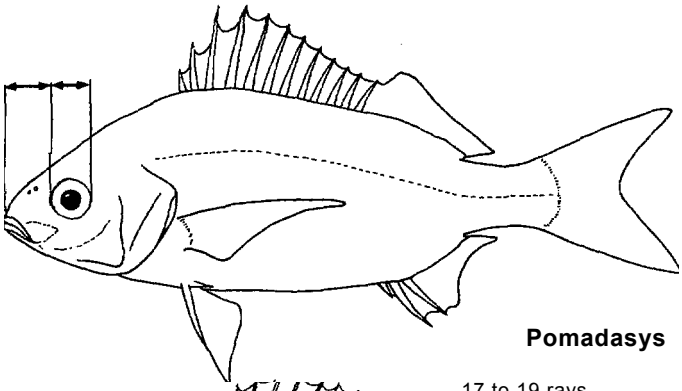
Brachydeuterus ***Pomadasys*** ***Plectorhynchus, Parapristipoma***

underside of head

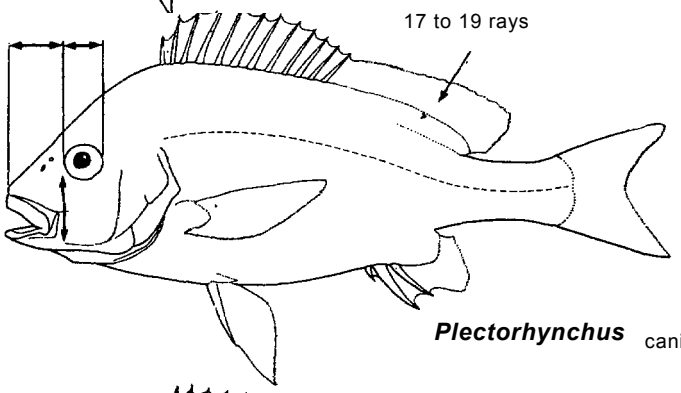
BONY FISHES
GUIDE TO FAMILIES



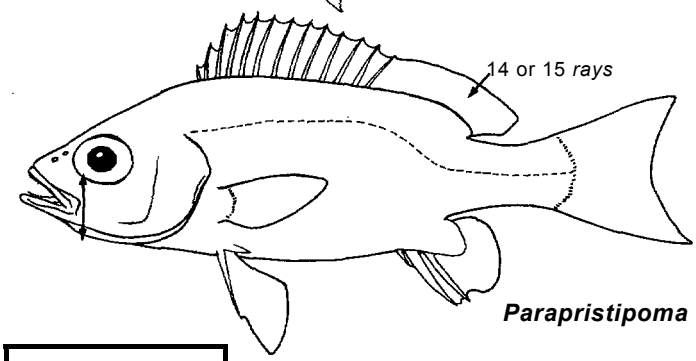
Brachydeuterus auritus



Pomadasys



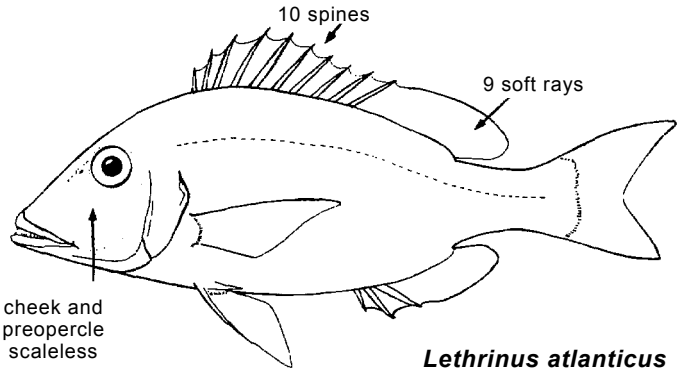
Plectorhynchus



Parapristipoma

LETHRINIDAE Emperors, scavengers **page 77**

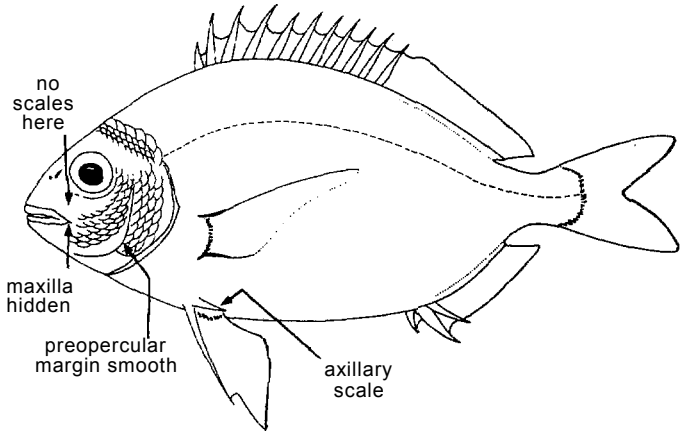
To 50 cm; marine, in coastal waters to about 50 m depth. A single species in the area.

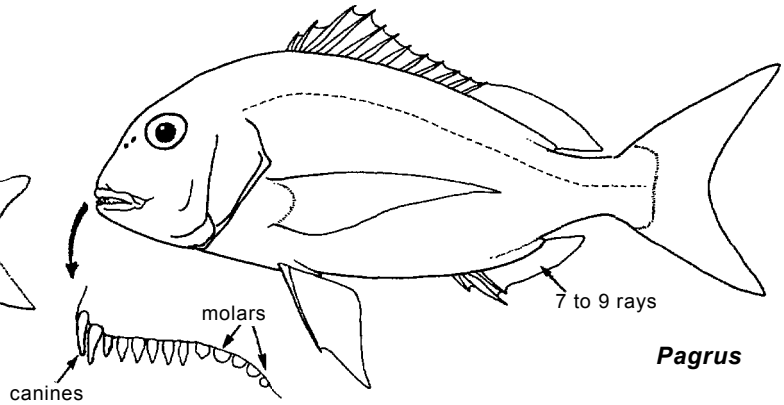


Lethrinus atlanticus

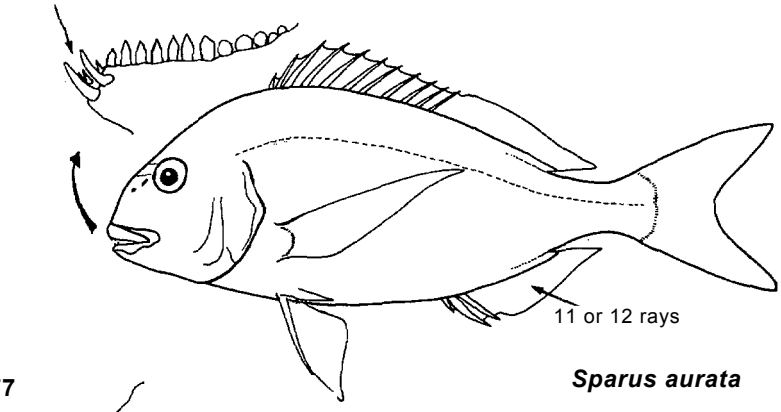
SPARIDAE Porgies, seabreams, pinfishes **page 112**

To 75 cm; marine, from the coastline to about 150 m depth; occasionally entering estuaries; benthic.

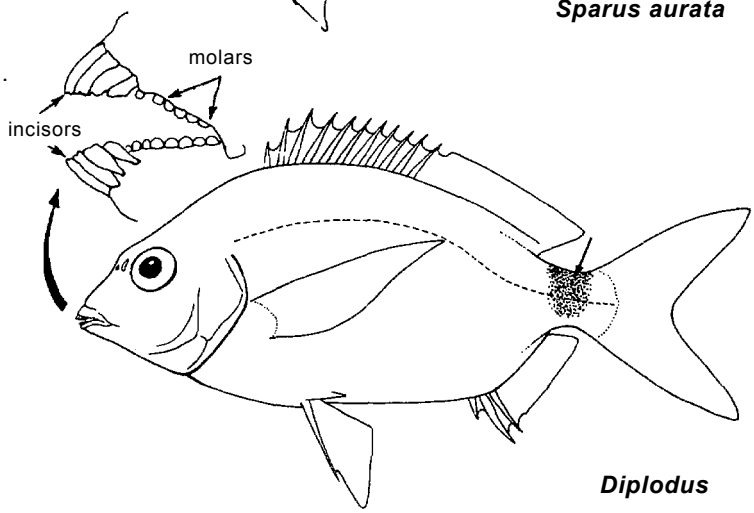




Pagrus



Sparus aurata



Diplodus

BONY FISHES
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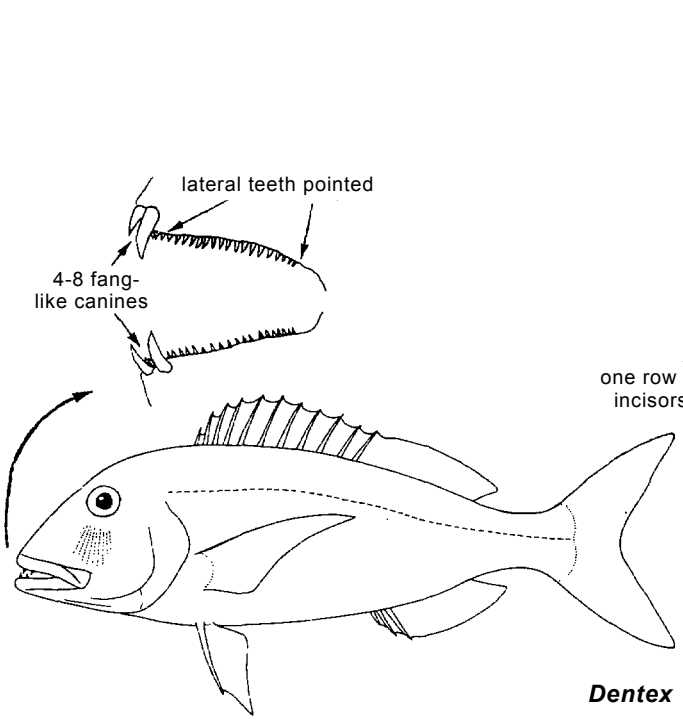
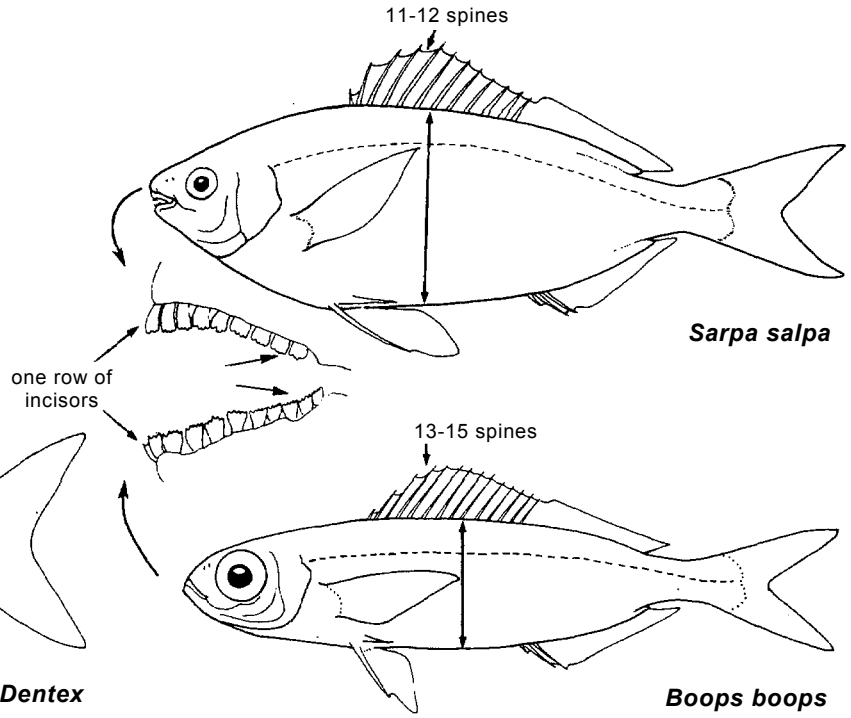
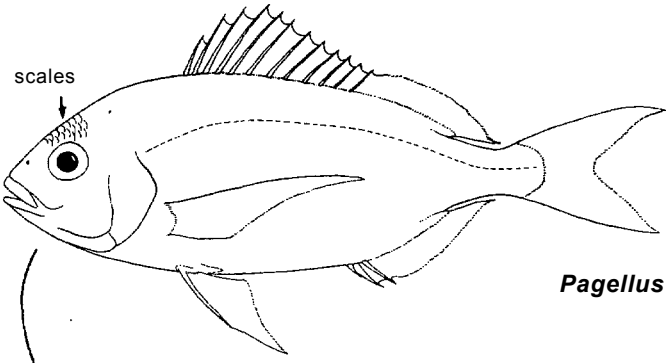


Dentex

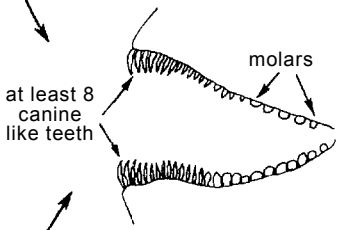


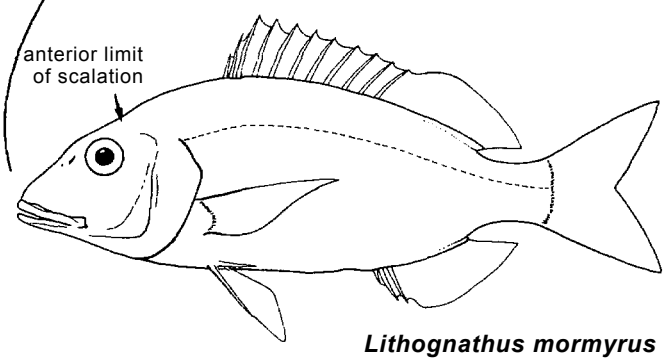
Sarpa salpa

Boops boops

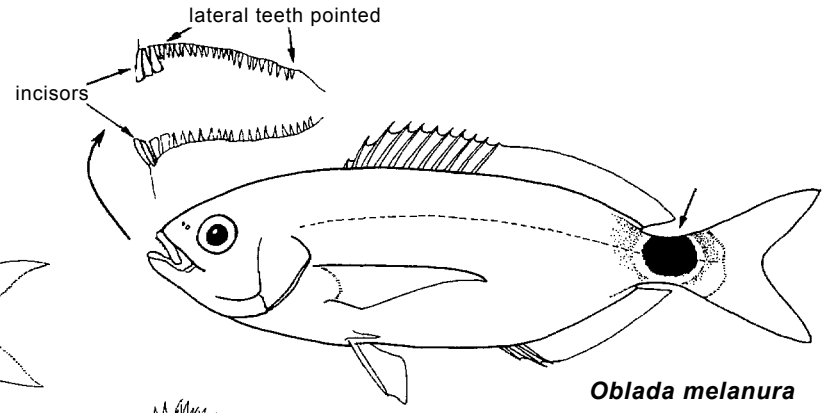


Pagellus

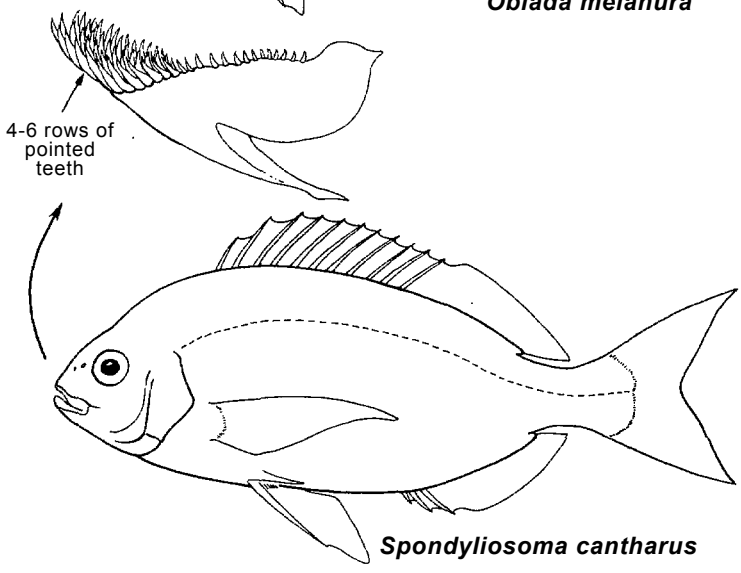




Lithognathus mormyrus



Oblada melanura



Spondyliosoma cantharus

SCIAENIDAE Croakers, drums, meagres, weakfishes, stardrums **page 94**

To 200 cm; marine, from the coastline to about 350 m depth; also in estuaries, and some species in freshwater; benthic.

BONY FISHES
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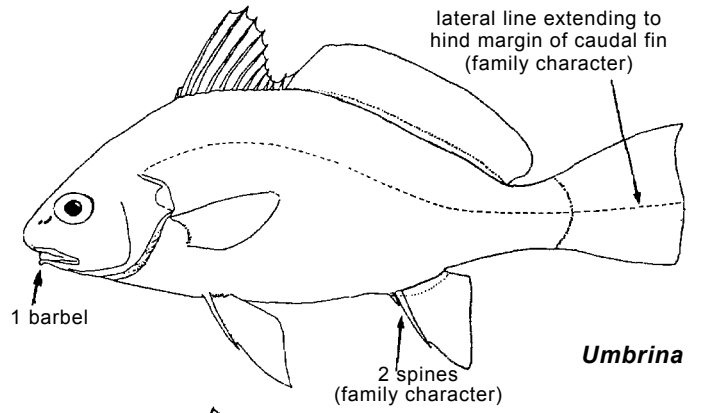
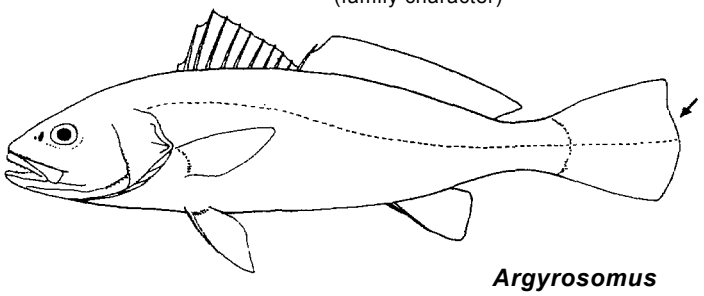
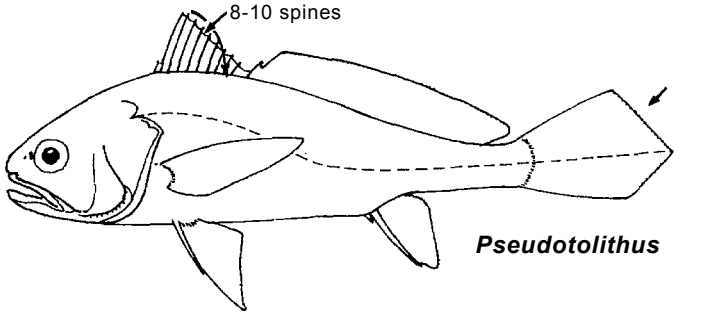


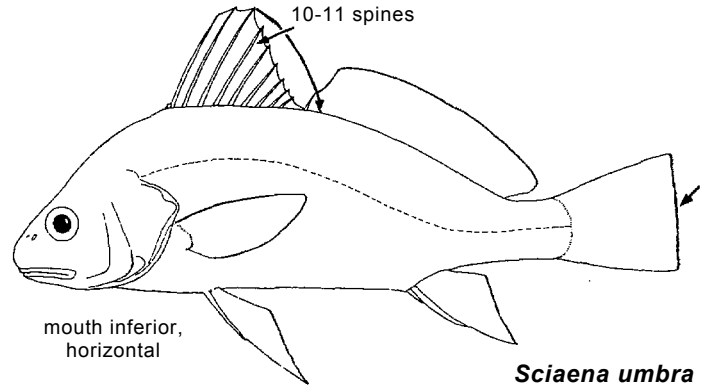
Umbrina



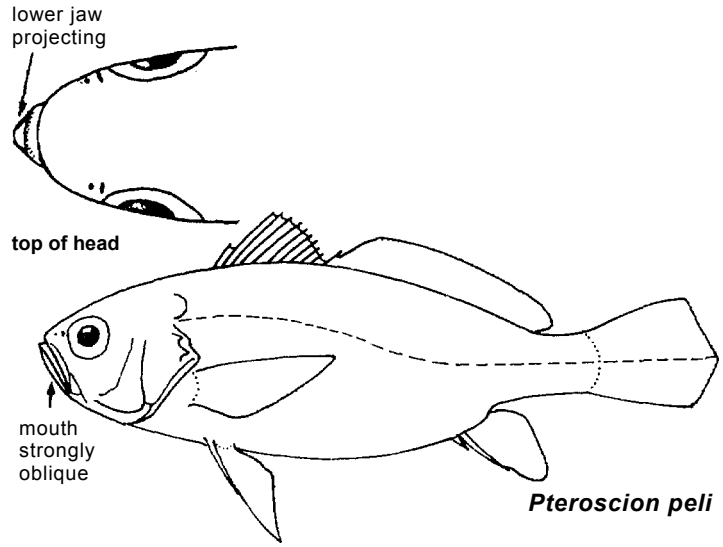
Argyrosomus



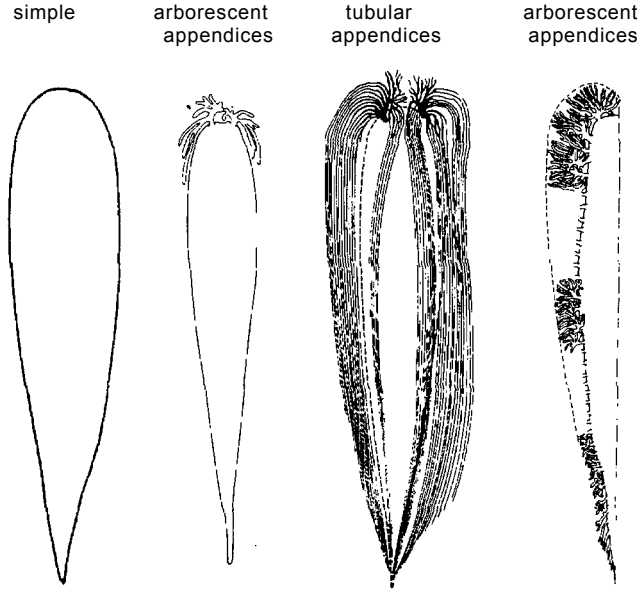
Pseudotolithus



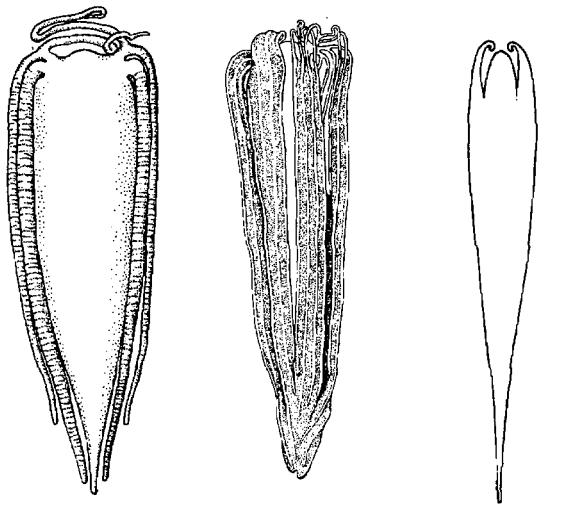
Sciaena umbra



Pteroscion peli

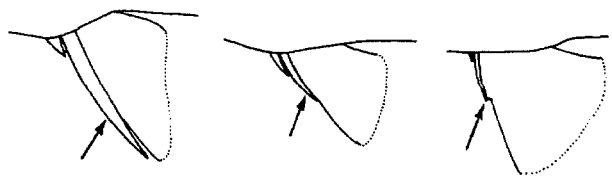


Sciaena, Umbrina **Pteroscion** **Pseudotolithus** **Argyrosomus**



Miracorvina **Pentheroscion** **Atractoscion**

swimbladder (internal character)



Pseudotolithus (Fonticulus) **Miracorvina** **Pentheroscion**

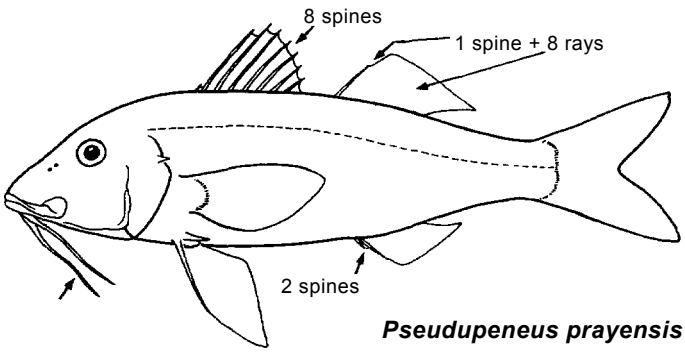
anal fin

MULLIDAE Goatfishes, red mullets **page 84**

To 55 cm; marine, from the coastline to about 100 m depth; occasionally in estuaries; benthic. A single species in the area.

BONY FISHES

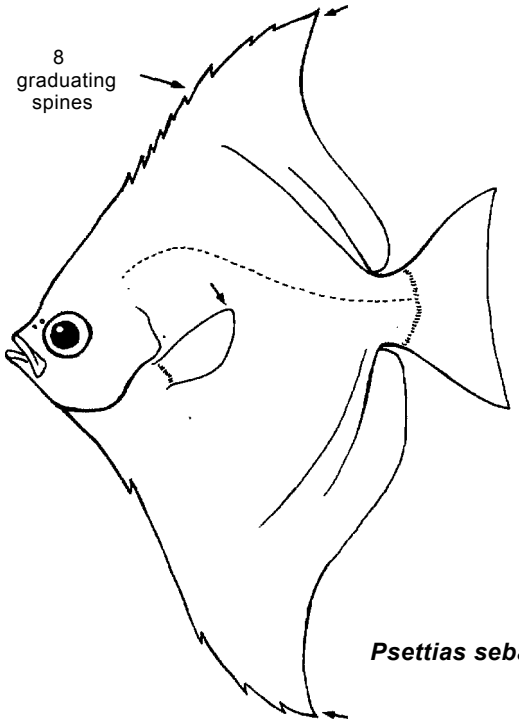
GUIDE TO FAMILIES



Pseudupeneus prayensis

MONODACTYLIDAE Moonies, fingerfishes **page 82**

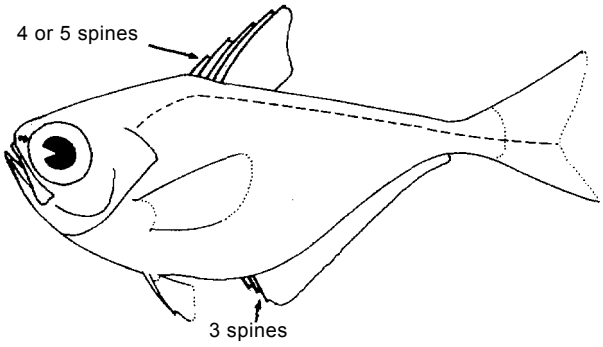
To 20 cm; in coastal marine waters, estuaries and freshwater. A single species in the area.



Psettias sebae

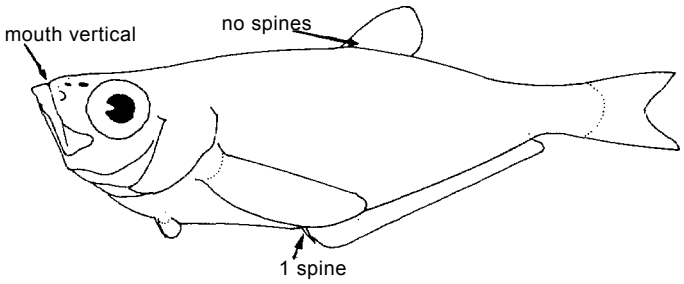
PEMPHERIDIDAE Sweepers

To about 15 cm; marine, from the coastline to about 80 m depth; some enter river estuaries; mostly benthic.



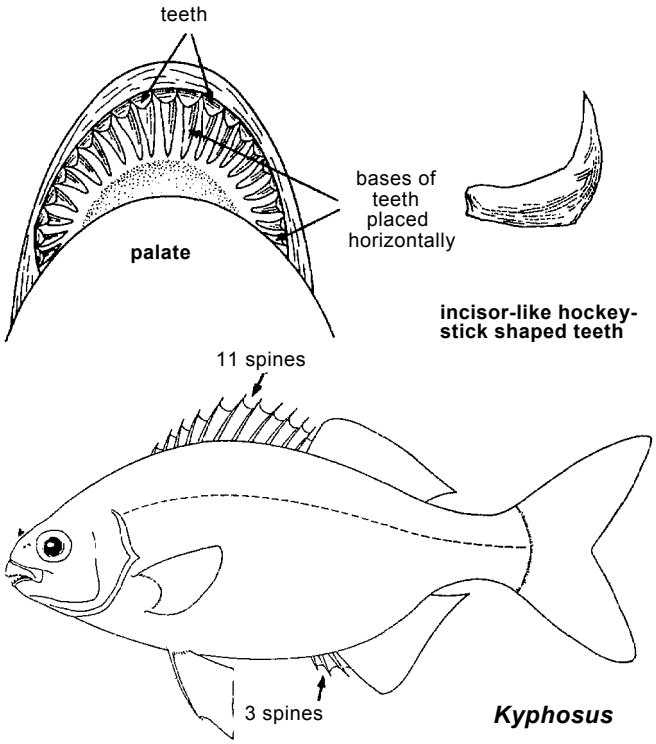
BATHYCLUPEIDAE Bathydupeids

To about 20 cm; marine, mostly between 350 and 800 m, but occasionally at lesser depth; oceanic mesopelagic.



KYPHOSIDAE Sea chubs **page 75**

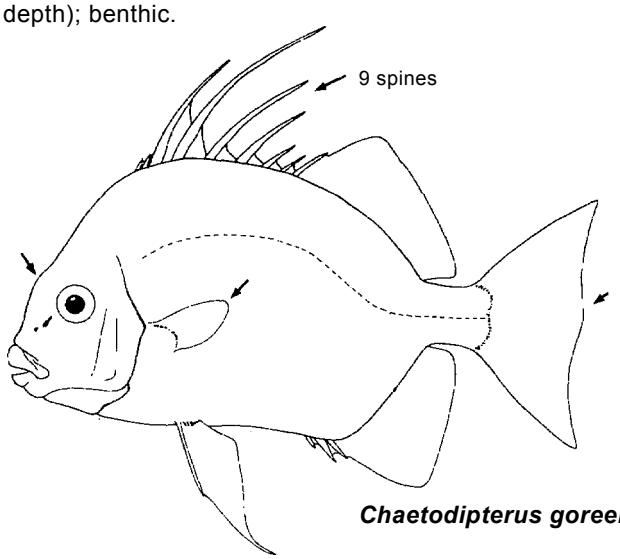
To 76 cm; marine, shallow coastal waters (usually less than 50 m), on seagrass beds and reefs, or pelagic among floating sargassum weeds.



Kyphosus

EPHIPPIDIDAE Spadefishes **page 63**

To about 30 cm; marine, in shallow waters (to about 30 m depth); benthic.

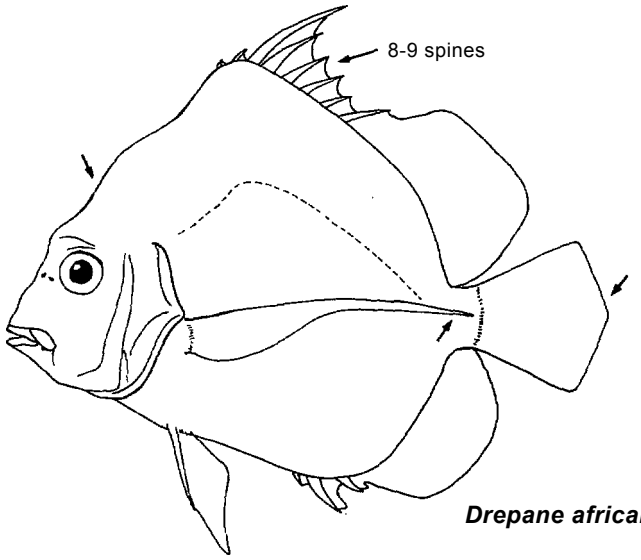


Chaetodipterus goreensis

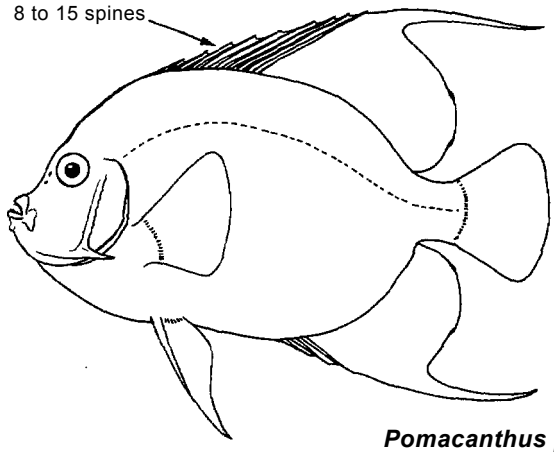
BONY FISHES
GUIDE TO FAMILIES

DREPANIDAE Sicklefishes **page 62**

To about 40 cm; marine, from about 20 to 50 m depth. A single species in the area.



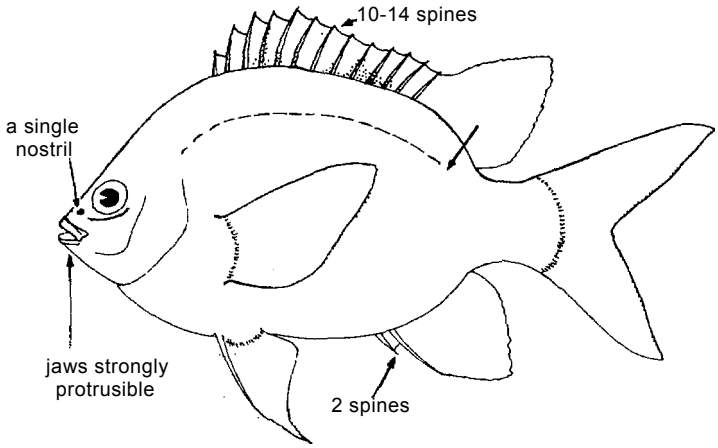
Drepane africana



Pomacanthus paru

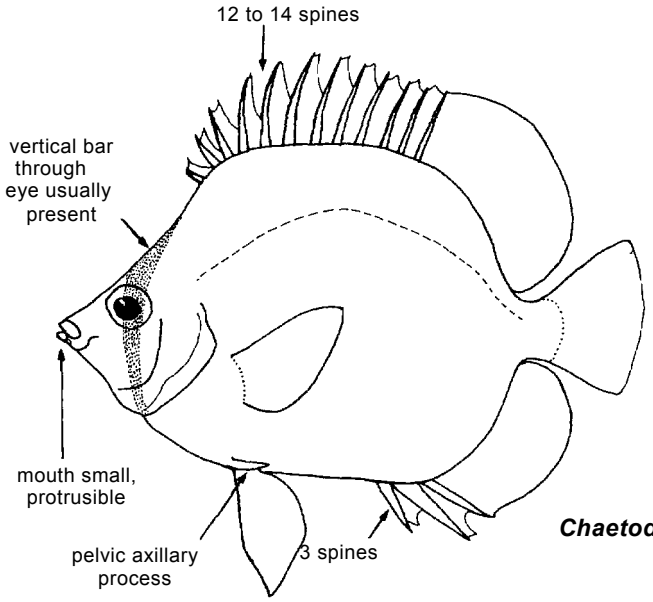
POMACENTRIDAE Damselfishes gregories, majors, sergeants, chromis

To 25 cm; marine in coastal waters, usually at less than 15 m depth; also in estuaries; mostly benthic. Several species taken occasionally.



CHAETODONTIDAE Butterflyfishes

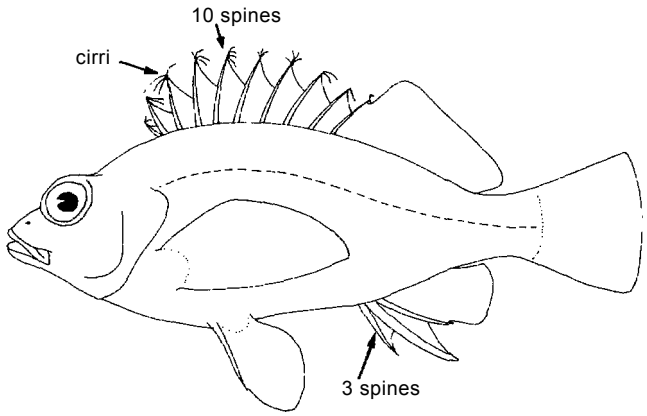
To about 20 cm; marine, usually in shallow waters but occasionally extending to about 100 m depth; benthic.



Chaetodon

CIRRHITIDAE Hawkfishes

To about 9 cm; marine, in shallow waters, usually less than 20 m depth; benthic.



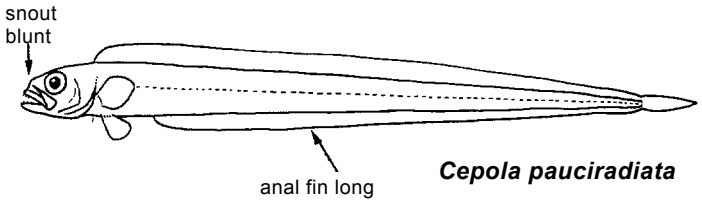
POMACANTHIDAE Angelfishes **page 91**

To 40 cm; marine, from the coastline to about 50 m depth; benthic.

BONY FISHES
GUIDE TO FAMILIES

CEPOLIDAE Bandfishes

To 70 cm; marine, to below 200 m; benthic. Occasionally taken in bottom trawls. A single species in the area.



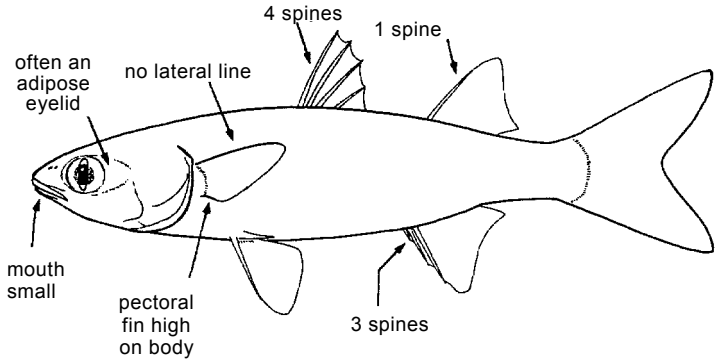
Cepola pauciradiata

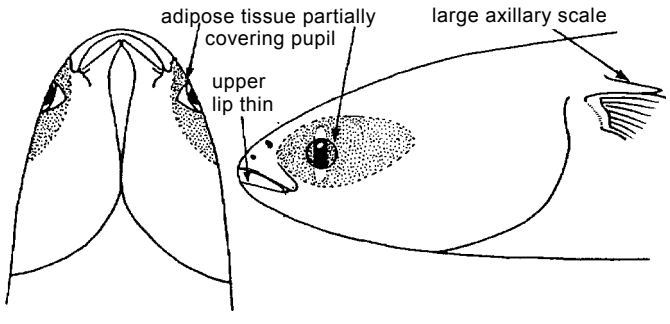
MULLETS - Perciformes: Mugiloidei

Body elongate; head flattened, mouth small; pectoral fins high on body; 2 dorsal fins, sides silvery; no lateral line.

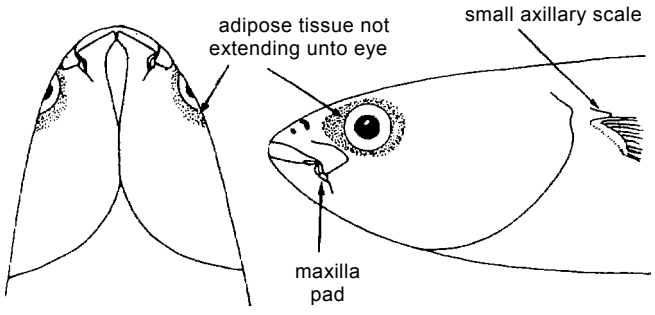
MUGILIDAE Mullets **page 83**

To about 120 cm; freshwaters, estuaries, brackish and hypersaline lagoons and coastal marine waters at shallow depths (less than 20 m); mostly benthic in their food habits, but usually found near the surface.





Mugil



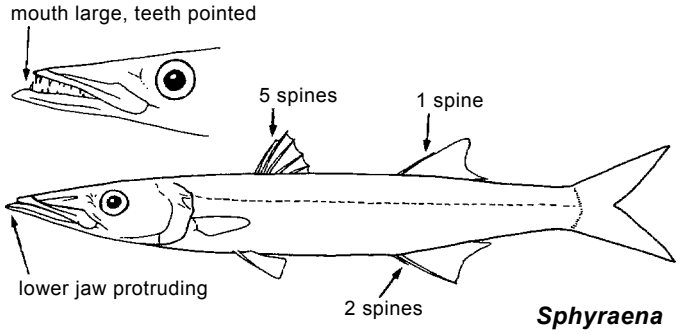
Liza

BARRACUDAS - Perciformes: Sphyraenoidei

Body elongate, generally silvery on sides; head and snout both very long; teeth. strong; 2 dorsal fins.

SPHYRAENIDAE Barracudas, sennets **page 119**

To 200 cm; marine, from the coastline to about 100 m depth; ranging from just off the bottom to pelagic.



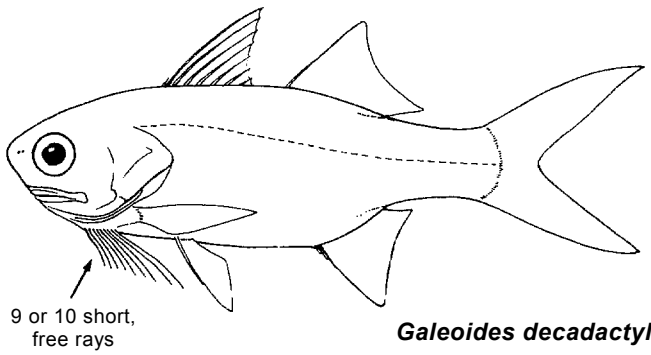
Sphyraena

THREADFINS - Perciformes: Polynemoidei

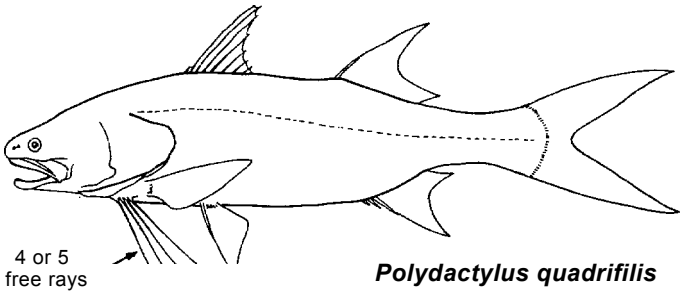
Snout conical, projecting beyond mouth; pectoral fins in two parts, the lower with 3 or more free filamentous rays.

POLYNEMIDAE Threadfins **page 90**

To about 200 cm; marine coastal waters (usually less than 30 m depth), estuaries, coastal lagoons and freshwater; benthic.



Galeoides decadactylus



Polydactylus quadrifilis

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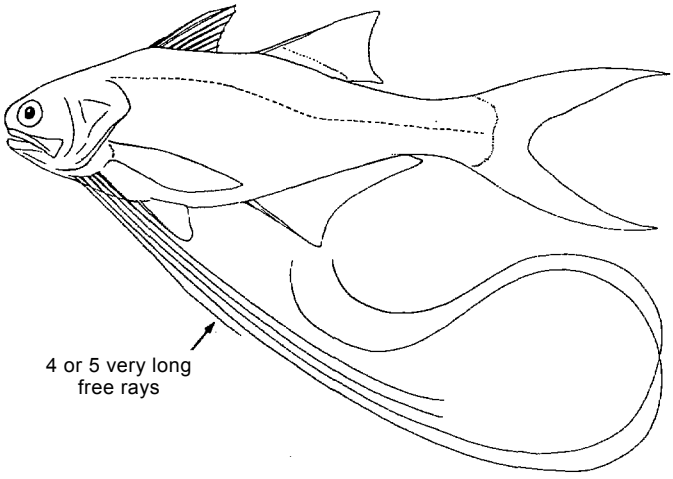
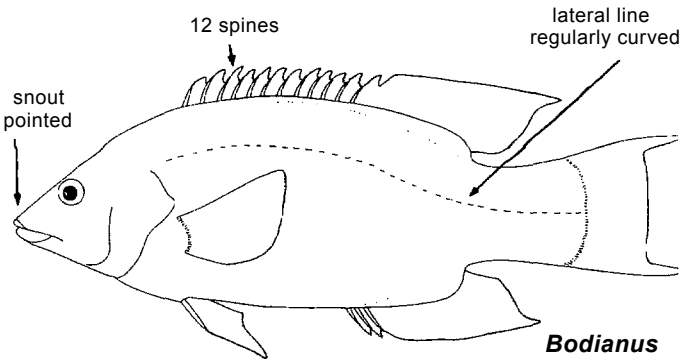
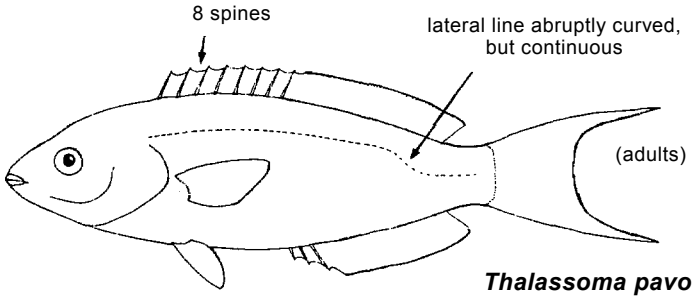


Pentanemus quinquarius



Bodianus

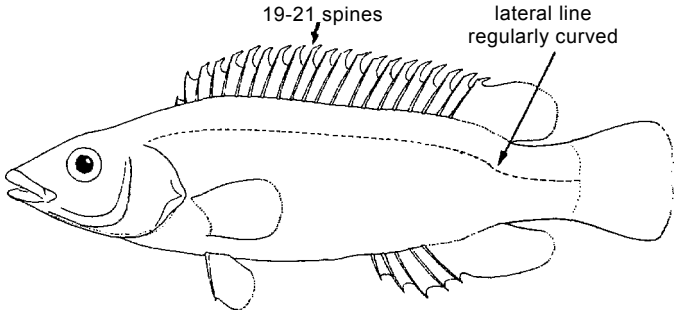


Thalassoma pavo
(male)

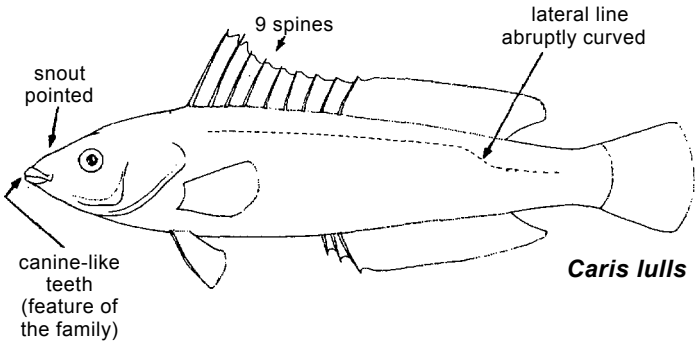
WRASSES AND ALLIES - Perciformes: Labroidei. Well developed teeth, coalesced into plates in the parrotfishes; scales usually large and cycloid (smooth); body compressed; usually colourful species.

LABRIDAE Wrasses, hogfishes, razorfishes **page 76**

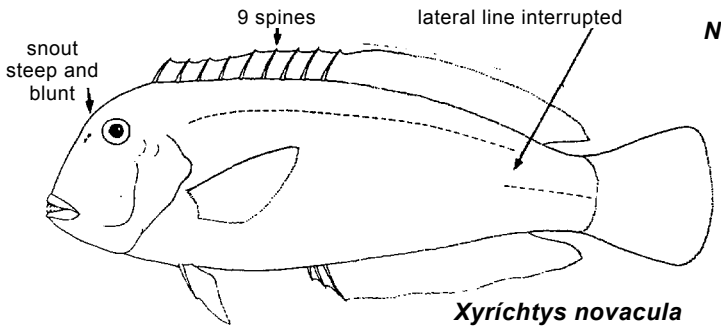
To 50 cm; marine, from the coastline to about 120 m depth; benthic.



Acantholabrus palloni



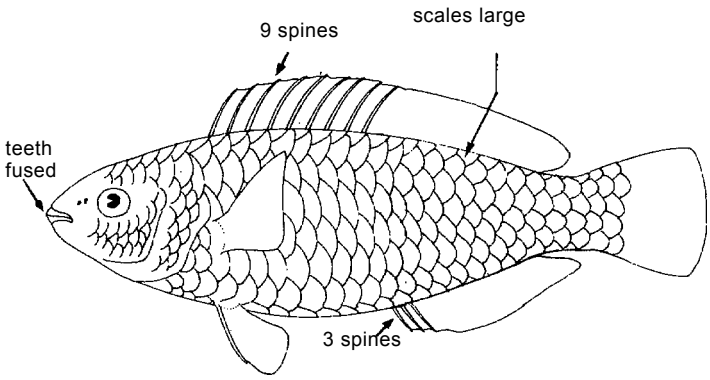
Caris lulls

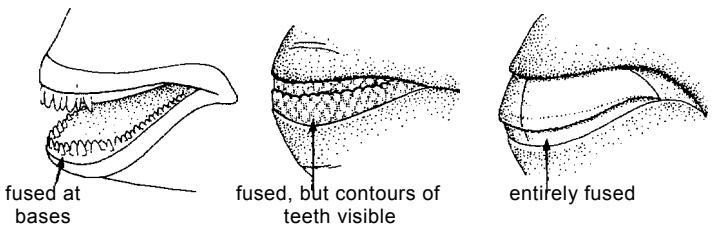


Xyrichtys novacula

SCARIDAE Parrotfishes **page 92**

To 60 cm; marine, in shallow waters rarely below 60 m depth; benthic.





Nicholsina ***Sparisoma*** ***Scarus***

teeth

WEEVERFISHES AND ALLIES - Perciformes: Trachinoidei

A diverse assemblage of families difficult to characterize as a group; this suborder must be regarded as provisional.

next page

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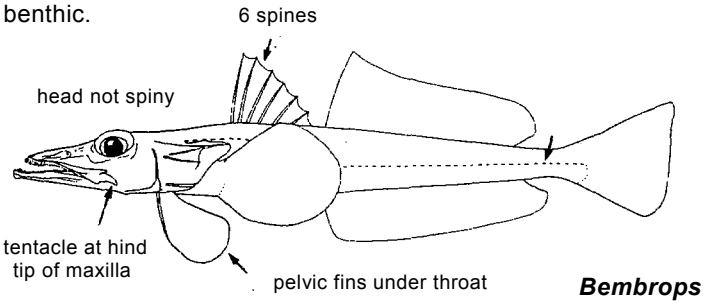
PERCOPHIDAE Flatheads **page 89**

To at least 30 cm; marine, from about 100 to 400 m depth; benthic.

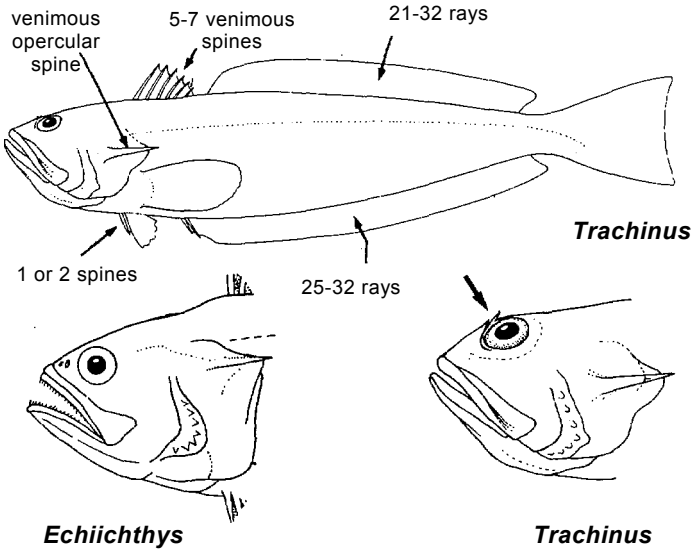


Bembrops

Remarks : do not confuse with Platycephalidae.

TRACHINIDAE Weeverfishes **page 123**

To about 45 cm; marine, in coastal waters to about 200 m depth; benthic.



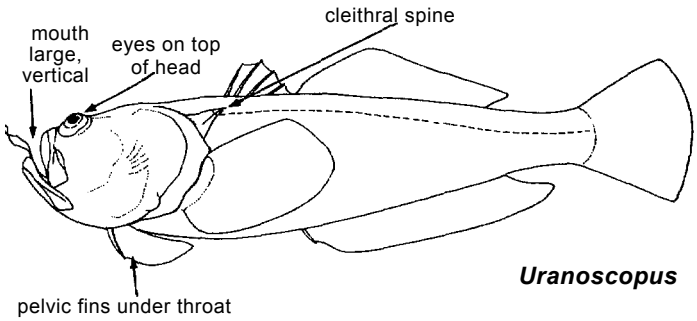
Trachinus

Echiichthys

Trachinus

URANOSCOPIDAE Stargazers **page 128**

To about 40 cm; marine, from the coastline to below 200 m depth; benthic.



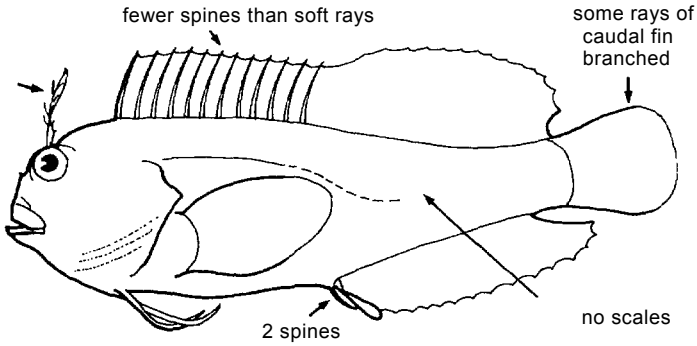
Uranoscopus

BLENNIES AND ALLIES - Perciformes: Blennioidei

Dorsal fin long; pelvic fins reduced, with 1 hidden spine and 2 to 4 soft rays, located ahead of pectoral fins; tentacles often present on head; two anal-fin spines (one of them sometimes difficult to see).

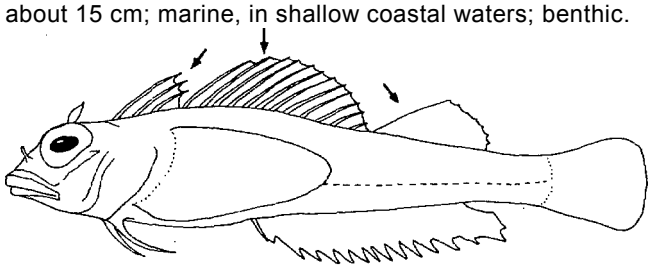
BLENNIIDAE Combtooth blennies

To 20 cm; marine coastal waters (usually at less than 20 m depth), estuaries and coastal lagoons; benthic; a few species to 400 m depth.



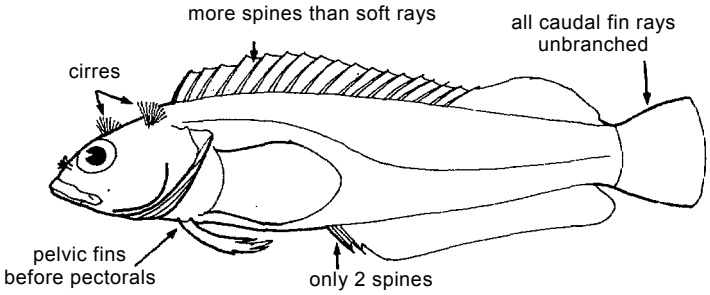
TRIPTERYGIIDAE Threefin blennies

To about 15 cm; marine, in shallow coastal waters; benthic.



CLINIDAE Clinids

To about 20 cm; marine, usually in shallow waters, but a few species in deeper water (to below 100 m); benthic.

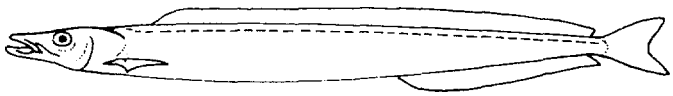


SANDLANCES - Perciformes: Ammodytoidei

Body very elongate; dorsal fin long; lateral line high on body, close to dorsal profile; teeth absent; pelvic fins usually absent.

AMMODYTIDAE Sandlances

To about 30 cm; marine, from the coastline to about 50 m depth; benthic, burrowing in sand, or pelagic; a cold-water group rarely entering the Gulf of Guinea from the north.



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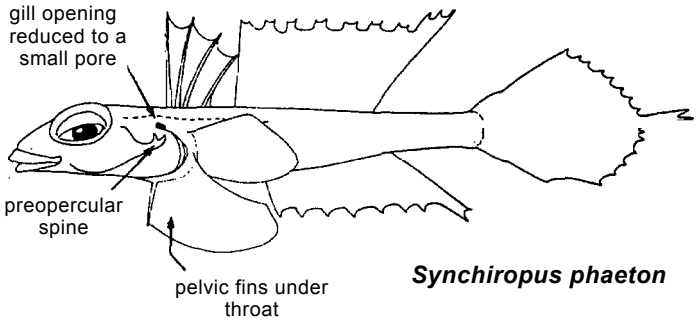
DRAGONETS - Perciformes: Callyonimoidei

A sharp preopercular spine; a small gill opening on upper part of head; size usually under 30 cm.

CALLIONYMIDAE Dragonets

To about 30 cm; marine, from coastal waters to about 650 m depth; benthic. A single species in the area.



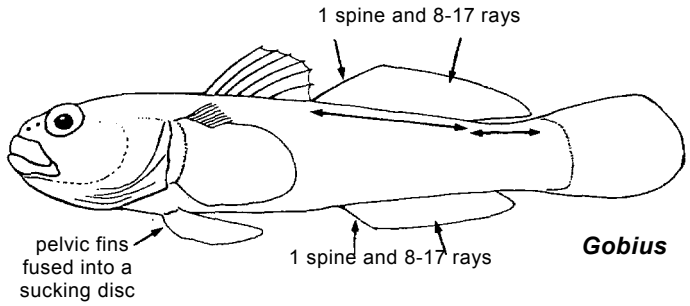
Synchiropus phaeton

GOBIES AND ALLIES - Perciformes: Gobioidei

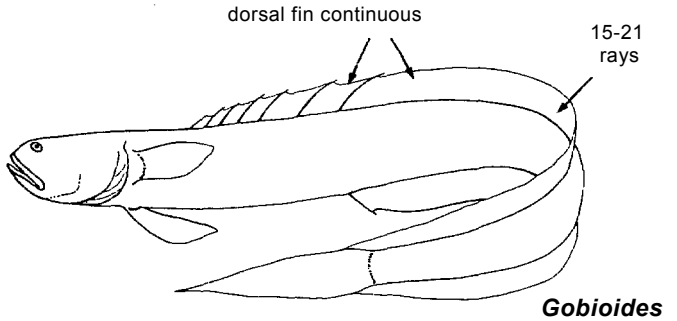
Usually small fishes with pelvic fins either very close together, or united into a single cup-like structure.

GOBIIDAE Gobies

To about 36 cm, but most species less than 10 cm; marine and brackish waters, occasionally freshwaters; usually in very shallow waters, but a few species to below 150 m depth; benthic.



Gobius

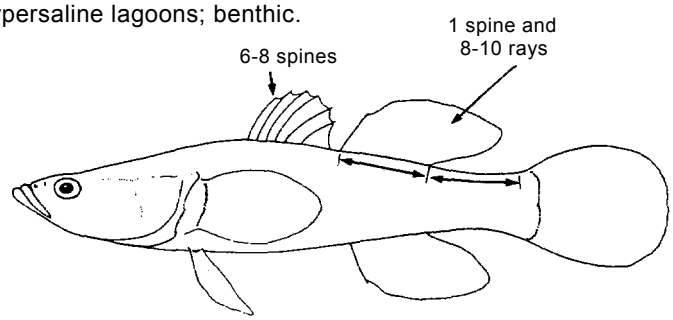


Gobioides

A large number of other genera occur in the area.

ELEOTRIDAE Sleepers, sleeper gobies

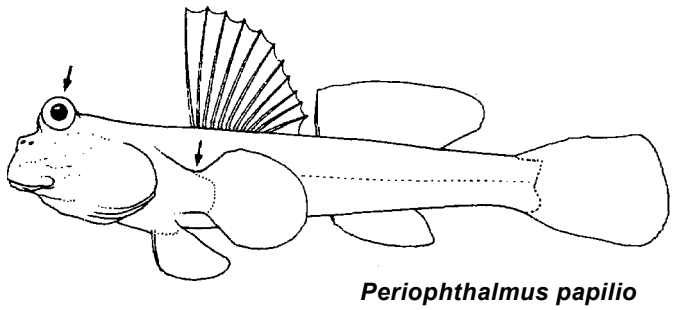
To about 30 cm; adults generally in freshwater, but entering brackish and coastal marine waters and hypersaline lagoons; benthic.



Several genera occur in the area.

PERIOPHTHALMIDAE Mudskippers

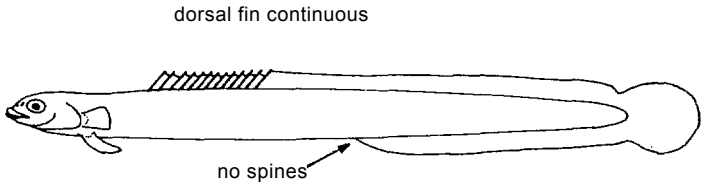
To 25 cm; littoral; amphibious in shallows and on exposed intertidal mud flats of estuarine mangrove swamps. A single species in the area.



Periophthalmus papilio

MICRODESMIDAE Wormfishes

To 28 cm; marine, in shallow coastal waters (less than 40 m depth); benthic, burrowing.



SURGEONFISHES - Perciformes: Acanthuroidei

Small scales; a strong, movable, forward-projecting spine mid-laterally on caudal peduncle.

ACANTHURIDAE Surgeonfishes, doctorfishes **page 39**

To about 45 cm; marine, in shallow waters, usually at less than 50 m depth; benthic.

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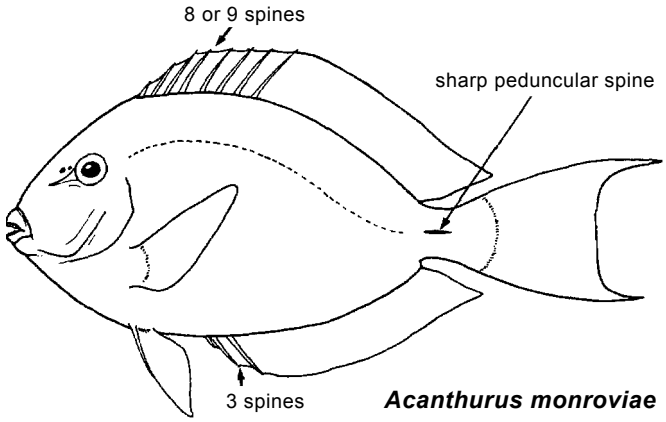
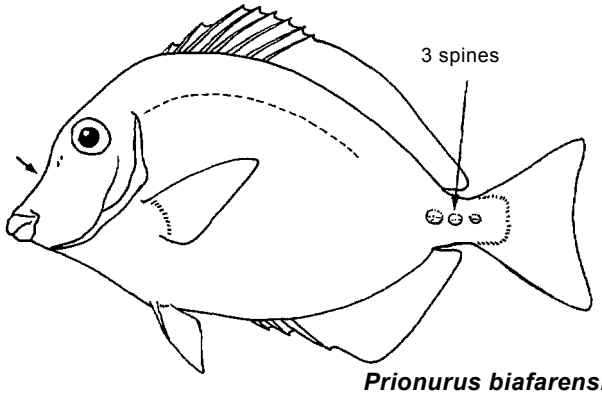
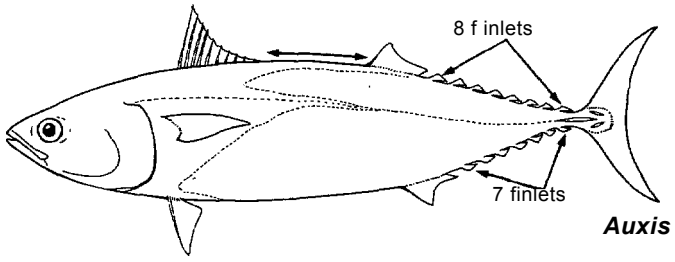


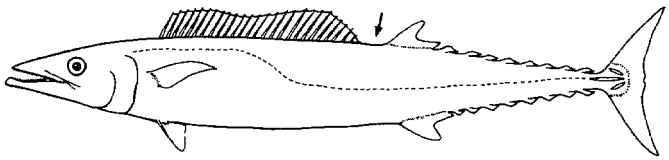
Acanthurus monroviae



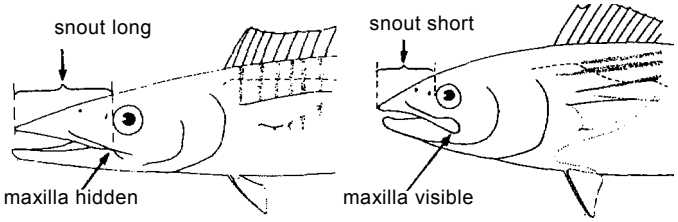
Prionurus biafarensis



Auxis



Acanthocybium solandri



Acanthocybium ***Scomberomorus***

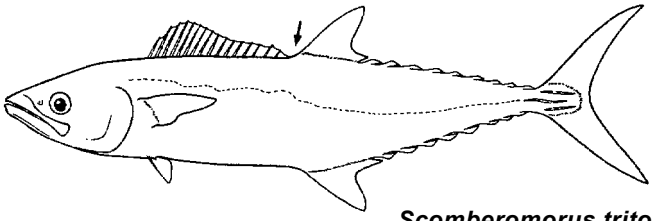
TUNAS AND ALLIES - Perciformes: Scombroidei

Finlets frequently present at posterior ends of dorsal and anal fins; 1 to 3 keels on either side of caudal pecuncle (except in most species of Gempylidae).

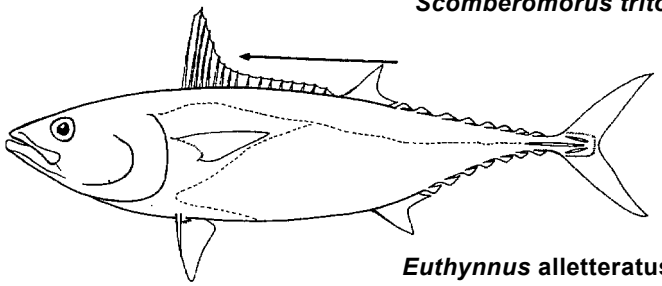
SCOMBRIDAE **page 98**

Mackerels, tunas, wahoos, bonitos, ceros, albacores

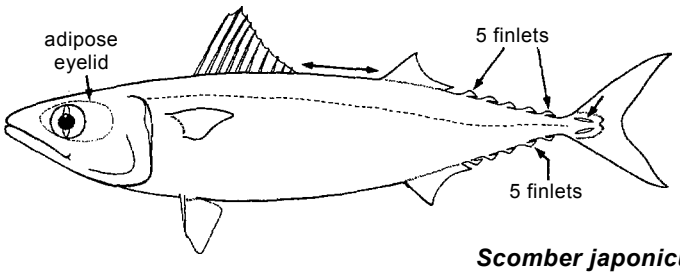
To over 300 cm; marine, from surface waters to below 100 m depth; pelagic.



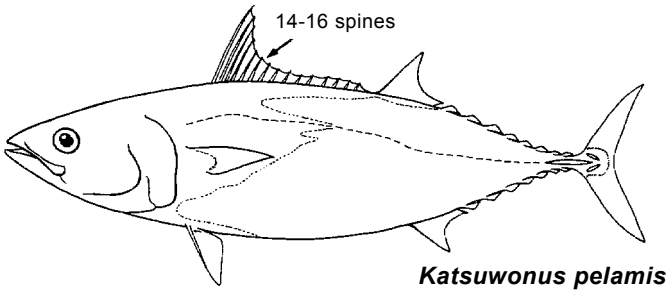
Scomberomorus tritor



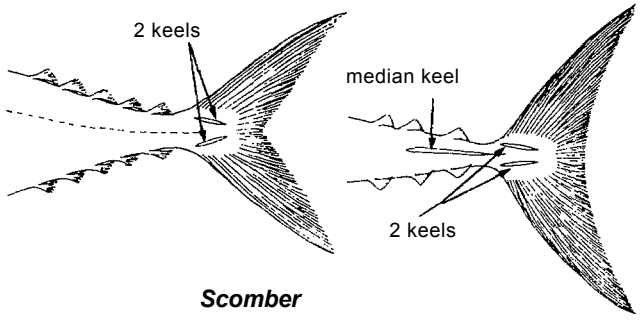
***Euthynnus* alletteratus**



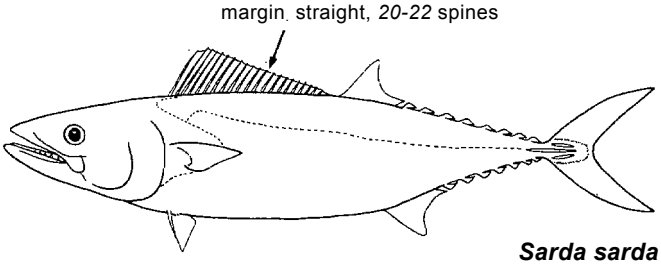
Scomber japonicus



Katsuwonus pelamis

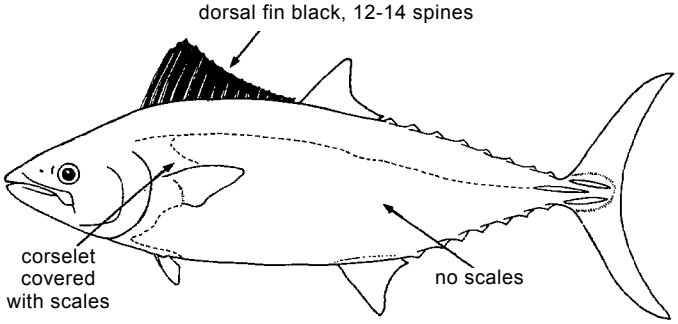


Scomber

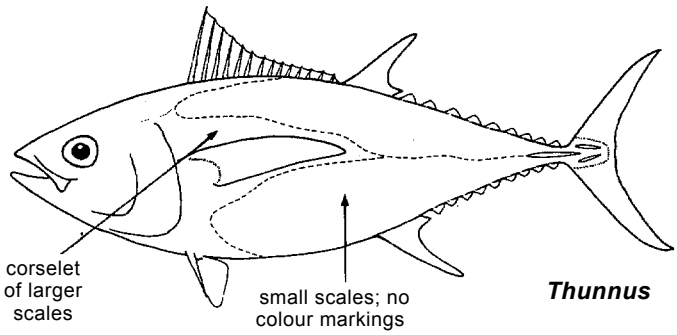


Sarda sarda

BONY FISHES
GUIDE TO FAMILIES



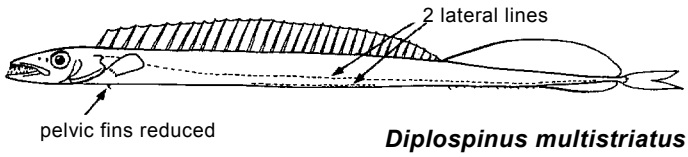
Orcynopsis unicolor



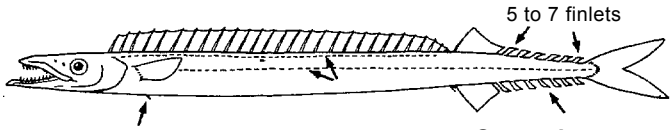
Thunnus

GEMPYLIDAE Snake mackerels, escolars, oilfishes **page 67**

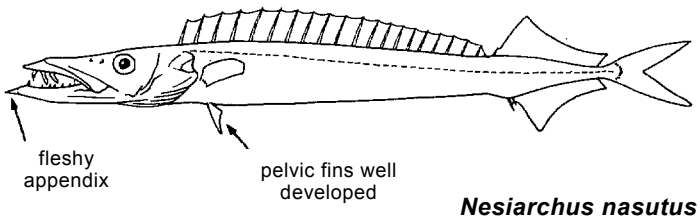
To about 300 cm; marine, from the surface (at night) to below 200 m depth; pelagic.



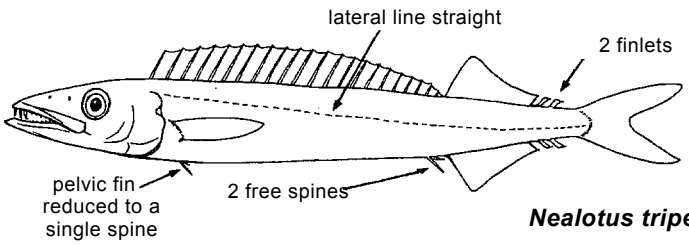
Diplospinus multistriatus



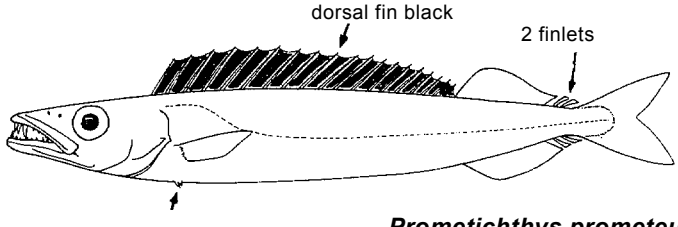
Gempylus serpens



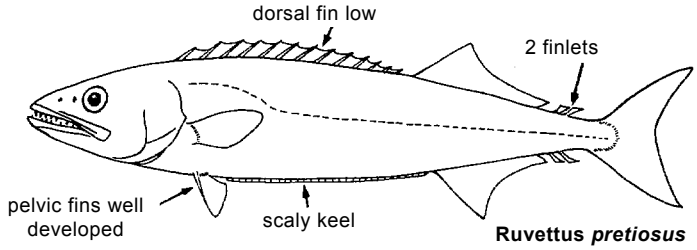
Nesiarchus nasutus



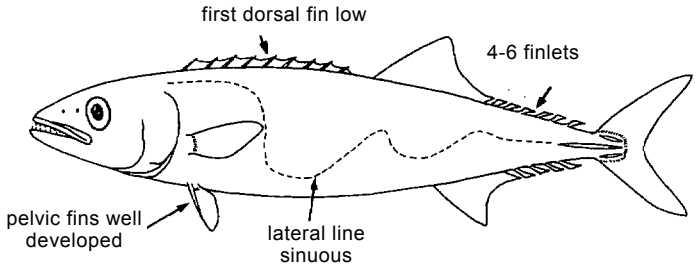
Nealotus tripes



Prometichthys prometeus



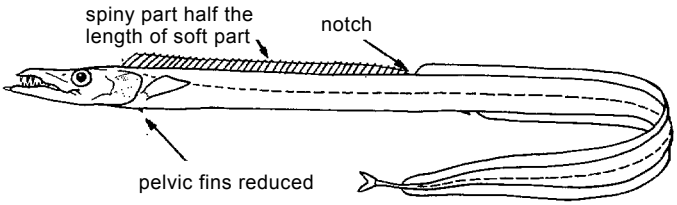
Ruvettus *pretiosus*



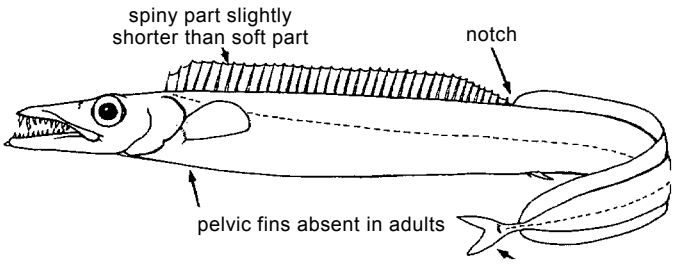
Lepidocybium flavobrunneum

TRICHIURIDAE Cutlassfishes, frostfishes, scabbardfishes. hairtails **page 125**

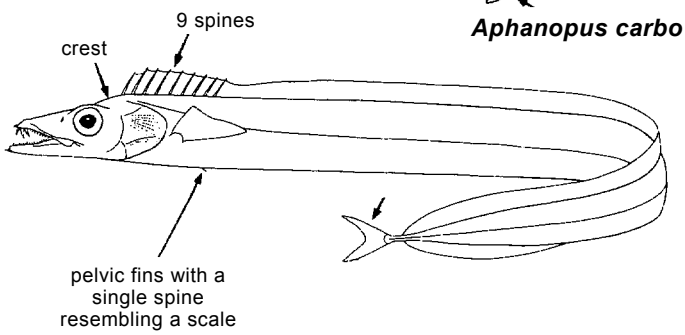
To 250 cm; marine, from the surface (mainly at night) to below 1500 m depth; benthic and pelagic.



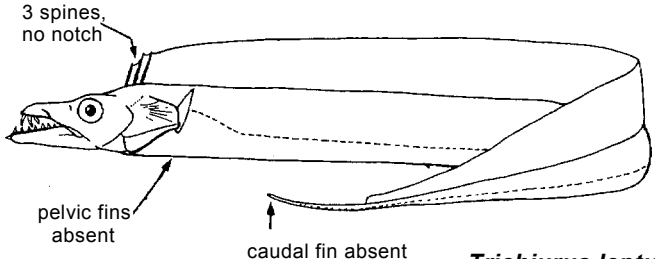
Benthodesmus tenuis



Aphanopus carbo



Lepidopus caudatus



Trichiurus lepturus

BONY FISHES
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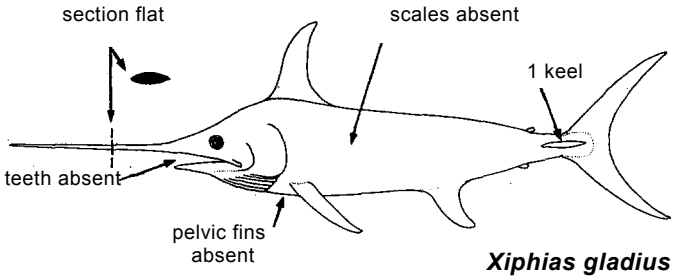
SWORDFISHES AND ALLIES - Perciformes: Xiphioidei

Upper jaw prolonged, sword-like.

XIPHIIDAE Swordfishes **page 128**

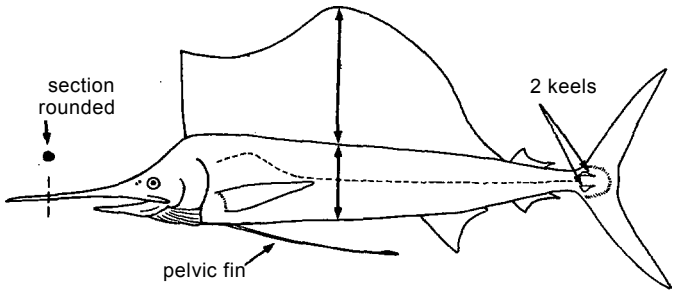
To 450 cm; marine, from surface waters to below 800 m depth; pelagic. A single species.



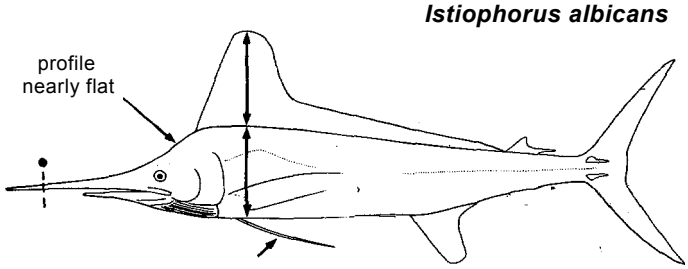
Xiphias gladius

ISTIOPHORIDAE Billfishes, marlins, spearfishes, sailfishes **page 74**

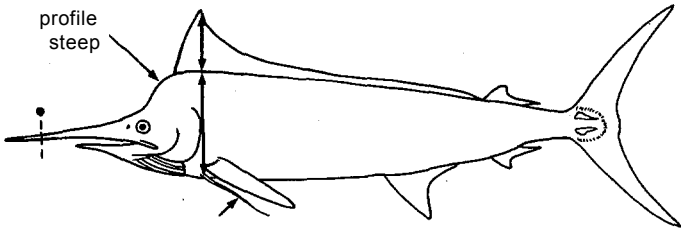
To 400 cm; marine, pelagic oceanic, usually above the thermocline.



Istiophorus albicans



Tetrapturus



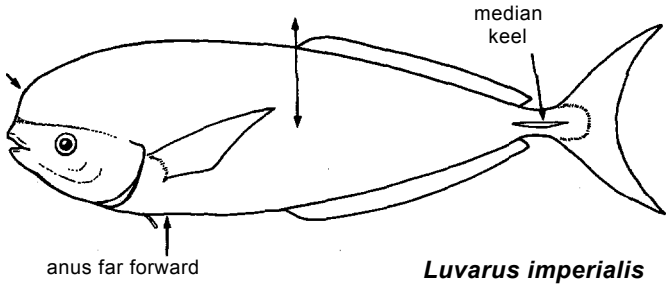
Makaira

LOUVARS - Perciformes: Luvaroidei

Head large with a steep dorsal profile; origin of dorsal fin behind pectoral fins; pelvic fins under throat.

LUVARIDAE Louvars

To about 190 cm; marine, from the surface to below 150 m depth; pelagic oceanic. A single species.



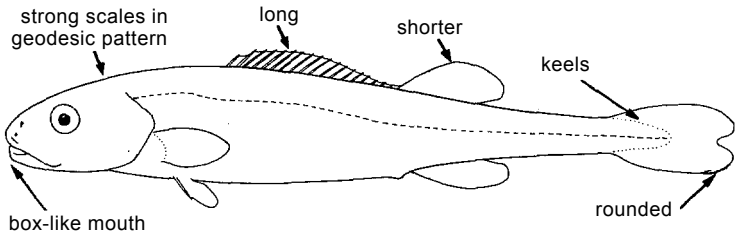
Luvarus imperialis

HARVESTFISHES AND ALLIES - Perciformes: Stromateoidei

Shape variable; snout blunt and thick; toothed saccular outgrowths (pharyngeal sacs) present in the gullet immediately behind the last gill arch; teeth small, approximately uniserial.

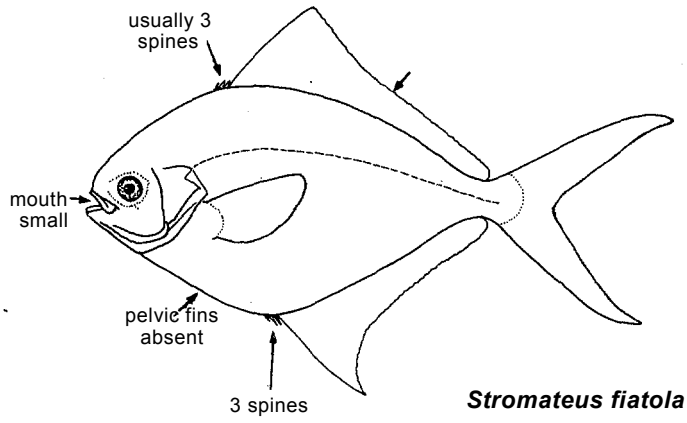
TETRAGONURIDAE Squaretails

To about 30 cm; marine, in surface waters to below 1000 m depth; mesopelagic to epipelagic.



STROMATEIDAE Harvestfishes, butterfishes **page 120**

To about 50 cm; marine, from near the surface to about 200 m depth; pelagic. A single species in the Gulf of Guinea.

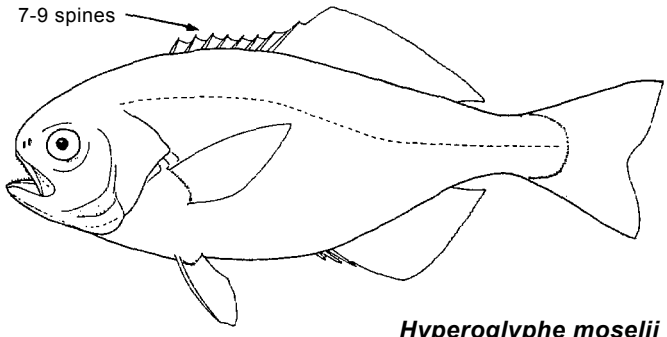


Stromateus fiatola

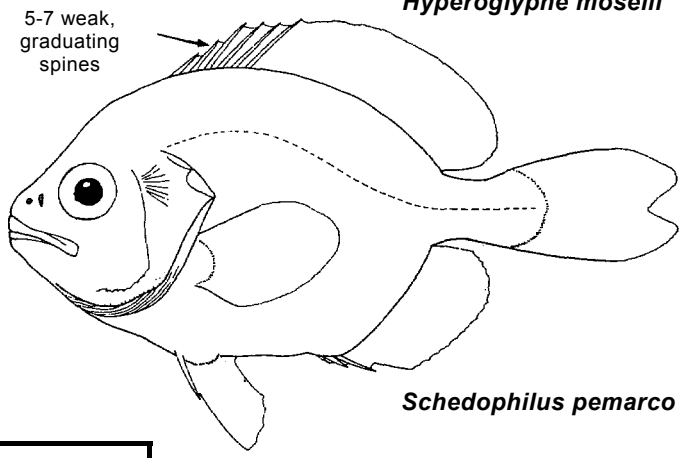
BONY FISHES
GUIDE TO FAMILIES

CENTROLOPHIDAE Ruffs, barrelfishes, blackfishes **page 56**

To about 120 cm; marine, from near the surface to below 200 m depth; pelagic.



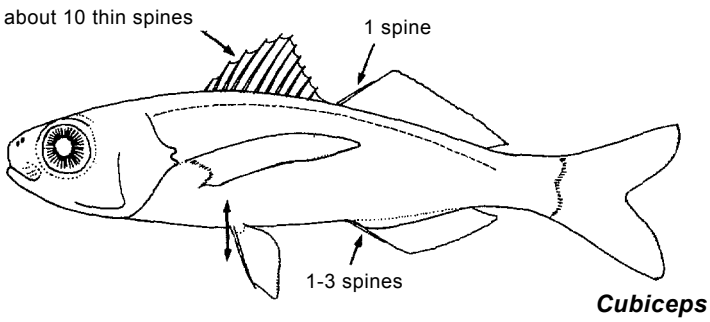
Hyperoglyphe moselii



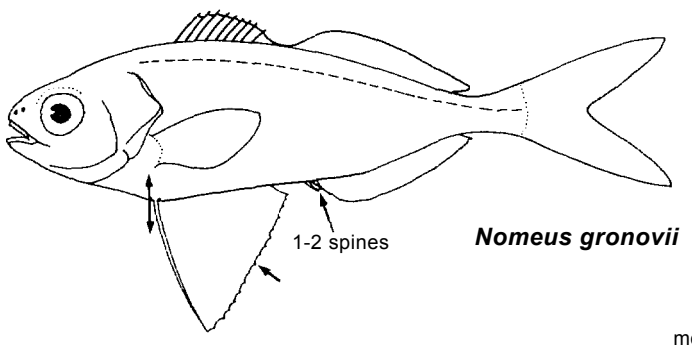
Schedophilus pemarco

NOMEIDAE Man-of-war fishes

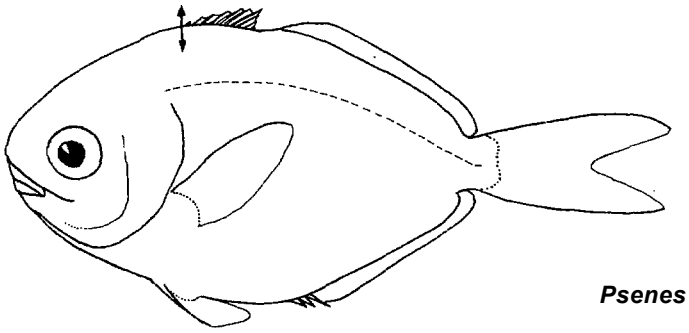
To 100 cm; marine, from near the surface (especially the young) to below 200 m depth; usually, pelagic, but some species may be deep benthic.



Cubiceps



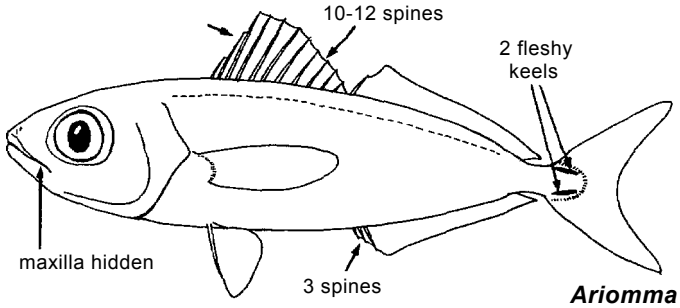
Nomeus gronovii



Psenes

ARIOMMATIDAE Driftfishes, ariommas **page 41**

To about 25 cm; marine, from the surface (the young) to below 500 m depth; mostly benthic to benthopelagic.



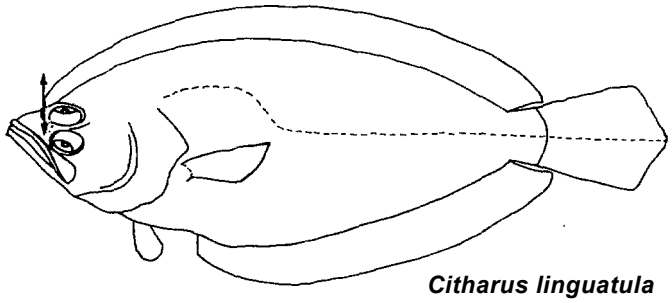
Ariomma

FLATFISHES - Pleuronectiformes

Flattened body shape; eyes present on one side of body only.

CITHARIDAE Flounders **page 57**

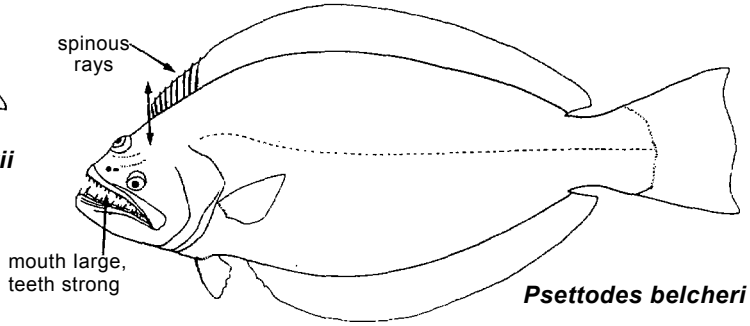
To 25 cm; marine, to about 300 m depth; benthic. A single species in the Gulf of Guinea.



Citharus linguatula

PSETTODIDAE Spinyturbots **page 92**

To 60 cm; marine, from coastal waters to about 150 m depth. A single species in the Gulf of Guinea.



Psettodes belcheri

BONY FISHES
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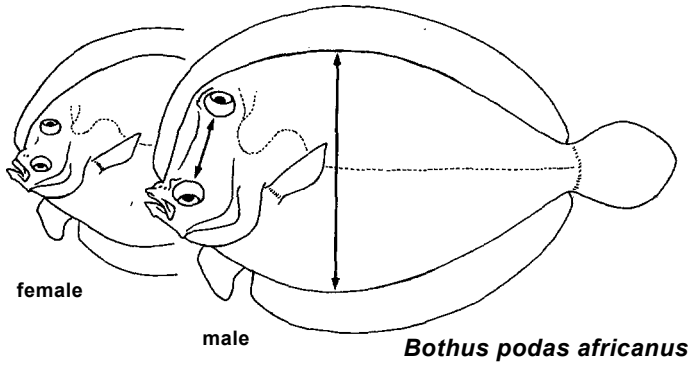
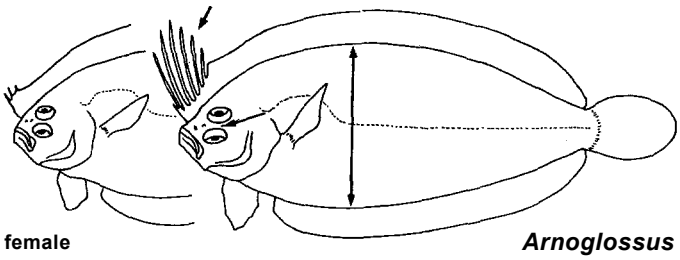
BOTHIDAE Lefteye flounders **page 46**

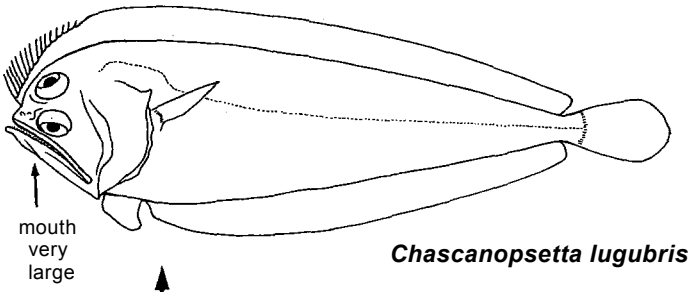
To about 75 cm; marine, from the coastline to below 200 m depth; benthic.



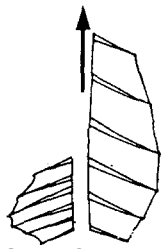
Bothus podas africanus



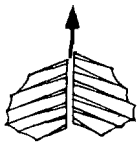
Arnoglossus



Chascanopsetta lugubris

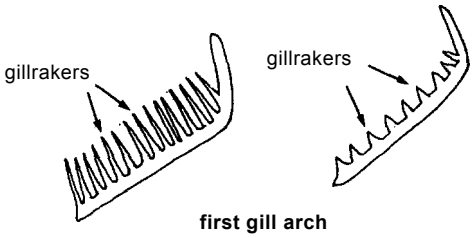


Arnoglossus, Bothus, Chascanopsetta



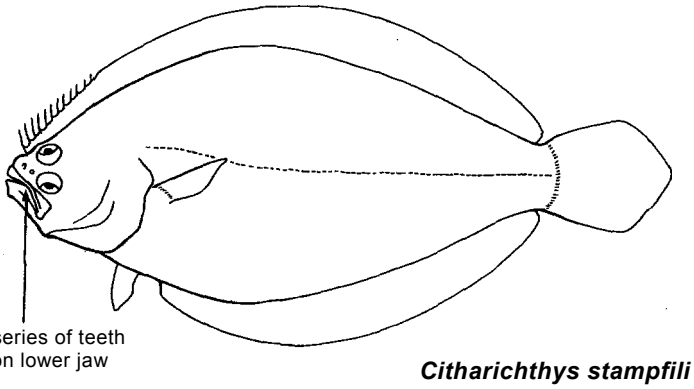
Citharichthys, Syacium, Monolene

pelvic fins, ventral view (arrows show towards head)

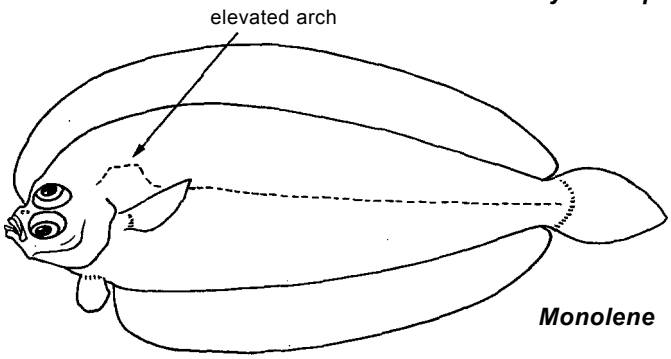


first gill arch

Syacium ***Citharichthys***



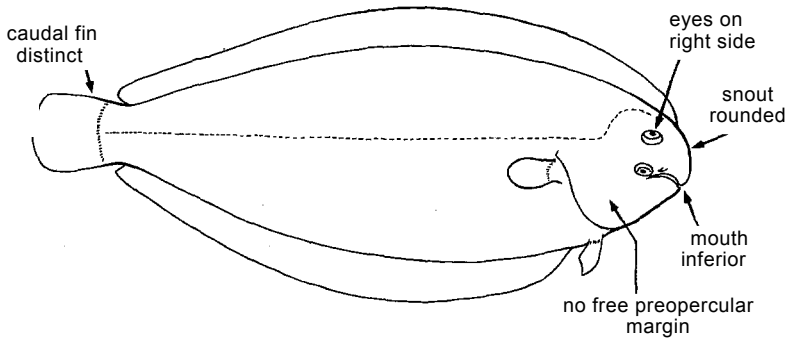
Citharichthys stampfili

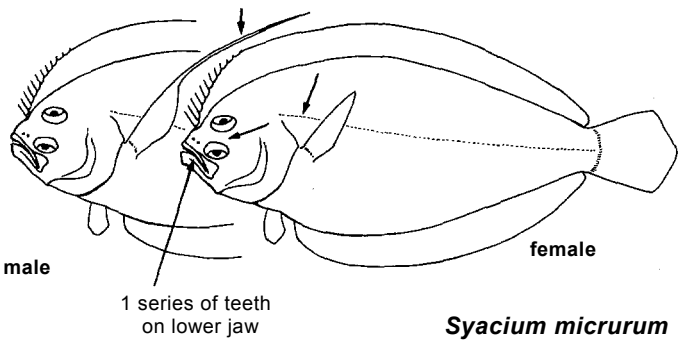


Monolene

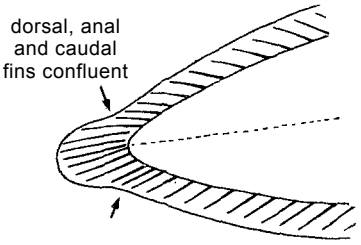
SOLEIDAE Soles **page 107**

To about 70 cm; marine, from the coastline to below 100 m depth; some species in estuaries and freshwater; benthic.

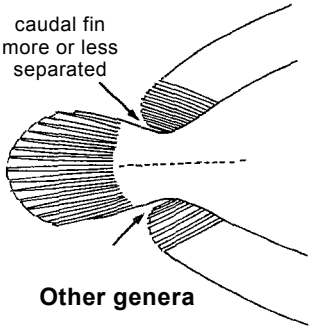




Syacium micrurum



Synaptura



Other genera

BONY FISHES
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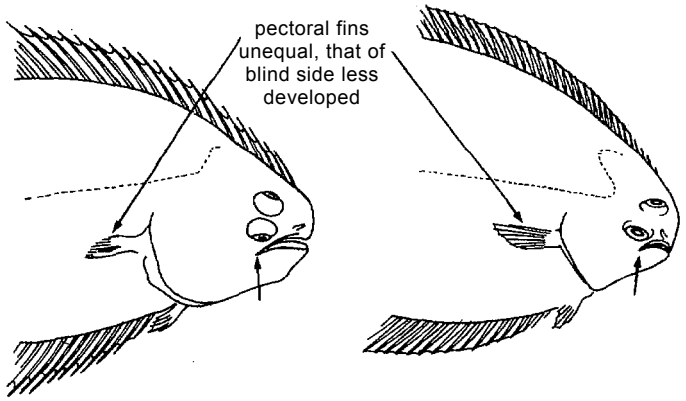
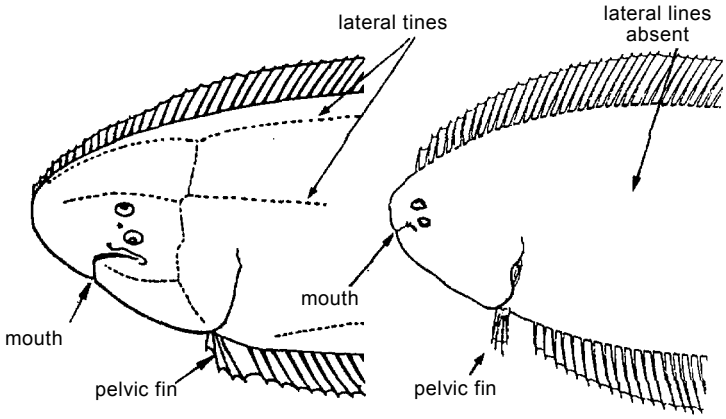
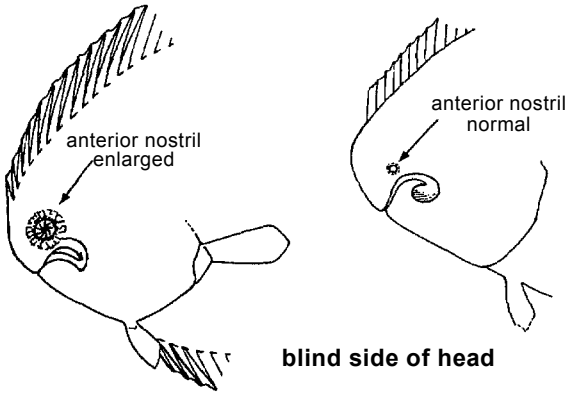


Vanstraelenia chirophthalmus ***Microchirus***



Cynoglossus ***Symphurus***



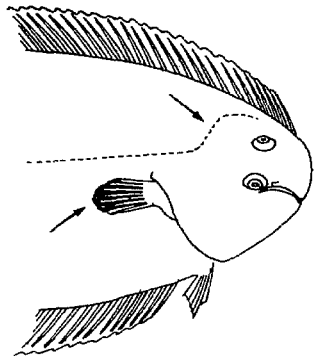
Pegusa ***Dicologoglossa***

PUFFERFISHES AND ALLIES - Tetraodontiformes

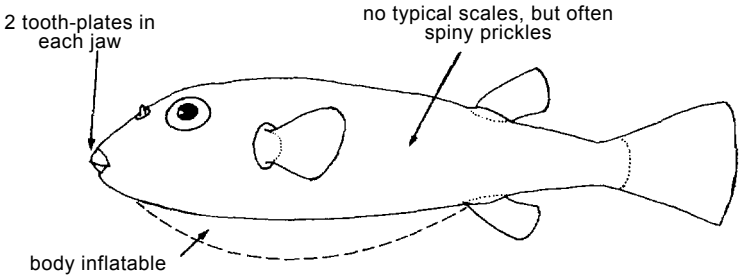
Pelvic fins absent or strongly reduced; a small mouth with strong teeth frequently coalesced into a biting plate; a small gill opening; skin thick or rough, sometimes with prickles, spines or scaly plates.

TETRAODONTIDAE Puffers **page 121**

To about 100 cm; coastal marine waters, estuaries, brackish and hypersaline lagoons and occasionally freshwater; from the coastline to about 180 m depth; benthic.

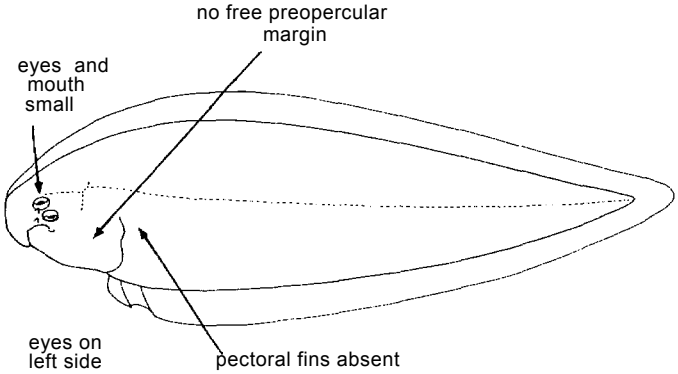


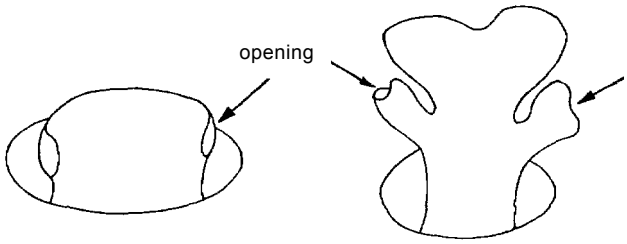
Dicologoglossa



CYNOGLOSSIDAE Tonguetishes, tonguesoles **page 59**

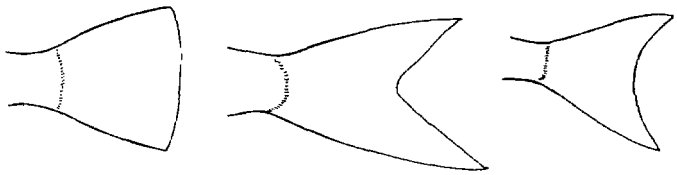
To about 60 cm; marine, from shallow coastal waters to about 300 m depth; benthic.





Lagocephalus, **Sphoeroides** ***Ephippion***

nasal papilla



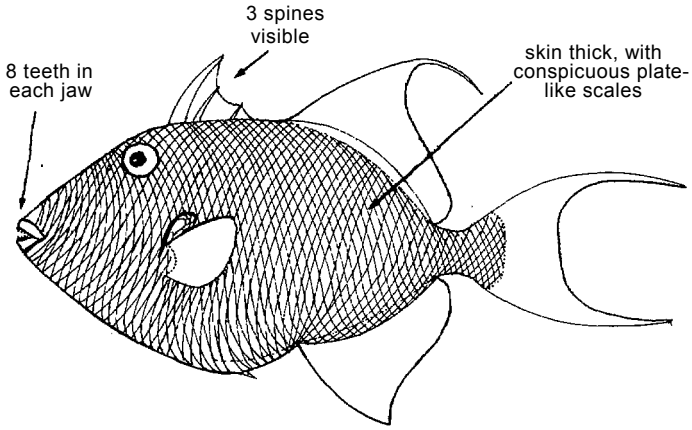
Sphoeroides **Lagocephalus *lagocephalus*** ***Lagocephalus laevigatus***

caudal fins

BONY FISHES
GUIDE TO FAMILIES

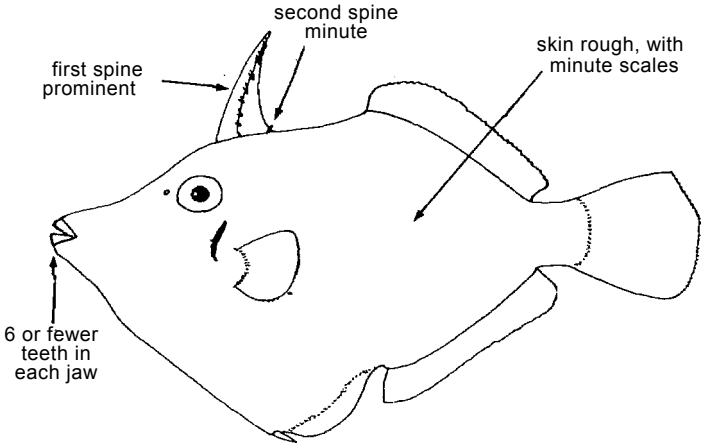
BALISTIDAE Triggerfishes, durgons **page 42**

To about 50 cm; from the coastline to about 100 m depth; mostly benthic.



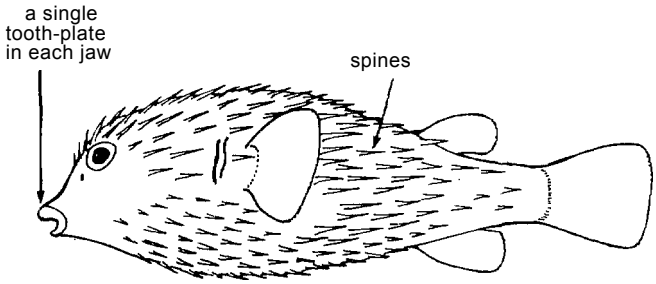
MONACANTHIDAE Filefishes, leatherjackets

To about 60 cm; marine, from the coastline to about 100 m depth; mostly benthic. Two species caught occasionally.



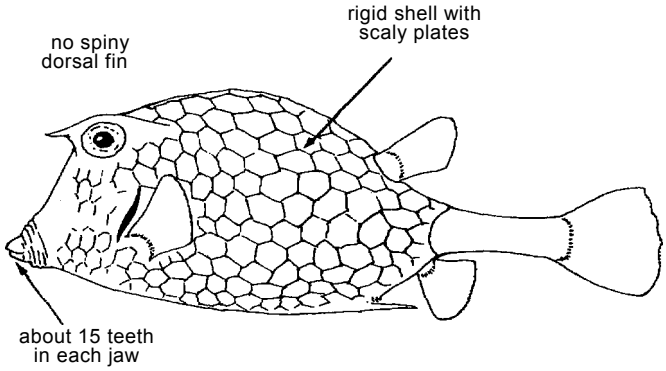
DIODONTIDAE Porcupinefishes, spiny puffers, burrfishes

To about 100 cm; from the coastline to about 100 m depth; benthic to pelagic. Four species captured occasionally for ornamental purposes.



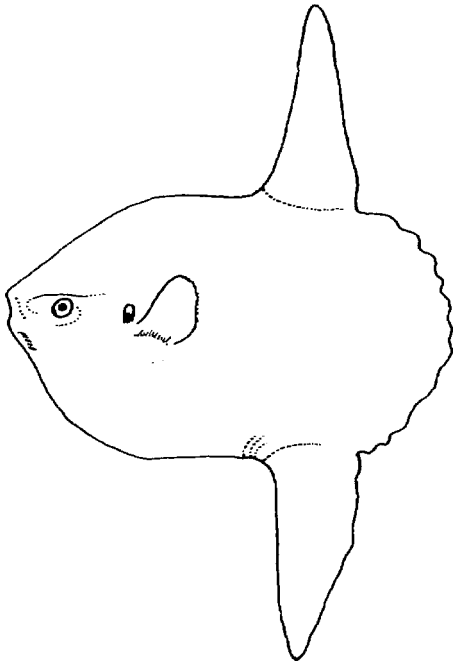
OSTRACIIDAE Trunkfishes, boxfishes, cowfishes

To about 35 cm; marine, from the coastline to about 100 m depth; benthic. Many genera and species captured occasionally for ornamental purposes.



MOLIDAE Malas, ocean sunfishes, headfishes

To about 400 cm; marine, from the surface to about 360 m depth; pelagic oceanic. Three species caught occasionally.



next page

ACANTHURIDAE

Acanthurus monroviae Steindachner, 1876

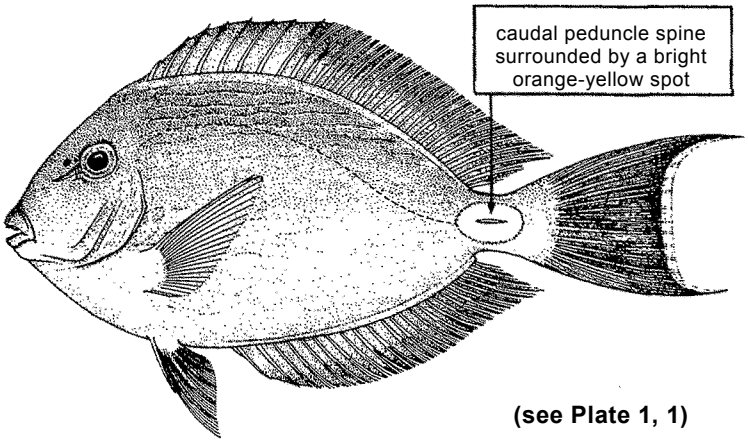
FAO names : **En** - Monrovia doctorfish; **Fr** - Chirurgien chas-chas; **Sp** - Navajón.

Size: 50 cm.

Fishing gear : traps, fixed bottom nets, set nets, trawls and line gear.

Habitat : on rocky and coral bottoms from 0 to 60 m.

Loc.name(s):



(see Plate 1, 1)

***Prionurus* biafraensis** (Blache & Rossignol, 1961)

Synonyms: *Xesurus biafraensis* Blache & Rossignol, 1961.

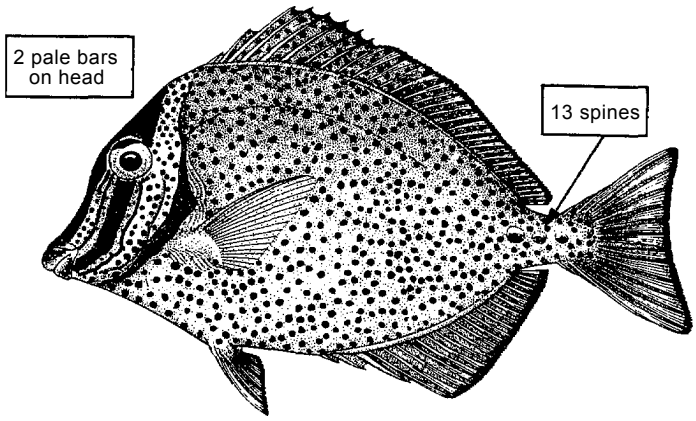
FAO names : **En** - Biafra doctorfish; **Fr** - Chirurgien biafra; **Sp** - Navajón de Biafra.

Size: 20 cm, common to 15 cm.

Fishing gear : gill nets, bottom trawls.

Habitat : demersal, in coastal waters.

Loc.name(s) :



Albula vulpes (Linnaeus, 1758)

ALBULIDAE

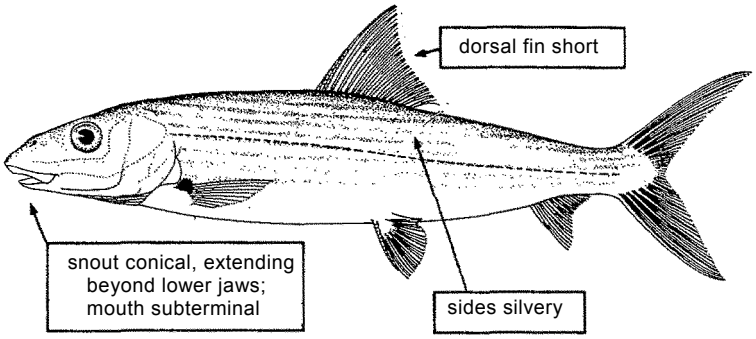
FAO names : **En** - Bonefish; **Fr** - Banane de mer; **Sp** - Macabí.

Size : 70 cm, common to 35 cm.

Fishing gear : purse seines, beach seines.

Habitat : sandy and muddy bottoms in coastal waters, estuaries and bays.

Loc.name(s) :



Pterothrissus belloci Cadenat, 1937

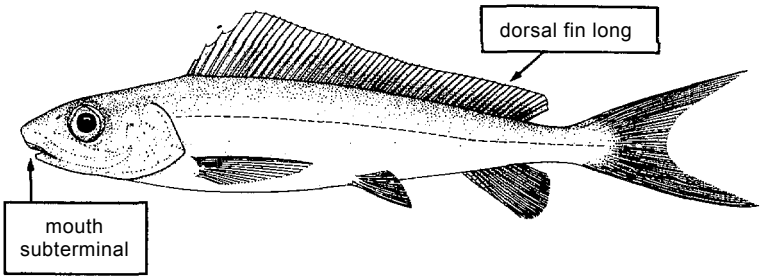
FAO names : **En** - Longfin bonefish; **Fr** - Banane gisu; **Sp**- Macabí badejo.

Size : about 45 cm.

Fishing gear : bottom trawls, set nets.

Habitat : found from 70 to 500 m depth, more common on the continental slope.

Loc.name(s) :



BONY FISHES

ARIIDAE

Arius gigas Boulenger, 1911

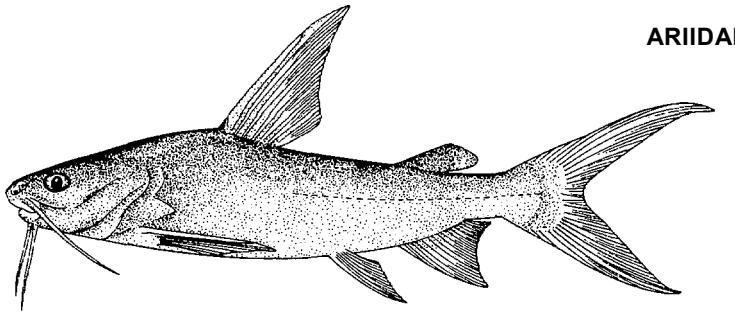
FAO names : **En** - Giant sea catfish; **Fr** - Mâchoiron géant; **Sp** - Bagre gigante.

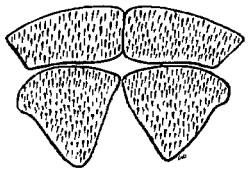
Size : more than 120 cm.

Fishing gear : artisanal fishing gear.

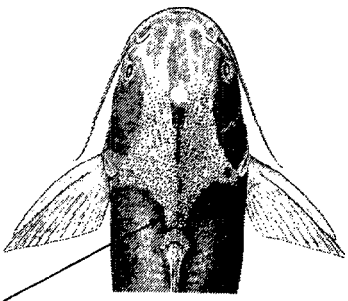
Habitat : known only from northern affluents of the Gulf of Guinea. Probably found in rivers, estuaries and adjoining coastal waters.

Loc.name(s) :





dental plates on roof of mouth



base of supra-occipital process moderately wide

dorsal view of head

Arius heudeloti Valenciennes, 1840

Synonyms: *Arius mercatoris* Poll, 1946.

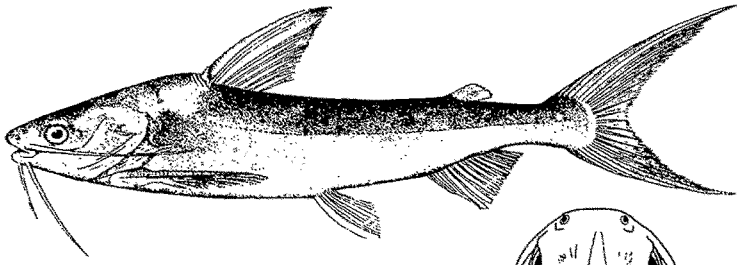
FAO names : **En** - Smoothmouth sea catfish; **Fr** - Mâchoiron banderille; **Sp** - Bagre bocalisa.

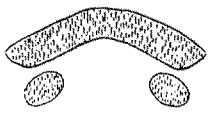
Size : about 70 cm, common to 35 cm.

Fishing gear : bottom trawls, bottom set gillnets, surrounding purse seines, longlines.

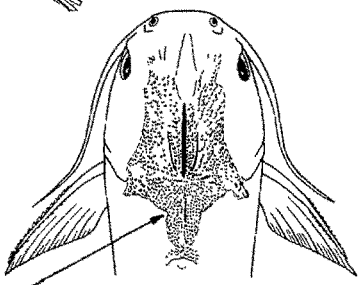
Habitat : known only from northern affluents of the Gulf of Guinea. Probably found in rivers, estuaries and adjoining coastal waters.

Loc.name(s) :





dental plates on roof of mouth



base of supra-occipital process moderately narrow

dorsal view of head

Arius latiscutatus Günther, 1864

Synonyms: *Arius gambensis* Cadenat, 1950; *Tachysurus gambensis* Fowler, 1936; *Tachysurus lagoensis* Fowler, 1936.

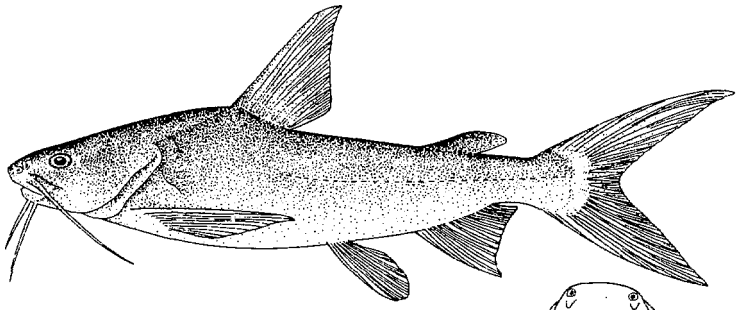
FAO names : **En** - Rough-head sea catfish; **Fr** - Mâchoiron de Gamble; **Sp** - Bagre de Gambia.

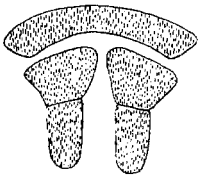
Size : about 70 cm, common to 40 cm.

Fishing gear : bottom trawls, bottom set gillnets, surrounding purse seines.

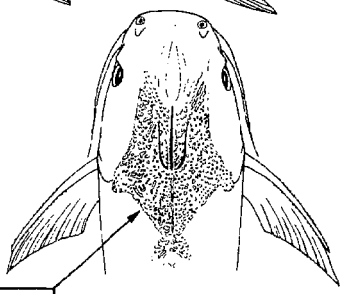
Habitat : coastal marne and brackish waters, common during winter.

Loc.name(s) :





dental plates on roof of mouth



base of supra-occipital process wide

dorsal view of head

BONY FISHES

ARIIDAE

Arius parkii Günther, 1864

Synonyms: *Arius capellonis* Steindachner, 1867; *Arius heudeloti* [Boulenger, 1911] (non Valenciennes, 1840); Tachysurus capellonis [Fowler, 19361; Tachysurus *heudelotii* [Fowler, 1936]; *Arius granulatus* Peters, 1868.

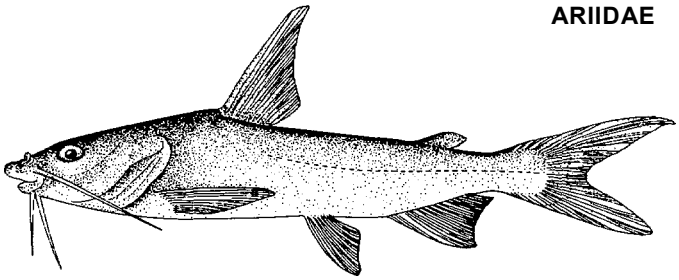
FAO names : **En** - Guinean sea catfish; **Fr** - Mâchoiron de Guinée; **Sp** - Bagre de Guinea.

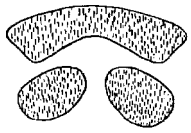
Size: 60 cm, common to 40 cm.

Fishing gear : bottom trawls, set gillnets, purse seines.

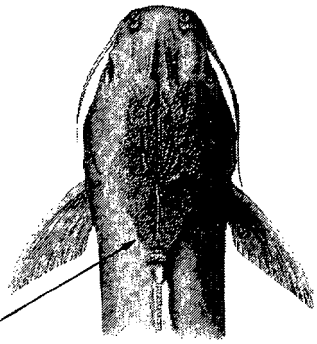
Habitat : shallow coastal waters and estuaries, prefers brackish and marine areas,

Loc.name(s) :





dental plates on roof of mouth



base of supra-occipital process wide with median keel

dorsal view of head

ARIOMMATIDAE

Ariomma bondi Fowler, 1930

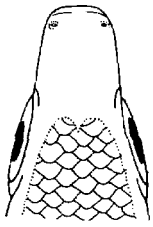
Synonyms: *Paracubiceps ledanoisi* Belloc, 1937; *Cubiceps nigriargenteus* Ginsburg, 1954; *Ariommaa ledanoisi* (Belloc, 1937).

FAO names : **En** - Silver-rag driftfish; **Fr** - Ariomme grise ; **Sp** - Arioma lucia.

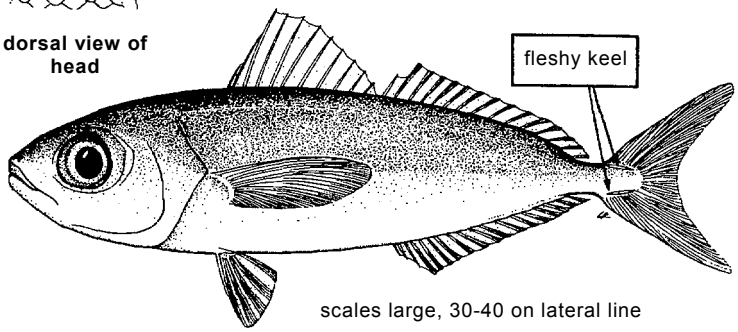
Size : 30 cm, common to 20 cm.
Fishing gear : bottom trawls.

Habitat : deep waters (100-300 m), mostly on muddy bottoms.

Loc.name(s) :



dorsal view of head



fleshy keel

scales large, 30-40 on lateral line

Ariomma melanum (Ginsburg, 1954)

Synonyms: *Paracubiceps multisquamis* Marchal, 1961; *Ariomma multisquamis* (Marchal, 1961)

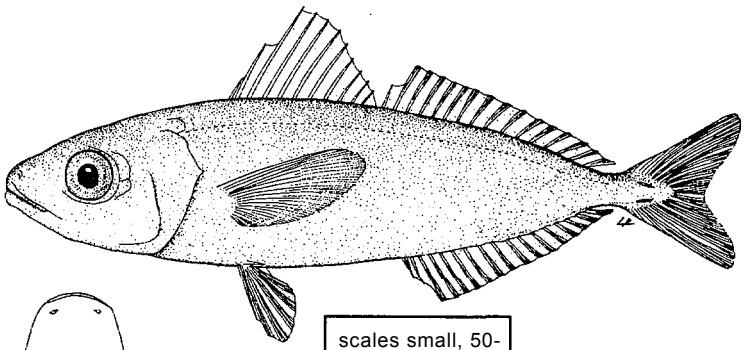
FAO names : **En** - Brown driftfish; **Fr** - Ariomme brune; **Sp** - Arioma parda.

Size : 25 cm, common to 20 cm.

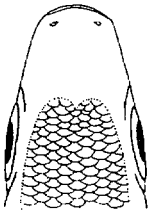
Fishing gear : bottom trawls.

Habitat : deep waters, from 200 to 600 m, on the continental shelf, usually on soft bottoms.

Loc.name(s) :



scales small, 50-65 on lateral line



dorsal view of head

BONY FISHES

AULOPODIDAE

Aulopus cadenati Poll, 1953

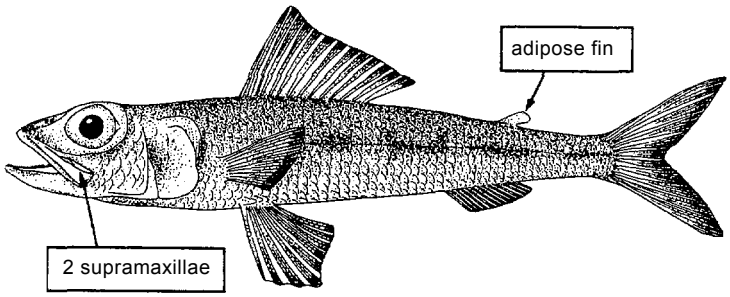
FAO names : **En** - Guinean flagfin; **Fr** - Limbert guinéen; **Sp** - Lagarto real de Guinea.

Size : 27 cm, common to 26 cm.

Fishing gear : trawls.

Habitat : benthic on outer continental shelf and upper slope, from 100 to 270 m (16 - 14.5°C).

Loc.name(s) :



BALISTIDAE

Abalistes stellatus (Lacepède, 1798)

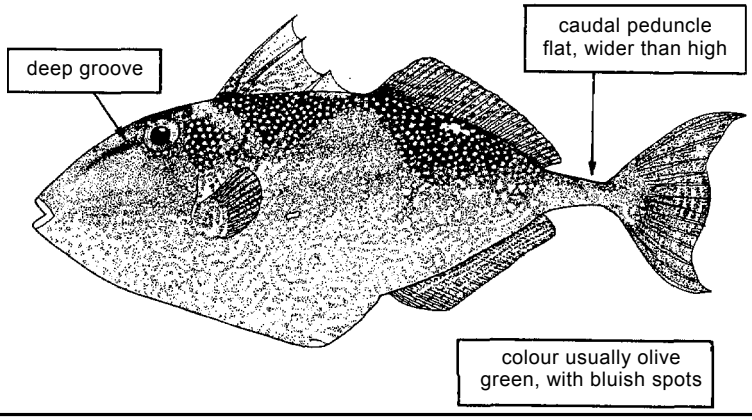
FAO names : **En** - Starry triggerfish; **Fr** - Baliste étoilé; **Sp** - Pejepuerco estrellado.

Size: 60 cm.

Fishing gear :

Habitat : on muddy and sandy bottoms, to 50 m depth.

Loc.name(s) :



Balistes capriscus Gmelin, 1788

Synonyms : *Balistes carolinensis* Gmelin, 1788; *Balistes forcipatus* Gmelin, 1788

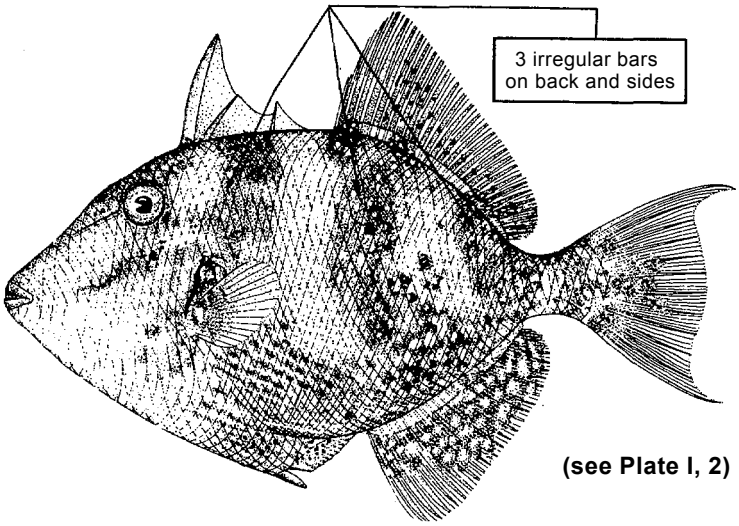
FAO names : En - Grey triggerfish; **Fr** - Baliste cabri; **Sp** - Pejepuerco blanco.

Size : about 50 cm, common to 20 cm.

Fishing gear : bottom trawls, traps, handlines, beach seines.

Habitat : on sandy and rocky bottoms, to 60 m depth.

Loc.name(s) :



(see Plate I, 2)

Balistes punctatus Gmelin, 1788

Synonyms: usually misidentified as *Balistes forcipatus* Gmelin, 1788.

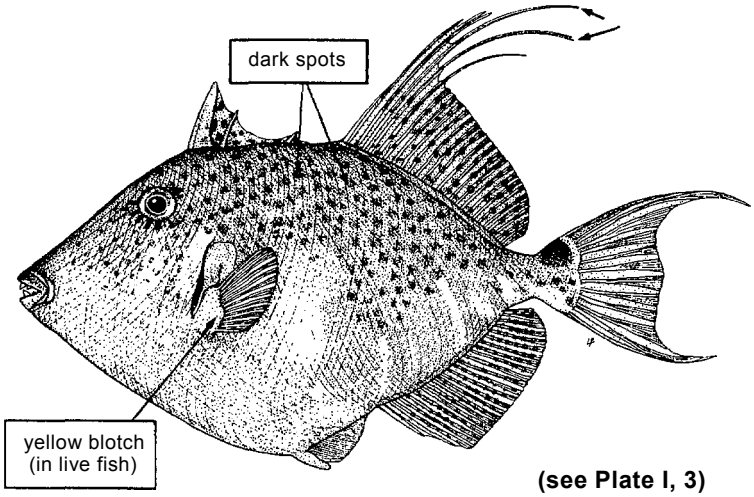
FAO names : **En** - Bluespotted triggerfish; **Fr** - Baliste à taches bleues; **Sp** - Pejepuerco moteado.

Size: about 60 cm, common to 25 cm.

Fishing gear : bottom trawls, traps, bottom set nets, handlines, beach seines.

Habitat : shallow coastal waters, mostly on sandy bottoms; a solitary species.

Loc.name(s) :



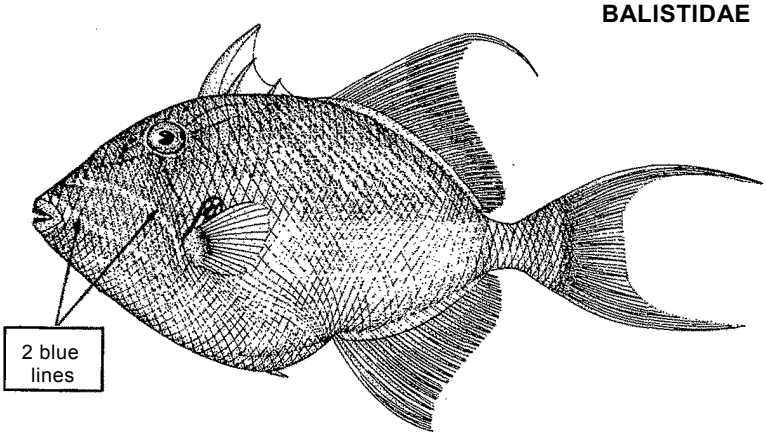
(see Plate I, 3)

next page

BONY FISHES

BALISTIDAE

Balistes vetula Linnaeus, 1758



FAO names : **En** - Queen triggerfish; **Fr** - Baliste royal; **Sp** - Pejepuerco cachúo.

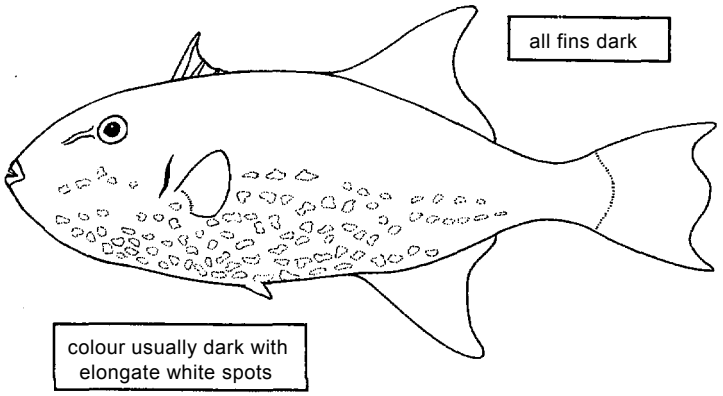
Size : about 50 cm, common to 25 cm.

Fishing gear : bottom trawls, traps, lines.

Habitat : adults near the bottom, especially around coral reefs and sand and vegetated grounds.

Loc.name(s) :

Canthidermis maculatus (Bloch, 1786)



FAO names : **En** - Rough triggerfish; **Fr** - Baliste rude; **Sp** - Calafate áspero.

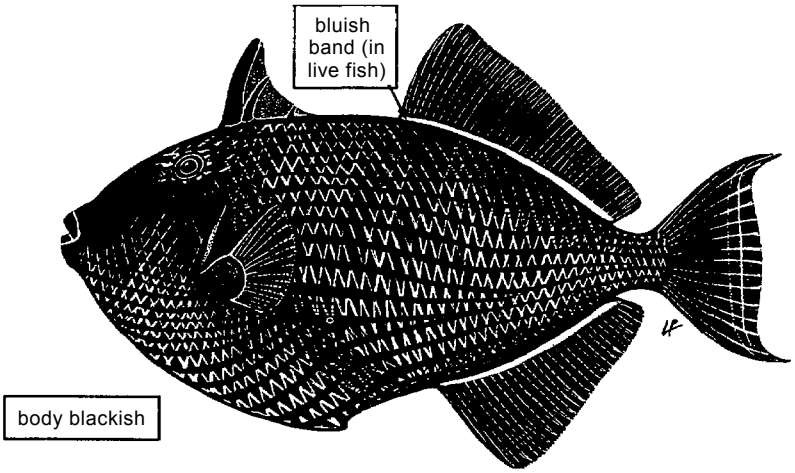
Size : more than 50 cm.

Fishing gear : trawls.

Habitat : coastal waters, but often found well offshore.

Loc.name(s) :

Melichthys niger (Bloch, 1786)



FAO names : **En** - Black triggerfish; **Fr** - Baliste noire; **Sp** - Calafate negro.

Size : 50 cm, common to 30 cm.

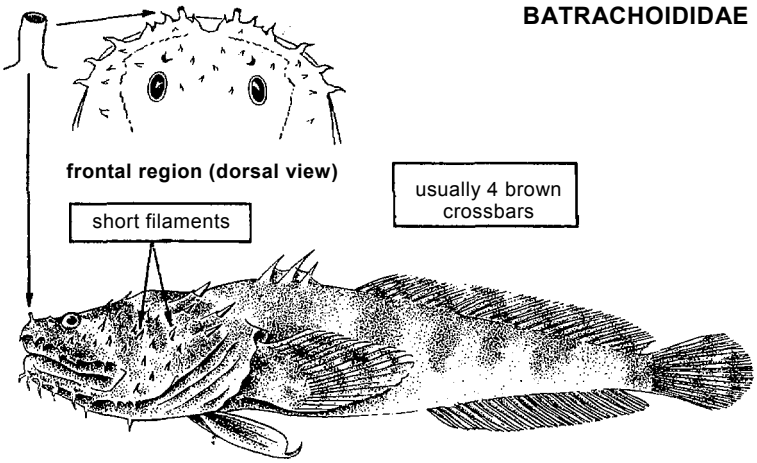
Fishing gear: bottom trawls, traps, lines.

Habitat : in shallow coastal waters to about 30 m depth.

Loc.name(s) :

BATRACHOIDIDAE

Batrachoides liberiensis (Steindachner, 1867)



Synonyms: *Batrachus liberiensis* Steindachner, 1867; *Batrachoides beninensis* Regan, 1915.

FAO names : En - Hairy toadfish; **Fr** - Crapaud poilu; **Sp** - Sapo peludo.

Size: at least 25 cm, perhaps a total length of 46 cm.

Fishing gear : bottom trawls, beach seines and other artisanal fishing gear.

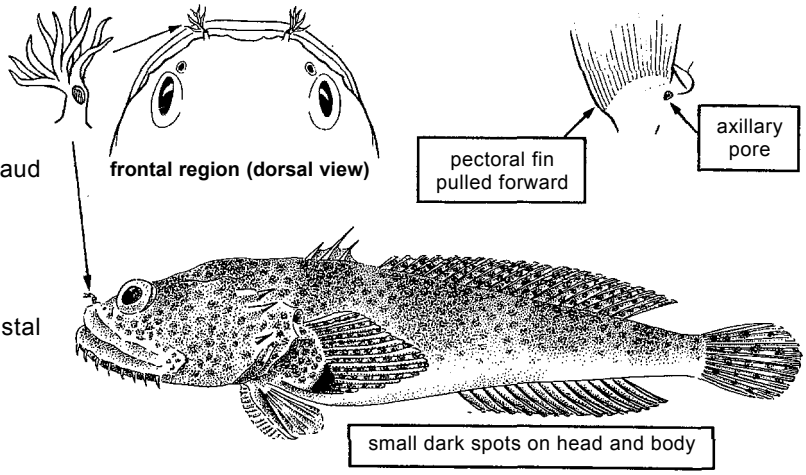
Habitat : bottom-living, especially in littoral and coastal waters to about 30 m; also in brackish waters.

Loc.name(s) :

BONY FISHES

BATRACHOIDIDAE

Halobatrachus didactylus (Schneider, 1801)



Synonyms : *Batrachus didactylus* Schneider, 1801.

FAO names : En - Lusitanian toadfish; **Fr** - Crapaud lusitanien; **Sp** - Sapo lusitánico.

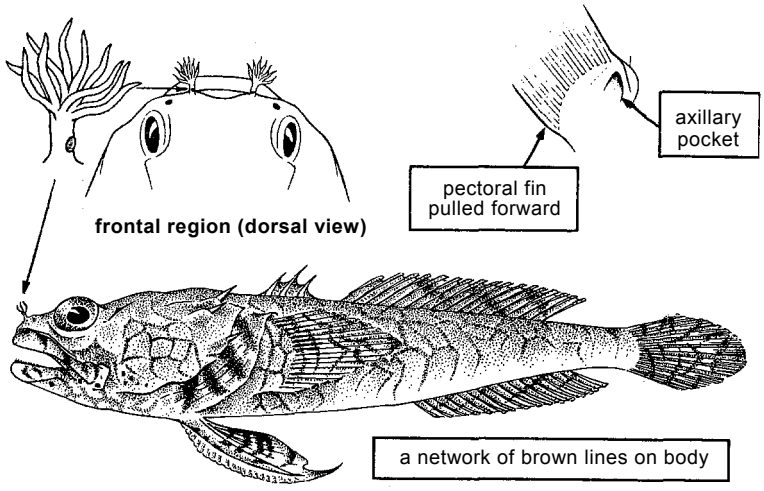
Size : 45 cm.

Fishing gear : bottom trawls, artisanal fishing gear.

Habitat : bottom-living, especially in shallow coastal waters, to about 50 m depth,

Loc.name(s) :

Perulibatrachus elminensis (Bleeker, 1861)



Synonyms: *Batrachus elminensis* Bleeker, 1863; *Parabatrachus elminensis* (Bleeker, 1863); *Batrachus budkeri* Roux, 1957.

FAO names : **En** - Guinean toadfish; **Fr** - Crapaud guinéen; **Sp** - Sapo guineano.

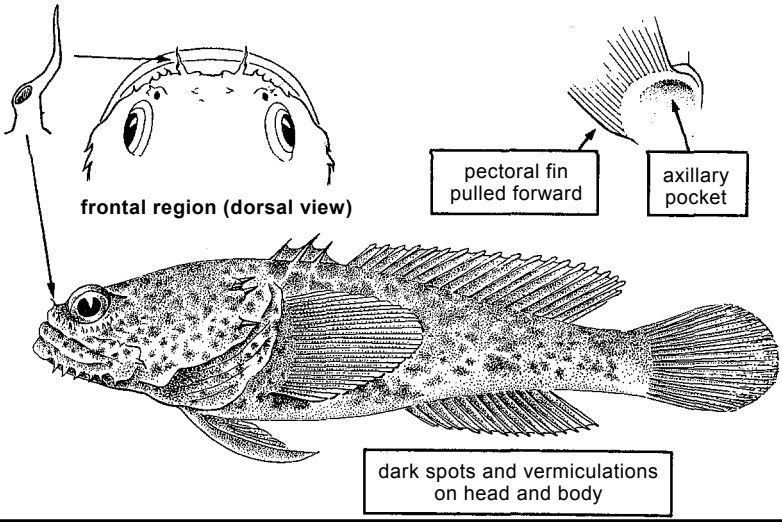
Size : 35 cm, common to 20 cm.

Fishing gear : artisanal fishing gear, trawls.

Habitat : bottom-living, in coastal waters.

Loc.name(s) :

Perulibatrachus rossignoli (Roux, 1957)



Synonyms : *Batrachus rossignoli* Roux, 1957.

FAO names : **En** - Rossignol toadfish; **Fr** - Crapaud de Rossignol; **Sp** - Sapo de Rossignol.

Size : at least 30 cm (possibly 40 cm).

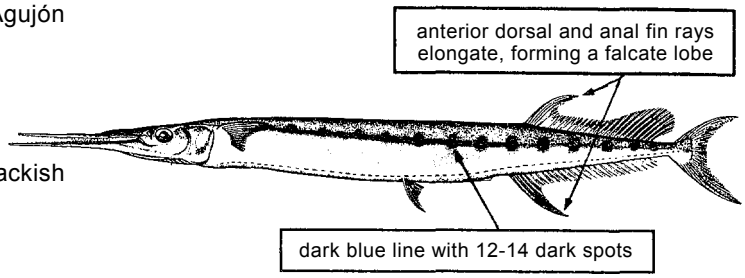
Fishing gear : artisanal fishing gear, trawls.

Habitat : bottom-living on the continental shelf.

Loc.name(s) :

Ablennes hians (Valenciennes, 1846)

BELONIDAE



FAO names : **En** - Flat needlefish; **Fr** - Orphie plate; **Sp** - Agujón sable.

Size : about 105 cm, common to 90 cm.

Fishing gear : purse seines, lines, set nets.

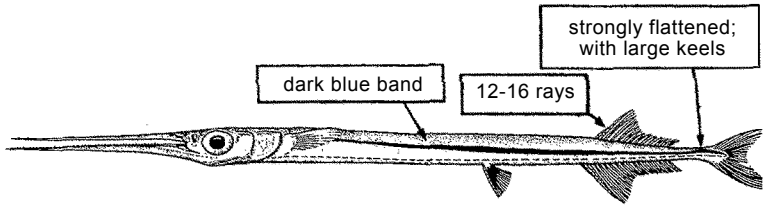
Habitat : mainly in offshore surface waters, but also in brackish waters of estuaries and in backwaters of rivers.

Loc.name(s) :

BONY FISHES

BELONIDAE

Platybelone argalus annobonensis Collete & Parin, 1970



FAO names : En - Keeltail needlefish; **Fr** - Orphie carène; **Sp** - Agujón de quilla.

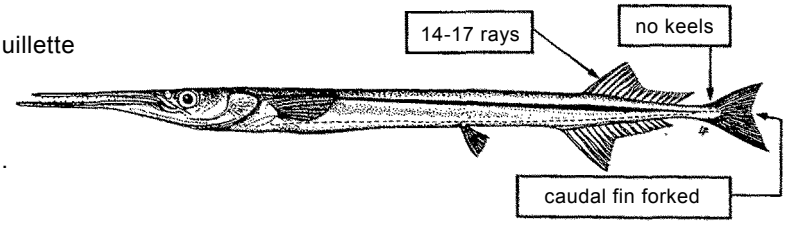
Size : standard length at least to 38.2 cm and body length (without beak and caudal): 25.6 cm. Common standard-length to 80 cm.

Fishing gear : cast nets, trolling gear, trammelnets.

Habitat : pelagic in surface waters.

Loc.name(s) :

Strongylura senegalensis (Valenciennes, 1846)



Synonyms: often misidentified as *Strongylura marina* (Waldbaum, 1792).

FAO names : En - Senegal needlefish; **Fr** - Aiguillette sénégalaise; **Sp** - Agujón senegalés.

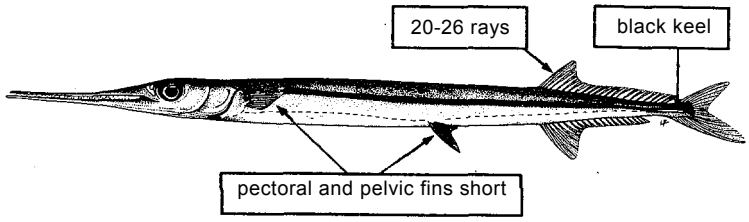
Size : about 150 cm, common to 60 cm.

Fishing gear : cast nets, trolling gear, purse seines, lines.

Habitat : coastal and brackish waters.

Loc. name(s) :

Tylosurus acus rafale Colette & Parin, 1970



FAO names : En - Agujon needlefish; **Fr** - Aiguille voyeuse; **Sp** - Marao ojón.

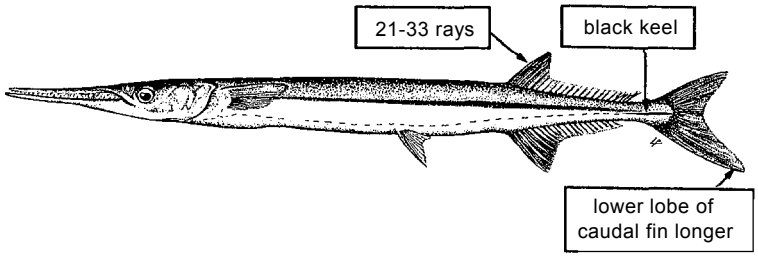
Size : 140 cm.

Fishing gear : no exact data available.

Habitat : pelagic, inhabiting offshore waters, but also found in coastal waters.

Loc. Name(s) :

Tylosurus crocodilus crocodilus (Peron & LeSueur, 1821)



Synonyms: *Tylosurus raphidoma* (Ranzani, 1842).

FAO names : En - Hound needlefish; **Fr** - Aiguille crocodile; **Sp** - Marao lisero.

Size : 100 cm.

Fishing gear : cast nets, trolling gear, purse seines, set nets, lines.

Habitat : pelagic in nearshore surface waters.

Loc.name(s) :

Arnoglossus capensis Boulenger, 1898

Synonyms: Arnoglossus *entomorhynchus* Stauch, 1967?

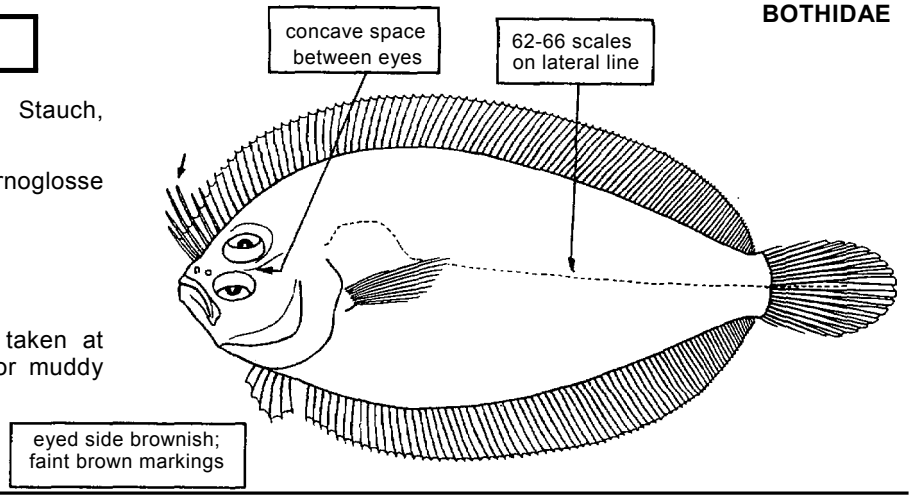
FAO names : **En** - Cape scaldfish; **Fr** - Arnoglosse du cap; **Sp** - Peludilla del Cabo.

Size: 20 cm.

Fishing gear : beach seines, trawls.

Habitat : very little information available; taken at depths between 70 and 200 m on sandy or muddy bottoms.

Loc.name(s) :



Arnoglossus imperialis (Rafinesque, 1810)

Synonyms: *Arnoglossus biachei* Stauch, 1965.

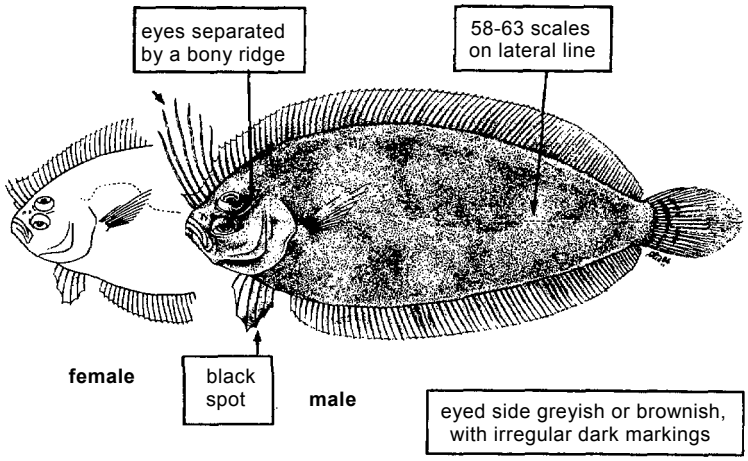
FAO names : **En** - Imperial scaldfish; **Fr** - Arnoglosse impérial; **Sp** - Serrandel imperial.

Size: 25 cm.

Fishing gear : bottom and pelagic trawls, beach seines.

Habitat : on mud, sand, shell and corals, taken between 40 and 200 m depth.

Loc.name(s) :



Bothus guibei Stauch, 1966

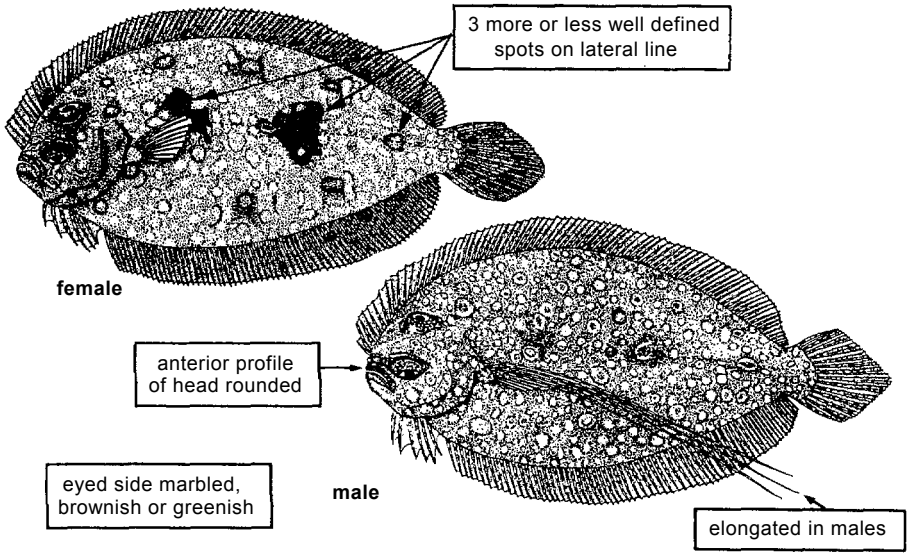
FAO names : En - Guinean flounder; **Fr** - Rombou de Guinée; **Sp** - Lenguado de Guinea.

Size: 28 cm.

Fishing gear : bottom trawls, beach seines, hook-and-line, hand-held fishing poles.

Habitat : bottom-living between 15 and 40 m depth.

Loc.name(s) :



Bothus podas africanus Nielsen, 1961

(see Plate I, 4)

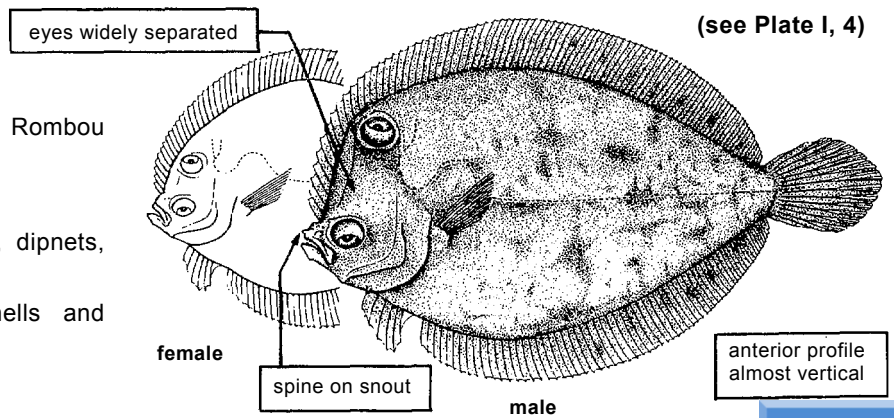
FAO names : **En** - Wide-eyed flounder; **Fr** - Rombou podas; **Sp** - Podas.

Size : 45 cm.

Fishing gear : bottom trawls, beach seines, dipnets, set bottom nets, dredges.

Habitat : bottom-living on sand, mud shells and corals, from 15 to 200 m depth.

Loc.name(s) :



next page

BONY FISHES

BOTHIDAE

Chascanopsetta lugubris Alcock, 1894

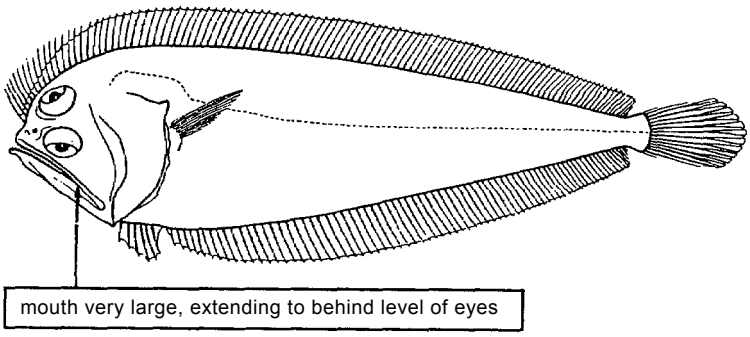
FAO names : **En** - Pelican flounder; **Fr** - Perpeire pélican; **Sp** - Lenguado pelícano.

Size: 30 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : on the continental shelf from 120 to 600 m depth.

Loc.name(s) :



Citharichthys stampflii (Steindachner, 1894)

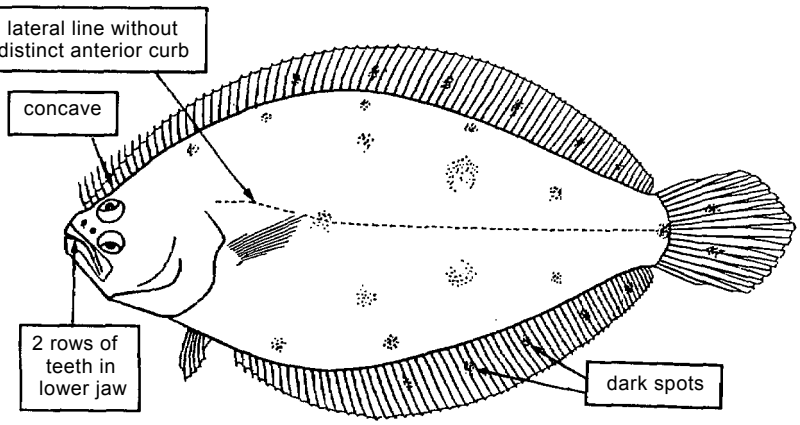
FAO names : **En** - Smooth flounder; **Fr** - Perpeire lisse; **Sp** - Lenguadoliso.

Size : 15 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : coastal waters to 50 m depth, also in estuaries; enters freshwater.

Loc. name(s) :



Monolene mertensi (Poli, 1959)

Synonyms: Leaps *mertensi* Poll, 1959

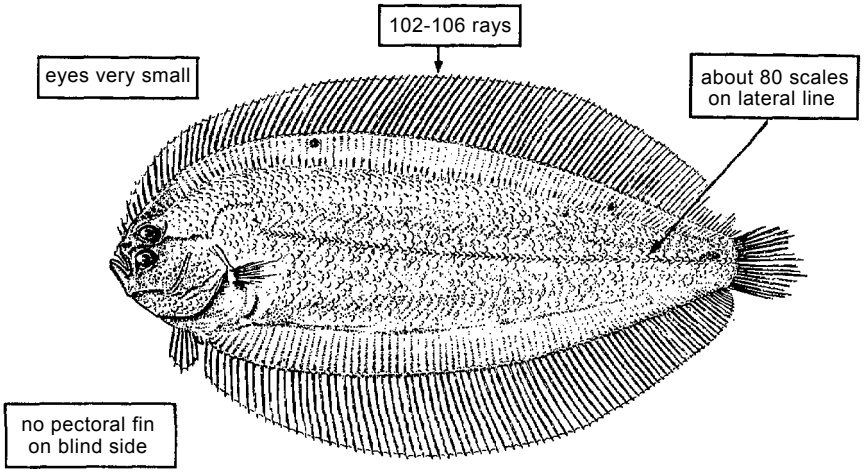
FAO names : **En** - Merten's moonflounder; **Fr** - Monolène de Mertens; **Sp** - Monolena de Mertens.

Size : 8 cm.

Fishing gear : bottom trawls.

Habitat : muddy bottoms from 100 to 700 m depth.

Loc. name(s) :



Monolene microstoma (Cadenat, 1937)

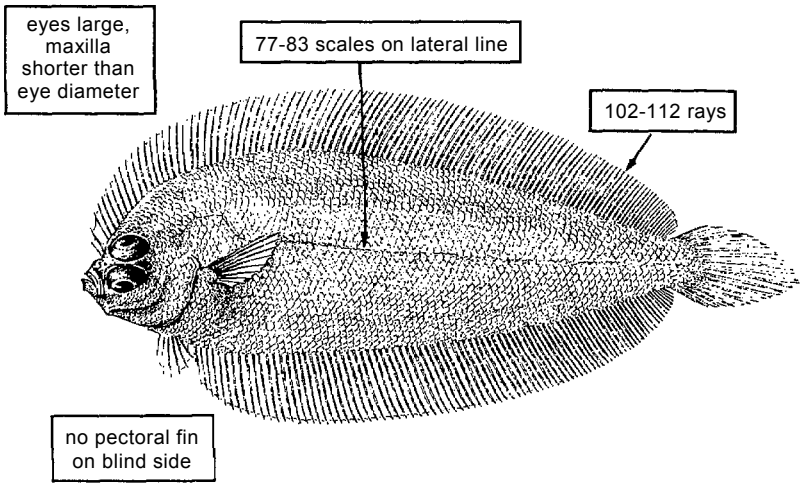
FAO names : **En** - Small mouth moonflounder; **Fr** - Monolène à petite bouche; **Sp** - Monolena bocachica.

Size: 20 cm.

Fishing gear : bottom trawls.

Habitat : muddy bottoms from 25 to 400 m depth.

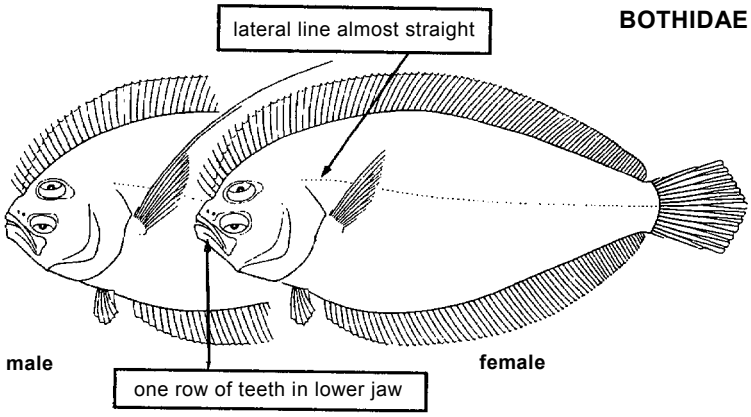
Loc.name(s) :



BONY FISHES

Syacium micrurum Ranzani, 1840

BOTHIDAE



Synonyms: *Syacium guineensis* (Bleeker, 1853).

FAO names : **En** - Channel flounder; **Fr** - Fausse limande paté; **Sp** - Lengúado pate.

Size : about 40 cm, common to 30 cm.

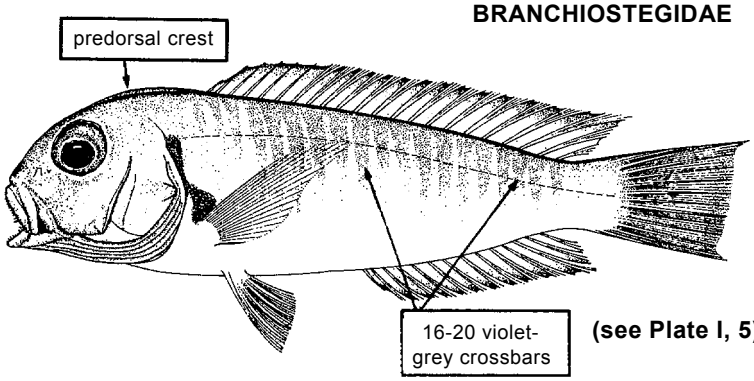
Fishing gear : bottom trawls, set bottom nets, beach seines, lines.

Habitat : sand and mud bottoms from 15 to 200 m depth.

Loc.name(s) :

Branchiostegus semifasciatus (Norman, 1931)

BRANCHIOSTEGIDAE



Synonyms: *Latilus semifasciatus* Norman, 1931.

FAO names : **En** - Zebra tilefish; **Fr** - Tile zèbre; **Sp** - Blanquillo cebra.

Size : 60 cm, common to 35 cm.

Fishing gear : bottom trawls, longlines.

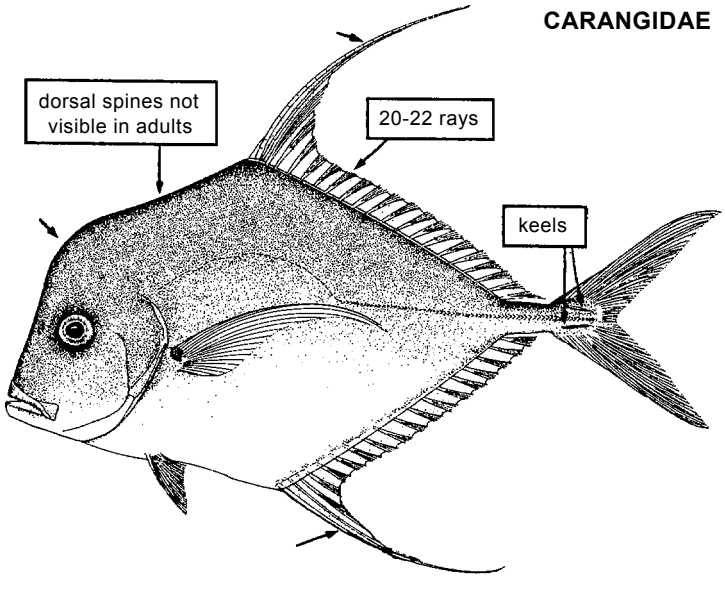
Habitat : sandy muddy bottoms from 100 to 300 m depth.

Loc.name(s) :

(see Plate I, 5)

Alectis alexandrinus (Geoffroy Saint-Hilaire, 1817)

CARANGIDAE



Synonyms: *Scyris* alexandrins (Geoffroy Saint-Hilaire, 1817); *Hynnis goreensis* Cuvier, 1833

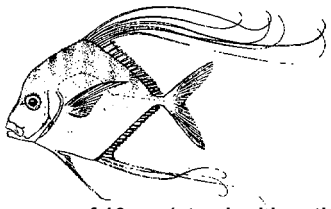
FAO names : **En** - Alexandria pompano; **Fr** - Cordonnier bossu; **Sp** - Jurel de Alejandria.

Size : at least 90 cm, common to 45 cm.

Fishing gear : bottom and pelagic trawls, boat seines, purse seines, lines.

Habitat : adults demersal in shallow waters (to 70 m depth), forming small schools.

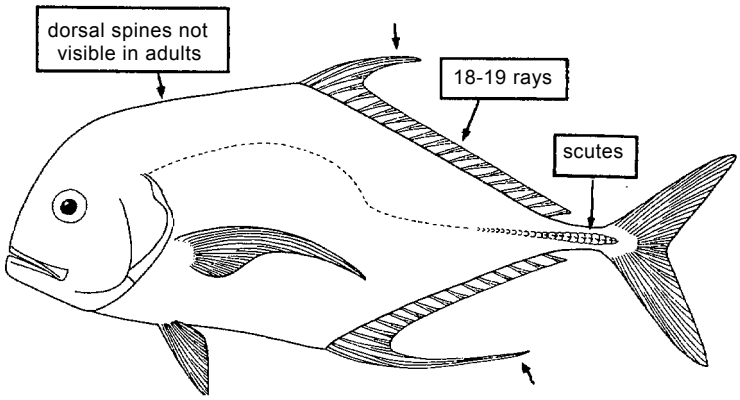
Loc.name(s) :



young of 16 cm (standard length)

(see Plate I, 6 & 7)

Alectis ciliaris (Bloch, 1788)



Synonyms: *Alectis crinitus* (Mitchill, 1826).

FAO names : En - African pompano; **Fr** - Cordonnier fil; **Sp** - Pámpano de hebra.

Size : perhaps a total length of 130 or 150 cm.

Fishing gear : bottom and pelagic trawls, boat seines, purse seines, lines.

Habitat : adults usually near the bottom to about 60 m depth; young normally pelagic and drifting. Usually solitary.

Loc.name(s) :

BONY FISHES

CARANGIDAE

Campogramma glaycos (Lacepède, 1801)

Synonyms: *Campogramma lirio* Dollfus, 1955; *Campogramma vadigo* (Risso, 1810); *Solagmedens africana* (Delsman, 1941).

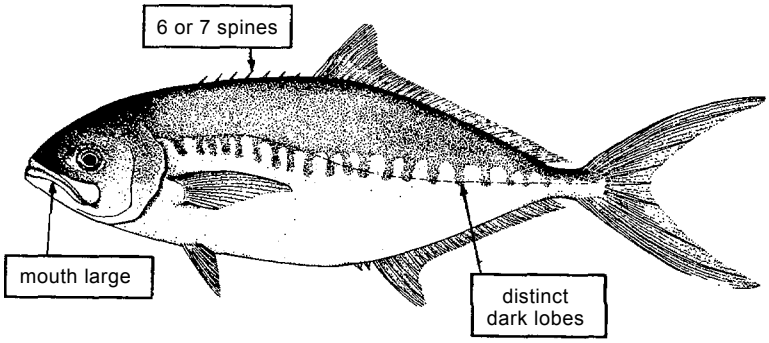
FAO names: **En** - Vadigo; **Fr** - Liche lirio; **Sp** - Lirio.

Size : at least 50 cm, rarely exceeding 40 cm. Fishing gear : bottom and pelagic trawls.

Habitat : adults demersal or pelagic in coastal waters.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s)



(see Plate I, 8)

Caranx crysos (Mitchill, 1815)

Synonyms : *Caranx fusus* Geoffroy Saint-Hilaire, 1817.

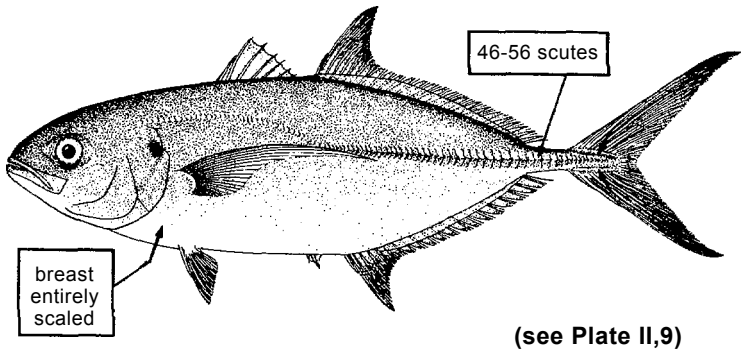
FAO names : **En** - Blue runner; **Fr** - Carangue coubali; **Sp** - Cojinua negra.

Size : at least 55 cm, common to 40 cm.

Fishing gear : bottom and pelagic trawls, ringnets, purse seines, set nets, line gear.

Habitat : usually close inshore, but also in deeper waters (over 100 m depth).

Loc.name(s) :



(see Plate II,9)

Caranx hippos (Linnaeus, 1766)

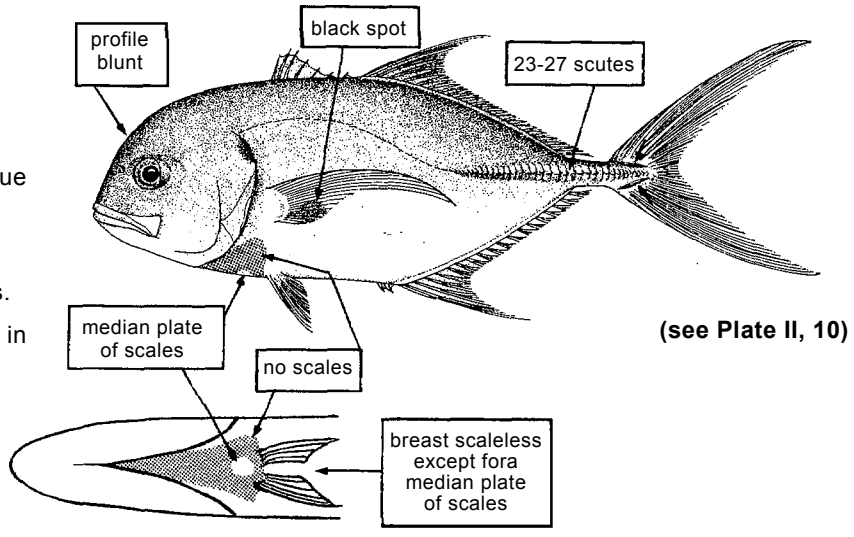
FAO names : **En** - Crévalle jack ; **Fr** - Carangue crevalle; **Sp** - Jurel común.

Size : common to 75 cm, might exceed 100 cm.

Fishing gear : trawls, purse seines, set nets, lines.

Habitat : pelagic to demersal, forming schools in coastal waters and estuaries.

Loc.name(s) :



(see Plate II, 10)

Caranx latus Agassiz in Spix & Agassiz, 1831

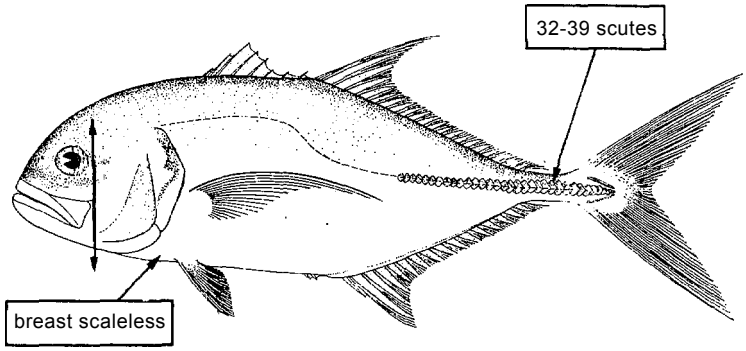
FAO names : En - Horse-eye jack; Fr - Carangue mayole; Sp - Jurel ojón.

Size : at least 80 cm.

Fishing gear: no exact information available.

Habitat : coastal waters along sandy beaches; also brackish waters and rivers.

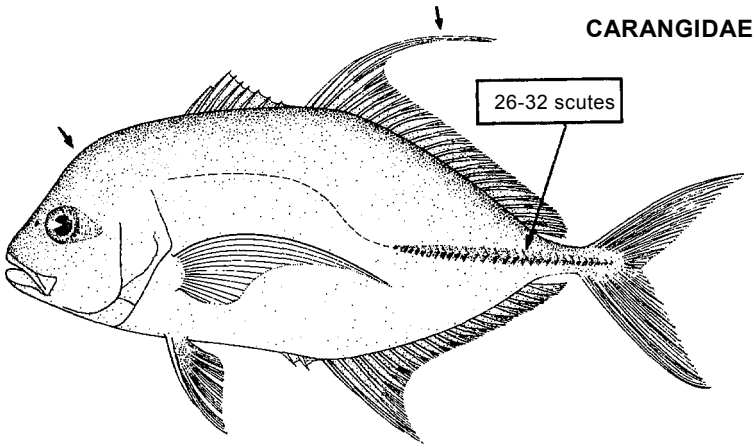
Loc.name(s) :



BONY FISHES

CARANGIDAE

Caranx lugubris Poey, 1860



Synonyms: *Caranx* ascensionis [Bloch & Schneider, 1801] (non Osbeck)

FAO names : **En** - Black jack; **Fr** - Carangue noire; **Sp** - Jurel negro.

Size : 99 cm.

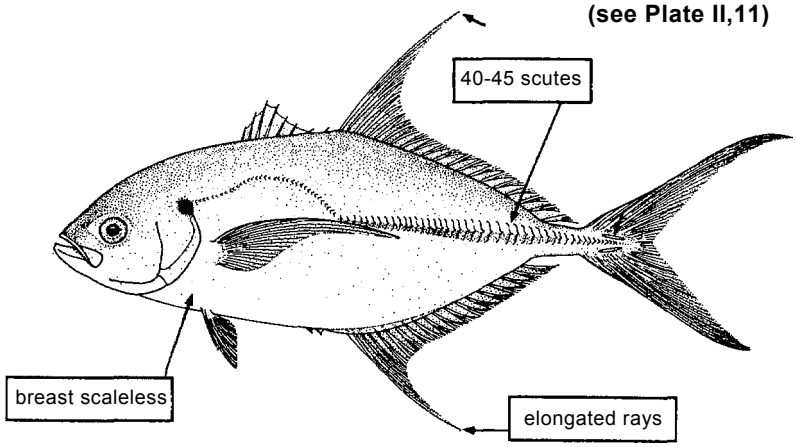
Fishing gear : trawls.

Habitat : usually trawls, purse seines, lines. In clear waters, from 25 to at least 65 m depth.

Loc.name(s) :

Caranx senegallus Cuvier, 1833

(see Plate II,11)



Synonyms: *Caranx africanus* Steindachner, 1883

FAO names : **En** - Senegal jack; **Fr** - Carangue du Sénégal; **Sp** - Jurel senegalés.

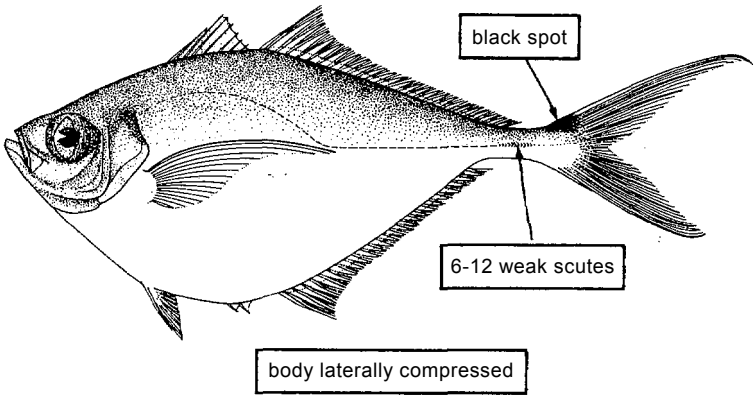
Size : at least 50 cm, common to 30 cm.

Fishing gear : trawls, purse seines, lines.

Habitat : coastal waters from the surface to at least 90 m depth.

Loc.name(s)

Chloroscombrus chrysurus (Linnaeus, 1776)



FAO names : En - Atlantic bumper; **Fr** - Sapater ; **Sp** - Casabe.

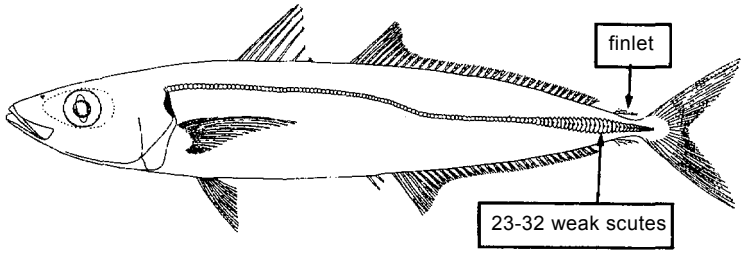
Size : common to 25 cm.

Fishing gear : bottom trawls, beach seines, set nets.

Habitat : coastal waters, forming schools; also in estuaries and mangrove-lined lagoons; the young occur at times far offshore.

Loc.name(s)

Decapterus macarellus (Cuvier, 1833)



FAO names : **En** - Mackerel scad; **Fr** - Comète maquereau; **Sp** - Macarela caballa.

Size: about 35 cm; common to 20 cm.

Fishing gear : pelagic and bottom trawls.

Habitat : offshore waters between 40 and 200 m depth, occasionally on outer reefs; schooling.

Loc.name(s) :

next page

BONY FISHES

Decapterus punctatus (Cuvier, 1829)

CARANGIDAE

Synonyms: *Decapterus sanctaehelenae* (Cuvier, 1833).

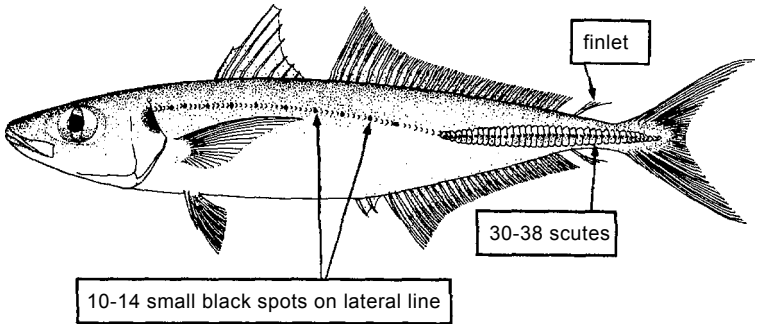
FAO names : En - Round scad; **Fr** - Comète quiaquia; **Sp** - Macarela chuparaco.

Size: at least 25 cm, common to 15 cm.

Fishing gear : bottom trawls, purse seines.

Habitat : demersal in coastal waters to about 100 m depth; also pelagic, more common in winter.

Loc.name(s) :



(see Plate II,12)

"Decapterus" rhonchus (Goeffroy Saint-Hilaire, 1817)

Synonyms: *Caranx rhonchus* Geoffroy Saint-Hilaire, 1817; *Caranx angolensis* Fowler, 1919.

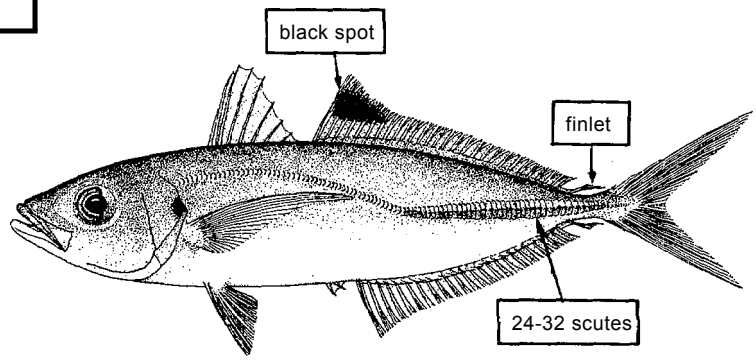
FAO names : En - False scad; **Fr** - Comète coussut; **Sp** - Macarela real.

Size : at least 45 cm, common to 30-36 cm.

Fishing gear : bottom trawls, purse seines, set nets.

Habitat : frequently near the bottom, between 30 and 60 m depth; also pelagic and near the surface at times.

Loc.name(s) :



(see Plate II,13)

Elagatis bipinnulata (Quoy & Gaimard, 1825)

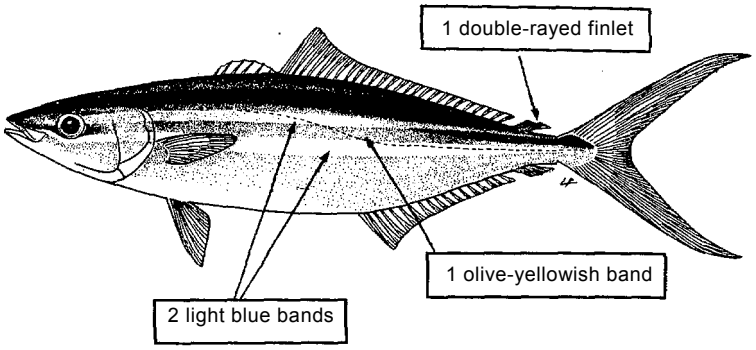
FAO names : **En** - Rainbow runner; **Fr** - Comète saumon; **Sp** - Macarela salmón.

Size : possibly to 120 cm, common to 80 cm.

Fishing gear : purse seines, trolling lines and other line gear.

Habitat : warm coastal surface waters; also estuaries.

Loc.name(s) :



Hemicaranx bicolor (Günther, 1860)

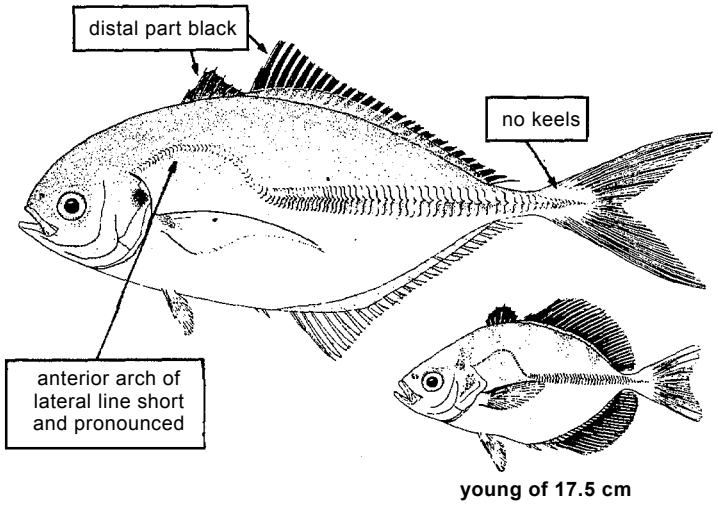
FAO names : **En** - Two-colour jack; **Fr** - Carangue bicolore; **Sp** - Casabe bicolor.

Size : 70 cm; common to 30 cm.

Fishing gear : bottom trawls, purse seines, bottom set nets, line gear.

Habitat : mainly coastal, entering brackish water; apparently in mid-water or near the bottom than at the surface; not forming large schools.

Loc name(s) :



young of 17.5 cm (standard length)

Lichia amia (Linnaeus, 1758)

Synonyms: Hypacanthus amia (Linnaeus, 1758).

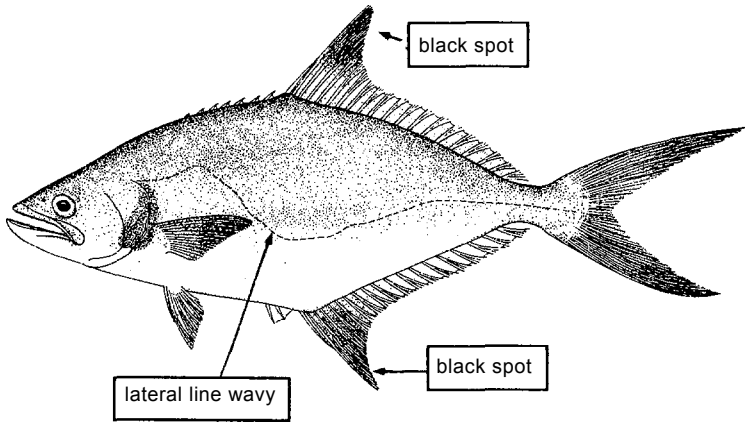
FAO names : En - Leerfish; **Fr -** Liche né-bé; **Sp** - Palometón.

Size: at least 180 cm, common to 100 cm.

Fishing gear : trawls, purse seines, beach seines, line gear.

Habitat : pelagic in coastal waters and estuaries to 60 m depth; regularly caught but not very abundant.

Loc.name(s) :



(see Plate II, 14)

***Naucrates* ductor** (Linnaeus, 1758)

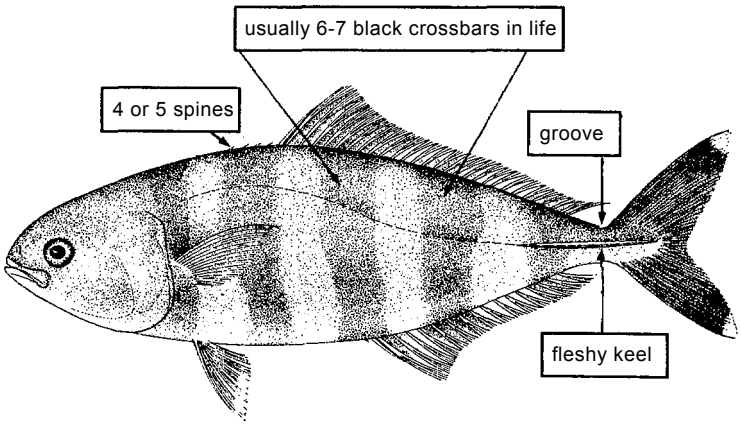
FAO names : En - Pilotfish; **Fr** - Poisson-pilote; **Sp** - Pez piloto.

Size : 70 cm, common to 45 cm.

Fishing gear : pelagic trawls.

Habitat : mainly pelagic; often associated with large sharks, rays, turtles, ships and floating logs.

Loc.name(s) :



Selar crumenophthalmus (Bloch, 1793)

Synonyms : *Trachurops crumenophthalmus* (Bloch, 1793).

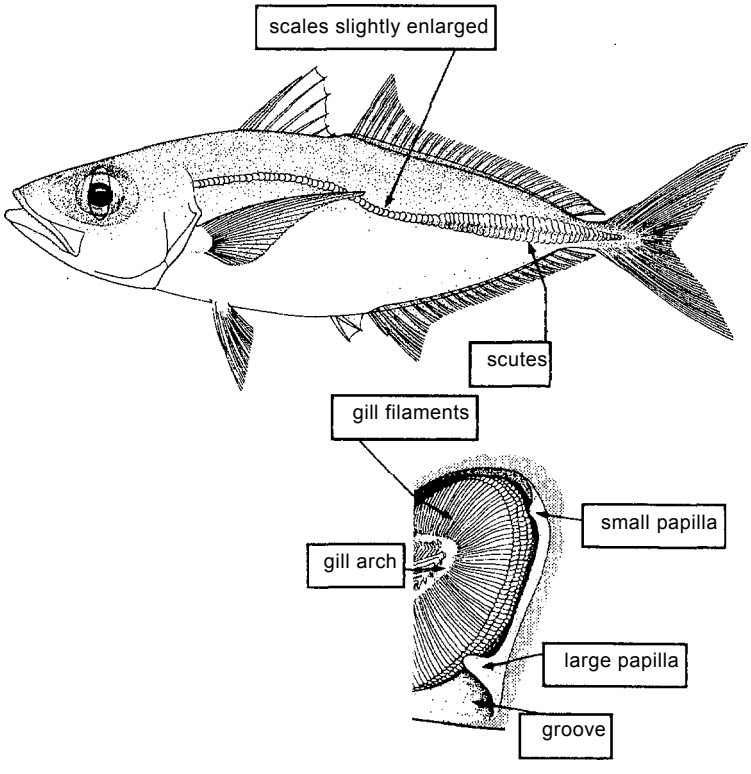
FAO names : **En** - Bigeye scad; **Fr** - Selar coulisou; **Sp** - Chicharro ojón.

Size: 60 cm, common to 25 cm.

Fishing gear : bottom trawls, purse seines, set gillnets, line gear.

Habitat : shallow coastal waters, more regularly found during the hot season.

Loc.name(s) :



Selene dorsalis (Gill, 1863)

Synonyms : *Vomer* gibbiceps Gilchrist & Thompson, 1914; often misidentified as *Vomer setapinnis* (Mitchill, 1815).

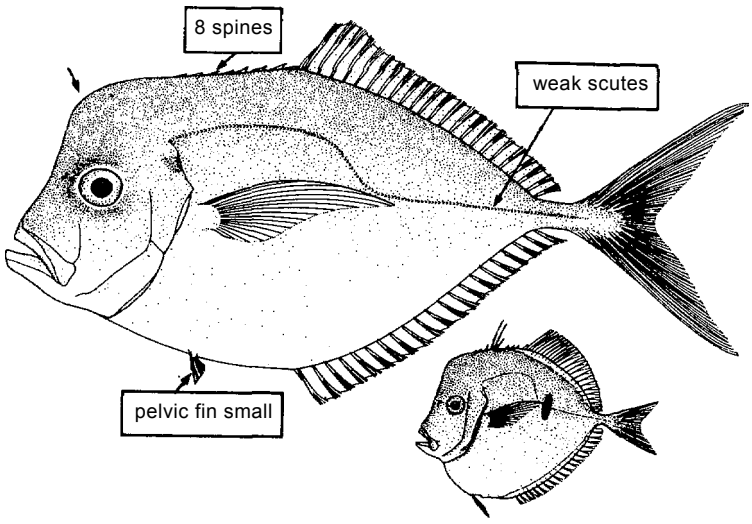
FAO names : **En** - African moonfish; **Fr** - Musso africain; **Sp** - Jorobado africano.

Size : common to 20 cm, never reaching large sizes.

Fishing gear : bottom trawls, purse seines, set nets, line gear.

Habitat : coastal waters to 60 cm depth; forms schools; regularly found in winter (May-October).

Loc.name(s) :



young of 5.5 cm (standard length)

(see Plate II, 15)

Seriola carpenteri Mather, 1971

FAO names : **En** - Guinean amberjack; **Fr** - Sériole guinéenne; **Sp** - Medregal de Guinea.

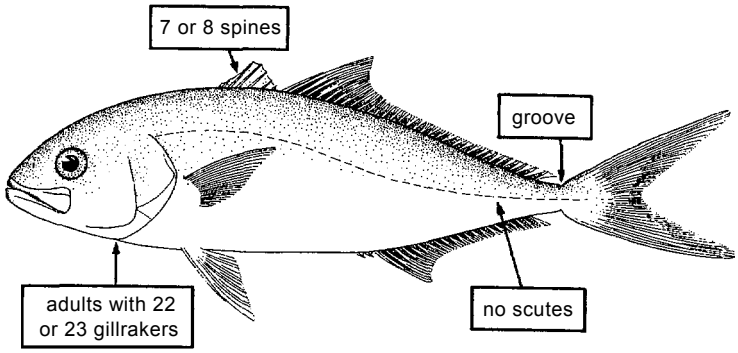
Size : at least 54 cm.

Fishing gear : pelagic and bottom trawls, purse seines, set gillnets.

Habitat : adults pelagic and demersal in coastal waters, from the surface to at least 200 m depth.

Remarks : this species is often confused with *Seriola dumerili.*

Loc.name(s) :



(see Plate II,16)

Seriola dumerili (Risso, 1810)

Synonyms : *Seriola rhombica* Smith, 1959.

FAO names : **En** - Greater amberjack; **Fr** - Sériole couronnée; **Sp** - Pez de limón.

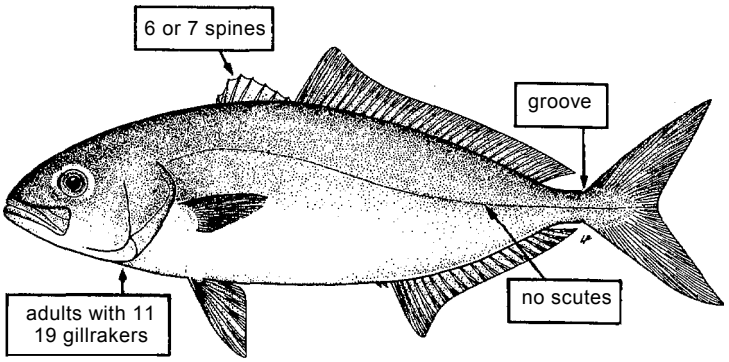
Size : to 90 cm, common to 80 cm.

Fishing gear : pelagic and bottom trawl, line gear.

Habitat : adults pelagic, not common in coastal waters.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



BONY FISHES

Trachinotus goreensis Cuvier, 1832

Synonyms : *Trachinotus myrias* Cuvier, 1832.

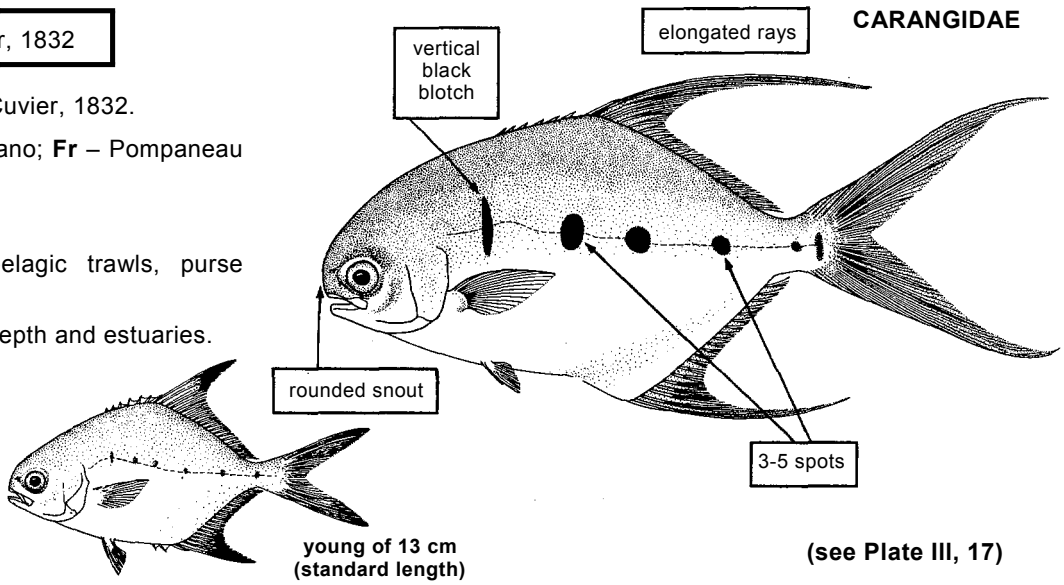
FAO names : **En** - Longfin pompano; **Fr** – Pompaneau tacheté; **Sp** - Pámpano cojonovo.

Size : 40 cm, common to 30 cm.

Fishing gear : bottom and pelagic trawls, purse seines.

Habitat : coastal waters to 60 m depth and estuaries.

Loc.name(s) :



young of 13 cm (standard length)

(see Plate III, 17)

Trachinotus maxillosus Cuvier, 1832

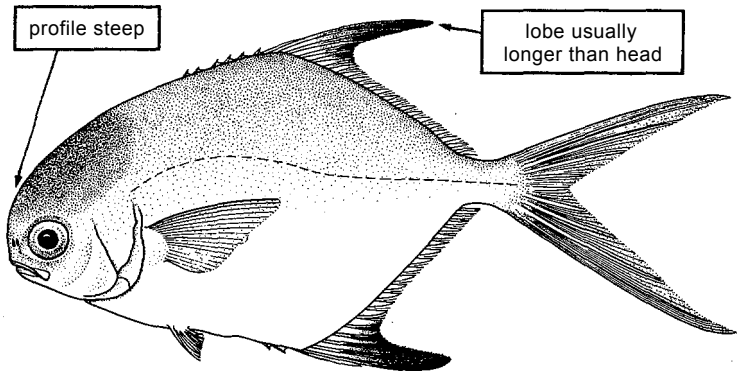
FAO names : **En** - Galloon pompano; **Fr** - Pompaneau chevron; **Sp** - Pámpano galonero.

Size : 60 cm, common to 35 cm.

Fishing gear : bottom and pelagic trawls, purse seines, beach seines.

Habitat : shallow coastal waters and estuaries.

Loc.name(s) :



Trachinotus ovatus (Linnaeus, 1758)

Synonyms : *Caesiomorus glaucus* Fowler, 1936.

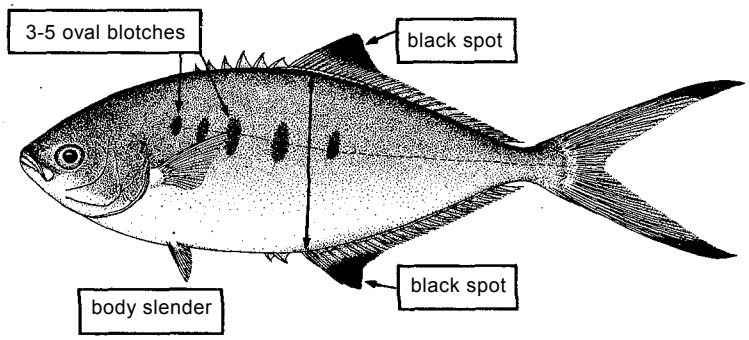
FAO names : **En** - Pompano; **Fr** - Palomine; **Sp** - Pámpano blanco.

Size : about 40 cm, common to 30 cm.

Fishing gear : bottom and pelagic trawls, purse seines, beach seines, line gear.

Habitat : clear coastal waters, forming schools.

Loc.name(s) :



(see Plate III,18)

Trachinotus teraia Cuvier, 1832

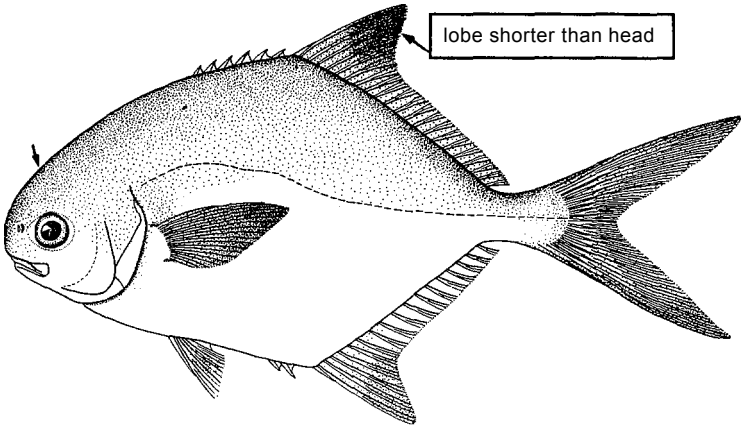
FAO names : **En** - Terai pompano; **Fr** - Pompaneau né-bé; **Sp** - Pámpano terayo.

Size : 68 cm.

Fishing gear : bottom and pelagic trawls, purse seines.

Habitat : coastal waters; often present in estuaries and occasionally even in rivers.

Loc.name(s) :



(see Plate III,19)

Trachurus trachurus (Linnaeus, 1758)

Synonyms : *Trachurus capensis* Castelnau, 1861.

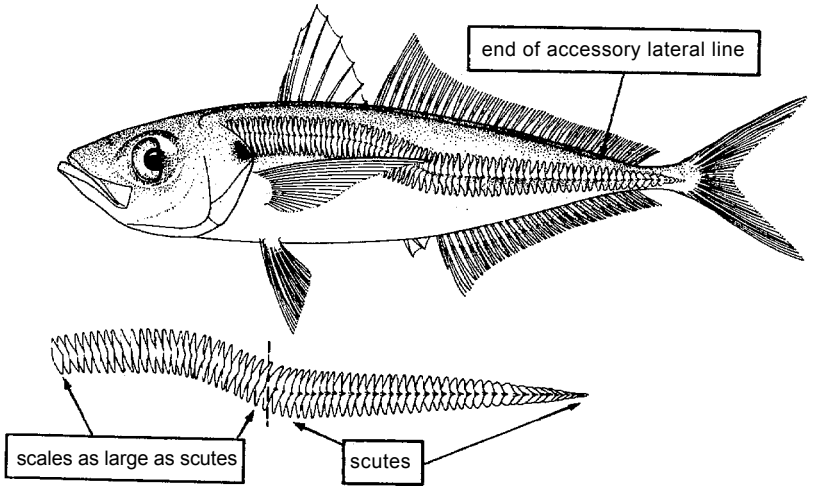
FAO names : **En** - Atlantic horse mackerel; **Fr** - Chinchard d'Europe; **Sp** - Jurel.

Size : about 40 cm (fork length), common to 25 cm.

Fishing gear : pelagic and bottom trawls, purse seines.

Habitat : sandy bottoms from 100 to 200 m depth; sometimes pelagic; forms schools.

Loc.name(s) :



lateral line

Trachurus trecae Cadenat, 1949

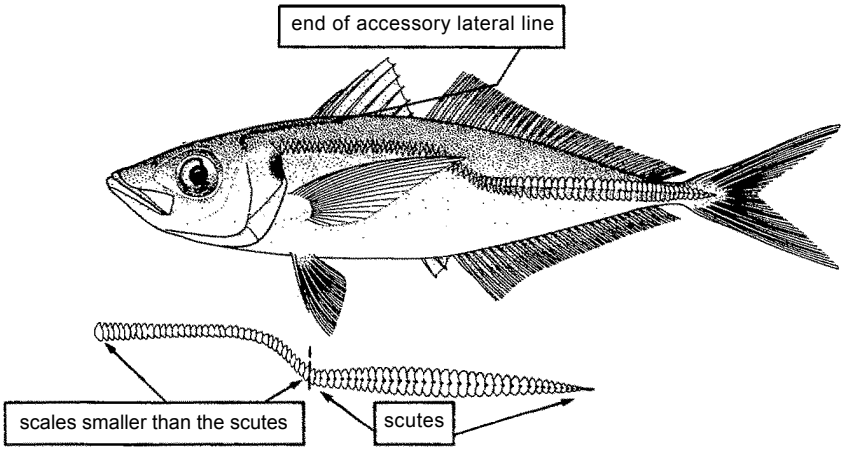
FAO names : **En** - Cunene horse mackerel; **Fr** - Chinchard cunène; **Sp** - Jurel cunene.

Size : at least 35 cm.

Fishing gear : pelagic and bottom trawls, purse seines.

Habitat : coastal waters from 20 to 100 m depth; sometimes pelagic, forms schools.

Loc.name(s) :



lateral line

(see Plate III, 20)

Uraspis helvola (Forster, 1801)

Synonyms : formerly identified as *Uraspis secunda* (Poey, 1860); *Uraspis cadenati* Blache & Rossignol, 1961.

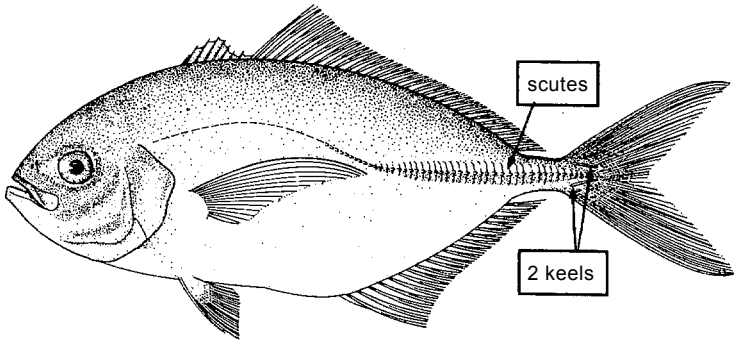
FAO names : En - Cotton mouth jack; Fr – Carangue-coton; Sp - Jurel volantín.

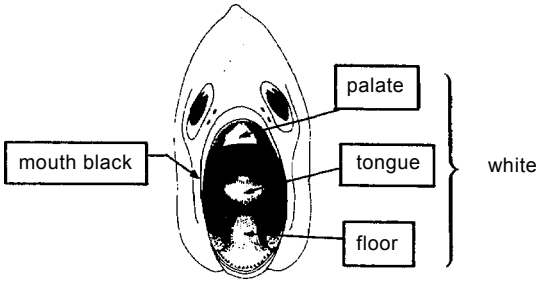
Size : 50 cm, common to 35 cm.

Fishing gear : bottom trawls.

Habitat : an oceanic species, pelagic in surface waters as well as demersal; solitary or forming small schools.

Loc.name(s) :





front view of head

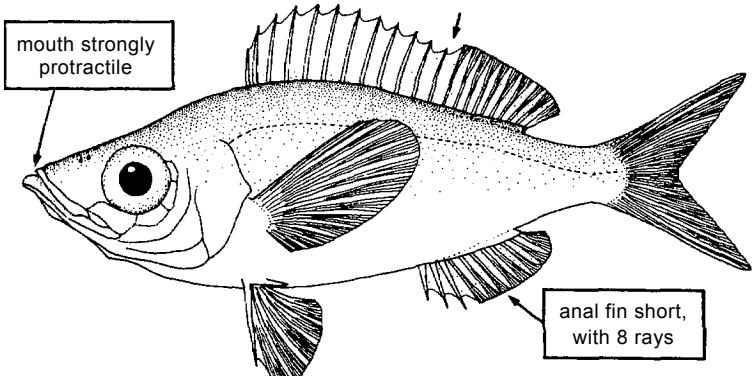
(see Plate III, 21)

next page

BONY FISHES

Spicara alta (Osorio, 1917)

CENTRACANTHIDAE



Synonyms: *Smaris macrophthalmus* Cadenat, 1937.

FAO names : **En** - Bigeye picarel; **Fr** - Picarel à gros yeux; **Sp** - Chucla ojona.

Size : 30 cm, common to 20 cm.

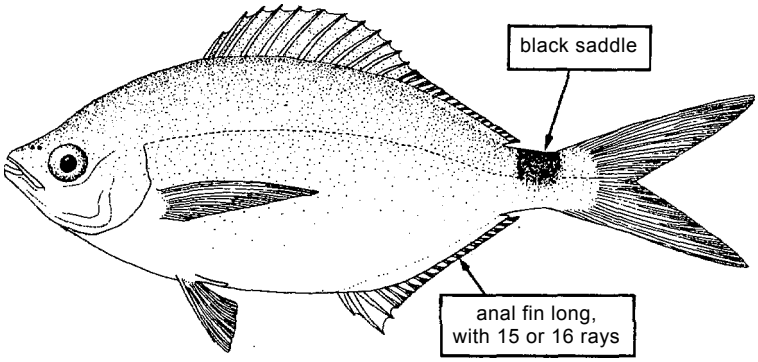
Fishing gear : bottom trawls.

Habitat : trawlable grounds from 100 to 300 m depth, mainly taken by industrial fisheries, but presently discarded.

Loc.name(s) :

(see Plate III, 22 & 23)

Spicara nigricauda (Norman, 1931)



Synonyms : *Coleosmaris nigricauda* Norman, 1931; often misidentified as Spicara melanurus (Valenciennes, 1830).

FAO names : **En** - Blacktail picarel; **Fr** - Picarel queue noire; **Sp** - Chucla rabo negro.

Size : 20 cm.

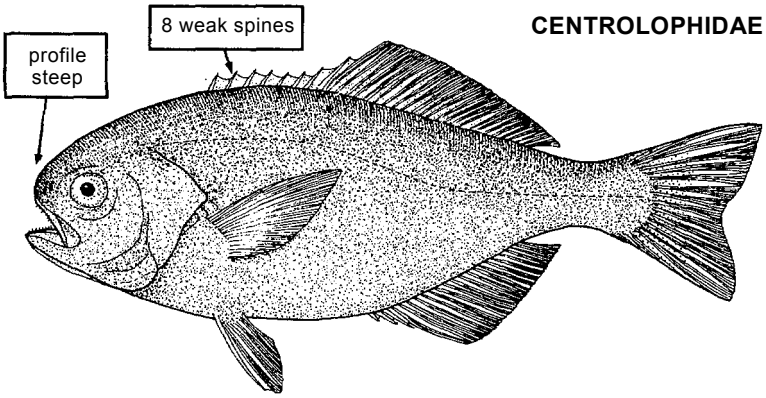
Fishing gear : bottom trawls.

Habitat : continental shelf from 50 to 100 m depth.

Loc.name(s) :

Hyperoglyphe moselii (Cunningham, 1910)

CENTROLOPHIDAE



Synonyms : *Palinurichthys pringlei* Smith, 1949; *Palinurichthys matthewsi* Smith, 1960.

FAO names : **En** - African barrelfish; **Fr** – Rouffe africain; **Sp** - Rufo africano.

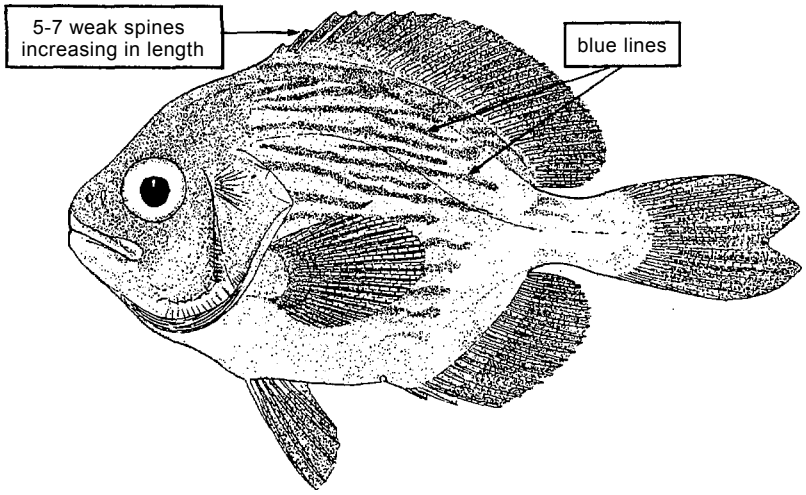
Size : 80 cm, common to 50 cm.

Fishing gear : bottom trawls (bycatch).

Habitat : waters of the continental slope.

Loc.name(s) :

Schedophilus pemarco (Poll, 1959)



Synonyms : *Palinurichthys* pemarco Poll, 1959.

FAO names : **En** - Pemarco blackfish; **Fr** - Rouffe rayé; **Sp** - Rufo pemarco.

Size : 50 cm, common to 30 cm.

Fishing gear : bottom trawls, set nets.

Habitat : shelf and slope waters from 100 to 500 m depth.

Loc.name(s) :

CHLOROPHTHALMIDAE

Chlorophthalmus atlanticus Poll, 1953

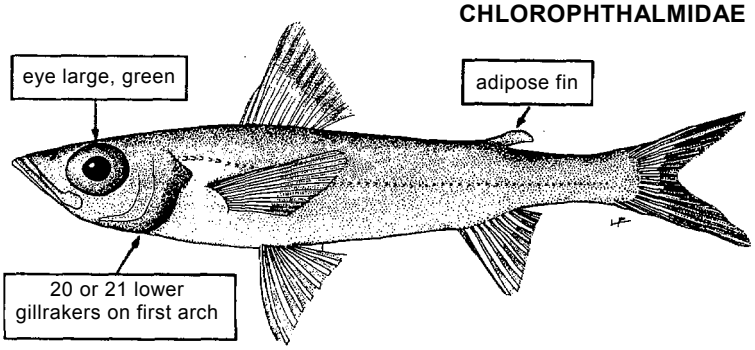
FAO names : **En** - Atlantic greeneye; **Fr** - Eperlan du large de l'Atlantique; **Sp** - Ojiverde del Atlántico.

Size : to about 25 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : demersal, on the continental shelf.

Loc.name(s) :



CITHARIDAE

Citharus linguatula (Linnaeus, 1758)

Synonyms: *Citharus macrolepidotus* (Bloch, 1787).

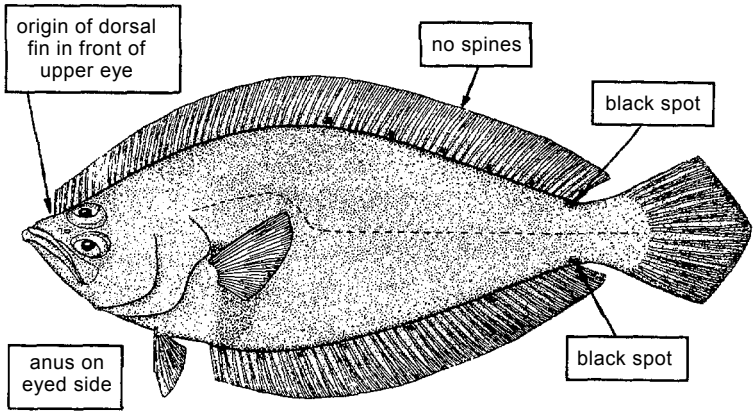
FAO names : En - Spotted flounder; **Fr** - Feuille; **Sp** - Solleta.

Size : 25 cm.

Fishing gear : bottom trawls, occasionally in beach seines.

Habitat : soft bottoms from the coastline to about 300 m depth.

Loc.name(s) :



CLUPEIDAE

Ethmalosa fimbriata (Bowdich, 1825)

Synonyms: *Ethmalosa dorsalis* (Valenciennes, 1847).

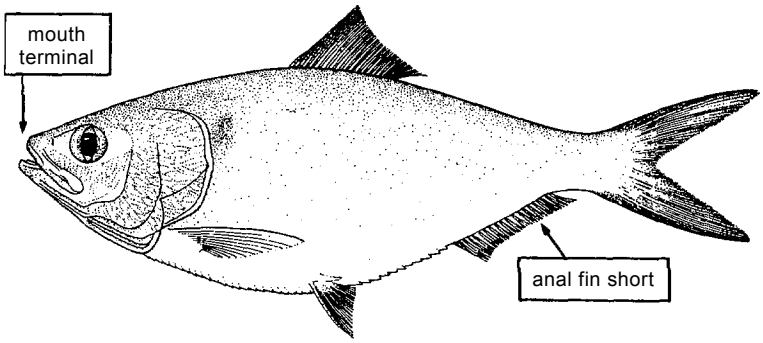
FAO names : **En** - Bonga shad; **Fr** - Ethmalose d'Afrique; **Sp** - Sábalo africano.

Size: 40 cm, common to 30 cm.

Fishing gear : purse seines, beach seines, gillnets.

Habitat : coastal marine waters, estuaries, lagoons and even rivers.

Loc.name(s) :



(see Plate III, 24)

Ilisha africana (Bloch, 1795)

Synonyms : *Clupea africana* Bloch, 1795.

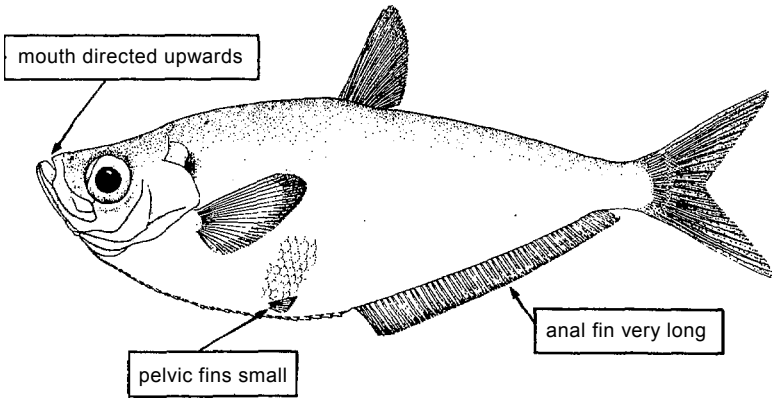
FAO names : **En** - West African ilisha ; **Fr** - Alose rasoir; **Sp** - Sardineta africana.

Size : 21 cm, common to 12 cm.

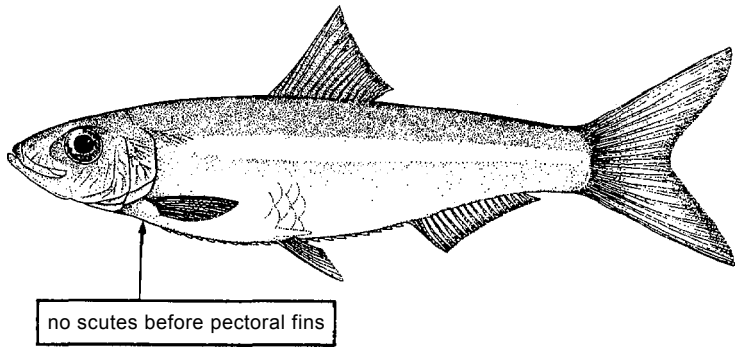
Fishing gear : trawls, purse seines, beach seines.

Habitat : coastal marine waters and estuaries; may be demersal.

Loc.name(s) :



Pellonula leonensis Boulenger, 1916



Synonyms : *Microthrissa miri* Daget, 1954.

FAO names : **En** - Guinean sprat; **Fr** - Spratelle de Guinée; **Sp** - Sardinita de Guinea.

Size : 9 cm.

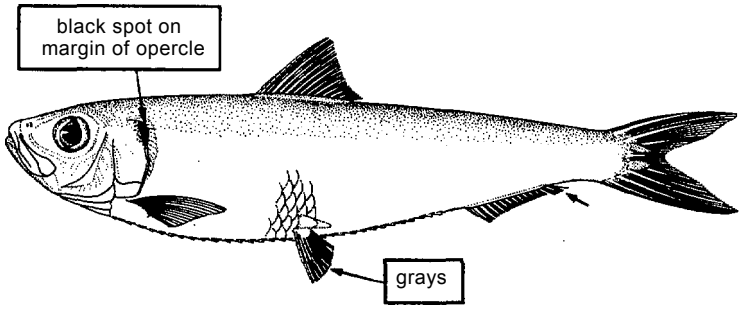
Fishing gear : purse seines (poli nets), beach seines.

Habitat : mainly in freshwaters, but also in estuaries and lagoons of moderate salinity; reproduction occurs in rivers and lakes, and may be also in estuaries and coastal lagoons.

Remarks : another species, *Pellonula vorax* Günther, 1868, is often found with young *Sardinella maderensis* in estuaries and lagoons. *P. vorax* has scutes before pectoral fins.

Loc.name(s) :

Sardinella aurita Valenciennes, 1847



Synonyms : *Alosa senegalensis* Bennett, 1831.

FAO names : **En** - Round sardinella; **Fr** - Allache; **Sp** - Alacha.

Size : 35 cm, common to 18 cm.

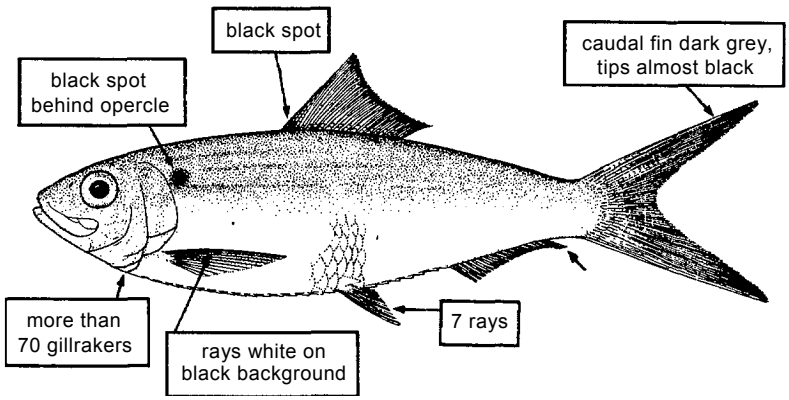
Fishing gear : purse seines (poli nets), gillnets, beach seines, midwater trawls.

Habitat : upwelling areas (cold and saline waters).

Loc.name(s) :

(see Plate IV, 25)

Sardinella maderensis (Lowe, 1839)



Synonyms : *Pellonula* modesta Fischer, 1885; *Sardinella granigera* Valenciennes, 1847; *Sardinella* eba Valenciennes, 1847; *Sardinella* cameronensis Regan, 1917.

FAO names : **En** - Madeiran sardinella; **Fr** - Grande allache; **Sp** - Machuelo.

Size : 30 cm, common to 25 cm.

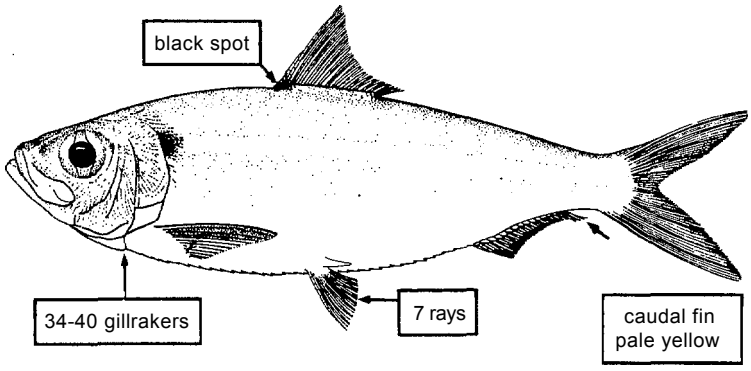
Fishing gear : ringnets, purse seines (poli nets), beach seines, cast nets, midwater trawls.

Habitat : warm coastal waters, from the surface to 50 m depth, sometimes in estuaries and lagoons.

Loc.name(s) :

(see Plate IV, 26)

Sardinella rouxi (Poll, 1953)



Synonyms : *Harengula rouxi* Poll, 1953.

FAO names : **En** - Yellowtail sardinella; **Fr** - Sardinelle à queue jaune; **Sp** - Alacha rabo amarillo.

Size : 16 cm, common to 13 cm.

Fishing gear : beach seines, purse seines, gillnets.

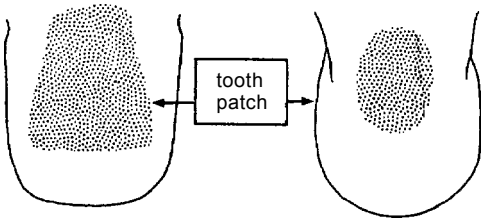
Habitat : littoral and coastal waters, often caught together with young *S. maderensis*.

Loc.name(s) :

BONY FISHES

CORYPHAENIDAE

Coryphaena equiselis Linnaeus, 1758



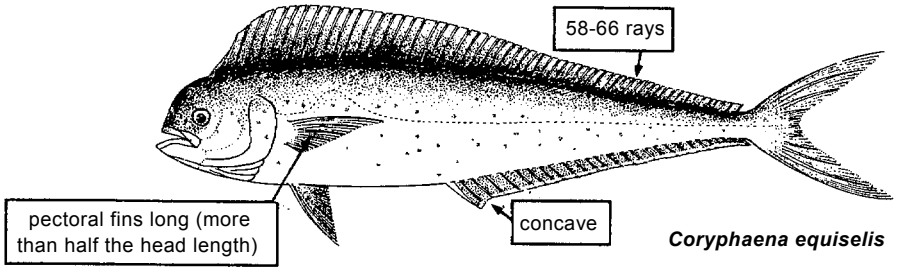
Synonyms : *Coryphaena* equisetis Linnaeus, 1758.

FAO names : **En** - Pompano dolphinfish; **Fr** - Coryphène dauphin; **Sp** - Dorado.

Size : 75 cm, common to 50 cm.

Fishing gear : floating longlines, purse seines, trolling.

Habitat : a pelagic species, occasionally found in coastal waters.

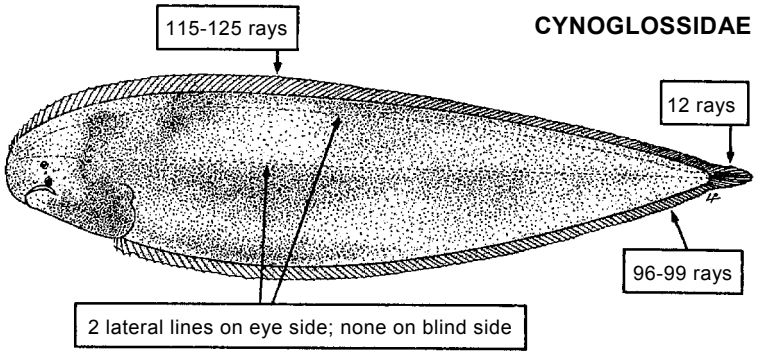


Remarks : another species, C. *hippurus* Linnaeus, 1758, has an oval patch of teeth on the tongue, and 52 to 59 dorsal fin rays.

Loc.name(s) :

CYNOGLOSSIDAE

Cynoglossus browni Chabanaud, 1949



FAO names : **En** - Nigerian tonguesole; **Fr** - Langue nigérienne ; **Sp** - Lengua nigeriana.

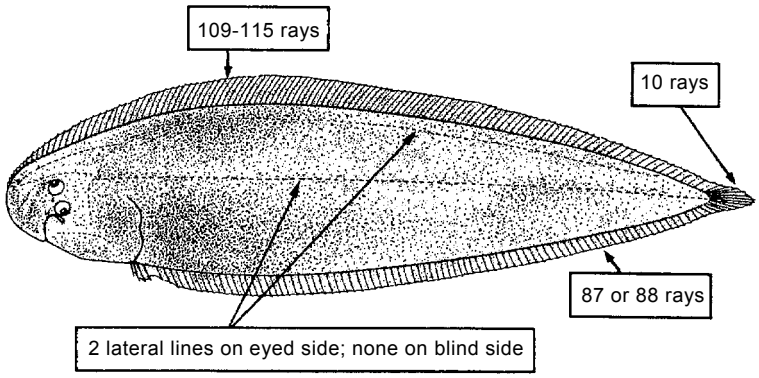
Size: 60 cm, common to 30 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : coastal waters on muddy and sandy bottoms to about 30 m depth.

Loc.name(s) :

Cynoglossus cadenati Chabanaud, 1947



FAO names : **En** - Ghanian tonguesole; **Fr** - Sole-langue du Ghana; **Sp** - Lengua de Ghana.

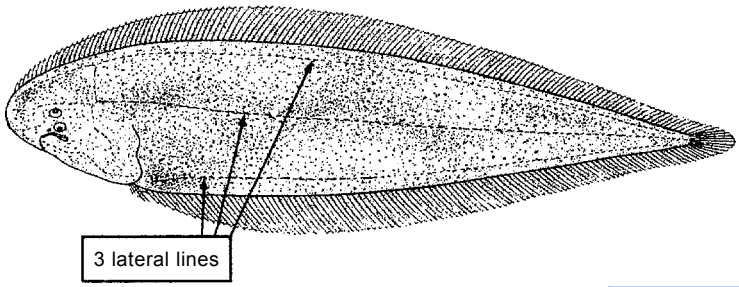
Size: 20 cm, common to 15 cm.

Fishing gear : bottom trawls, beach seines, bottom set nets.

Habitat : sandy and muddy bottoms from 10 to 30 m depth.

Loc.name(s) :

Cynoglossus canariensis Steindachner, 1882



Synonyms : *Cynoglossus lagoensis* Regan, 1915.

FAO names : **En** - Canary tonguesole, **Fr** – Sole-langue canarienne; **Sp** - Lengua de Canarias.

Size : 60 cm, common to 40 cm.

Fishing gear : bottom trawls, bottom set nets.

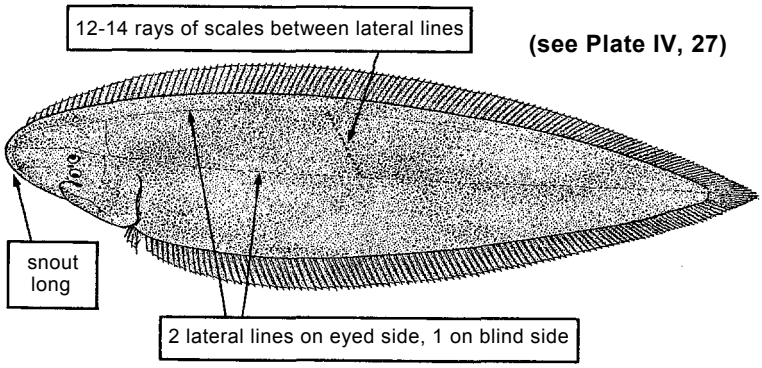
Habitat : on sandy and muddy bottoms from 15 to 300 m depth.

Loc.name(s) :

next page

Cynoglossus monodi Chabanaud, 1949

(see Plate IV, 27)



FAO names : **En** - Guinean tonguesole; **Fr** - Sole-langue de Guinée; **Sp** - Lengua de Guinea.

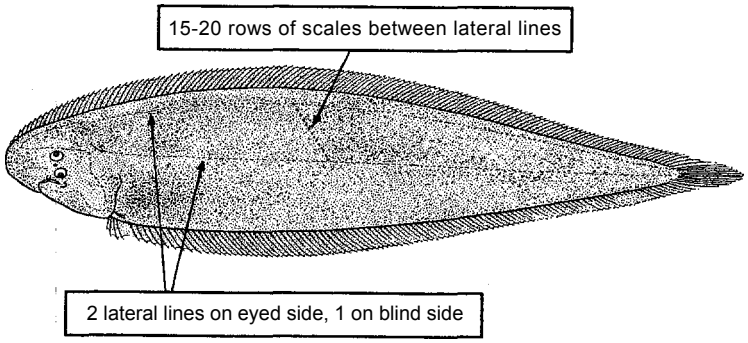
Size : at least 40 cm, common to 30 cm.

Fishing gear : bottom trawls, beach seines, bottom set nets.

Habitat : sandy and muddy bottoms from 10 to 25 m depth.

Loc.name(s) :

Cynoglossus senegalensis (Kaup, 1858)



Synonyms : *Cynoglossus* goreensis Steindachner, 1882.

FAO names : **En** - Senegalese tonguesole; **Fr** - Sole-langue sénégalaise; **Sp** - Lengua del Senegal

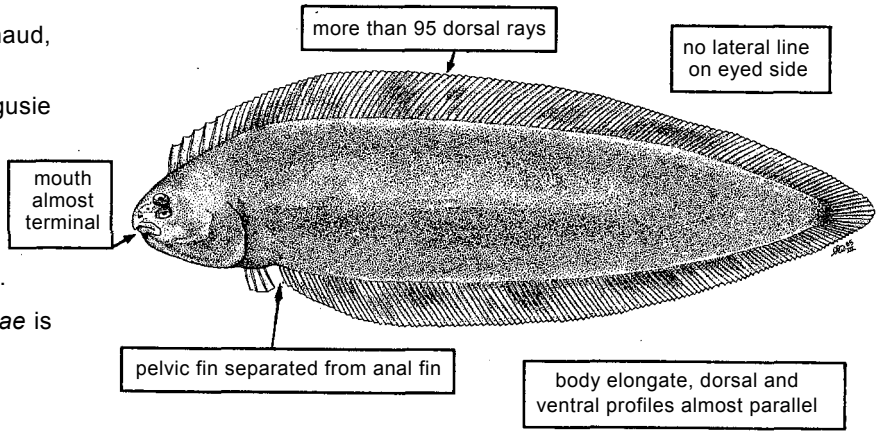
Size: about 40 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, bottom set nets.

Habitat : sandy and muddy bottoms from 10 to 110 m depth.

Loc.name(s) :

Symphurus ligulatus (Cocco, 1844)



Synonyms : ? *Symphurus vanmellae* Chabanaud, 1952.

FAO names : **En** - Elongate tonguesole; **Fr** - Plagusie longue; **Sp** - Pelada tirrena.

Size : to 10 cm.

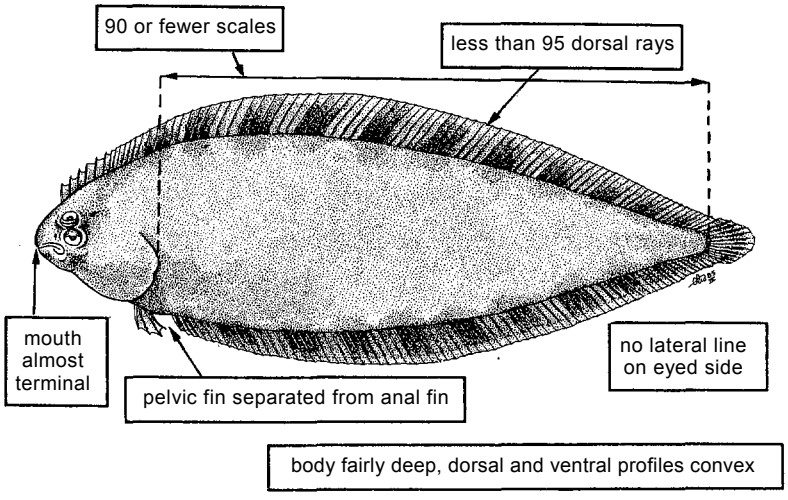
Fishing gear : bottom trawls.

Habitat : on mud bottoms of the continental slope.

Remarks : according to some authors S. *vanmellae* is the metomorphosed stage of S. *ligulatus.*

Loc.name(s) :

Symphurus nigrescens Rafinesque, 1810



FAO names : **En** - Spotted tonguesole; **Fr** - Plagusie sombre; **Sp** - Pelada.

Size : to 12 cm.

Fishing gear : bottom trawl, dredges.

Habitat : on mud or sand bottoms of the continental slope and shelf, from 20 to 1140 m depth.

Loc.name(s) :

BONY FISHES

CYNOGLOSSIDAE

Symphurus normani Chabanaud, 1950

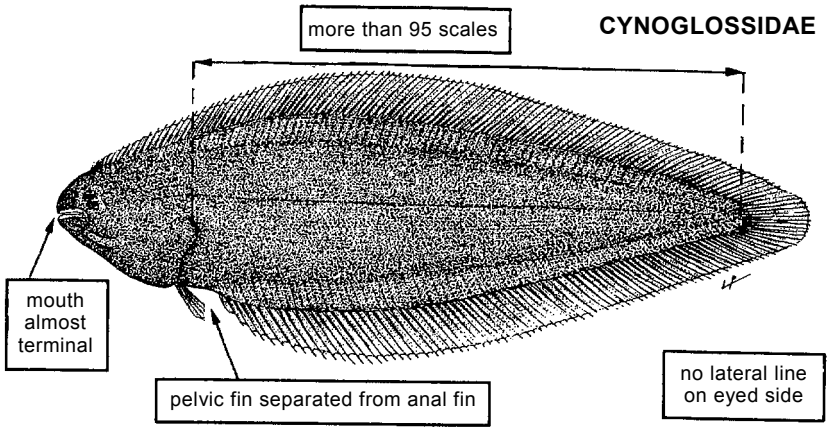
FAO names : **En** - Norman's tonguesole; **Fr** - Plagusie de Norman; **Sp** - Pelada de Norman.

Size : 70 cm.

Fishing gear : bottom trawls.

Habitat : on mud and sand bottoms from 50 to 80 m depth.

Loc.name(s)



DACTYLOPTERIDAE

Dactylopterus volitans (Linnaeus, 1758)

Synonyms: Cephalacanthus volitans (Linnaeus, 1758).

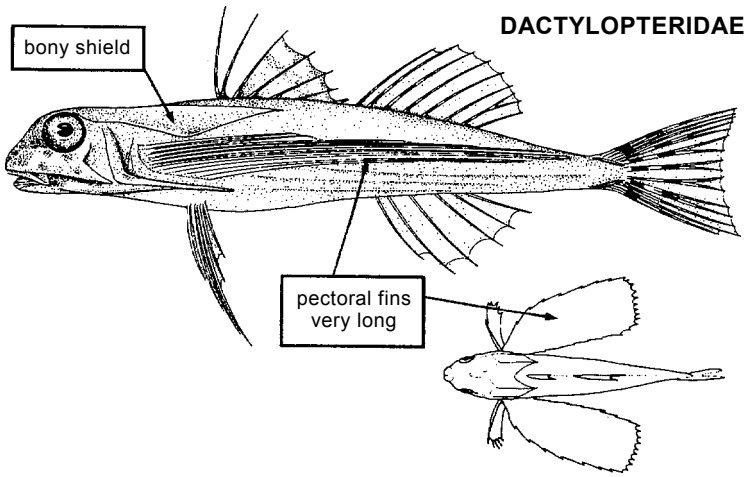
FAO names : **En** - Flying gurnard; **Fr** - Poule de mer; **Sp** - Alón.

Size : at least 45 cm, common to 30 cm.

Fishing gear : bottom trawls, bottom set nets, lines.

Habitat : demersal on shallow sandy and muddy bottoms.

Loc.name(s) :



DIRETMIDAE

Diretmoides parini Post & Quéro, 1981

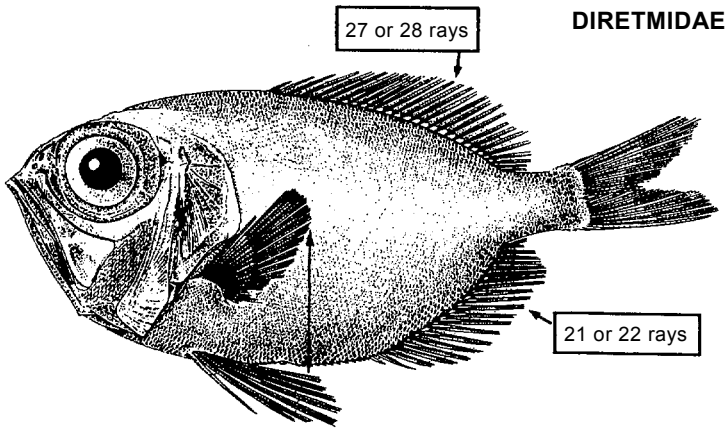
FAO names : **En** - Parin's spinyfin; **Fr** - Dirette de Parin; **Sp** - Malcarado de Parin.

Size : 40 cm.

Fishing gear : trawls (bycatch).

Habitat : mesopelagic; young near the surface, aged adults often descend below 1000 m depth.

Loc.name(s) :



Diretmoides pauciradiatus (Woods, 1973)

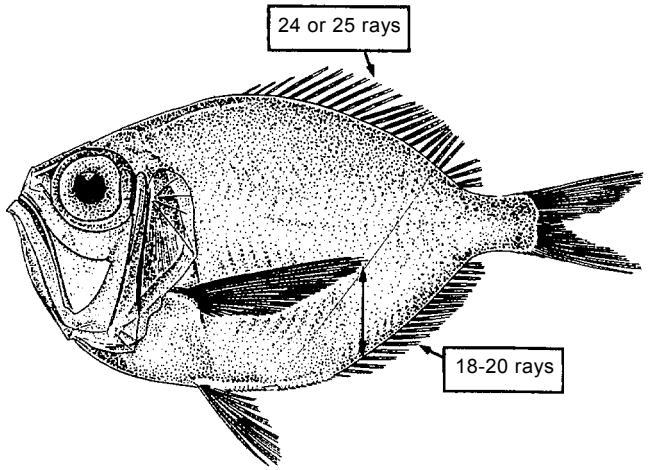
FAO names : En - Longwing spinyfin; **Fr** - Dirette aile longue; **Sp** - Malcarado alón.

Size : 14 cm.

Fishing gear : trawls (bycatch).

Habitat : mesopelagic; young near the surface, aged adults often descend below 1000 m depth.

Loc.name(s) :



BONY FISHES

DIRETMIDAE

Diretmus argenteus Johnson, 1863

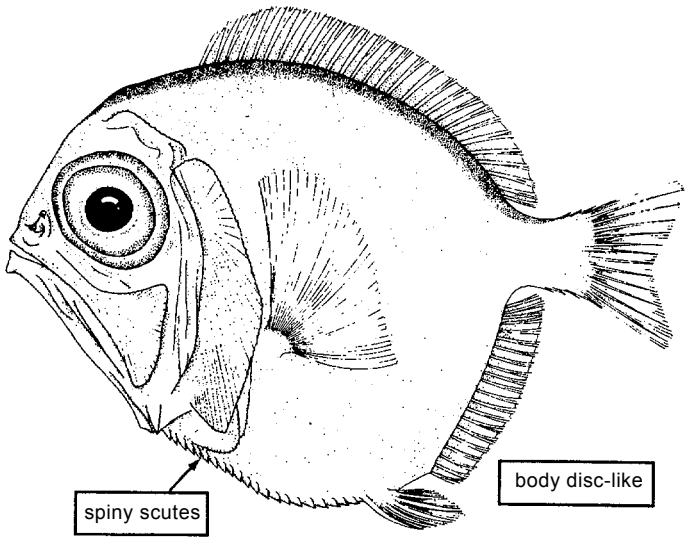
FAO names : En - Silver spinyfin ; Fr - Dirette argentée; Sp - Malcarado plateado.

Size : 15 cm.

Fishing gear : trawls (bycatch).

Habitat : mesopelagic; juveniles from near surface to about 250 m depth; adults mainly in a depth range from 500 to 700 m.

Loc.name(s) :



DREPANIDAE

Drepane africana Osorio, 1892

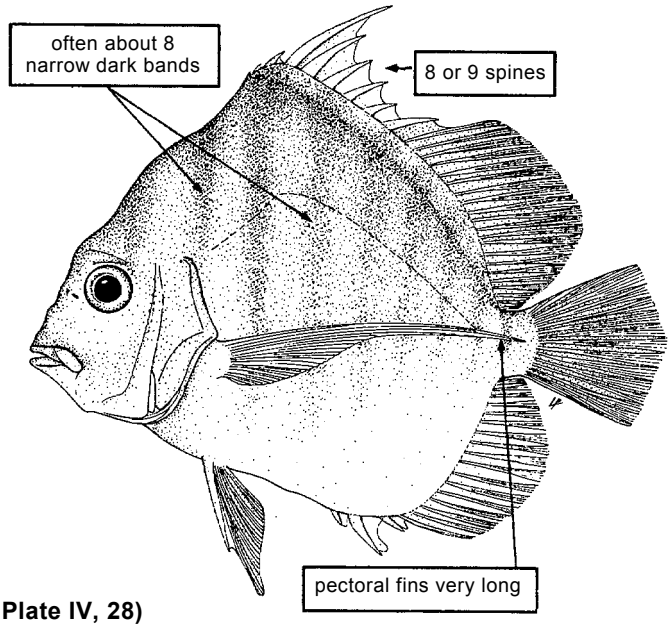
FAO names : **En** - African sicklefish; **Fr** - Forgeron ailé; **Sp** - Catemo africano.

Size : 40 cm, common to 35 cm.

Fishing gear : bottom trawls,. beach seines, purse seines.

Habitat : sandy and muddy bottoms from 20 to 50 m depths.

Loc.name(s) :



(see Plate IV, 28)

ELOPIDAE

Elops lacerta Valenciennes, 1846

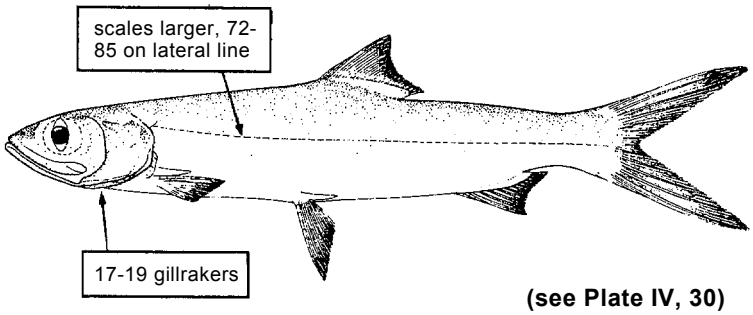
FAO names : **En** - West African ladyfish; **Fr** - Guinée copace; **Sp** - Malacho copace.

Size : 90 cm, common to 60 cm.

Fishing gear : purse seines, beach seines, encircling gillnets.

Habitat : shallow coastal waters in summer, estuaries throughout the year.

Loc.name(s) :



(see Plate IV, 30)

BONY FISHES

ELOPIDAE

Elops senegalensis Regan, 1909

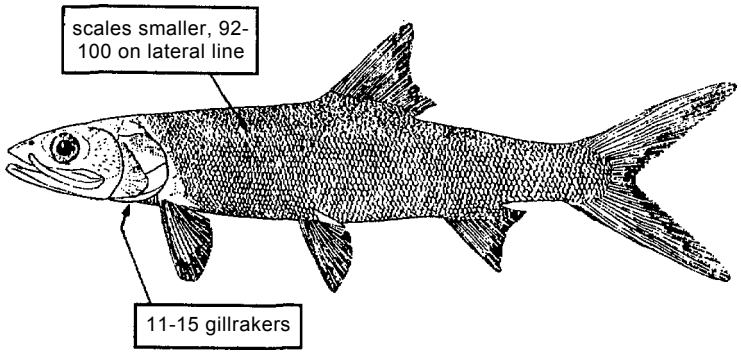
FAO names : **En** - Senegalese ladyfish; **Fr** - Guinée du Senegal; **Sp** - Malacho senegalés.

Size : 90 cm, common to 60 cm.

Fishing gear : beach seines, purse seines and bottom trawls

Habitat : shallow coastal waters in summer, estuaries and lagoons throughout the year.

Loc.name(s) :



EMMELICHTHYIDAE

Erythrocles monodi Poll & Cadenat, 1954

FAO names : **En** - Atlantic rubyfish; **Fr** - Poisson rubis; **Sp** - Pez rubí.

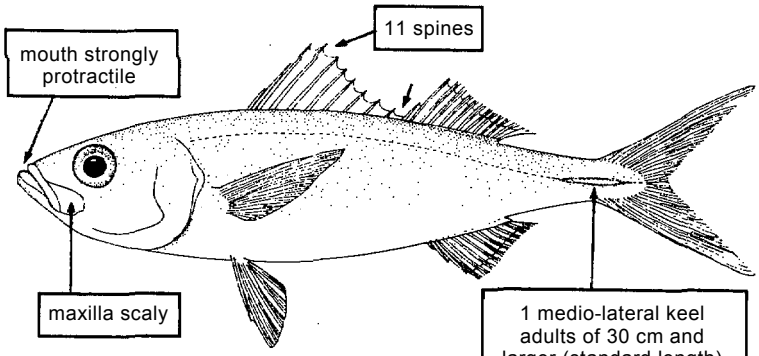
Size : 55 cm, common to 35 cm.

Fishing gear : bottom trawls.

Habitat : continental shelf from 100-300 m depth.

Loc.name(s) :

(see Plate IV, 31)



ENGRAULIDIDAE

Engraulis encrasicolus (Linnaeus, 1758)

Synonyms : *Anchoa guineensis* Rossignol & Blache, 1961; *Engraulis guineensis* (Rossignol & Blache, 1961).

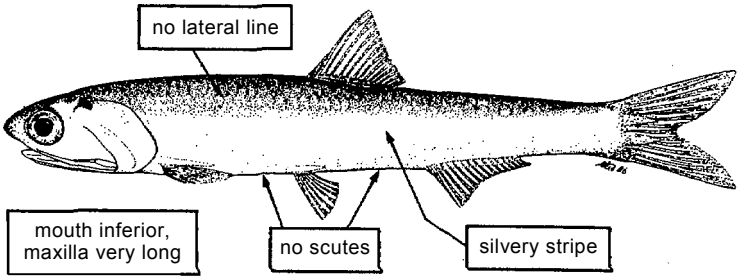
FAO names : **En** - European anchovy; **Fr** - Anchois commun; **Sp** - Anchoa europea.

Size : 15 cm, common to 8 cm.

Fishing gear : purse seines (poli nets), beach seines.

Habitat : coastal pelagic, but may descend to 400 m depth (cold waters).

Loc.name(s) :



EPHIPPIDIDAE

Chaetodipterus goreensis (Cuvier, 1831)

Synonyms: *Ephippus goreensis* Cuvier, 1831.

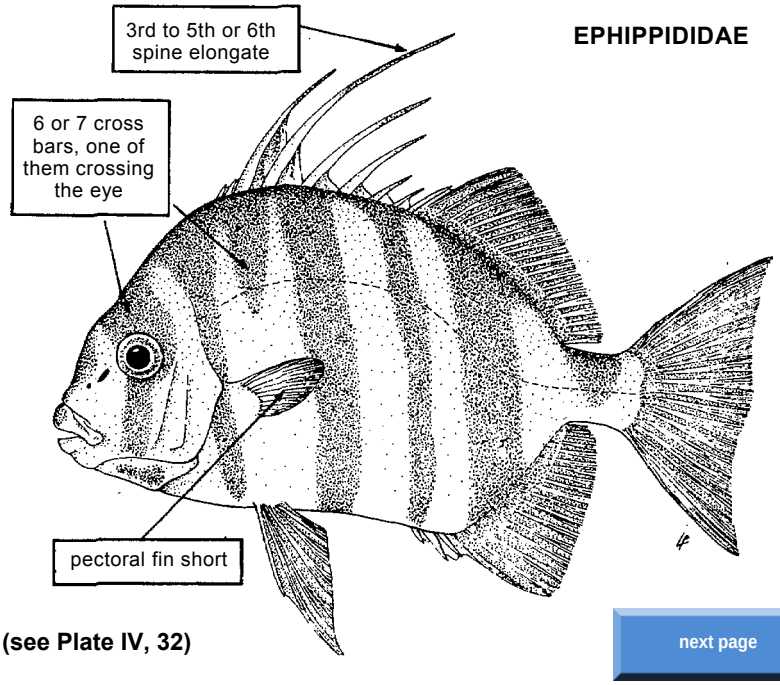
FAO names : **En** - African spadefish; **Fr** - Chèvre de mer; **Sp** - Paguala africana.

Size : 30 cm, common to 25 cm.

Fishing gear : set nets, seines, trawls.

Habitat : sandy and muddy bottoms of estuaries.

Loc.name(s) :



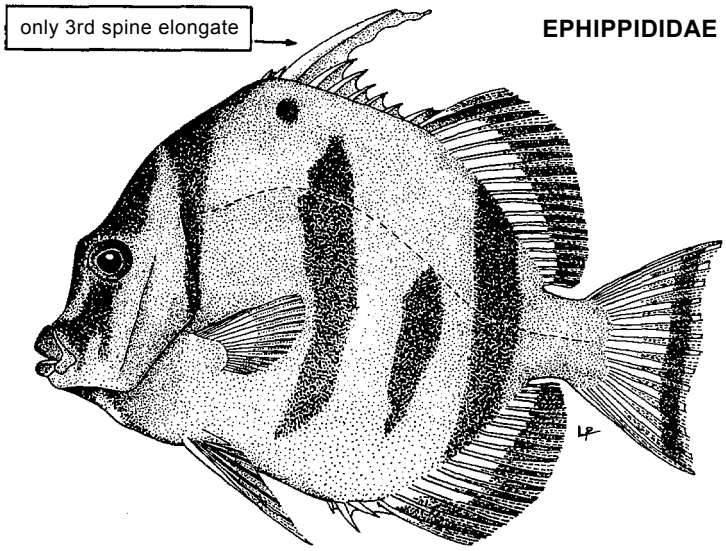
(see Plate IV, 32)

next page

BONY FISHES

EPHIPPIDIDAE

Chaetodipterus lippei Steindachner, 1895



Synonyms : often confused with *Chaetodipterus goreensis* (Cuvier, 1831).

FAO names : **En** - West African spadefish; **Fr** - Chèvre de mer noire; **Sp** - Paguala negra.

Size : 30 cm, common to 20 cm.

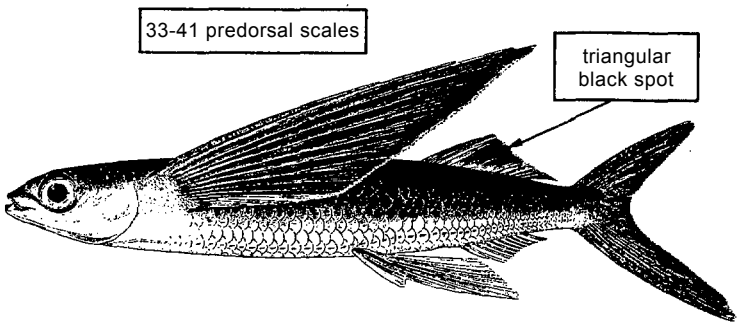
Fishing gear : bottom trawls, beach seines.

Habitat : on sandy or muddy bottoms in coastal waters from 10 to 45 m depth.

Loc.name(s) :

EXOCOETIDAE

Cypselurus cyanopterus (Valenciennes, 1846)



Synonyms : *Cheilopogon cyanopterus* (Valenciennes, 1846).

FAO names : En - Marginated flyfish; **Fr** - Exocet codène; **Sp** - Volador bordiblanco.

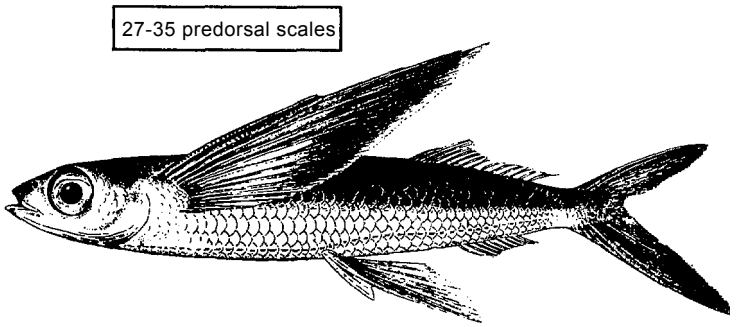
Size : 35 cm standard length.

Fishing gear : purse seines, drift nets, pelagic trawls.

Habitat : pelagic in coastal waters.

Loc.name(s) :

Cypselurus melanurus (Valenciennes, 1846)



Synonyms: *Cypselurus lutkeni* (Jordan & Meek, 1896).

FAO names : **En** - Atlantic flyingfish; **Fr** - Exocet atlantique; **Sp** - Volador atlántico.

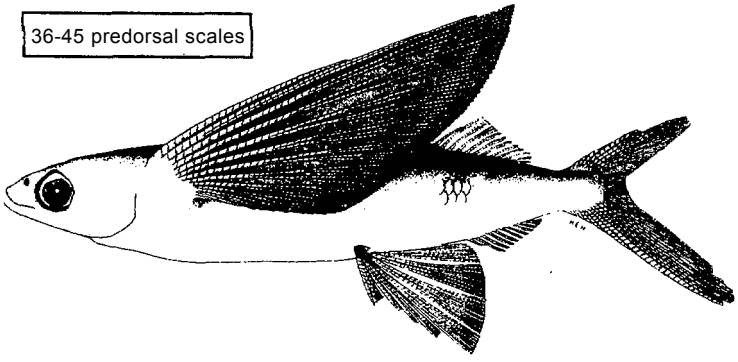
Size : 26 cm standard length.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic, mainly in coastal surface waters.

Loc.name(s) :

Cypselurus milleri Gibbs & Staiger, 1970



FAO names : **En** - Guinean flyingfish; **Fr** - Exocet de Guinée; **Sp** - Volador de Guinea.

Size : 28 cm standard length.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in oceanic and coastal surface waters.

Loc.name(s) :

Cypselurus nigricans (Bennett, 1840)

Synonyms : confused with *Cypselurus exsiliens* (Linnaeus, 1771) before 1970; *Cheilopogon nigricans* (Bennett, 1840)

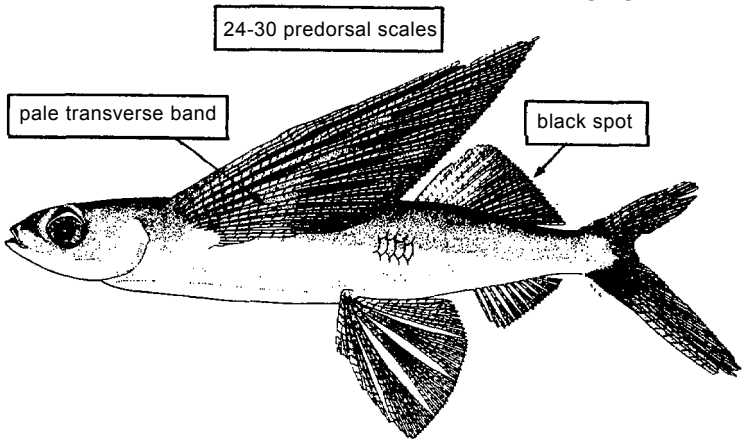
FAO names : **En** - African flyingfish; **Fr** - Exocet africain; **Sp** - Volador africano.

Size : 28 cm standard length.

Fishing gear : purse seines, pelagic trawls, driftnets.

Habitat : pelagic in oceanic surface waters.

Loc.name(s) :



Cypselurus pinnatibarbatus (Bennett, 1831)

Synonyms : *Cypselurus lineatus* (Valenciennes, 1846).

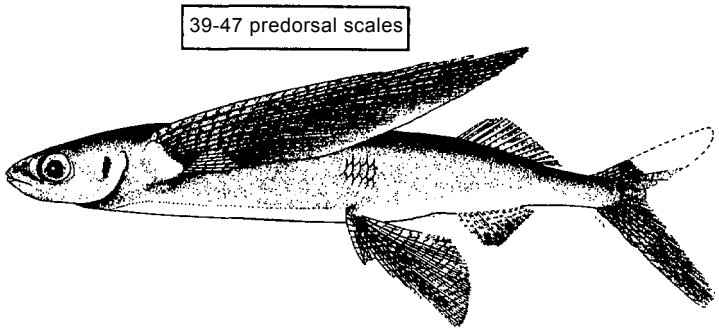
FAO names : **En** - Bennett's flyingfish; **Fr** - Exocet de Bennett; **Sp** - Volador de Bennett.

Size : 40 cm standard length

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in coastal surface waters.

Loc.name(s) :



Exocoetus obtusirostris Günther, 1866

FAO names : **En** - Oceanic two-wing flyingfish; **Fr** - Exocet bouledogue; **Sp** - Volador ñato.

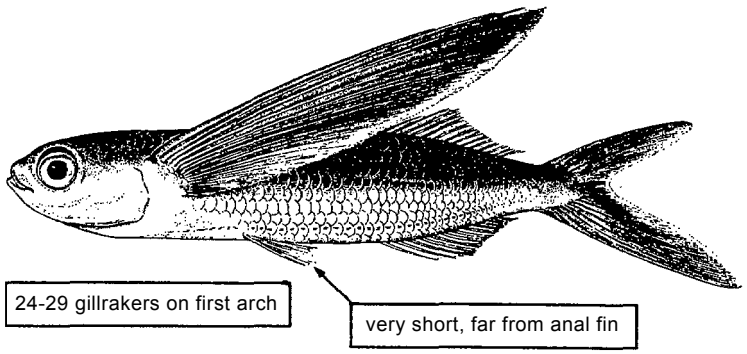
Size : 19 cm standard length.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in surface waters.

Remarks : presence in Gulf of Guinea to be confirmed.

Loc.name(s) :



Exocoetus volitans Linnaeus, 1758

FAO names : **En** - Tropical two-wing flyingfish; **Fr** - Exocet volant; **Sp** - Volador.

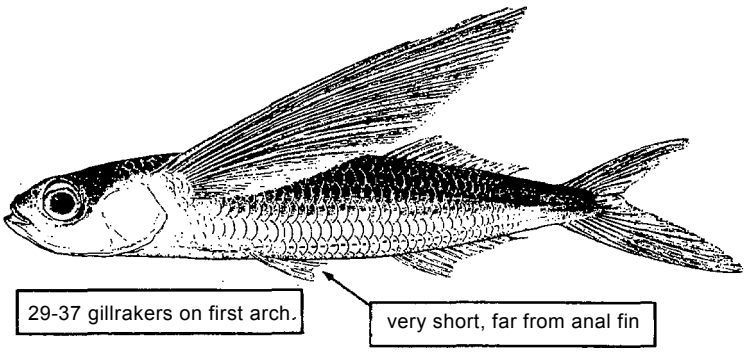
Size : 25 cm standard length.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in surface waters.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Fodiator acutus (Valenciennes, 1846)

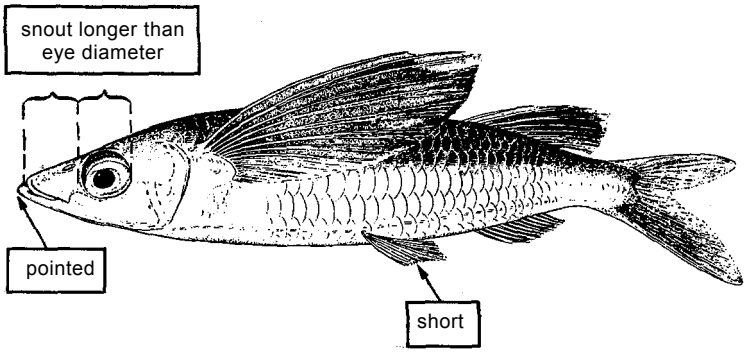
FAO names : **En** - Sharpchin flyingfish; **Fr** - Exocet bécune; **Sp** - Volador picudo.

Size : 15 cm.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in surface waters.

Loc.name(s) :



Hirundichthys affinis (Günther, 1866)

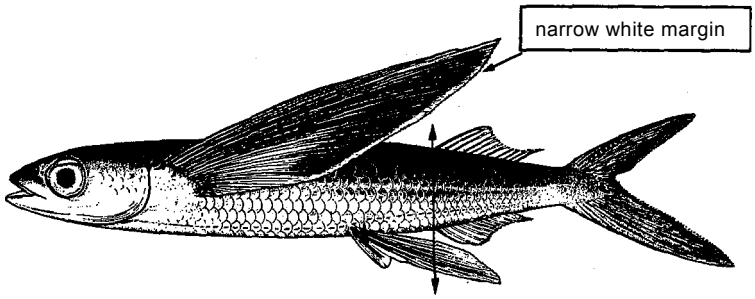
FAO names : **En** - Fourwing flyingfish; **Fr** - Exocet hirondelle; **Sp** - Volador golondrina.

Size : 25 cm standard length.

Fishing gear : purse, seines, driftnets, pelagic trawls.

Habitat : pelagic in coastal surface waters.

Loc.name(s) :



Hirundichthys speculiger (Valenciennes, 1846)

FAO names : **En** - Mirrorwing flyingfish; **Fr** - Exocet miroir; **Sp** - Volador espejo.

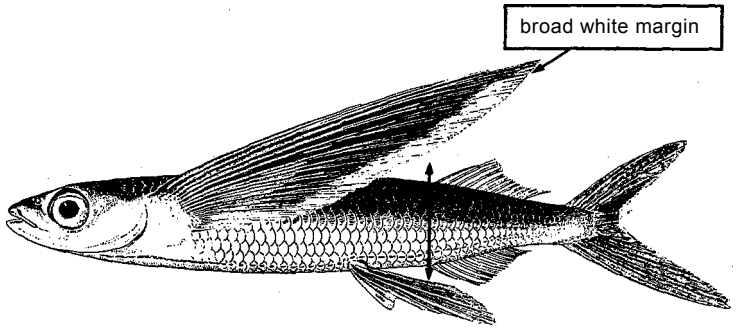
Size : 25 cm standard length.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in coastal surface waters

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Parexocoetus brachypterus (Richardson, 1846)

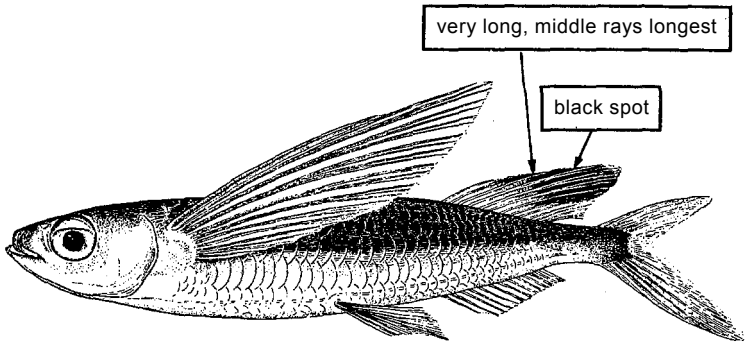
FAO names : **En** - Sailfin flyingfish; **Fr** - Exocet voilier; **Sp** - Volador aletón.

Size : 19 cm standard length.

Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in surface waters.

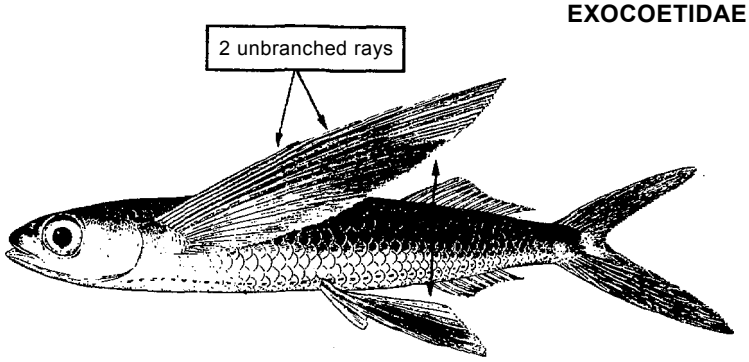
Loc.name(s) :



BONY FISHES

EXOCOETIDAE

Prognichthys gibbifrons (Valenciennes, 1846)



FAO names : **En** - Bluntnose flyingfish; **Fr** - Exocet jibeux; **Sp** - Volador jorobada.

Size : 20 cm standard length.

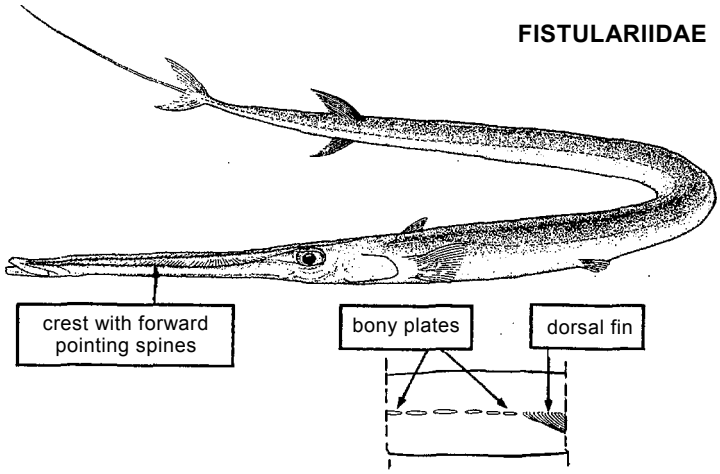
Fishing gear : purse seines, driftnets, pelagic trawls.

Habitat : pelagic in surface waters.

Loc.name(s) :

FISTULARIIDAE

Fistularia petimba Lacepède, 1803



Synonyms: *Fistularia serrata* Cuvier, 1817; *Fistularia villosa* Klunzinger, 1871.

FAO names : **En** - Red cornetfish; **Fr** - Cornette rouge; **Sp** - Corneta colorada.

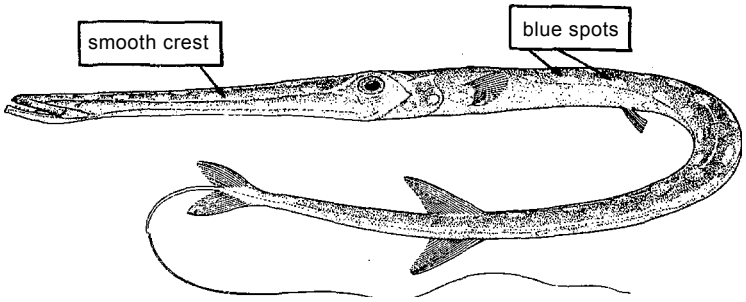
Size : 150 cm, common to 100 cm.

Fishing gear : bottom trawls, gillnets, line gear.

Habitat : demersal in coastal waters from 10 to 40 m depth.

Loc.name(s) :

Fistularia tabacaria Linnaeus, 1758



FAO names : **En** - Bluespotted cornetfish; **Fr** - Cornette à taches bleues; **Sp** - Corneta.

Size : about 180 cm, common to 100 cm.

Fishing gear : bottom trawls, artisanal gear, set gillnets.

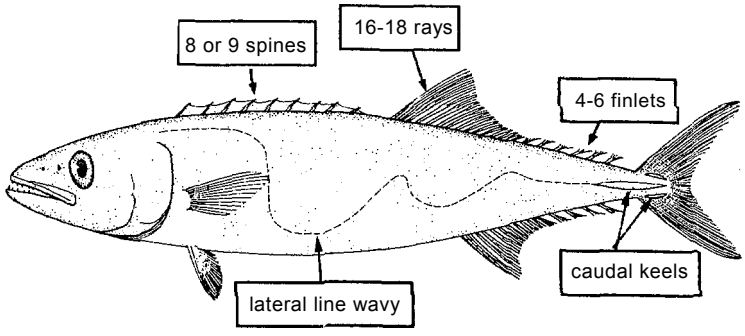
Habitat : rocky, coralline and vegetated bottoms throughout the year.

Loc.name(s) :

(see Plate V, 33)

Lepidocybium flavobrunneum (Smith, 1849)

GEMPYLIDAE



Synonyms : *Xenogramma carinatum* Waite, 1904; *Nasogrammus thompsoni* Fowler, 1923.

FAO names : **En** - Escolar; **Fr** - Escolier noir; **Sp** - Escolar negro.

Size : 200 cm, common to 150 cm.

Fishing gear : longlines, pelagic trawls (bycatch).

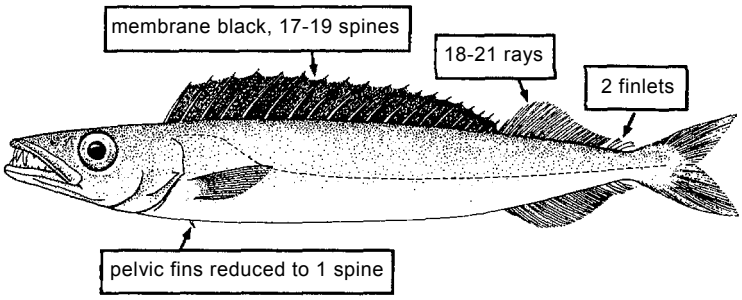
Habitat : oceanic, in surface and mid-waters, to depths of at least 200 m.

Loc.name(s) :

BONY FISHES

GEMPYLIDAE

Promethichthys prometheus (Cuvier, 1832)



FAO names : **En** - Promethean escolar; **Fr** - Escolier clair; **Sp** - Escolar prometeo.

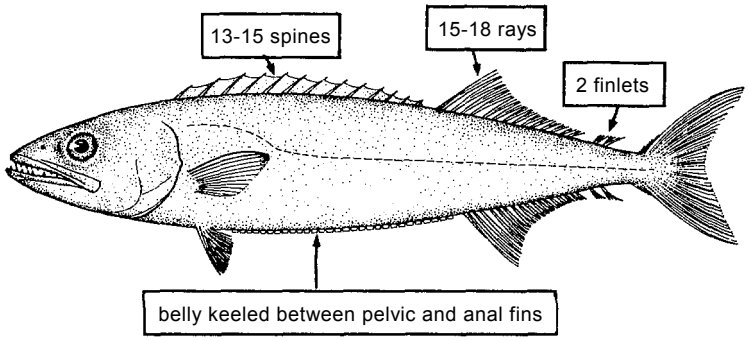
Size : 50 cm, common to 40 cm.

Fishing gear : bottom trawls.

Habitat : benthopelagic from 100 to 800 m depth.

Loc.name(s) :

Ruvettus pretiosus Cocco, 1829



Synonyms: *Ruvettus tydemani*. Weber, - 1913; *Ruvettus whakari* Griffin, 1927.

FAO names : **En** - Oilfish; **Fr** - Rouvet; **Sp** - Escolar clavo.

Size : 200 cm.

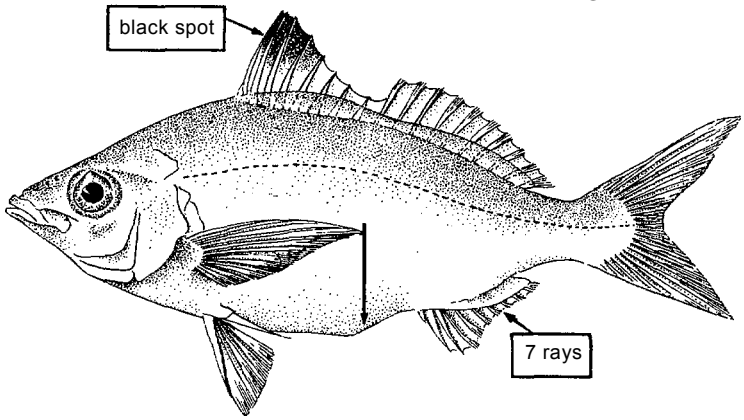
Fishing gear : bottom trawls, longlines.

Habitat : benthopelagic, mainly in coastal waters, sometimes oceanic, to depths of at least 200 m.

Loc.name(s) :

GERREIDAE

Eucinostomus melanopterus (Bleeker, 1863)



Synonyms: *Gerres melanopterus* Bleeker, 1863.

FAO names : **En** - Flagfin mojarra; **Fr** - Blanche drapeau; **Sp** - Mojarrita de ley.

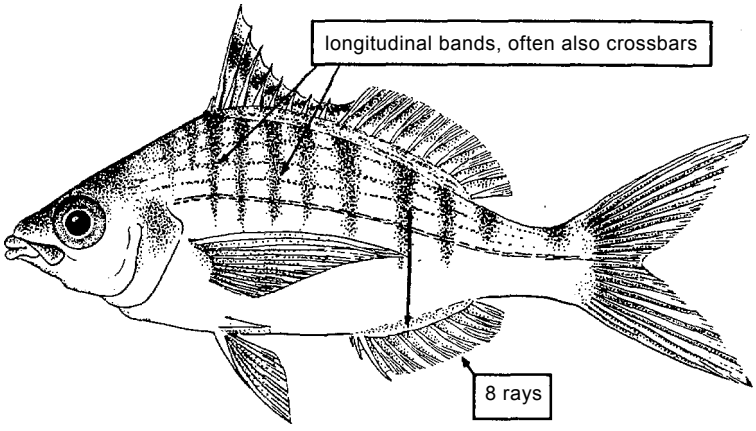
Size : 30 cm, common to 23 cm.

Fishing gear : beach seines, set nets, handlines, bottom trawls.

Habitat : sandy and muddy bottoms in coastal waters, rarely beyond 25 m depth.

Loc.name(s) :

Gerres nigri Günther, 1859



Synonyms : *Gerres octatis* Bleeker, 1863.

FAO names : **En** - Guinean striped mojarra; **Fr** - Friture rayée; **Sp** - Mojarra guineana.

Size : 20 cm, common to 15 cm.

Fishing gear : trawls, artisanal fishing gear.

Habitat : coastal waters, estuaries and coastal lagoons.

Loc.name(s) :

next page

BONY FISHES

Rypticus saponaceus (Bloch & Schneider, 1801)

GRAMMISTIDAE

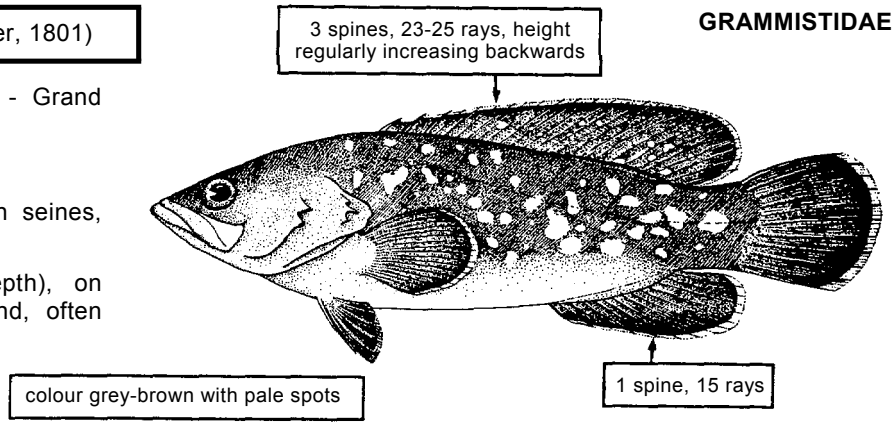
FAO names : **En** - Greater soapfish; **Fr** - Grand savon; **Sp** - Jabonero.

Size : 32 cm, common to 25 cm.

Fishing gear : hook-and-line, traps, beach seines, bottom trawls.

Habitat : shallow waters (to 50 m depth), on chalky and rocky bottoms mixed with sand, often around coral reefs.

Loc.name(s) :



Rypticus subbifrenatus Gill, 1861

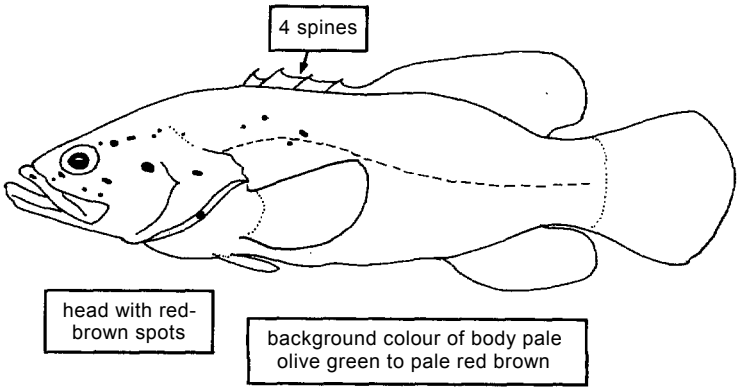
FAO names : **En** - Spotted soapfish; **Fr** - Savon tacheté; **Sp** - Jabonero machado.

Size : 13 cm.

Fishing gear : no information available.

Habitat : coastal waters.

Loc.name(s) :



Brachydeuterus auritus (Valenciennes, 1831)

HAEMULIDAE
(= POMADASYIDAE)

Synonyms : *Otoperca aurita* (Valenciennes, 1831).

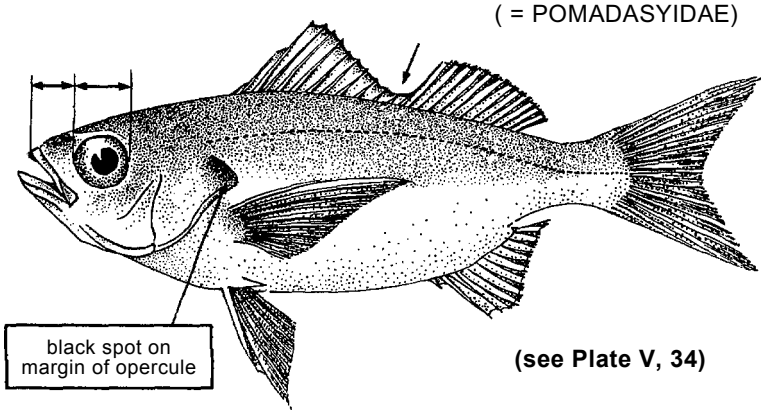
FAO names : **En** - Bigeye grunt; **Fr** - Lippu pelon; **Sp** - Burro ojón.

Size : 27 cm, common to 20 cm.

Fishing gear : bottom trawls, beach seines, purse seines, set nets.

Habitat : coastal waters from 10 to 100 m depth, but more common between 15 and 40 m.

Loc.name(s) :



(see Plate V, 34)

Parapristipoma humile (Bowdich, 1825)

Synonyms : *Pristipoma humilis* Bowdich, 1825; *Pristipoma viridens* Cuvier, 1830; *Diagramma aeneum* Peters, 1869; *Diagramma* (*Diagramella*) *macrops* Pellegrin, 1912; *Genyatremus latifrons* Troschel, 1866; *Genyatremus angustifrons* Troschel, 1866; *Parapristipoma latifrons* [Fowler, 1936]; *Parapristipoma macrops* [Poll, 1954].

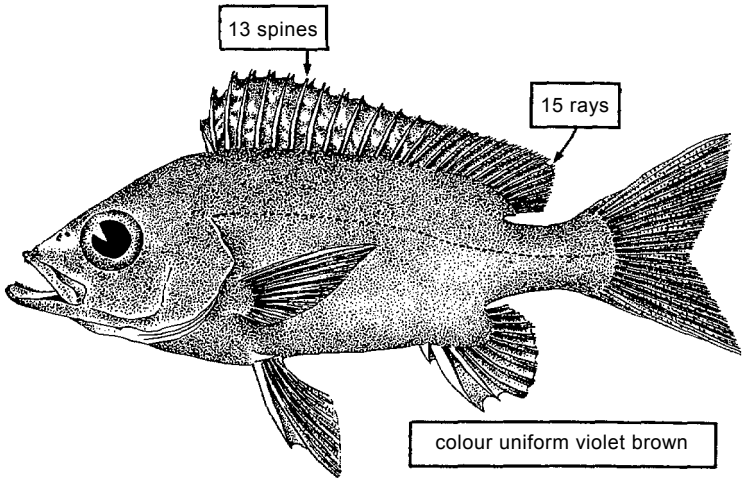
FAO names : **En** - Guinea grunt; **Fr** - Grondeur bouche d'or; **Sp** - Burro boca de oro.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : sandy bottoms, from the coastline to 100 m depth.

Loc.name(s) :



HAEMULIDAE
(= POMADASYIDAE)

Parapristipoma octolineatum (Valenciennes, 1833)

Synonyms : *Pristipoma octolineatum* Valenciennes, 1833; *Diagramma octolineatum* (Valenciennes, 1833)

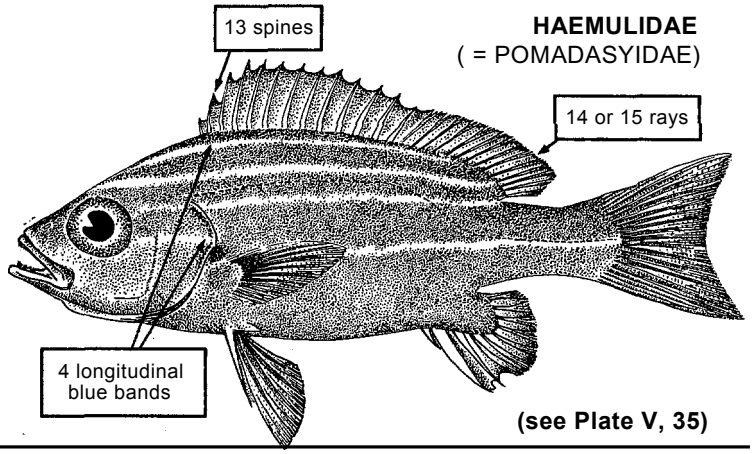
FAO names : **En** - African striped grunt; **Fr** – Grondeur rayé; **Sp** - Burro listado.

Size : 36 cm, common to 25 cm.

Fishing gear : bottom trawls, trammel nets, lone gear.

Habitat : rocky bottoms to about 60 m depth.

Loc.name(s) :



(see Plate V, 35)

Plectorhynchus macrolepis (Boulenger, 1899)

Synonyms : *Diagramma macrolepis* Boulenger, 1899.

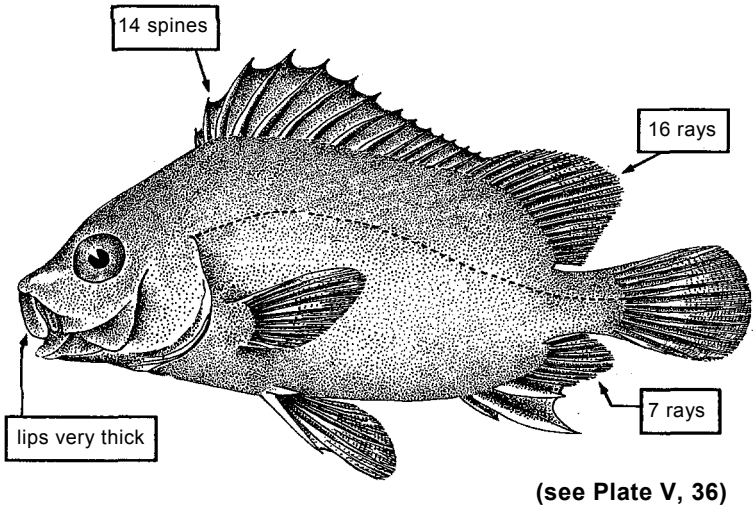
FAO names : **En** - Biglip grunt; **Fr** Diagramme à grosses lèvres; **Sp** - Burro labiogrueso.

Size : 45 cm, common to 30 cm.

Fishing gear : bottom trawls, set gill nets, lines.

Habitat : shallow coastal waters, estuaries and coastal lagoons.

Loc.name(s) :



(see Plate V, 36)

Plectorhynchus mediterraneus (Guichenot, 1850)

Synonyms : *Diagramma mediterraneurn* Guichenot, 1850; *Parapristipoma mediterraneum* (Guichenot, 1850).

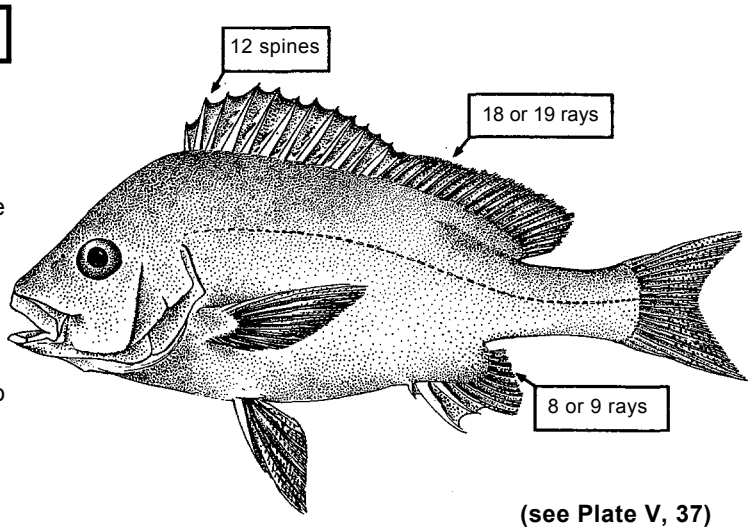
FAO names : **En** - Rubberlip grunt; **Fr** – Diagramme gris; **Sp** - Burro chiclero.

Size : 60 cm, common to 40 cm.

Fishing gear : bottom and pelagic trawls, bottom set nets, lines.

Habitat : rocky, sandy and sandy/muddy bottoms to 60 m depth.

Loc.name(s) :



(see Plate V, 37)

Pomadasys incisus (Bowdich, 1825)

Synonyms : *Pomadasys bennetti* Lowe, 1841.

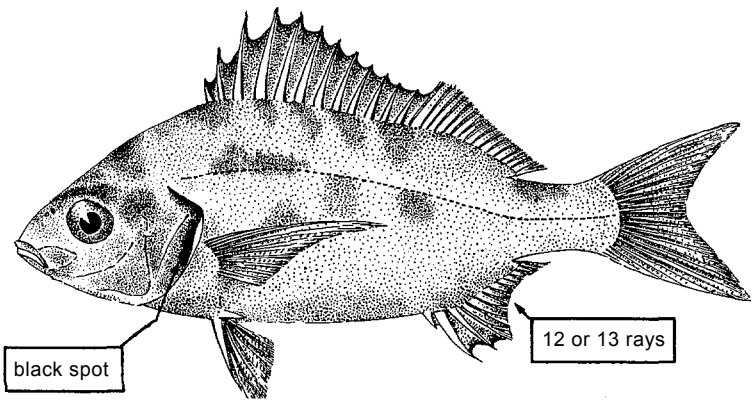
FAO names : **En** - Bastard grunt; **Fr** - Grondeur métis; **Sp** - Ronco mestizo.

Size : 30 cm, common to 20 cm.

Fishing gear : bottom trawls, beach seines, set nets.

Habitat : hard bottoms from 1 to 50 m depth.

Loc.name(s) :



BONY FISHES

HAEMUUDAE
(= POMADASYIDAE)

Pomadasys jubelini (Cuvier, 1830)

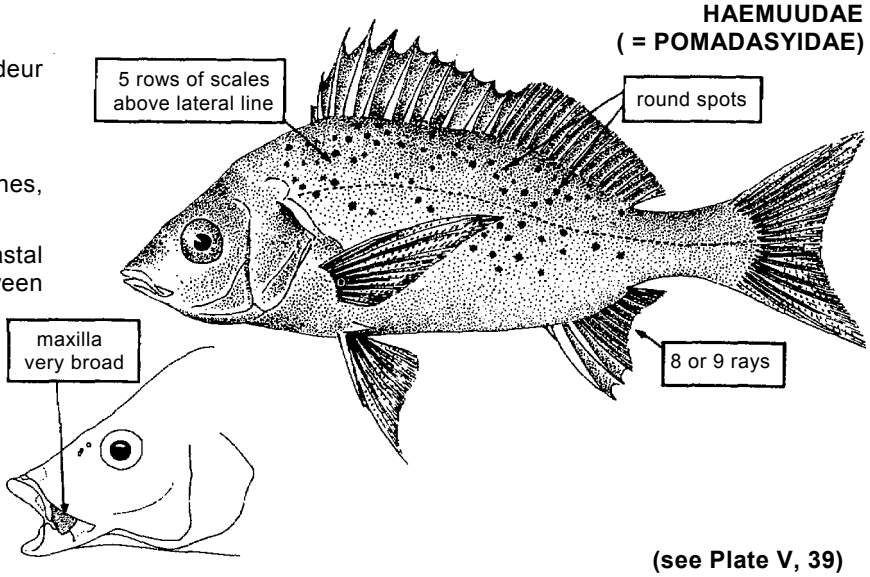
FAO names : **En** - Sompat grunt; **Fr** - Grondeur sompat; **Sp** - Ronco sompat.

Size : 60 cm, common to 40 cm.

Fishing gear : bottom trawls, beach seines, purse seines, lines.

Habitat : sandy and muddy bottoms in coastal waters and estuaries, most common between 20 and 50 m depth.

Loc.name(s) :



(see Plate V, 39)

Pomadasys peroteti (Cuvier, 1830)

Synonyms : *Pomadasys perotoei* (Cuvier, 1830).

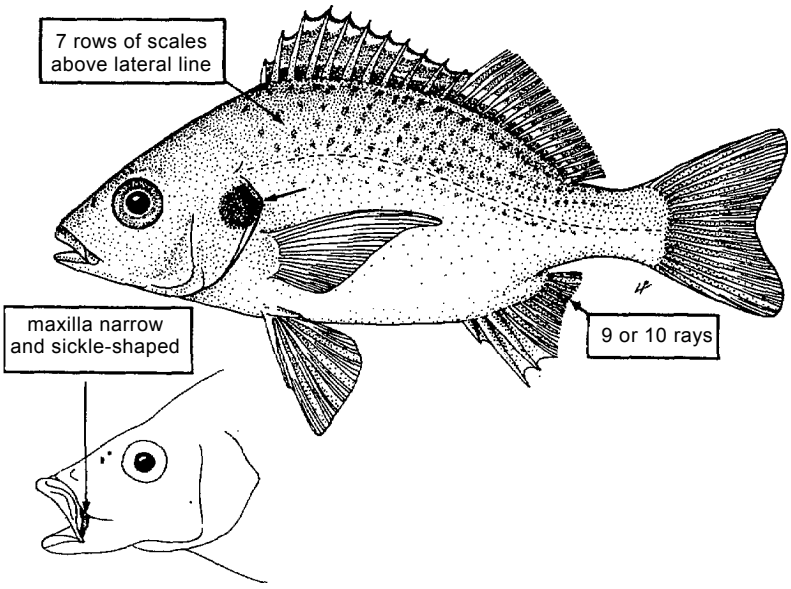
FAO names : **En** - Parrot grunt; **Fr** - Grondeur perroquet; **Sp** - Ronco loro.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, purse seines, lines.

Habitat : sandy and muddy bottoms in coastal waters; also in estuaries.

Loc.name(s) :



Pomadasys rogerii (Cuvier, 1830)

Synonyms : *Pomadasys suillus* (ou *P. suillum*) (Valenciennes, 1833).

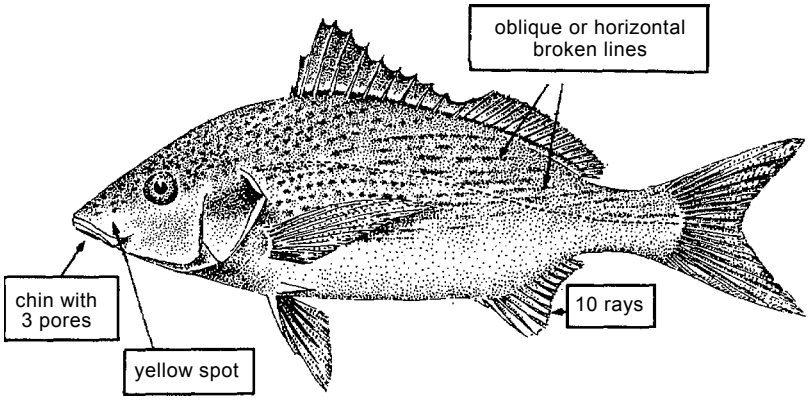
FAO names : **En** - Pigsnout grunt; **Fr** - Grondeur nez de cochon; **Sp** - Ronco trompudo.

Size : 60 cm, common to 45 cm.

Fishing gear : pelagic and bottom trawls, beach seines, set nets.

Habitat : demersal and pelagic in coastal waters to 60 m depth; also in estuaries.

Loc.name(s) :



(see Plate V, 40)

Euleptorhampus velox Poey, 1868

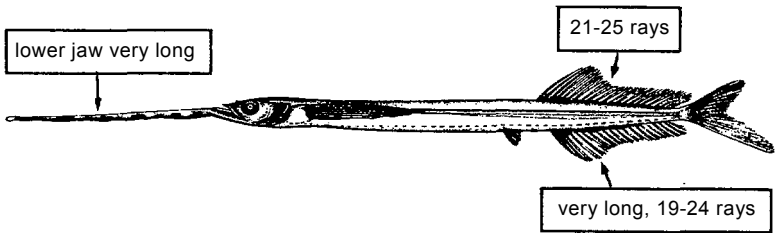
FAO names : **En** - Flying halfbeak; **Fr** - Demi-bec volant ; **Sp** - Agujeta voladora.

Size : common to 35 cm.

Fishing gear : pelagic trawls, beach seines, purse seines.

Habitat : pelagic in coastal and oceanic waters.

Loc.name(s) :



Hemiramphus balao Le Sueur, 1825

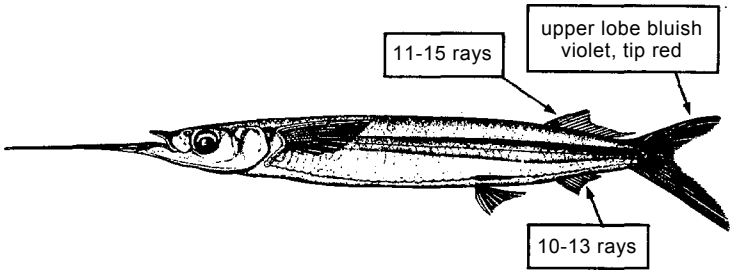
FAO names : **En** - . Balao halfbeak; **Fr** - Demi-bec balaou; **Sp** - Agujeta balajú.

Size : at least 40 cm.

Fishing gear : pelagic. trawls, beach seines, purse seines.

Habitat : coastal surface waters, forming large schools.

Loc.name(s) :



Hemiramphus brasiliensis (Linneaus, 1758)

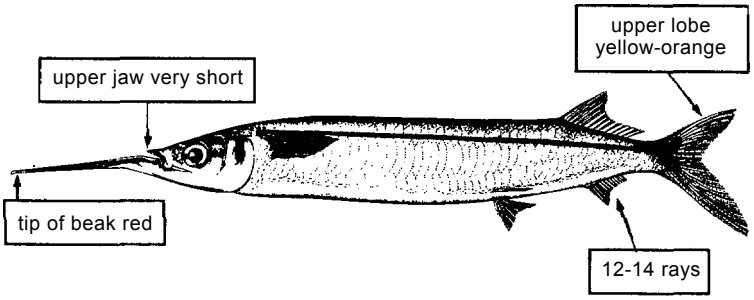
FAO names : **En** - Ballyhoo half beak; **Fr** - Demi-bec Brésilien; **Sp** - Agujeta brasileña.

Size : 55 cm, common to 30 cm.

Fishing gear : pelagic trawls, beach seines, purse seines, set nets, line gear.

Habitat : coastal pelagic, forming schools.

Loc. name(s) :



(see Plate VI, 41)

Hyporhamphus picarti (Valenciennes, 1846)

Synonyms : *Hyporamphus unifasciatus* (non Ranzani, 1842) [Fowler, 1936].

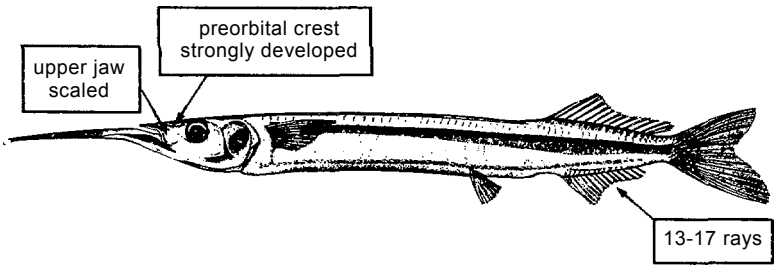
FAO names : **En** - African halfbeak; **Fr** – Demi-bec africaine; **Sp** - Agujeta africana.

Size : 18 cm, common to 10 cm.

Fishing gear : pelagic trawls, beach seines, purse seines, set nets.

Habitat : pelagic in coastal waters, forming schools; often enters estuaries.

Loc.name(s) :



next page

BONY FISHES

Oxyporhamphus micropterus similis (Bruun, 1935)

HEMIRAMPHIDAE

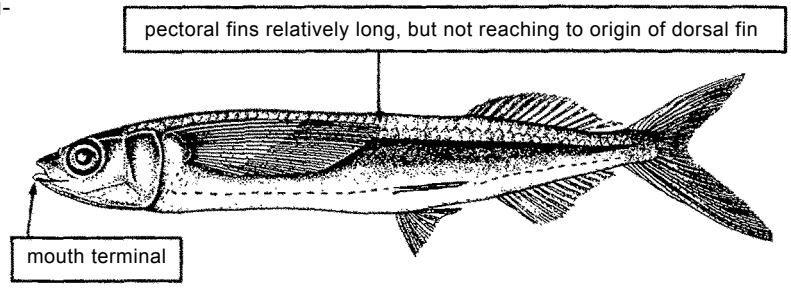
FAO names : **En** - False halfbeak; **Fr** - Faux demi-bec; **Sp** - Falsa agujeta.

Size : 18 cm standard length.

Fishing gear : purse seines, driftnets.

Habitat : pelagic in inshore waters.

Loc. name(s) :



Holocentrus ascensions (Osbeck, 1765)

HOLOCENTRIDAE

FAO names : **En** - Squirrelfish; **Fr** - Marignan coq; **Sp** - Candil gallito.

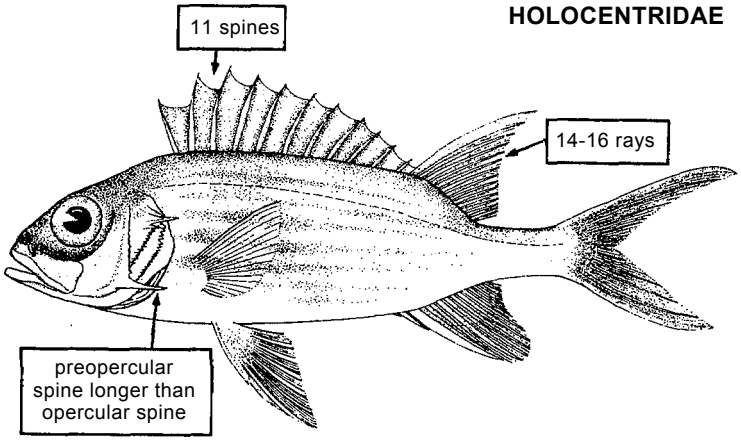
Size : at least 34.5 cm standard length.

Fishing gear : traps, set nets, trawls.

Habitat : coral reefs in coastal waters; also in offshore waters to 90 m depth; a nocturnal species.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Myripristis jacobus Cuvier, 1829

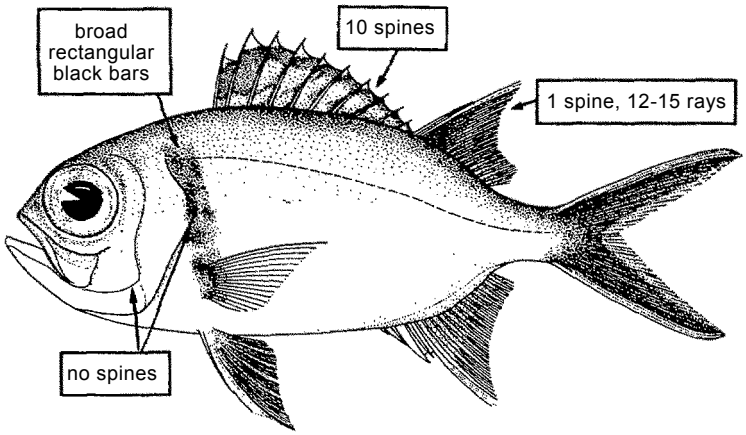
FAO names : **En** - Blackbar soldierfish; **Fr** - Marignan mombin; **Sp** - Candil colorado.

Size : 21.6 cm.

Fishing gear : traps, set nets, trawls.

Habitat : coral reefs in coastal waters; also in offshore waters to 90 m depth; a nocturnal species.

Loc.name(s) :



Sargocentron hastatus (Valenciennes, 1829)

(see Plate VI, 42)

Synonyms : *Adioryx hastatus* (Valenciennes, 1829); *Holocentrus hastatus* Valenciennes, 1829.

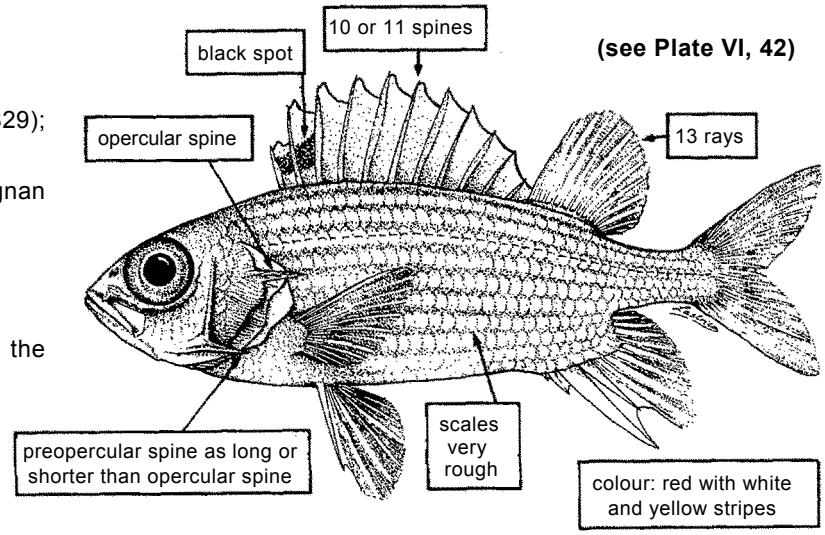
FAO names : **En** - Red squirrelfish; **Fr** - Marignan rouge; **Sp** - Candil africano.

Size : 46 cm, common to 25 cm.

Fishing gear : traps, set nets, trawls.

Habitat : rocky and coralline bottoms from the shoreline to 200 m depth.

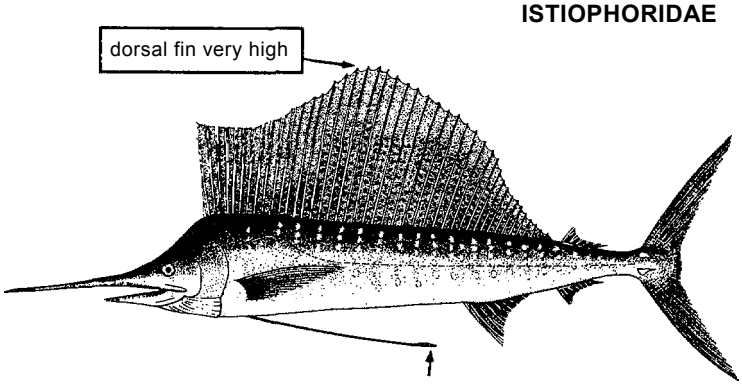
Loc.name(s) :



BONY FISHES

ISTIOPHORIDAE

Istiophorus albicans (Latreille, 1804)



Synonyms: *Histiophorus albicans* (Latreille, 1804); *Histiophorus americanus* Cuvier, 1832; *Makaira albicans* Latreille, 1804.

FAO names : **En** - Atlantic sailfish; **Fr** - Voilier de l'Atlantique; **Sp** - Pez vela del Atlántico.

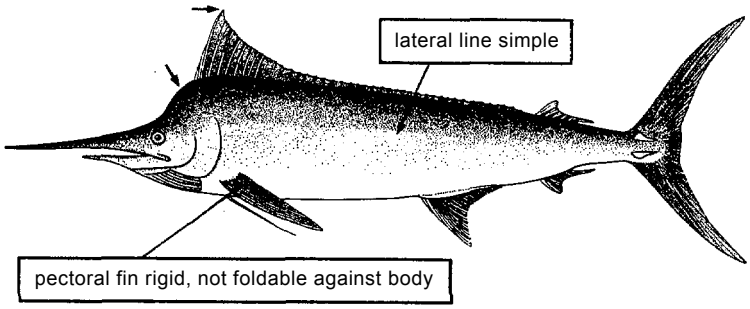
Size : about 300 cm, common to 200 cm.

Fishing gear : surface longlines; trolling, driftnets.

Habitat : pelagic in surface waters; strongly migratory during winter.

Loc.name(s) :

Makaira indica (Cuvier, 1832)



Synonyms : *Makaira marlina* Jordan & Hill, 1926; *Istiompax marlina* (Jordan & Hill, 1926); *Istiompax indicus* (Cuvier, 1832).

FAO names : **En** - Black marlin; **Fr** - Makaire noire; **Sp** - Aguja negra.

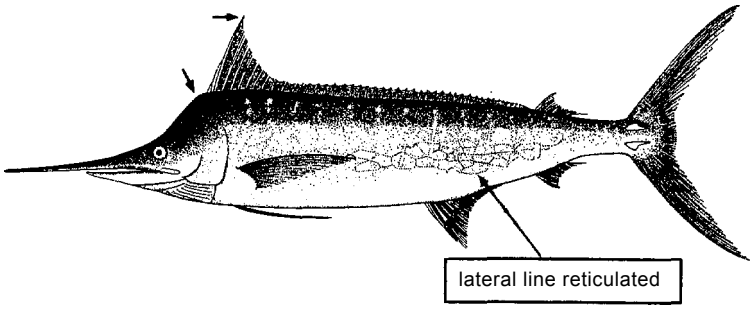
Size : to 460 cm, common to 300 cm.

Fishing gear : surface longlines, trolling, driftnets.

Habitat : pelagic in surface waters above the thermocline, mainly oceanic and strongly migratory.

Loc.name(s) :

Makaira nigricans Lacepède, 1802



Synonyms : *Makaira ampia* (Poey, 1860).

FAO names : **En** - Blue marlin; **Fr** - Aguja azul; **Sp** - Makaire bleu .

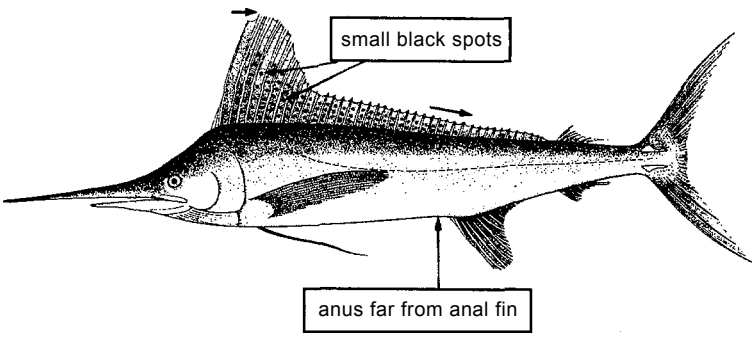
Size : to 400 cm, common to 300 cm.

Fishing gear : surface longlines, trolling, driftnets.

Habitat : pelagic in oceanic surface waters, usually found above the thermocline; highly migratory.

Loc.name(s) :

Tetrapturus albidus Poey, 1860



Synonyms: *Makaira albida* (Poey, 1860); *Lamontella albida* (Poey, 1860).

FAO names : En - White marlin; Fr - Makaire blanc; Sp - Aguja blanca.

Size : 300 cm, common to 200 cm.

Fishing gear : surface longlines, trolling, driftnets.

Habitat : pelagic in surface waters, above the thermocline.

Loc.name(s) :

BONY FISHES

ISTIOPHORIDAE

Tetrapturus pfluegeri Robins & de Sylva, 1963

Synonyms: *Tetrapturus belone* (non Rafinesque, 1810) [Fowler, 1936].

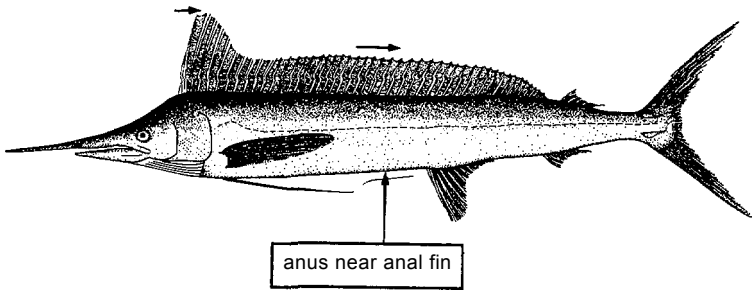
FAO names : **En** - Longbill spearfish; **Fr** - Makaire bécune; **Sp** - Aguja picuda.

Size : to 200 cm, common to 180 cm standard length.

Fishing gear : longlines, driftnets.

Habitat : pelagic in oceanic surface waters, usually above the thermocline; highly migratory.

Loc.name(s) :



KUHLIIDAE

Parakuhlia macrophthalmus (Osorio, 1894)

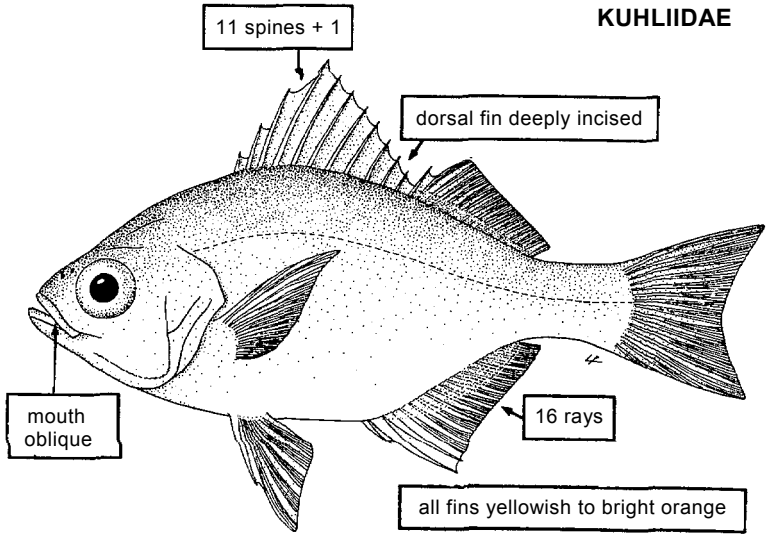
FAO names : **En** - Dara; **Fr** - Crocro à gros yeux; **Sp** - Dara.

Size : 20 cm, common to 15 cm.

Fishing gear : beach seines, set nets, hook-and-line.

Habitat : rocky and sandy bottoms to about 30 m. Present throughout the year.

Loc.name(s) :



KYPHOSIDAE

Kyphosus incisor (Cuvier, 1831)

FAO names : **En** - Yellow sea chub; **Fr** - Calicagère jaune; **Sp** - Chopa amarilla.

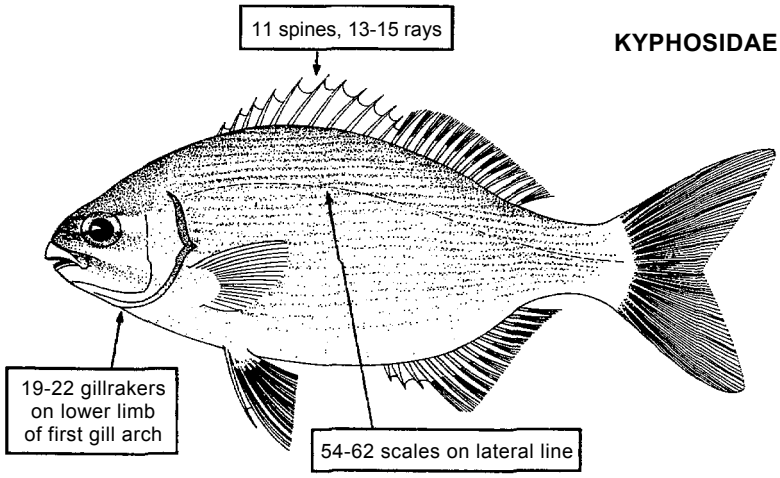
Size : 67 cm, common to 45 cm.

Fishing gear : set nets, hook-and-tine.

Habitat : rocky bottoms in shallow coastal waters.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Kyphosus sectatrix (Linnaeus, 1758)

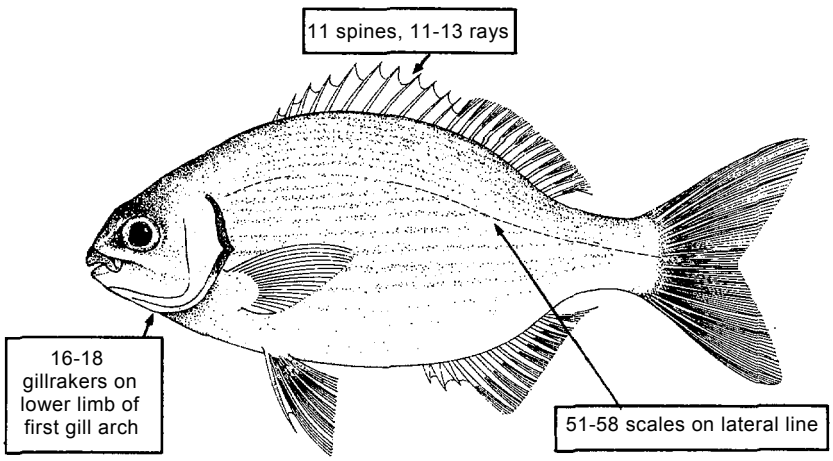
FAO names : **En** - Bermuda sea chub; **Fr** - Calicagère blanche; **Sp** - Chopa blanca.

Size : 76 cm, common to 50 cm.

Fishing gear : set nets, hook-and-line.

Habitat : shallow coastal waters.

Loc.name(s) :



Acantholabrus palloni (Risso, 1810)

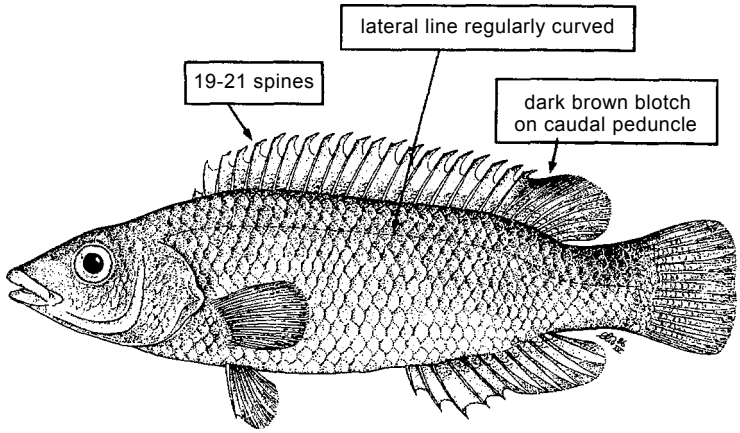
FAO names : **En** - Scale-rayed wrasse; **Fr** - Roucaou; **Sp** - Tae rocas.

Size : 30 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : in coastal waters near rocky or sandy bottoms, from 30 to 500 m depth; solitary.

Loc.name(s) :



Bodianus scrofa (Valenciennes, 1839)

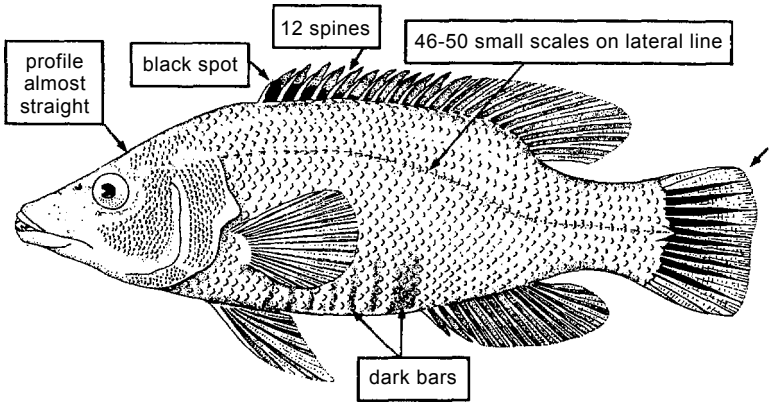
FAO names : **En** - Barred hogfish; **Fr** - Pourceau; **Sp** - Vieja.

Size : 43 cm, common to 30 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : prefers rocky bottoms from 20 to 100 m depth.

Loc.name(s) :



Bodianus speciosus (Bowdich, 1825)

Synonyms*: Diastodon speciosus* Bowdich, 1825.

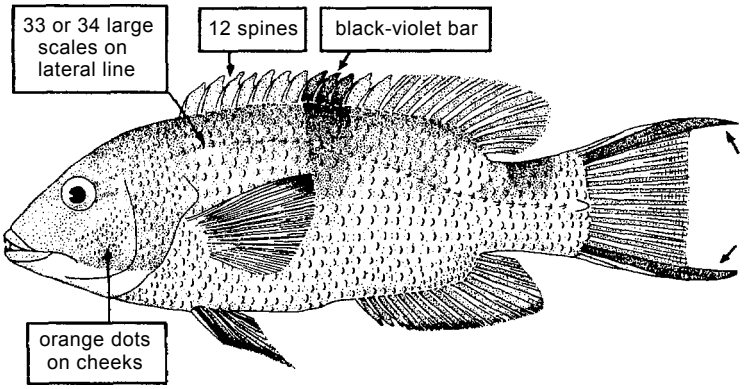
FAO names : **En** - Blackbar hogfish; **Fr** - Pourceau dos noir; **Sp** - Vieja lomonegro.

Size : 50 cm, common to 40 cm.

Fishing gear : bottom trawls, bottom set nets, lines.

Habitat : rocky and coralline bottoms from 3 to 70 m depth. Present throughout the year, but fished mainly during the warm season.

Loc.name(s) :



(see Plate VI, 43)

(see Plate VI, 44)

Loris julis (Linnaeus, 1758)

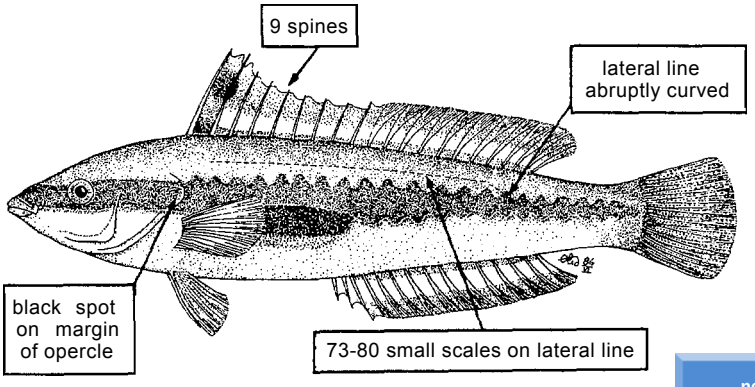
FAO names : **En** - Rainbow wrasse; **Fr** - Girelle; **Sp** - Doncella julia.

Size: 30 cm, common between 18 and 25 cm.

Fishing gear : bottom trawls, bottom set nets, lines.

Habitat : most common on rocky bottoms and along vegetated grounds, from 1 to 120 m depth.

Loc.name(s) :



next page

BONY FISHES

LABRIDAE

Thalassoma pavo (Linnaeus, 1758)

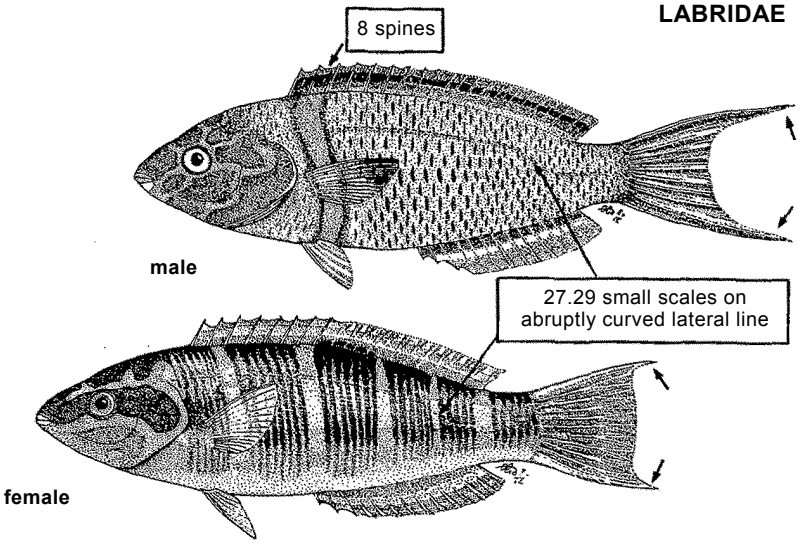
FAO names : **En** - Ornate wrasse; **Fr** - Girelle paon; **Sp** - Fredi.

Size : 25 cm, common to 18 cm.

Fishing gear : bottom trawls, beach seines, lines.

Habitat : coastal waters near rocky and vegetated bottoms, from 1 to 150 m depth, but usually at less than 50 m; solitary or in small groups.

Loc.name(s) :



Xyrichthys novacula (Linnaeus, 1758)

Synonyms : *Xyrichthys psittacus* (Linnaeus, 1758); *Hemipteronotus novacula* [Randall, 1965].

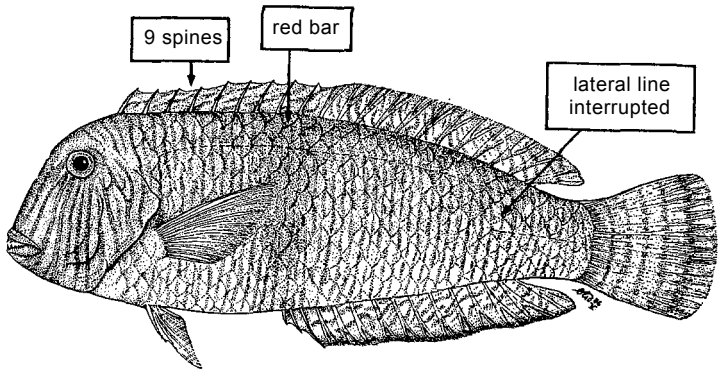
FAO names : **En** - Pearly razorfish; **Fr** - Donzelle lame; **Sp** - Doncella cuchilla.

Size : 26 cm, common to 20 cm.

Fishing gear : hook-and-line, bottom trawls.

Habitat : clear waters on sandy bottoms, often associated with vegetated grounds or. corals.

Loc.name(s) :



LAMPRIDAE

Lampris guttatus (Brünnich, 1788)

Synonyms : *Lampris regius* (Bonnaterre, 1788); *Lampris luna* (Gmelin, 1789).

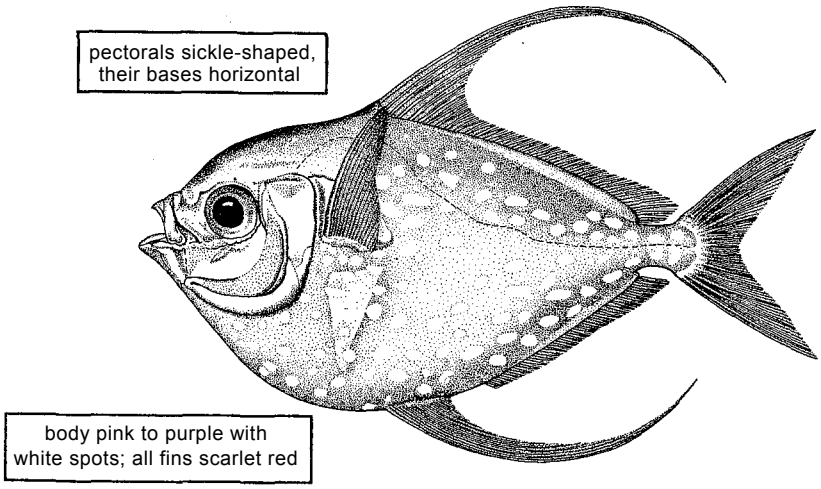
FAO names : **En** - Opah; **Fr** - Opah; **Sp** - Opa.

Size : at least 185 cm, common to 120 cm.

Fishing gear : floating longlines, purse seines.

Habitat : from the surface to depths of about 200 m; an inhabitant of temperate water, but wandering far north in summer months.

Loc.name(s) :



LETHRINIDAE

Lethrinus atlanticus Valenciennes, 1830

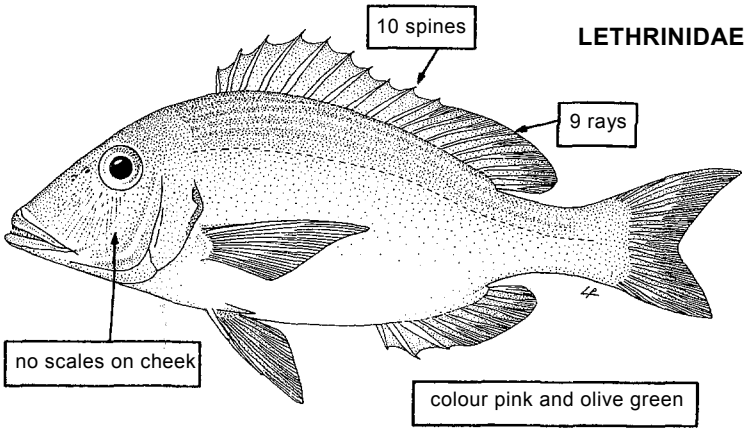
FAO names : **En** - Atlantic emperor; **Fr** - Empereur atlantique; **Sp** - Emperador atlántico.

Size : 50 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, purse seines, hook-and-lines.

Habitat : coastal waters to 50 m depth, abundant during the winter months.

Loc.name(s) :



BONY FISHES

LOBOTIDAE

Lobotes surinamensis (Bloch, 1790)

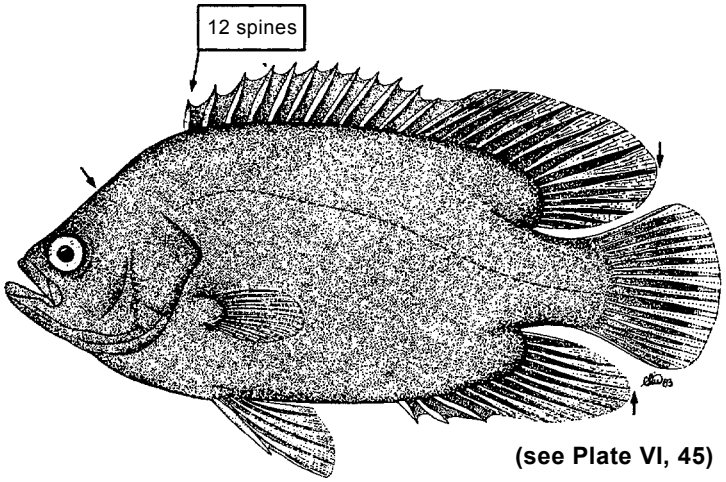
FAO names : **En** - Atlantic tripletail; **Fr** - Croupia roche; **Sp** - Dormilona.

Size : 100 cm, common to 50 cm.

Fishing gear : purse seines, set gillnets, lines.

Habitat : pelagic, often floating horizontally near the surface.

Loc.name(s) :



(see Plate VI, 45)

LOPHIIDAE

Lophiodes kempi (Norman, 1935)

Synonyms: *Chirolophius kempi* Norman, 1935.

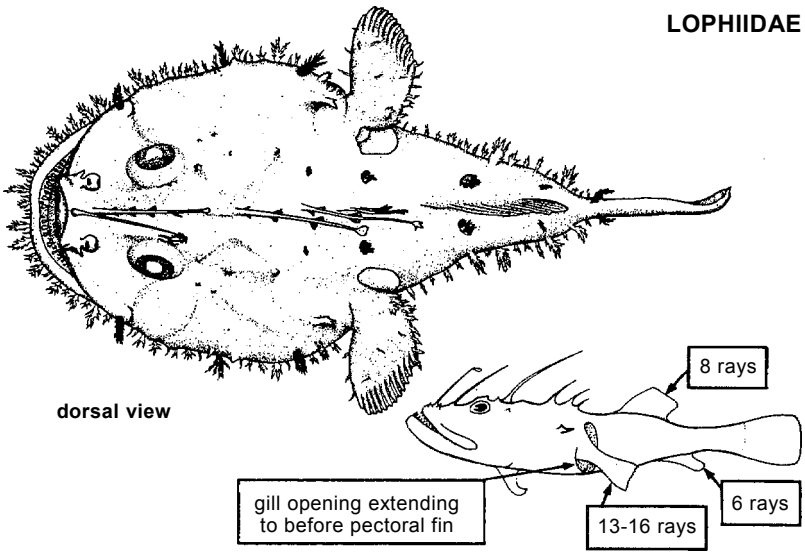
FAO names : **En** - Longspine African angler; **Fr** - Baudroie épineuse; **Sp** - Rape espinoso.

Size : 30 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : demersal between 50 and 400 m depth.

Loc.name(s) :



lateral view (Lophiodes)

Lophius vaillanti Regan, 1903

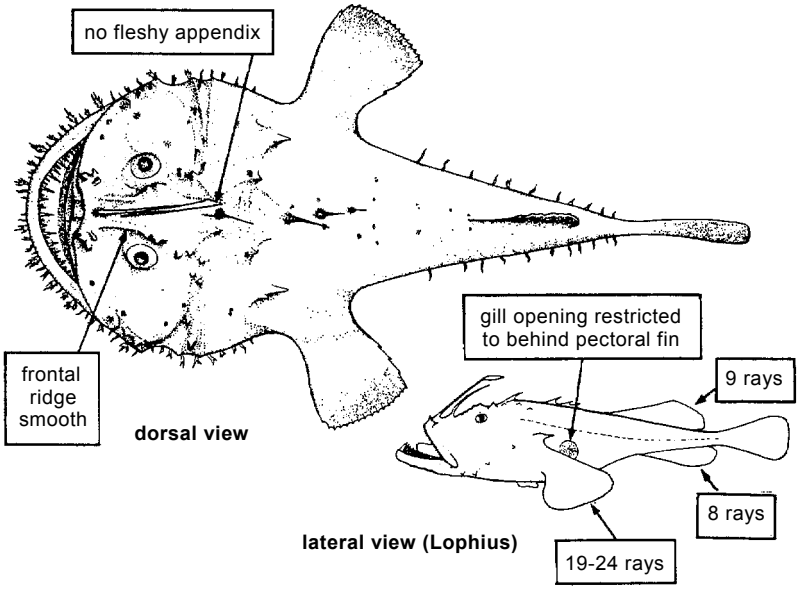
FAO names : **En** - Shortspine African anglerfish; **Fr** - Baudroie africaine; **Sp** - Rape africano.

Size : 50 cm, common to 40 cm.

Fishing gear : bottom trals.

Habitat : demersal, between 200 and 300 m depth.

Loc.name(s) :



lateral view (Lophius)

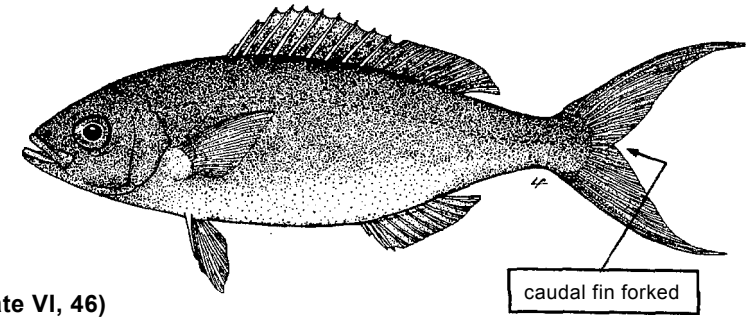
Apsilus fuscus Valenciennes, 1830

FAO names : **En** - African forktail snapper; **Fr** - Vivaneau fourche (d'Afrique); **Sp** - Pargo tijera.

Size : 50 cm, common to 35 cm.

Fishing gear : bottom trawls, handlines, set nets.

Habitat : coralline and rocky bottoms from 15 to 100 m depth.



(see Plate VI, 46)

Lutjanus agennes Bleeker, 1863

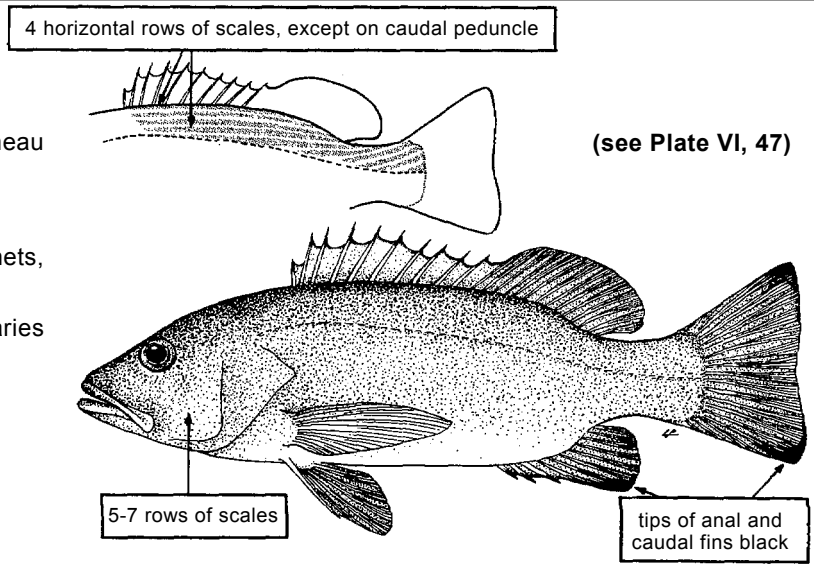
FAO names : **En** - African red snapper; **Fr** - Vivaneau africain rouge; **Sp** - Pargo colorado africano.

Size : at least 75 cm, common to 40 cm.

Fishing gear : longlines, handlines, bottom set nets, bottom trawls.

Habitat : rocky bottoms, sometimes enters estuaries and lagoons.

Loc.name(s) :



(see Plate VI, 47)

Lutjanus dentatus (Duméril, 1860)

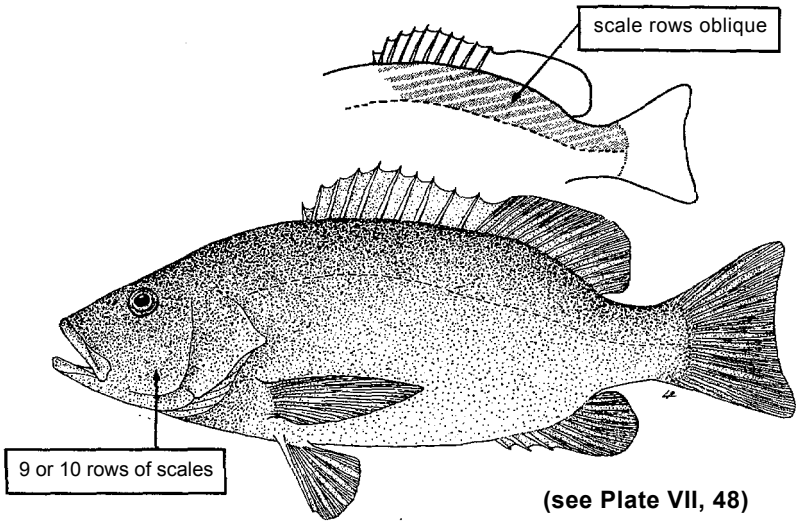
FAO names : **En** - African brown snapper; **Fr** - Vivaneau brun (d'Afrique); **Sp** - Pargo marrón africano.

Size : 90 cm, common to 75 cm.

Fishing gear : handlines, longlines, bottom set nets, bottom trawls.

Habitat : rocky bottoms, also in estuaries.

Loc.name(s) :



(see Plate VII, 48)

Lutjanus endecacanthus Bleeker, 1863

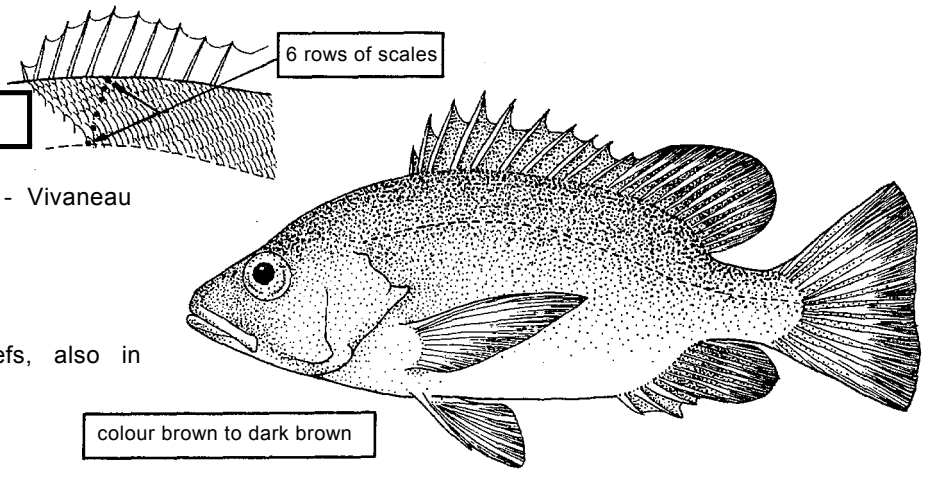
FAO names : **En** - Guinea snapper; **Fr** - Vivaneau de Guinee; **Sp** - Pargo de Guinea.

Size : 20 cm (largest known specimen).

Fishing gear : handlines, bottom set nets.

Habitat : rocky bottoms and coral reefs, also in brackish lagoons and sometimes in rivers.

Loc.name(s) :



Lutjanus fulgens (Valenciennes, 1830)

LUTJANIDAE

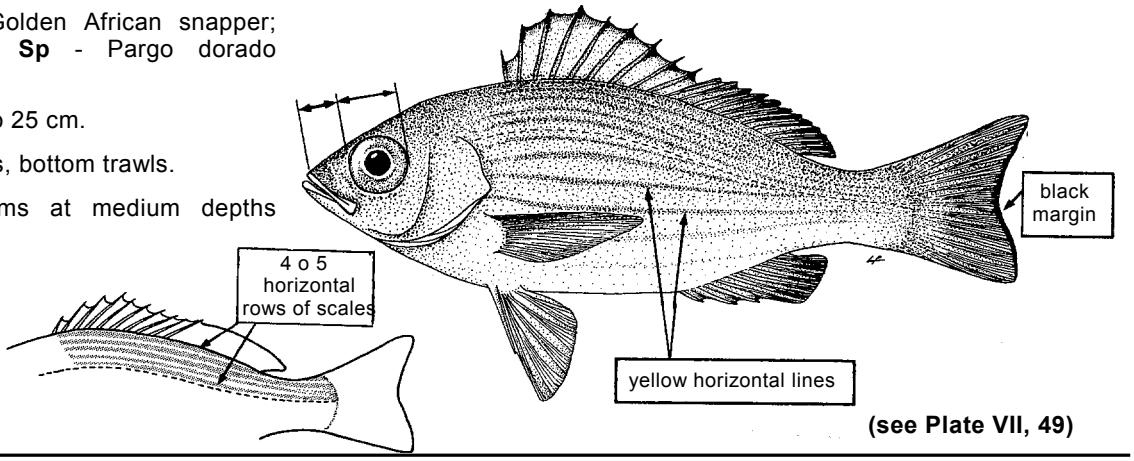
FAO names : **En** - Golden African snapper; **Fr** - Vivaneau doré; **Sp** - Pargo dorado africano.

Size : 60 cm, common to 25 cm.

Fishing gear : handlines, bottom trawls.

Habitat : rocky bottoms at medium depths (around 60 m).

Loc.name(s) :



(see Plate VII, 49)

Lutjanus goreensis (Valenciennes, 1830)

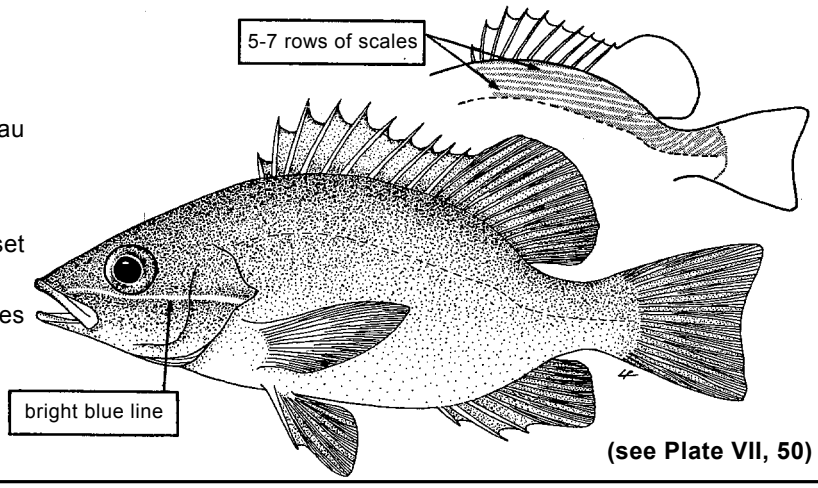
FAO names : **En** Gorean snapper; **Fr** - Vivaneau de Gorée; **Sp** - Pargo de Gorea.

Size : 80 cm, common to 50 cm.

Fishing gear : handlines, longlines, bottom set nets, bottom trawls.

Habitat : rocky and other hard bottoms, juveniles in estuaries.

Loc.name(s) :



(see Plate VII, 50)

Macroramphosus scolopax (Linnaeus, 1758)

MACRORAMPHOSIDAE

Synonyms : *Macroramphosus gracilis* (Lowe, 1839).

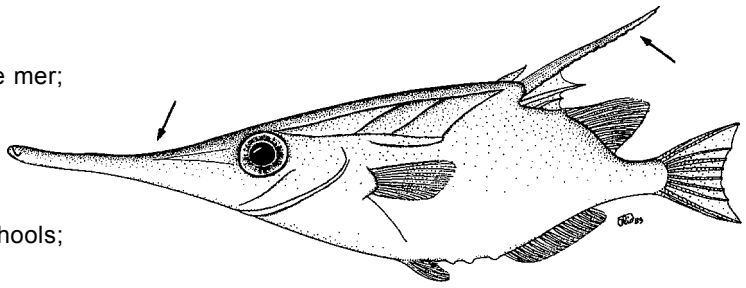
FAO names : **En** - Longspine snipefish; **Fr** - Bécasse de mer; **Sp** - Trompetero.

Size : 20 cm, common to 14 cm.

Fishing gear : bottom trawls.

Habitat : demersal to about 500 m depth; forms schools; juveniles in oceanic surface waters.

Loc.name(s) :



Coelorinchus coelorhincus (Risso, 1810)

MACROURIDAE

Synonyms : *Coelorhynchus coelorhynchus* (Risso, 1810); *Coelorhinchus lavilie* Risso, 1809.

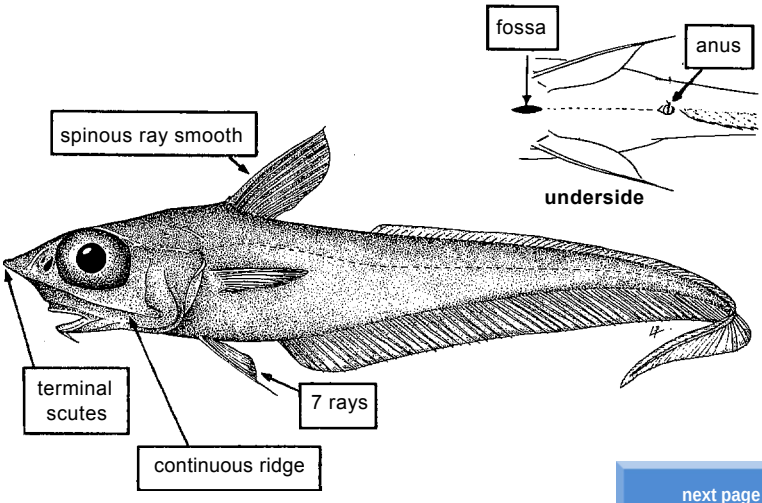
FAO names : **En** - Hollowsnout grenadier; **Fr** - Grenadier raton; **Sp** - Granadero acorazado (= Ratón).

Size : 38 cm, common to 30 cm.

Fishing gear : bottom trawls.

Habitat : from 140 to 630 m depth.

Loc.name(s) :



next page

BONY FISHES

MACROURIDAE

Malacocephalus laevis (Lowe, 1843)

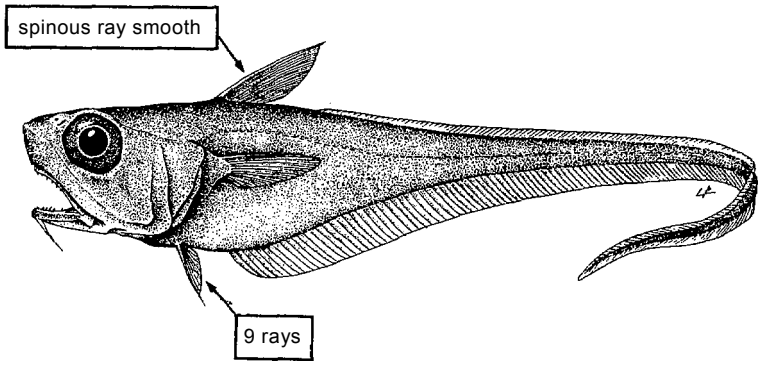
FAO names : **En** - Softhead grenadier; **Fr** - Grenadier barbu; **Sp** - Abámbolo de bajura.

Size : about 55 cm, common to 30 cm.

Fishing gear : bottom trawls.

Habitat : upper continental shelf from 250 to 750 m depth.

Loc.name(s) :



Malacocephalus occidentalis Goode & Bean, 1885

Synonyms : *Ventrifossa occidentalis* (Goode & Bean, 1885); *Macruoplus violaceus* (non Zugmayer, 1911).

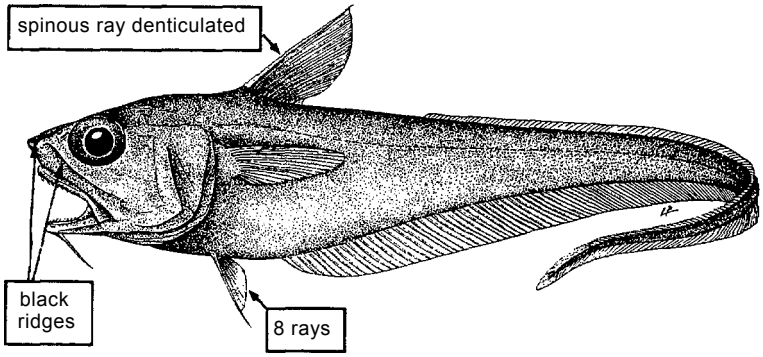
FAO names : **En** - Western softhead grenadier; **Fr** - Grenadier scie; **Sp** - Abámbolo.

Size : 45 cm, common to 30 cm.

Fishing gear : bottom trawls.

Habitat : warm to temperate waters on the continental slope, depth range from 140 to about 580 m.

Loc.name(s) :



Nezumia aequalis (Günther, 1878)

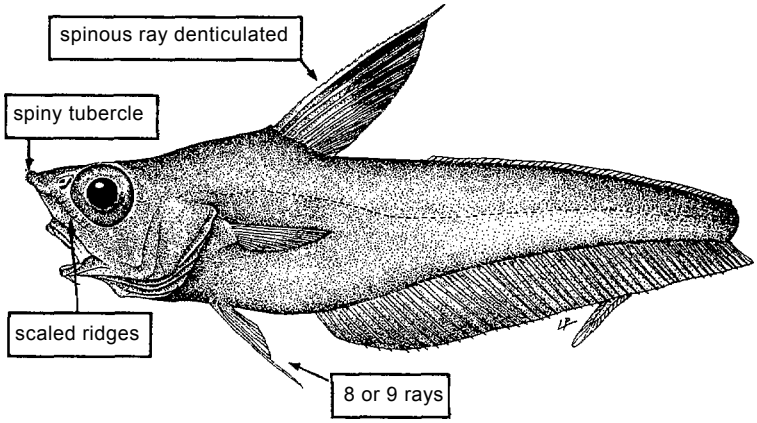
FAO names : **En** - Smooth grenadier; **Fr** - Grenadier lisse; **Sp** - Grenadero liso.

Size : 30 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : common at depths from 200 to 1000 m.

Loc.name(s) :



Tarpon atlanticus (Valenciennes, 1846)

MEGALOPIDAE

Synonyms : *Megalops atlanticus* Valenciennes, 1846.

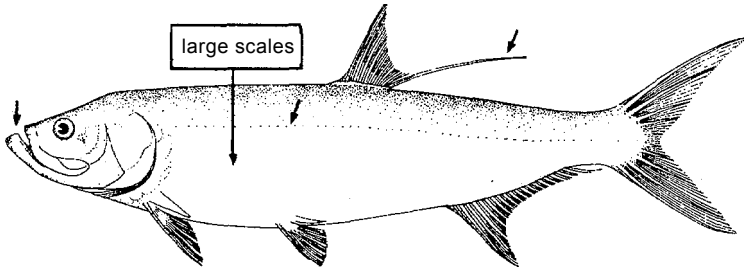
FAO names : **En** - Atlantic tarpon; **Fr** - Tarpon argenté; **Sp** - Tarpon.

Size : 250 cm, common to 130 cm.

Fishing gear : purse seines, beach seines, cast nets, hook-and-line.

Habitat : pelagic; the young are found in shallow brackish and fresh waters.

Loc.name(s) :



BONY FISHES

MERLUCCIIDAE

Merluccius polli Cadenat, 1950

Synonyms: ? *Merluccius cadenati* Doutre, 1960.

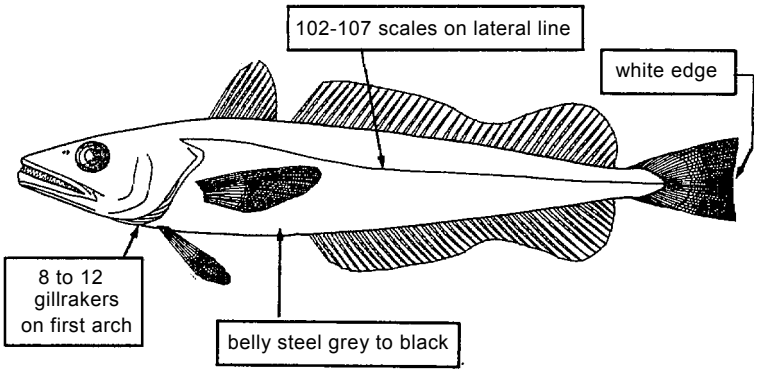
FAO names : **En** - Benguela hake; **Fr** - Merlu d'Afrique tropical; **Sp** - Merluza de Benguela.

Size : 90 cm, common to 65 cm.

Fishing gear : bottom trawls.

Habitat : demersal from 150 to 600 m depth.

Loc.name(s) :



MONODACTYLIDAE

Psettias sebae (Cuvier, 1831)

Synonyms : *Psettus sebae* (Cuvier, 1831).

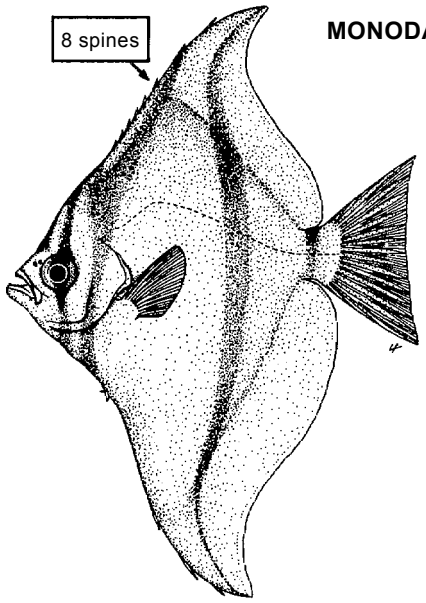
FAO names : **En** - African moony; **Fr** - Breton africain; **Sp** - Ramball.

Size : 25 cm, common to 15 cm.

Fishing gear : cast nets, set gillnets.

Habitat : mainly estuaries and mangroves.

Loc.name(s) :



(see Plate VII, 51)

MORIDAE

Antimora rostrata (Günther, 1878)

Synonyms : *Antimora australis* Barnard, 1925.

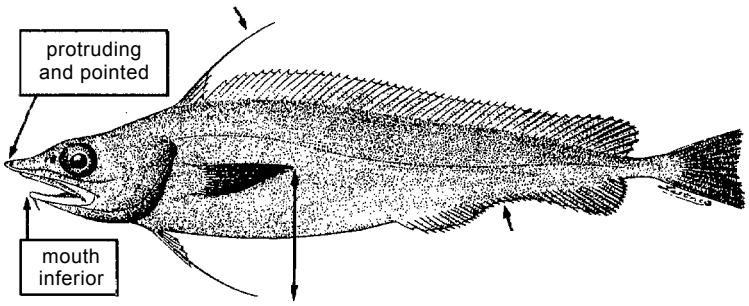
FAO names : **En** - Blue antimora; **Fr** - Antimore bleu; **Sp** - Mollera azul.

Size: at least 60 cm.

Fishing gear : trawls, deep-set bottom longlines.

Habitat : benthopelagic, from 350 to 3000 m depth.

Loc.name(s) :



Gadella imberbis (Vaillant, 1888)

Synonyms : *Brosmiculus imberbis* Vaillant, 1888.

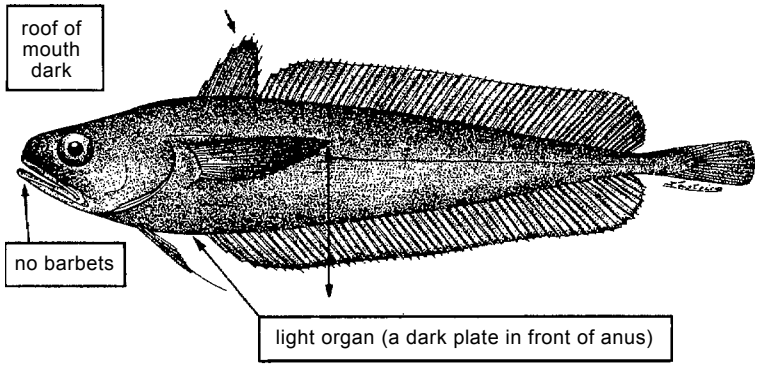
FAO names : **En** - Beardless codling; **Fr** - Gadelle imberbe; **Sp** - Gadela imberbe.

Size : 23 cm, common to 18 cm.

Fishing gear : as bycatch in deep-water shrimp trawls.

Habitat : benthopelagic, on the upper continental slope.

Loc.name(s) :



BONY FISHES

MORIDAE

Laemonema laureysi Poll, 1953

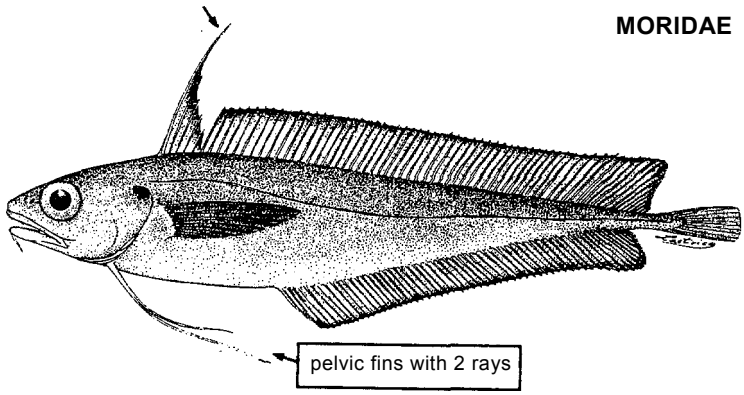
FAO names : **En** - Guinean codling; **Fr** - Lémonème de Guinée; **Sp** - Lemonema de Guinea.

Size : 30 cm.

Fishing gear : trawls.

Habitat : benthopelagic, from 220 to 550 m depth.

Loc.name(s) :



MUGILIDAE

Liza dumerilii (Steindachner, 1870)

Synonyms : *Mugil hoefleri* Steindachner, 1882; *Mugil canaliculatus* Smith, 1935.

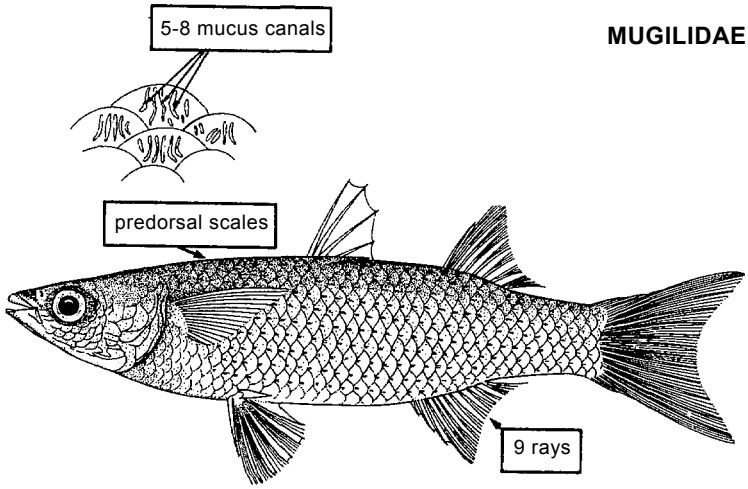
FAO names : **En** - Grooved mullet; **Fr** - Mulet bouri; **Sp** - Liza acanalada.

Size : 35 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, trammelnets, hook-and-line.

Habitat : coastal waters and estuaries.

Loc.name(s) :



Liza falcipinnis (Valenciennes, 1836)

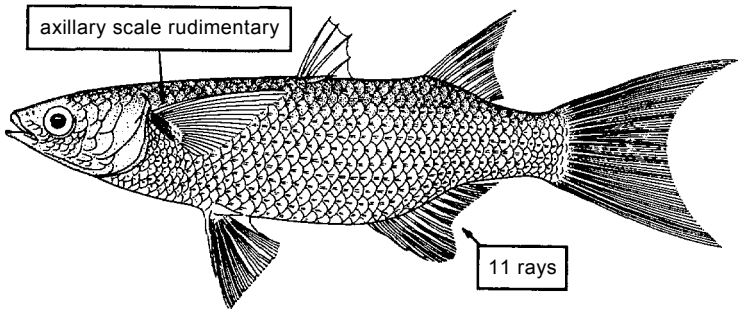
FAO names : **En** - Sicklefin mullet; **Fr** - Mulet à grandes nageoires; **Sp** - Liza aletona.

Size : to 35 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, trammel nets, lines.

Habitat : coastal marine and brackish waters.

Loc.name(s) :



Liza grandisquamis (Valenciennes, 1836)

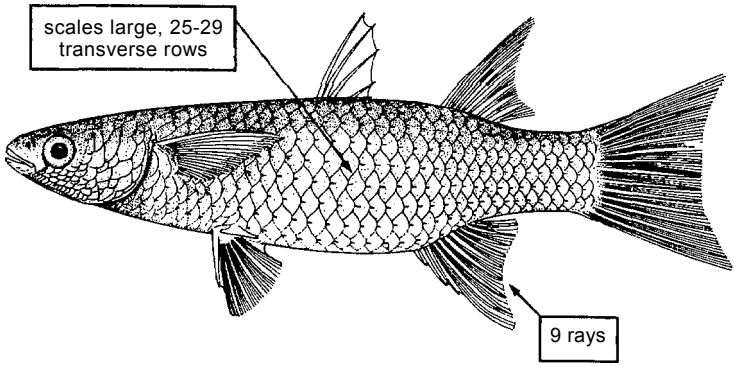
FAO names : **En** - Largescaled mullet; **Fr** - Mulet écailleux; **Sp** - Liza escamuda.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, trammelnets, hook-and-line.

Habitat : shallow coastal waters, estuaries and brackish lagoons, including mangroves.

Loc.name(s) :



Mugil bananensis (Pellegrin, 1928)

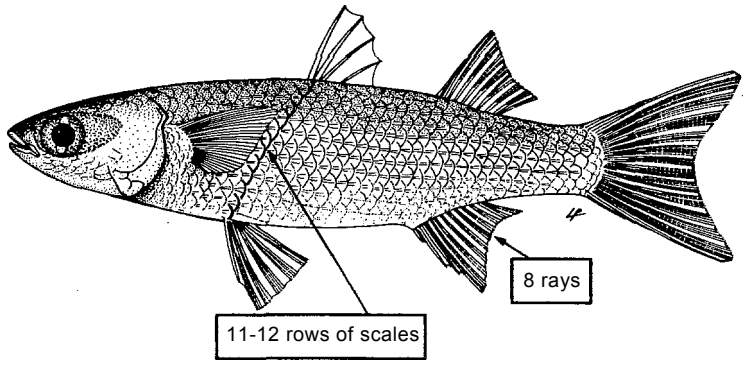
FAO names : **En** - Banana mullet; **Fr** - Mulet banane; **Sp** - Liza banana.

Size : about 40 cm, common to 30 cm.

Fishing gear : bottom trawls, beach seines, trammelnets, hook-and-line.

Habitat : coastal waters and estuaries.

Loc.name(s) :



Mugil cephalus Linnaeus, 1758

Synonyms : *Mugil ashanteensis* Bleeker, 1863.

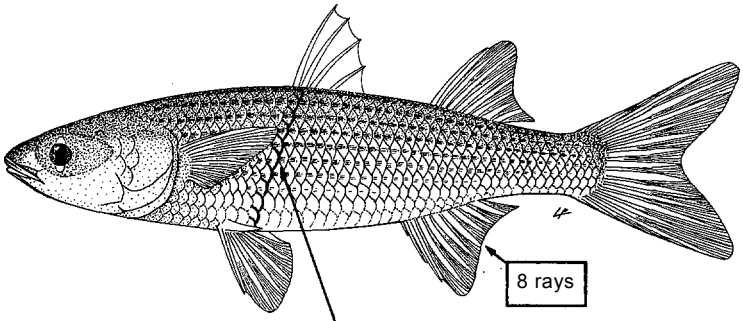
FAO names : **En** - Flathead grey mullet; **Fr** - Mulet cabot; **Sp** - Pardete.

Size : 120 cm, common to 50 cm.

Fishing gear : bottom trawls, beach seines, cast nets, hook-and-line.

Habitat : coastal waters, estuaries and lagoons.

Loc.name(s) :



(see Plate VII, 52)

Mugil curema Valenciennes, 1836

Synonyms : *Mugil brasiliensis* Günther, 1861 (non Spix); *Mugil metzelaari* Chabanaud, 1976.

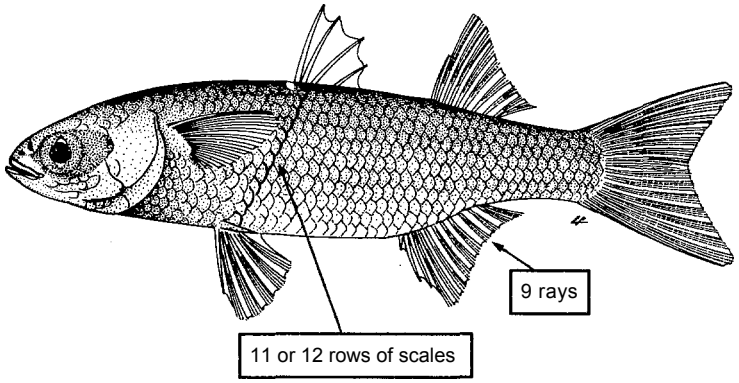
FAO names : **En** - Curema mullet; **Fr** - Mulet curème; **Sp** - Liza curema.

Size : 35 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, trammelnets.

Habitat : costal waters estuaries and lagoons.

Loc.name(s) :



Pseudupeneus prayensis (Cuvier, 1829)

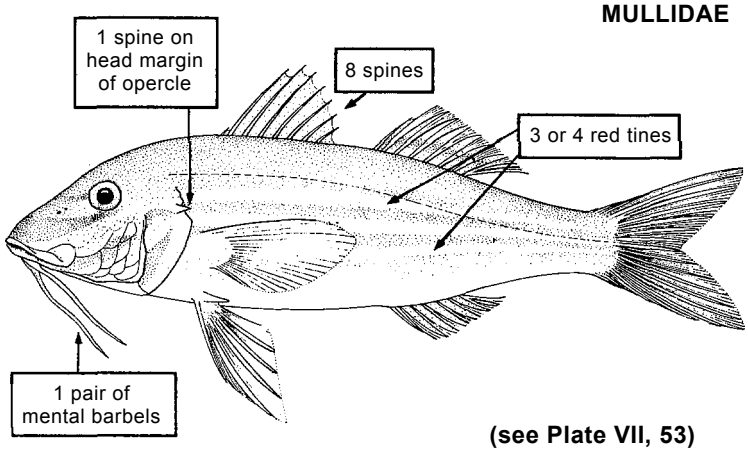
FAO names : **En** - West African goatfish; **Fr** - Rouget-barbet du Sénégal; **Sp** - Salmonete barbudo.

Size : 33 cm, common to 25 cm.

Fishing gear : bottom trawls, bottom set gillnets, hook-and-line.

Habitat : sandy and muddy bottoms from 1 to 60 m depth, most common between 20 and 45 m.

Loc.name(s) :



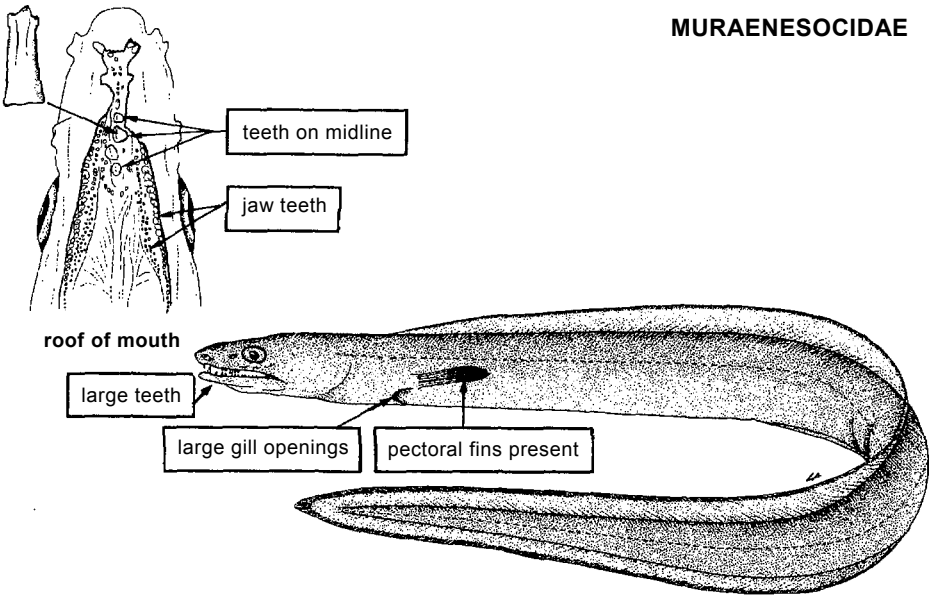
(see Plate VII, 53)

next page

BONY FISHES

MURAENESOCIDAE

Cynoponticus ferox Costa, 1846



Synonyms : *Muraenesox ferox* (Costa, 1846); *Phyllogramma regani* Pellegrin, 1934.

FAO names : **En** - Guinea pike conger; **Fr** - Murénésoce de Guinée; **Sp** - Murenocio de Guinea.

Size : 200 cm.

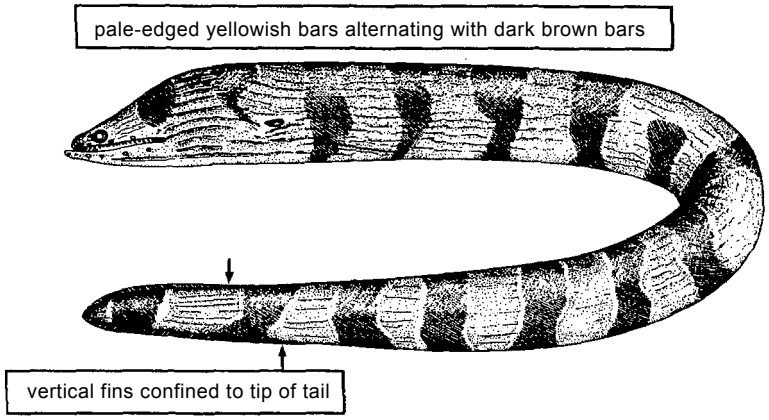
Fishing gear : bottom trawls, hook-and-line.

Habitat : sandy and muddy bottoms, from 10 to 100 m depth.

Loc. Name(s) :

MURAENIDAE

Channomuraena vittata (Richardson, 1844)



FAO names : **En** - Broadbanded moray; **Fr** - Murène anneau; **Sp** - Morena franjeada.

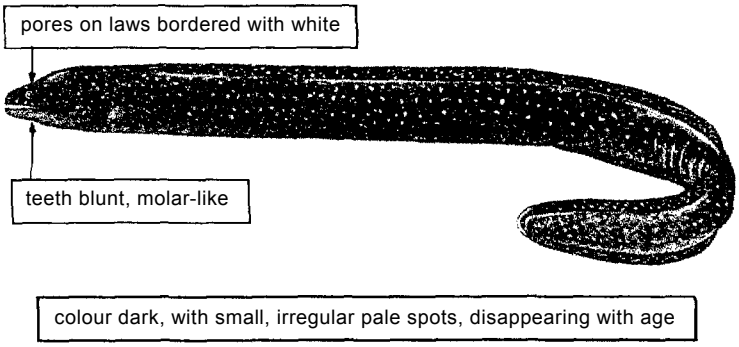
Size : 120 cm.

Fishing gear : hook-and-line, traps.

Habitat : an insular demersal species, to 40 m depth; not common.

Loc.name(s) :

Echidna peli (Kaup, 1856)



FAO names : **En** - Pebbletooth moray; **Fr** - Murène serpent; **Sp** - Moreneta.

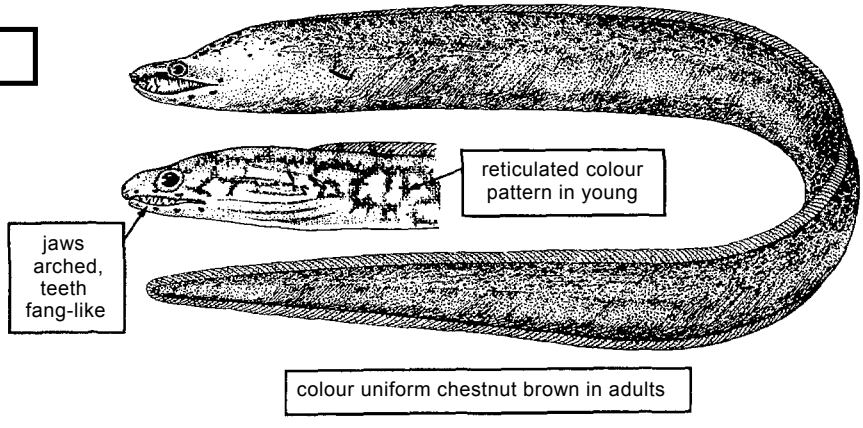
Size : 90 cm.

Fishing gear : bottom trawls, fish traps, hook-and-line.

Habitat : rocky bottoms in shallow waters.

Loc.name(s) :

Enchelycore nigricans (Bonnaterre, 1788)



FAO names : **En** - Viper moray; **Fr** - Murène noire; **Sp** - Morena negra.

Size : 100 cm.

Fishing gear : hook-and-line, traps.

Habitat : rocky and coralline bottoms to 12 m depth.

Loc.name(s) :

Gymnothorax maderensis (Johnson, 1862)

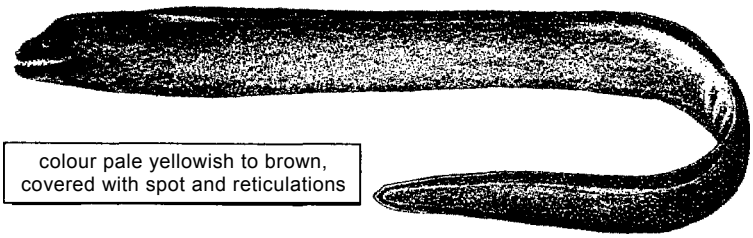
FAO names : **En** - Sharktooth moray; **Fr** - Murène de Madère; **Sp** - Morena de Madeira.

Size : 100 cm.

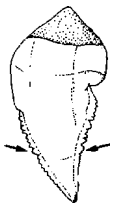
Fishing gear : hook-and-line, deep traps.

Habitat : deep waters around islands.

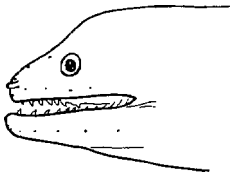
Loc.name(s) :



colour pale yellowish to brown, covered with spot and reticulations



upper tooth



shark-like serrated teeth

Lycodontis afer (Bloch, 1795)

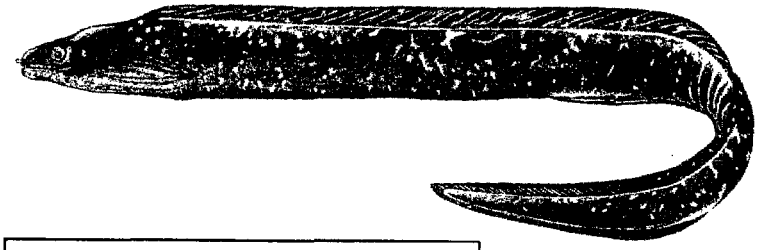
FAO names : **En** - Dark moray; **Fr** - Murène obscure; **Sp** - Morena oscura.

Size : 130 cm, common to 90 cm.

Fishing gear : bottom trawls, traps, hook-and-line.

Habitat : rocky bottoms from 10 to 45 m depth.

Loc.name(s) :



colour dark brown or greenish with irregular yellow spots and blotches; fins edges with black

---

Lycodontis mareei (Poll, 1953)

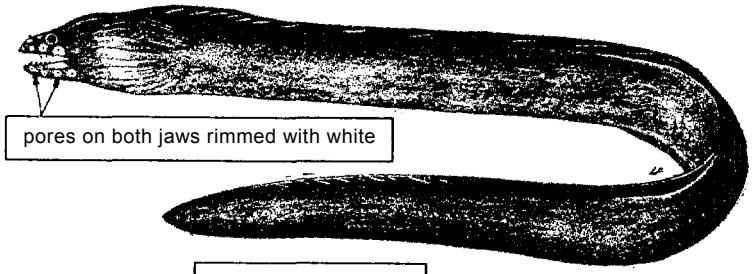
FAO names: **En** - Spotjaw moray; **Fr** - Murène cobra, **Sp** - Morena boca manchada.

Size : 40 cm.

Fishing gear : bottom trawls, traps, hook-and-line.

Habitat : in coastal waters between 15 and 25 m depth.

Loc.name(s) :



pores on both jaws rimmed with white

colour uniform brown

Lycodontis vicinus (Castelnau, 1855)

Synonyms : *Gymnothorax vicinus* (Castelnau, 1855)

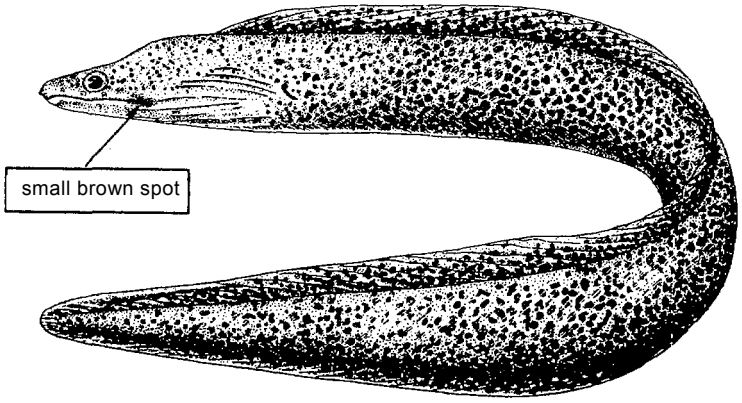
FAO names : **En** - Purplemouth moray; **Fr** - Murène jaune; **Sp** - Morena amarilla.

Size : 122 cm.

Fishing gear : bottom trawls, hook-and-line, fish traps and other artisanal fishing gear.

Habitat : rocky bottoms and coral reefs, also on vegetated grounds to 40 m depth.

Loc.name(s) :



small brown spot

2 types of coloration: one with distinct marbling, the other almost uniform brown with small dark specks

BONY FISHES

MURAENIDAE

Muraena helena Linnaeus, 1758

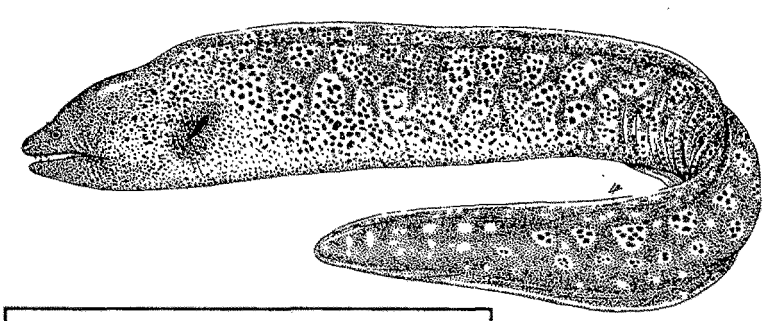
FAO names : **En** - Mediterranean moray; **Fr** - Murène de Méditerranée; **Sp** - Morena mediterránea.

Size : 130 cm.

Fishing gear : hook-and-line, traps.

Habitat : rocky bottoms from 15 to 50 m depth.

Loc.name(s) :



(see Plate VII, 54)

Muraena melanotis (Kaup, 1859)

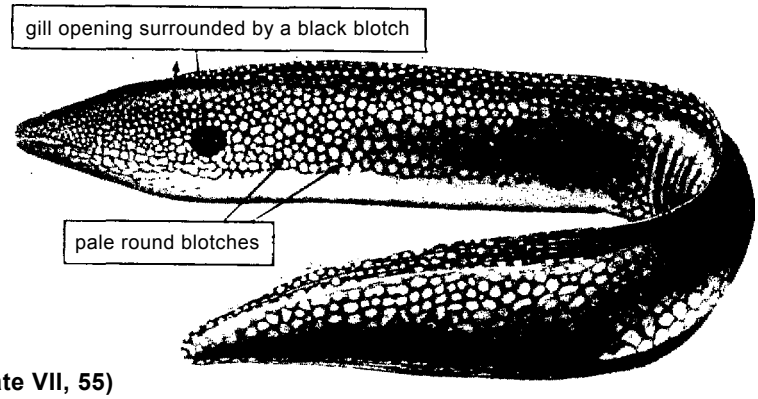
FAO names : **En** - Honeycomb moray; **Fr** - Murène à pois; **Sp** - Morena de lunares.

Size : 80 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : rocky bottoms from the coastline to 45 m depth.

Loc.name(s) :



(see Plate VII, 55)

Muraena robusta Osorio, 1909

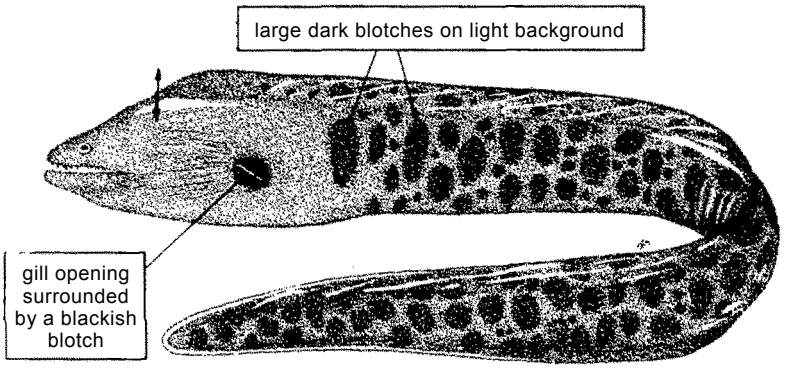
FAO names : **En** - Stout moray; **Fr** - Murène robuste; **Sp** - Morena robusta.

Size : 140 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : rocky bottoms from the coastline to 45 m depth.

Loc.name(s) :



(see Plate VIII, 56)

OPHICHTHIDAE

Echelus myrus (Linnaeus, 1758)

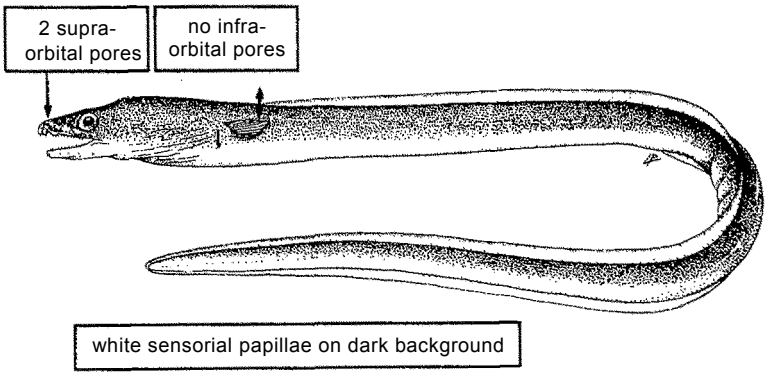
FAO names : **En** - Painted eel; **Fr** - Serpenton miro; **Sp** -Tieso miro.

Size : at least 80 cm.

Fishing gear : hook-and-line.

Habitat : taken occasionally on muddy and sandy bottoms in estuaries and coastal lagoons from 3 to 12 m depth; buries in sand with only the head protruding.

Loc.name(s) :



Echiophis creutzbergi (Cadenat, 1956)

Synonyms : *Mystriophis creutzbergi* Cadenat, 1956.

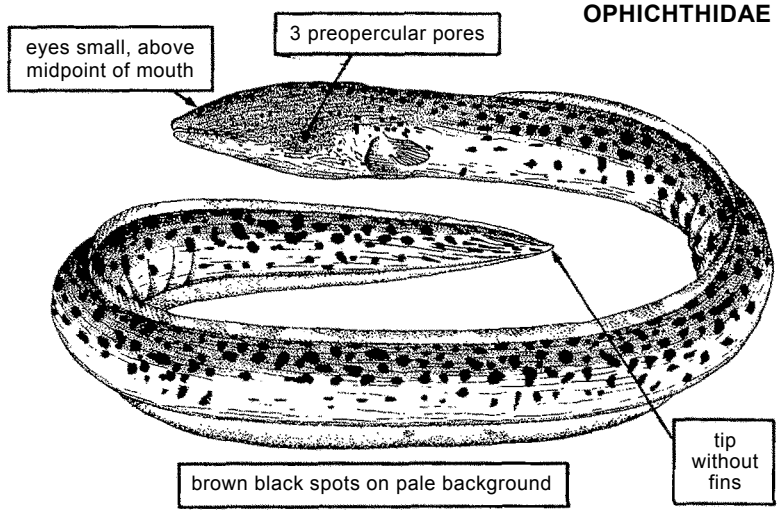
FAO names : **En** - Spoon-nose eel; **Fr** - Serpenton tiyeux; **Sp** - Tieso culebrón.

Size : 170 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : littoral and coastal waters and lagoons, to 40 m depth.

Loc.name(s) :



Myrichthys pardalis (Valenciennes, 1835)

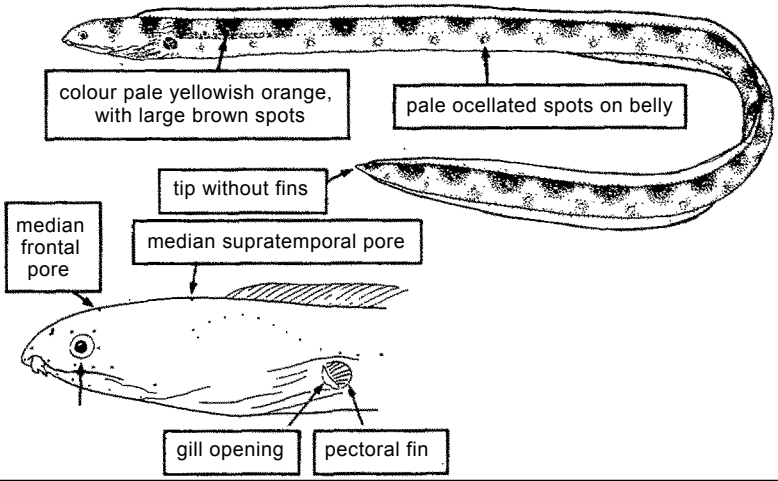
FAO names : **En** - Leopard eel; **Fr** - Serpenton leopardo; **Sp** - Tieso leopardo.

Size : 65 cm.

Fishing gear : trawls, traps.

Habitat : deep waters on rocky and muddy bottoms.

Loc.name(s) :



Mystriophis rostellatus (Richardson, 1844)

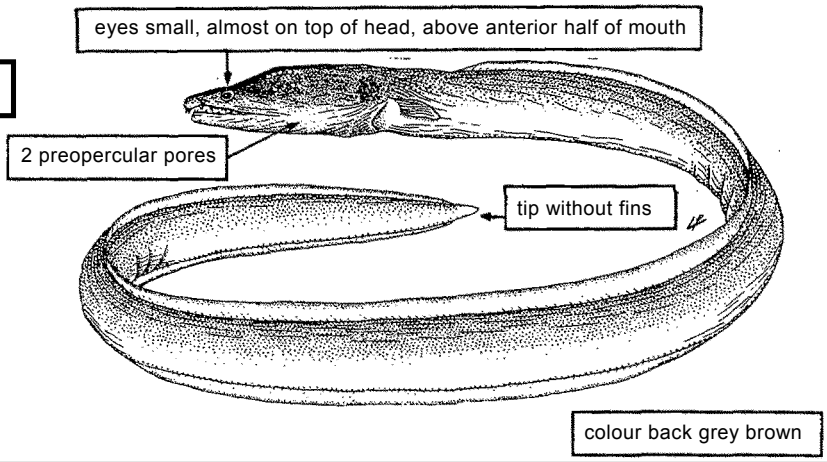
FAO names : **En** - African spoon-nose eel; **Fr** - Serpenton gris; **Sp** - Tieso gris.

Size : 140 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : lagoons and coastal waters to 40 m depth.

Loc.name(s) :



Ophichthus ophis Linnaeus, 1758

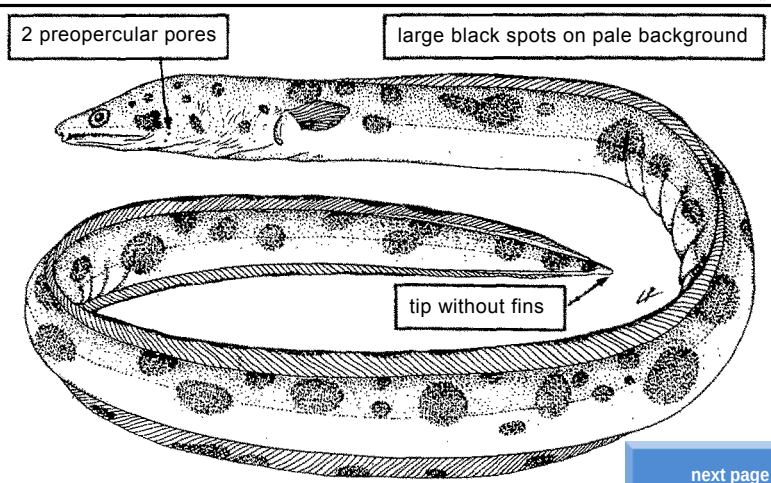
FAO names : **En** - Spotted snake eel; **Fr** - Serpenton tacheté; **Sp** - Tieso pintado.

Size : 140 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : coastal waters to 50 m depth.

Loc.name(s) :

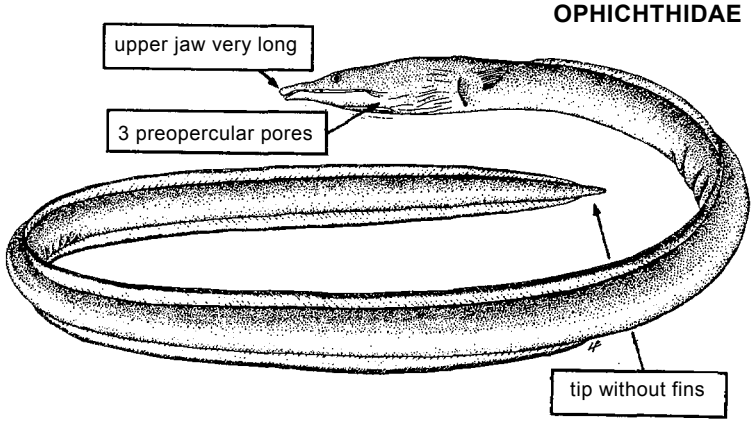


next page

BONY FISHES

OPHICHTHIDAE

Ophisurus serpens (Linnaeus, 1758)



FAO names : **En** - Serpent eel; **Fr** - Serpenton à nez long; **Sp** - Tieso trompudo.

Size : at least 245 cm.

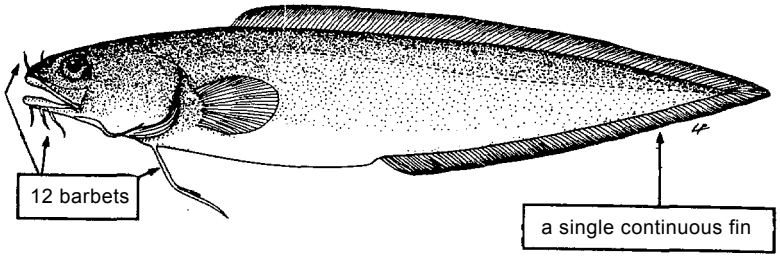
Fishing gear : bottom trawls, hook-and-line.

Habitat : buries in sand, to 300 m depth.

Loc.name(s) :

OPHIDIIDAE

Brotula barbata (Bloch in Bloch & Schneider, 1801)



FAO names : **En** - Bearded brotula; **Fr** - Brotule barbé; **Sp** - Brótula de barbas.

Size : at least 75 cm, common to 60 cm.

Fishing gear : bottom trawls.

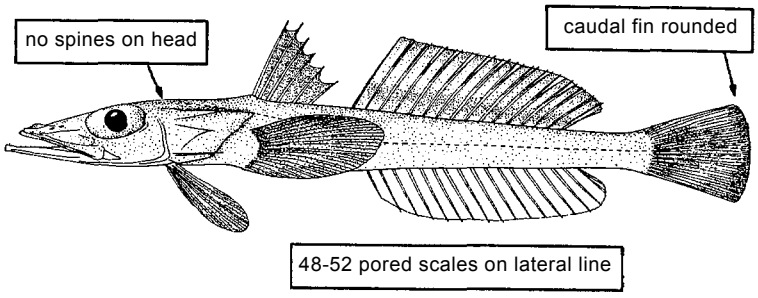
Habitat : adults living on sandy and muddy bottoms of the continental shelf, down to at least 650 m depth.

Loc.name(s) :

(see Plate VIII, 57)

PERCOPHIDAE

Bembrops greyi Poll, 1959



FAO names : **En** - Roundtail duckbill; **Fr** - Platête de Guinée; **Sp** - Pez palo guineano.

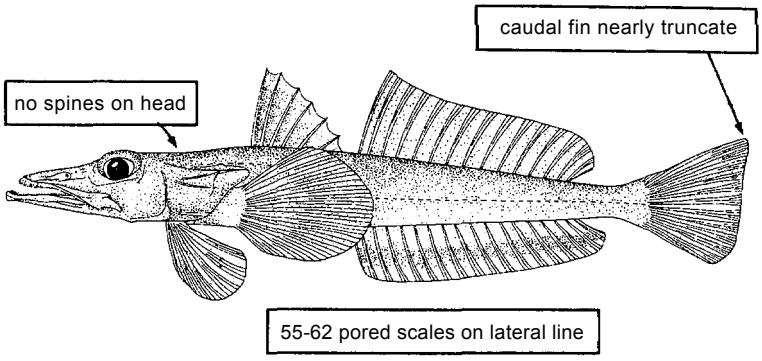
Size : about 23 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : soft bottoms of the continental shelf from 250 to 420 m depth.

Loc.name(s) :

Bembrops heterurus (Miranda Ri beiro, 1915)



FAO names : En - Squaretail duckbill; Fr - Platête commun; Sp - Pez paio común.

Size : 28 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : soft bottoms, from 100 to 390 m depth.

Loc.name(s) :

PLATYCEPHALIDAE

Grammoplites gruveli (Pellegrin, 1905)

Synonyms : *Platycephalus gruveli* Pellegrin, 1905.

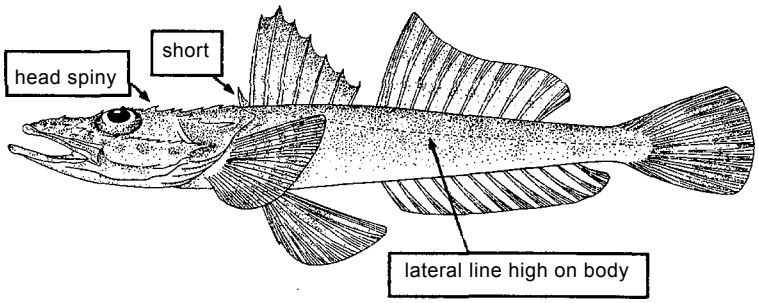
FAO names : **En** - Guinea flathead; **Fr** - Platycéphale de Guinée; **Sp** - Chato de Guinea.

Size : 20 cm, common to 18 cm.

Fishing gear : bottom trawls.

Habitat : soft bottoms, from 20 to 200 m depth.

Loc.name(s) :



POLYNEMIDAE

Galeoides decadactylus (Bloch, 1795)

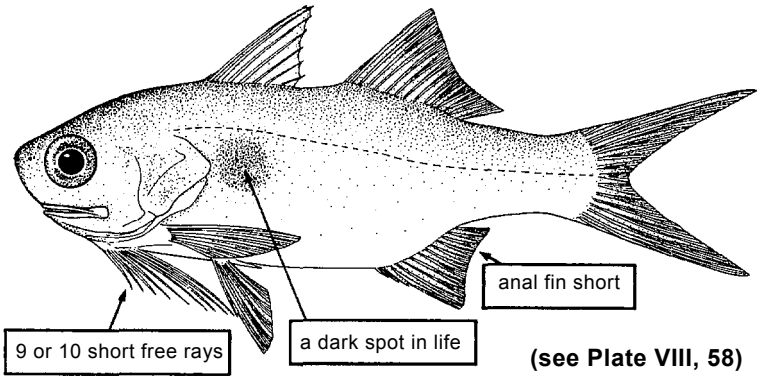
FAO names : **En** - Lasser African threadfin; **Fr** - Petit capitaine; **Sp** - Barbudo de diez barbas.

Size : 45 cm, common to 30 cm.

Fishing gear : bottom trawls, beach seines, gillnets.

Habitat : sandy and muddy bottoms in shallow coastal waters; also in estuaries.

Loc.name(s) :



(see Plate VIII, 58)

Pentanemus quinquarius (Linnaeus, 1758)

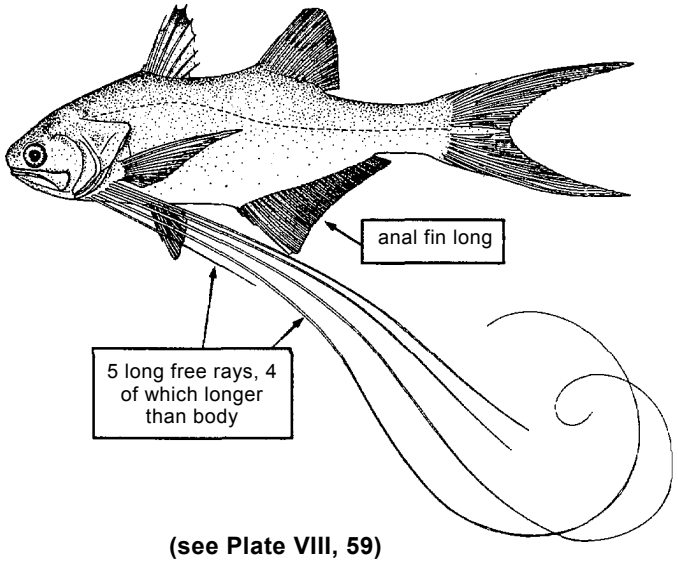
FAO names : **En** - Royal threadfin; **Fr** - Capitaine royal; **Sp** - Barbudo real.

Size : 35 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, gillnets.

Habitat : sandy and muddy bottoms to 50 m depth.

Loc.name(s) :



(see Plate VIII, 59)

Polydactylus quadrifilis (Cuvier, 1829)

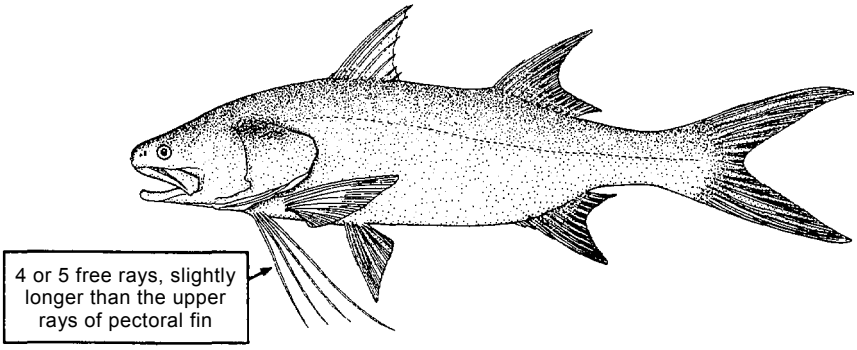
FAO names : **En** - Giant African threadfin; **Fr** - Gros capitaine; **Sp** - Barbudo gigante africano.

Size : 100 cm, common to 80 cm.

Fishing gear : bottom trawls, beach seines, gillnets.

Habitat : sandy bottoms to 50 m depth; also in estuaries.

Loc.name(s) :



POMACANTHIDAE

Pomacanthus paru (Bloch, 1787)

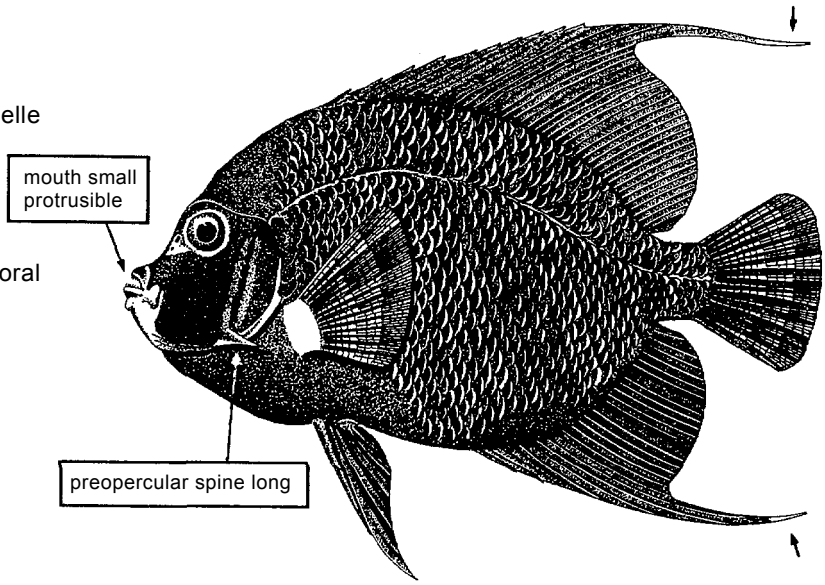
FAO names : **En** - French angelfish; **Fr** - Demoiselle chiririte; **Sp** - Cachama negra.

Size : common to 30 cm.

Fishing gear : trawls.

Habitat : coastal waters, to 40 m depth, on coral reefs.

Loc.name(s) :



Pomatomus saltatrix (Linnaeus, 1766)

POMATOMIDAE

Synonyms : *Pomatomus saltator* (Linnaeus, 1766); *Temnodon saltator* [Valenciennes, 1833].

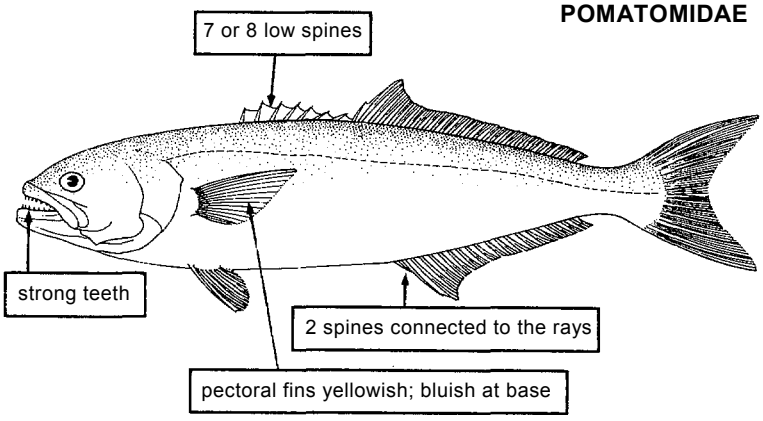
FAO names : **En** - Bluefish; **Fr** - Tassergal; **Sp** - Anchova de banco.

Size : 100 cm, common to 40 cm.

Fishing gear : purse seines, set gillnets, lines.

Habitat : pelagic in oceanic and coastal waters.

Loc.name(s) :



(see Plate VIII, 60)

PRIACANTHIDAE

Heteropriacanthus cruenatus (Lacepède, 1802)

Synonyms : *Priacanthus cruentatus* (Lacepède, 1802)

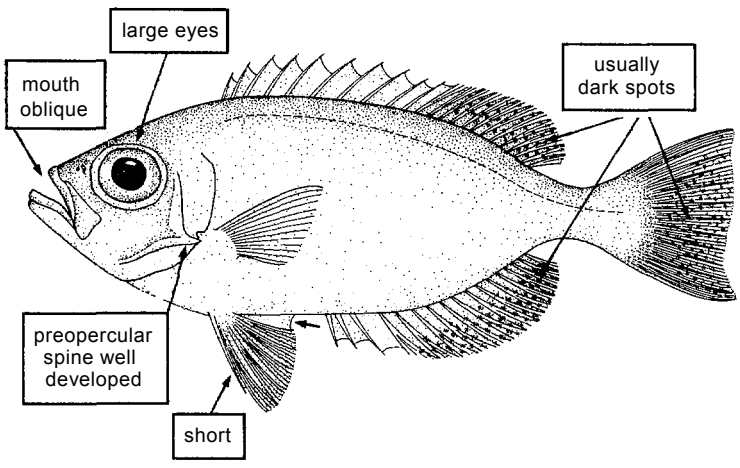
FAO names : **En** - Glasseye; **Fr** - Beauclaire de roche ; **Sp** - Catalufa de roca .

Size : 30 cm, common to 20 cm.

Fishing gear : bottom trawls, traps, hook-and-line.

Habitat : coral reefs and rocky bottoms, in shallow waters, but also recorded from greater depths, to 300 m; solitary and nocturnal.

Loc.name(s) :



next page

BONY FISHES

PRIACANTHIDAE

Priacanthus arenatus Cuvier, 1829

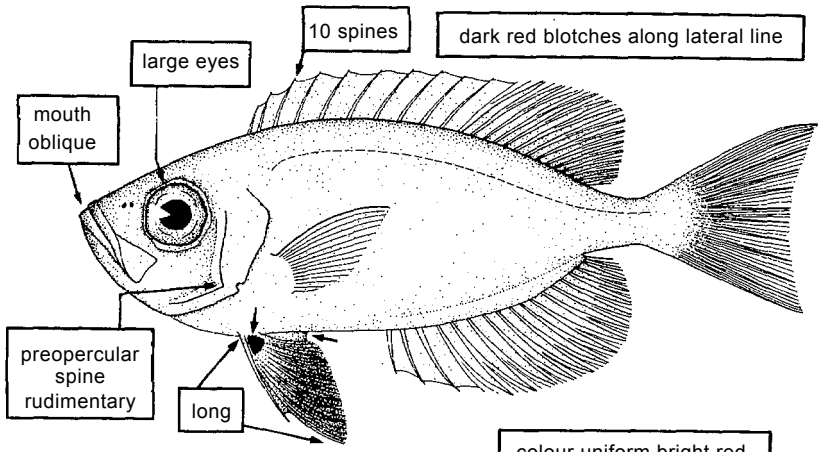
FAO names : **En** - Atlantic bigeye; **Fr** - Beauclaire soleil; **Sp** - Catalufa toro.

Size : 40 cm, common to 30 m.

Fishing gear : bottom trawls, set nets, traps, hook-and-line.

Habitat : rocky bottoms from 2 to 100 m depth. Found more commonly in winter; mainly active at night.

Loc.name(s) :



(see Plate VIII, 61)

PSETTODIDAE

Psettodes belcheri Bennett, 1831

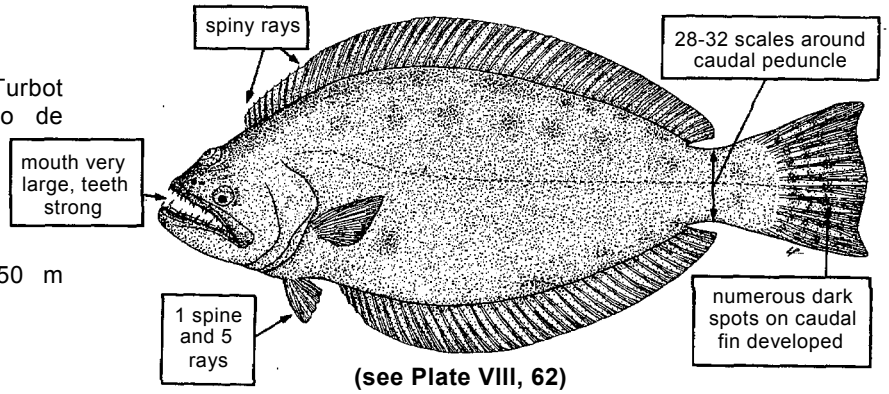
FAO names : **En** - Spottail spiny turbot; **Fr** - Turbot épineux tacheté; **Sp** - Lenguado espinudo de altura.

Size : 50 cm, common to 40 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : sandy and rocky bottoms to 150 m depths; also in estuaries.

Loc.name(s) :



(see Plate VIII, 62)

RACHYCENTRIDAE

Rachycentron canadum (Linnaeus, 1766)

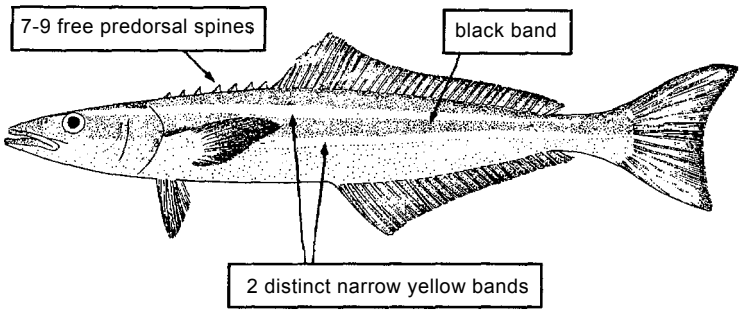
FAO names : En - Cobia; **Fr** - Mafou; **Sp** - Cobia.

Size : 200 cm, common to 100 cm.

Fishing gear : bottom trawls, handlines, longlines, set gillnets.

Habitat : mainly pelagic, also found in shallow coral reef areas.

Loc.name(s) :



SCARIDAE

Nicholsina usta (Valenciennes, 1839)

FAO names : **En** - Emerald parrotfish; **Fr** - Perroquet émeraude; **Sp** - Loro jabonero.

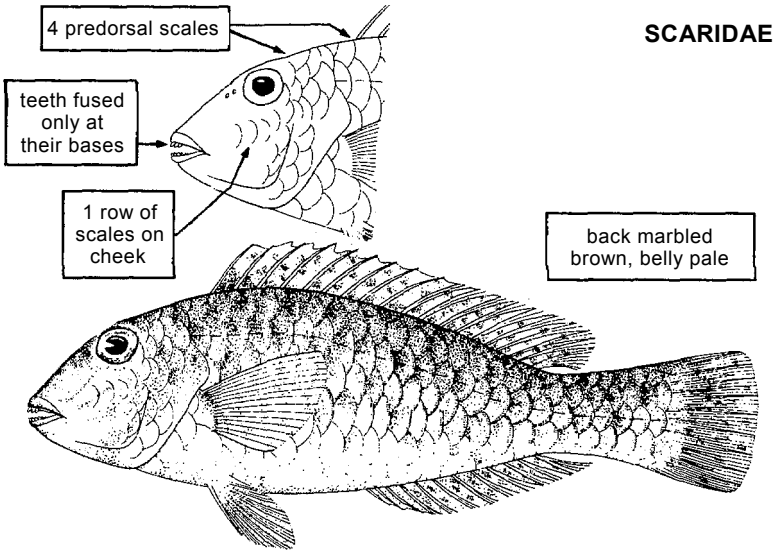
Size : 28 cm, common to 18 cm.

Fishing gear : trawls, gillnets.

Habitat : vegetated bottoms, from 20 to 50 m depth.

Remarks : specimens from the Gulf of Guinea belong to the subspecies collettei Schultz, 1968.

Loc.name(s) :



Scarus hoefleri (Steindachner, 1882)

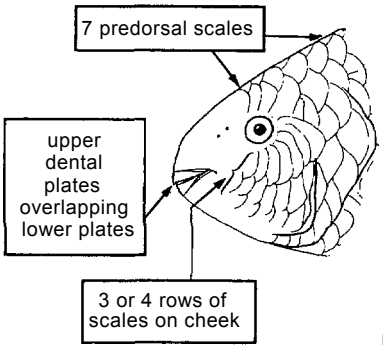
FAO names : **En** - Guinean parrotfish; **Fr** - Perroquet de Guinée; **Sp** - Loro de Guinea.

Size : 60 cm, common to 40 cm.

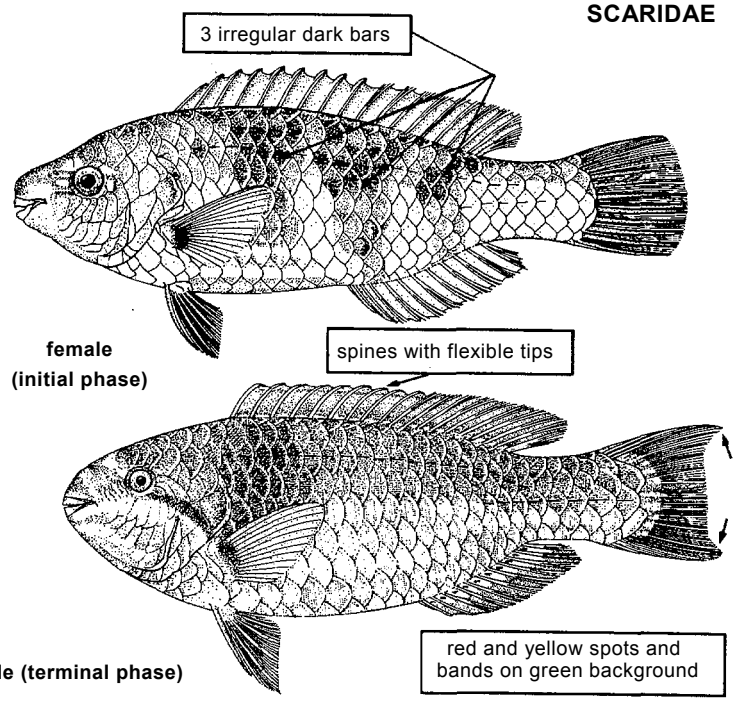
Fishing gear : bottom set gillnets, bottom trawls, traps, driftnets.

Habitat : rocky bottoms in shallow coastal waters.

Loc.name(s) :



(see Plate VIII, 63)



Sparisoma cretense (Linnaeus, 1758)

Synonyms : *Euscarius cretensis* (Linnaeus, 1758).

FAO names : **En** - Parrotfish; **Fr** - Perroquet vieillard; **Sp** - Loro viejo.

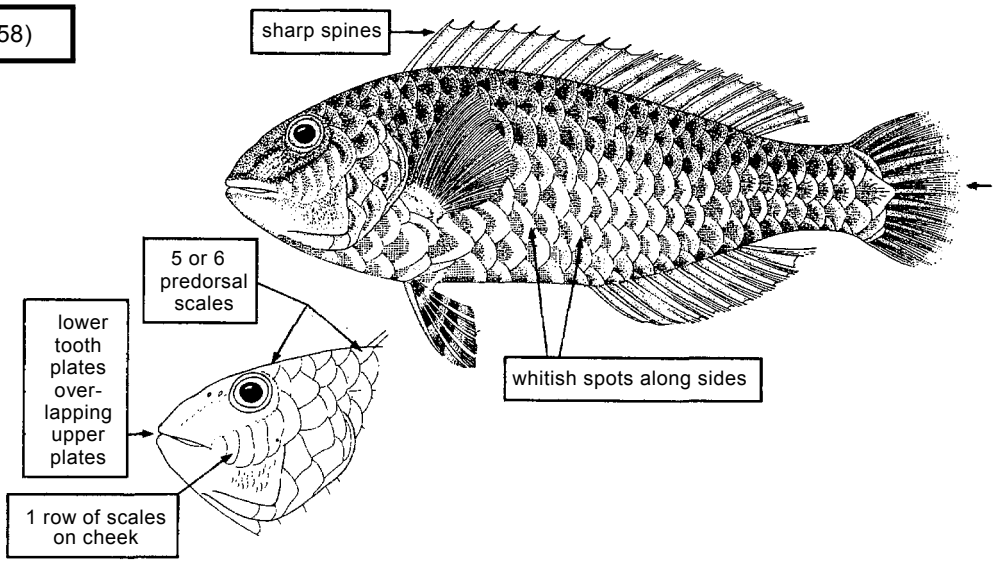
Size : 50 cm, common to 30 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : shallow waters off rocky shores.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Sparisoma rubripinne (Valenciennes, 1839)

Synonyms : *Sparisoma flavescens* [Cadenat, 1950].

FAO names : **En** - Redfin parrotfish; **Fr** - Perroquet basto; **Sp** - Loro basto.

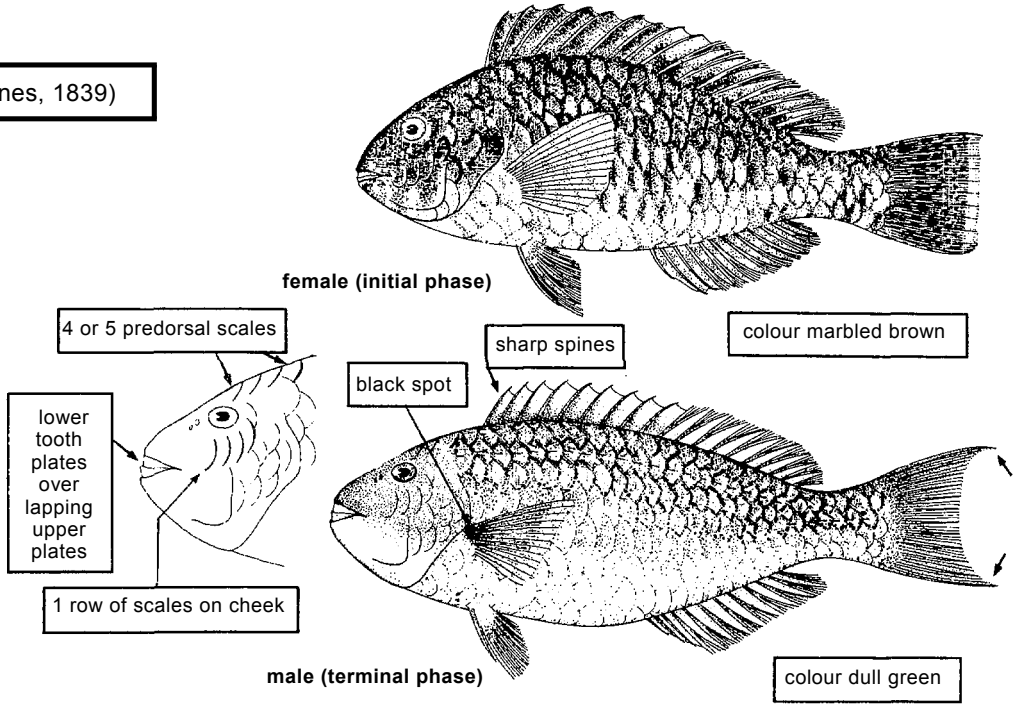
Size : 45 cm, common to 30 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : a coastal species found in coral reefs and on rocky bottoms.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Argyrosomus hololepidotus (Lacepède, 1802)

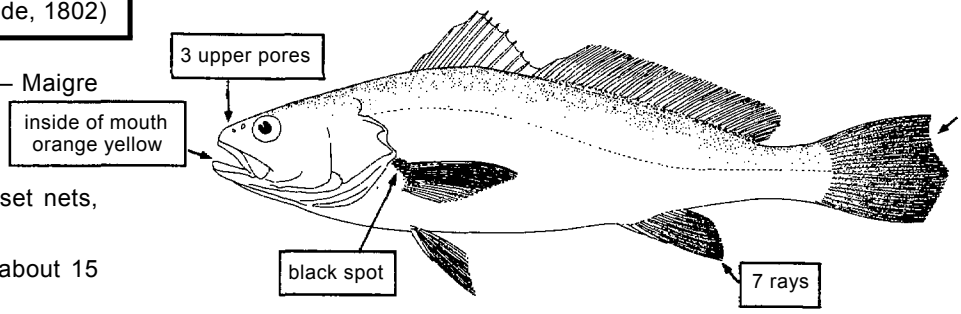
FAO names : **En** - Southern meagre; **Fr** – Maigre africain; **Sp** - Corvina africana.

Size : 200 cm, common to 50 cm.

Fishing gear : bottom trawls, longlines, set nets, beach seines, ringnets.

Habitat : found on muddy bottoms from about 15 to 150 m depth.

Loc.name(s) :



Argyrosomus regius (Asso, 1801)

Synonyms : *Sciaena aquila* (Lacepède, 1803); *Argyrosomus regium* (Asso, 1801).

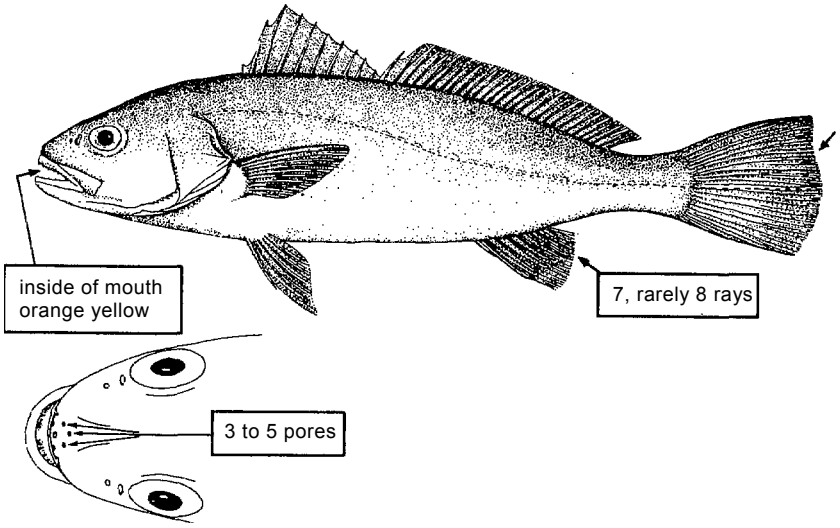
FAO names : **En** - Meagre; **Fr** - Maigre commun; **Sp** - Corvina.

Size : at least 150 cm, common to 100 cm.

Fishing gear : bottom trawls, purse seines, line gear.

Habitat : demersal, from 15 to 300 m depth; also found in estuaries.

Loc.name(s) :



Atractoscion aequidens (Cuvier, 1830)

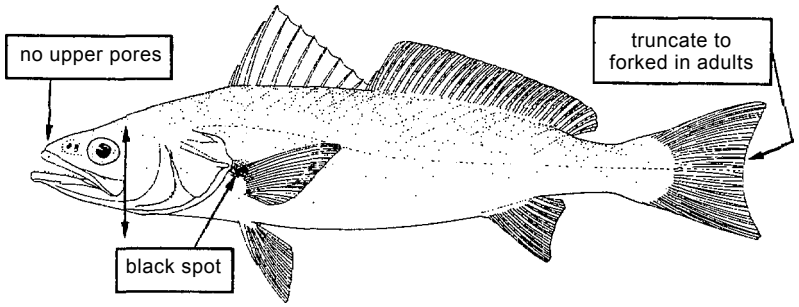
FAO names : **En** - African weakfish; **Fr** - Teraglin; **Sp** - Corvinata prieta.

Size : 120 cm, common to 50 cm.

Fishing gear : bottom trawls, longlines.

Habitat : on mud and sandy mud bottoms from about 15 to 200 m depth.

Loc.name(s) :



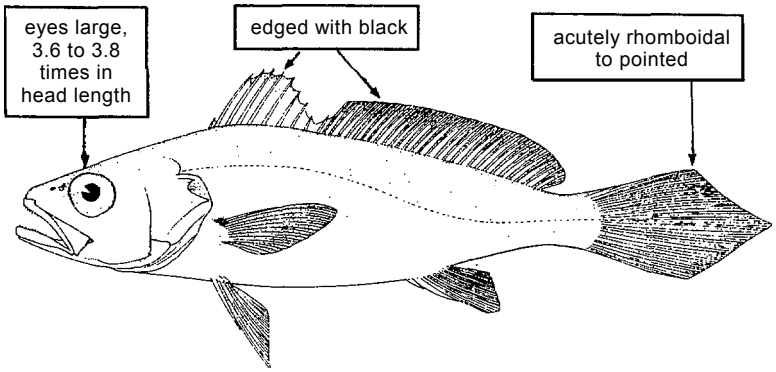
Miracorvina angolensis (Norman, 1935)

FAO names : **En** - Angola croaker; **Fr** - Courbine de l'Angola; **Sp** - Corvina de Angola.

Size : 75 cm, common to 40 cm.
Fishing gear : bottom trawls.

Habitat : on sandy and rocky bottoms from 50 to at least 300 m depth; apparently not abundant.

Loc.name(s) :



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Pentheroscion mbizi (Poll, 1950)

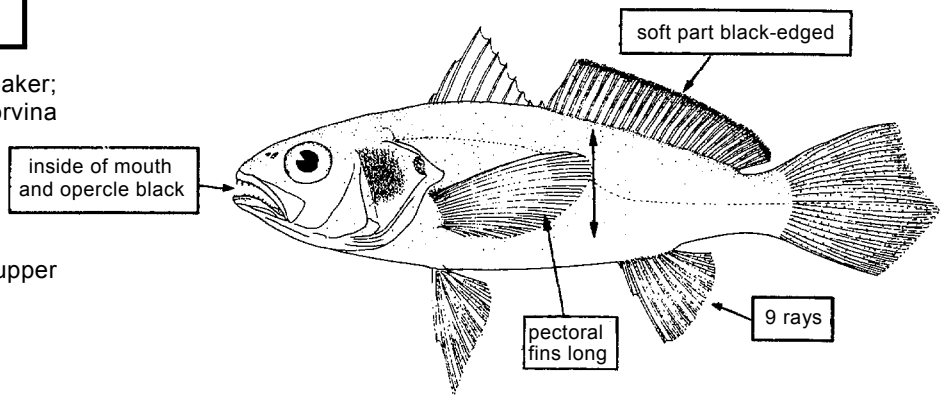
FAO names : **En** - Blackmouth croaker; **Fr** - Courbine à bouche noire; **Sp** – Corvina bocanegra.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : continental shelf and upper slope, from 50 to at least 350 m depth.

Loc.name(s) :



Pseudotolithus (Pseudotolithus) brachygnathus Bleeker, 1863

FAO names : **En** - Law croaker; **Fr** - Otolithe gabo; **Sp** - Corvina reina.

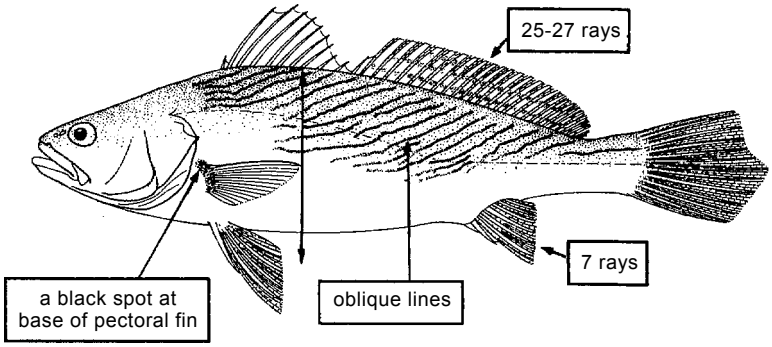
Size : 230 cm, common to 85 cm.

Fishing gear : bottom trawls, bottom set nets, line gear.

Habitat : on sandy and muddy bottoms to-about 75 m depth; also in estuaries.

Remarks : often confused with *Pseudotolithus Senegalensis*.

Loc.name(s) :



Pseudotolithus (Fonticulus) elongatus (Bowdich, 1825)

(see Plate IX, 64)

Synonyms : Corvina nigrita Cuvier, 1830.

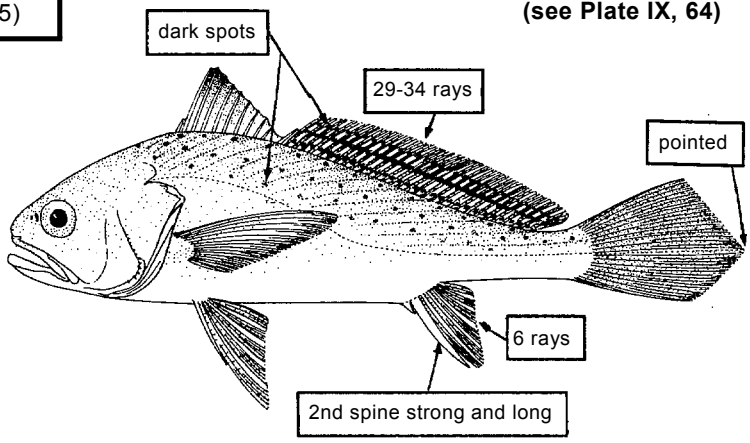
FAO names : **En** - Bobo croaker; **Fr** - Otolithe bobo; **Sp** - Corvina bobó.

Size : 45 cm, common to 30 cm.

Fishing gear : bottom trawls, set nets, beach seines, line gear.

Habitat : found in brackish waters and estuaries.

Loc.name(s) :



Pseudotolithus (Pinnacorvina) epipercus Bleeker, 1863

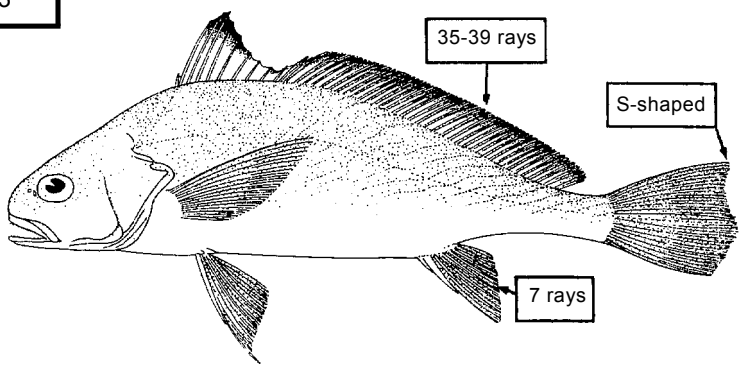
FAO names : **En** - Guinea croaker; **Fr** - Otolithe guinèen; **Sp** - Corvina de Guinea.

Size : 60 cm, common to 35 cm.

Fishing gear : bottom trawls, line gear.

Habitat : muddy bottoms, from the coastline to about 70 m depth.

Loc.name(s) :



Pseudotolithus (Hostia) moorii (Günther, 1865)

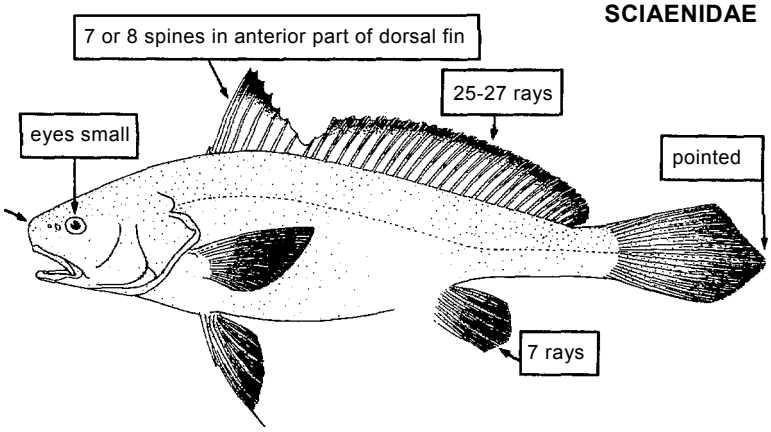
FAO names : **En** - Cameroon croaker; **Fr** - Otolithe camerouonais; **Sp** - Corvina de Camerún.

Size : 50 cm, common to 25 cm.

Fishing gear : bottom trawls, line gear.

Habitat : muddy bottoms from about 15 to 70 m depth.

Loc.name(s) :



Pseudotolithus (Pseudotolithus) senegalensis (Valenciennes, 1833)

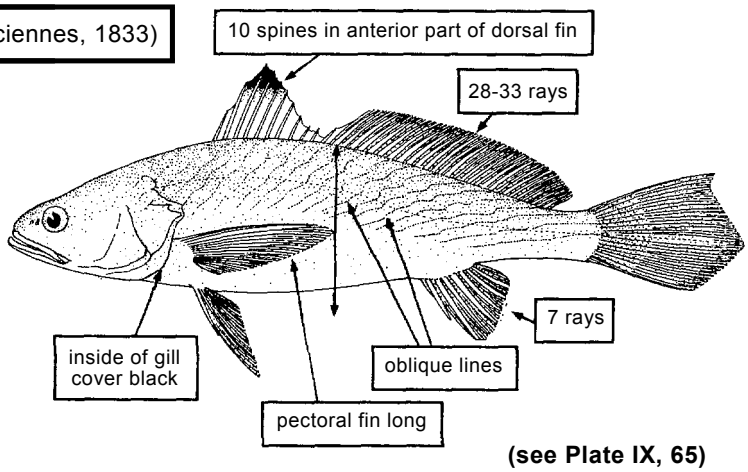
FAO names : **En** - Cassava croaker; **Fr** - Otolithe sénégalais; **Sp** - Corvina casava.

Size : 100 cm, common to 50 cm.

Fishing gear : bottom trawls, set nets, seines, line gear.

Habitat : in shallow waters, on muddy, sandy or rocky bottoms.

Loc.name(s) :



(see Plate IX, 65)

Pseudotolithus (Pseudotolithus) typus Bleeker, 1863

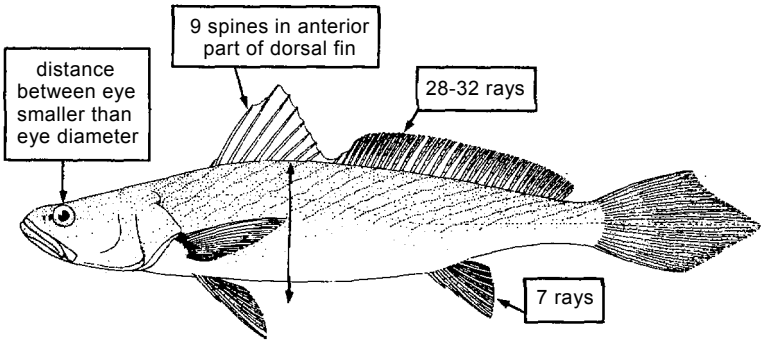
FAO names : **En** - Longneck croaker; **Fr** - Otolithe nanka; **Sp** - Corvina bosoro.

Size : 100 cm, common to 70 cm.

Fishing gear :

Habitat : muddy and sandy bottoms, to about 150 m depth; often found in estuaries.

Loc.name(s) :



(see Plate IX, 66)

easily distinguished from *P. senegalensis* by its more elongated body and more slender, slightly upturned head

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Pteroscion peli (Bleeker, 1863)

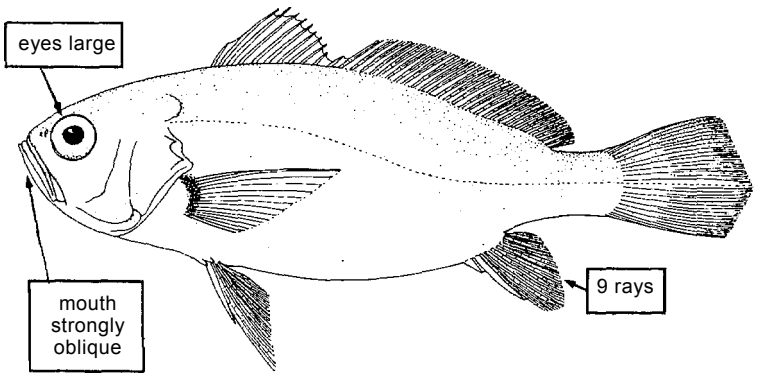
FAO names : **En** - Boe drum; **Fr** - Courbine pélin; **Sp** - Bombache boé.

Size : 35 cm, common to 18 cm.

Fishing gear : bottom trawls, bottom set nets, line gear.

Habitat : coastal waters to about 200 m depth, but more common between 30 and 60 m.

Loc.name(s) :



SCIAENIDAE

Sciaena umbra Linnaeus, 1758

FAO names : **En** - Brown meagre; **Fr** - Corb commun; **Sp** - Corvallo.

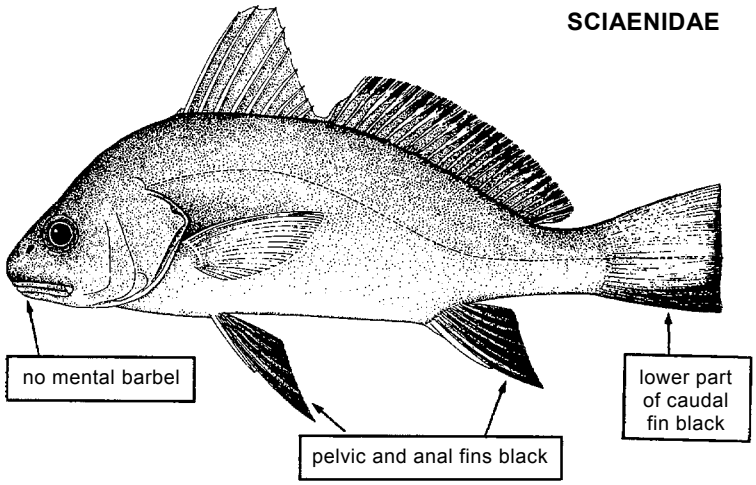
Size : 50 cm, common to 35 cm.

Fishing gear : bottom trawls, gillnets, beach seines.

Habitat : sandy and rocky bottoms from 20 to 180 m depth; very active at night.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Umbrina canariensis Valenciennes, 1843

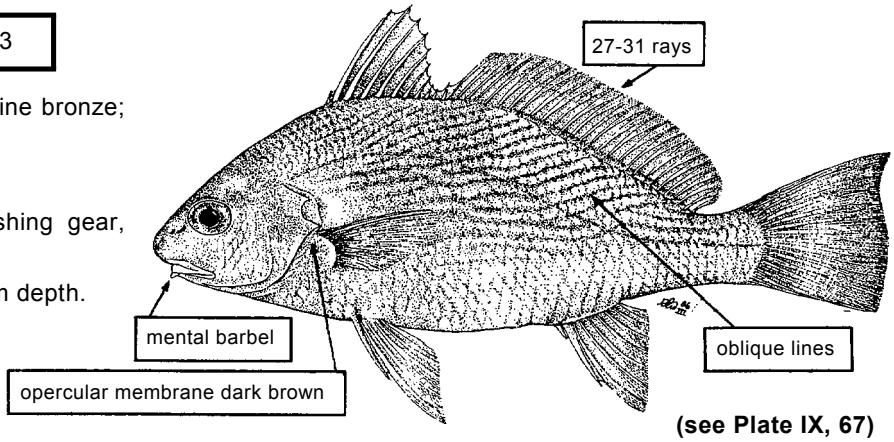
FAO names : **En** - Canary drum; **Fr** - Ombrine bronze; **b** - Verrugato de Canarias.

Size : 63 cm, common to 35 cm.

Fishing gear : bottom trawls, artisanal fishing gear, mainly hook-and-line.

Habitat : sandy mud bottoms from 15 to 75 m depth.

Loc.name(s) :



(see Plate IX, 67)

Umbrina cirrosa (Linnaeus, 1758)

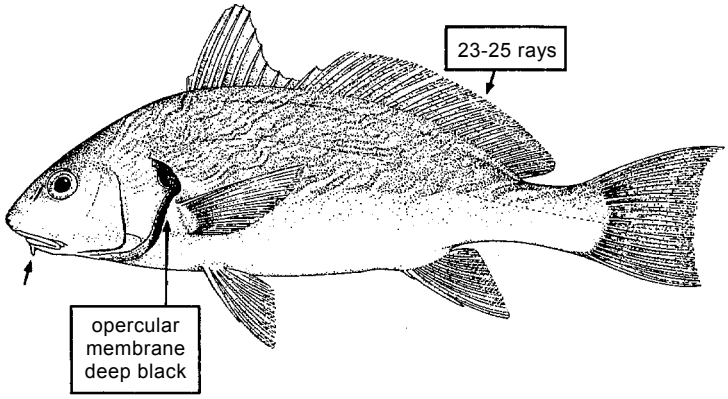
FAO names : **En** - Shi drum; **Fr** - Ombrine côtière; **Sp** - Verrugato común.

Size : 70 cm, common to 40 cm.

Fishing gear : bottom trawls, beach seines, set nets. Habitat : sandy mud bottoms from 30 to 70 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Umbrina ronchus Valenciennes, 1843

Synonyms: *Umbrina fusca* Dardignac, 1961

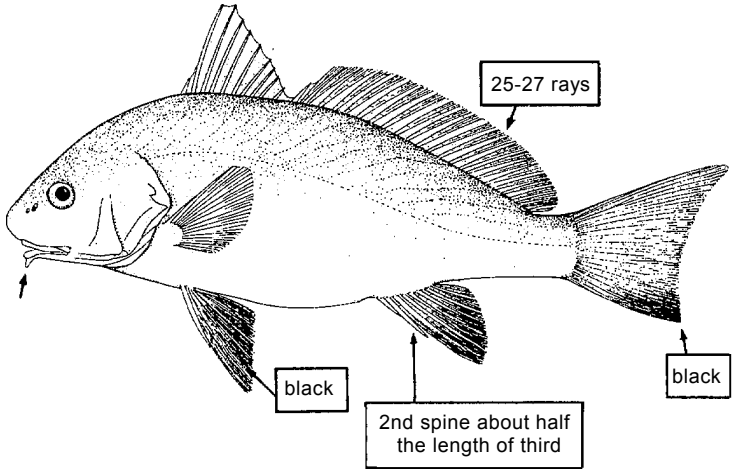
FAO names : **En** - Fusca drum; **Fr** - Ombrine fusca; **Sp** - Verrugato fusco.

Size : about 80 cm, common to 40 cm.

Fishing gear : bottom trawls, line gear.

Habitat : on rocky and sandy bottoms, from 20 to 200 m depth.

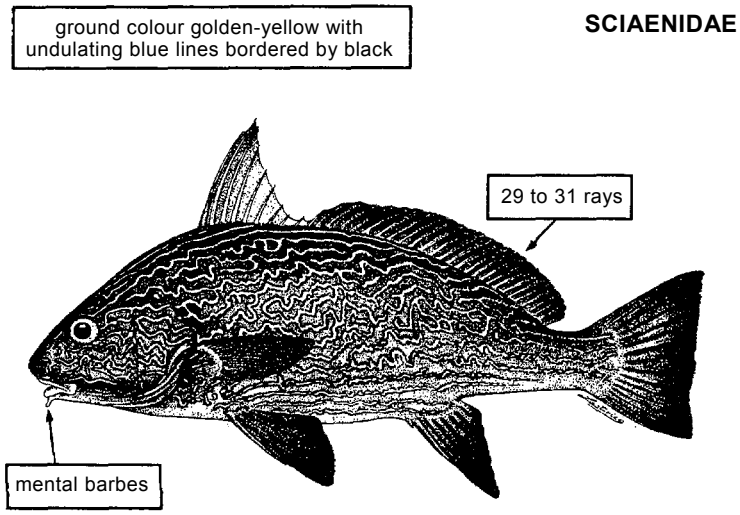
Loc.name(s) :



BONY FISHES

Umbrina steindachneri Cadenat, 1950

SCIAENIDAE



Synonyms : *Umbrina cirrosa* (non Linnaeus, 1758) [Bellemans et al., 1988]:

FAO names : **En** - Steindachner's drum; **Fr** - Ombrine de Steindachner, **Sp** - Verrugato de Steindachner.

Size : 45 cm.

Fishing gear : bottom trawls, gillnets and beach seines.

Habitat : sandy mud bottoms; caught at a depth of 30 m.

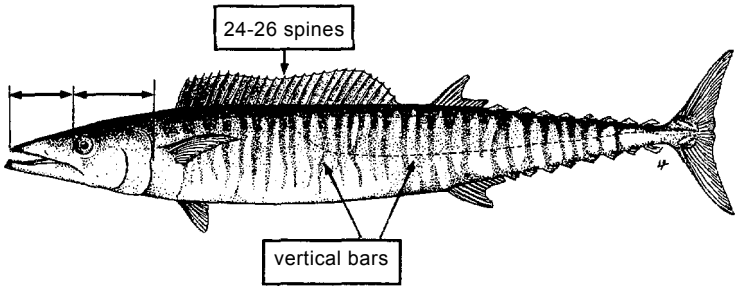
Remarks : obviously a rare species, often confused with Umbrina cirrosa.

Loc.name(s) :

(see Plate IX, 68)

Acanthocybium solandri (Cuvier, 1831)

SCOMBRIDAE



FAO names : **En** - Wahoo; **Fr** - Thazard-bâtard; **Sp** - Peto.

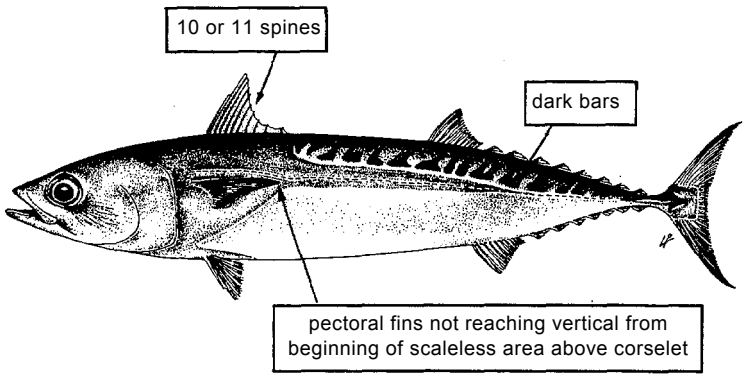
Size : 210 cm, common to 100 cm.

Fishing gear : seines, hook-and-line, sportfishing gear.

Habitat : found in coastal surface waters, more abundant during thé warm season.

Loc.name(s) :

Auxis rochei (Rossi, 1810)



Synonyms : *Auxis thynnoides* Bleeker, 1855; *Auxis maru* Kishinouye, 1923.

FAO names : **En** - Bullet tuna; **Fr** - Bonitou; **Sp** - Melvera.

Size : to 40 cm fork length, common to 35 cm.

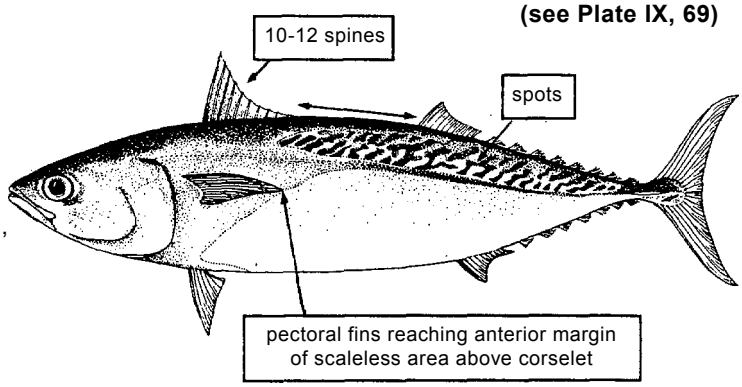
Fishing gear : beach seines, purse seines (poli), drift nets, trolling lines, liftnets.

Habitat : a cosmopolitan species, found in warm waters.

Loc.name(s) :

Auxis thazard (Lacepède, 1800)

(see Plate IX, 69)



Synonyms : *Auxis tapeinosoma* Bleeker, 1854.

FAO names : En - Frigate tuna; **Fr** - Auxide; **Sp** - Melva.

Size : 55 cm, common to 40 cm.

Fishing gear : beach seines, purse seines, driftnets, trolling lines, liftnets.

Habitat : coastal waters.

Loc.name(s) :

next page

Euthynnus alletteratus (Rafinesque, 1810)

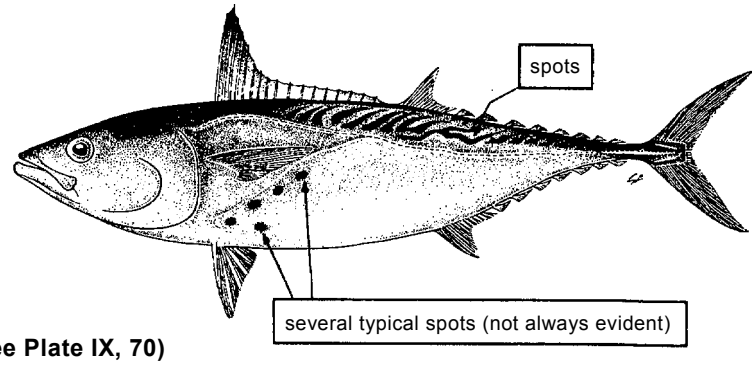
FAO names : **En** - Little tunny; **Fr** - Thonine commune; **Sp** - Bacoreta.

Size : 100 cm, common to 80 cm.

Fishing gear : purse seines (poli), trolling lines, set gillnets.

Habitat : pelagic, mainly in coastal waters.

Loc.name(s) :



(see Plate IX, 70)

Katsuwonus pelamis (Linnaeus, 1758)

Synonyms : *Euthynnus pelamis* (Linnaeus, 1758).

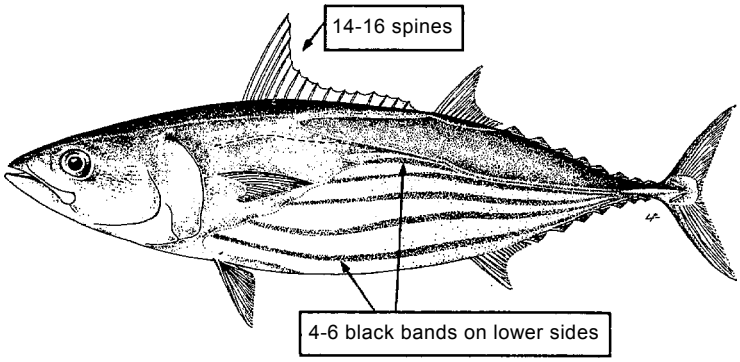
FAO names : **En** - Skipjack tuna; **Fr** - Bonite à ventre rayé; **Sp** - Listado.

Size : 100 cm, common to 80 cm.

Fishing gear : purse seines (poli), pole-and-line gear, longlines, artisanal gear.

Habitat : found in deep coastal and in oceanic waters.

Loc.name(s) :



Orcynopsis unicolor (Geoffroy St. Hilaire, 1817)

FAO names : **En** - Plain bonito; **Fr** - Palomette; **Sp** - Tasarte .

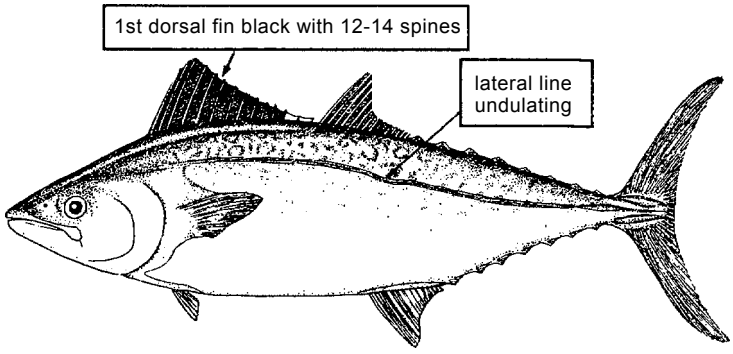
Size : 100 cm, common to 90 cm.

Fishing gear : pole-and-line, purse seines, set gillnets.

Habitat : found in cold coastal and offshore waters.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Sarda sarda (Bloch, 1793)

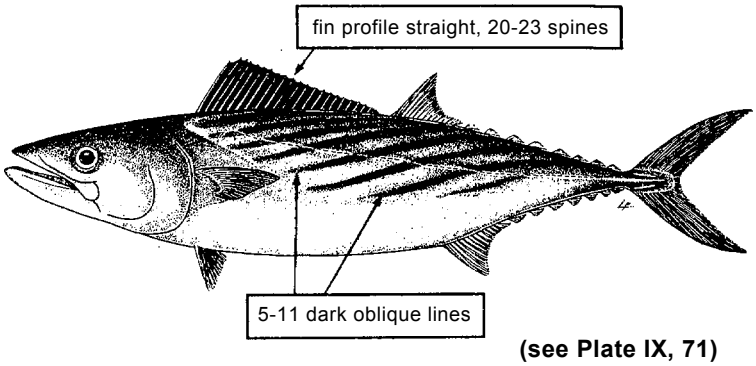
FAO names : **En** - Atlantic bonito; **Fr** - Bonite à dos rayé; **Sp** - Bonito atlàntico.

Size : 70 cm, common to 50 m.

Fishing gear : gillnets, purse seines, trolling lines.

Habitat : coastal pelagic, migratory, in cold and warm waters.

Loc.name(s) :



(see Plate IX, 71)

SCOMBRIDAE

Scomber japonicus Houttuyn, 1782

(see Plate X, 72)

Synonyms : *Scomber colias* Gmelin, 1789.

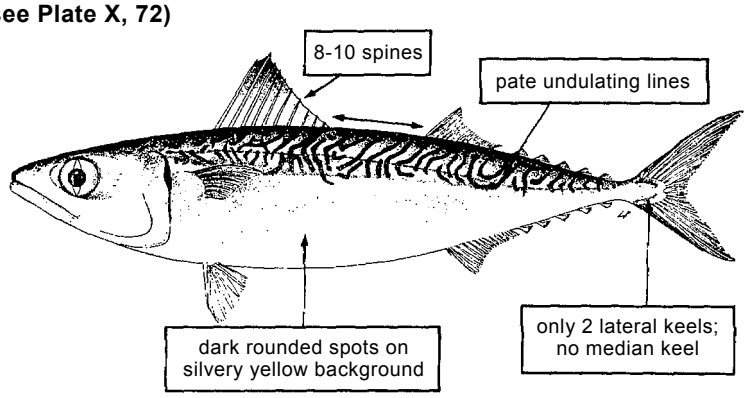
FAO names : **En** - Chub mackerel; **Fr** - Maquereau espagnol; **Sp** - Estornino.

Size: 50 cm, common to 40 cm.

Fishing gear : purse seines, trolling lines, gillnets, beach seines, mid-water trawls.

Habitat : coastal pelagic in cold waters, usually taken between 15 and 40 m depth.

Loc.name(s) :



Scomberomorus tritor (Cuvier, 1831)

(see Plate X, 73)

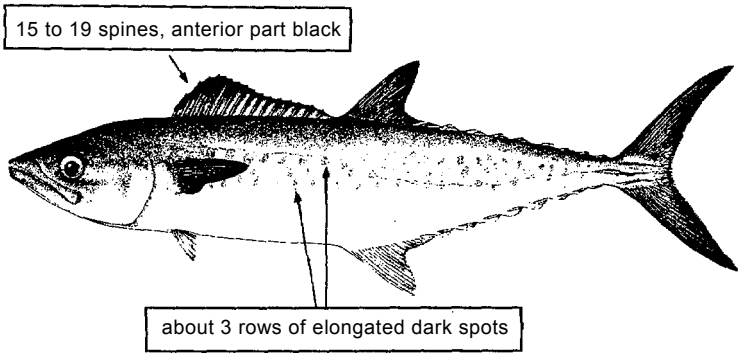
Synonyms : *Cybium tritor* Cuvier , 1831.

FAO names : **En** - West African Spanish mackerel; **Fr** - Thazard blanc; **Sp** - Carite pintado.

Size : to at least 100 cm, common to 75 cm. Fishing gear : purse seines, set gillnets, longlines.

Habitat : found in warm waters, sometimes enters estuaries.

Loc.name(s) :



Thunnus alalunga (Bonnaterre, 1788)

Synonyms : *Germo alalunga* [Jordan & Evermann, 1896]; *Thunnus germo* [Kishinouye, 1923].

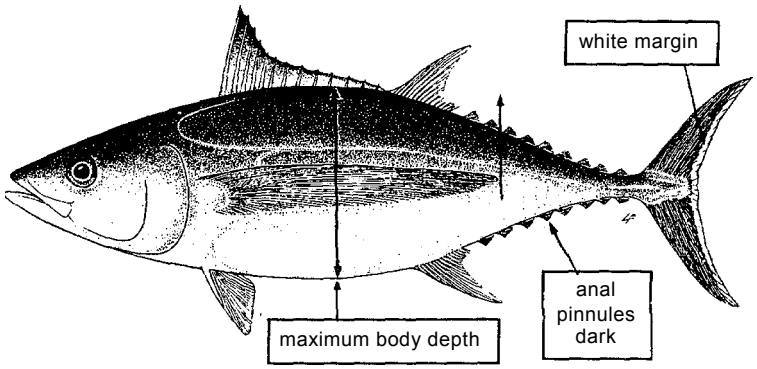
FAO names : **En** - Albacore; **Fr** - Germon; **Sp** - Atún blanco.

Size : 120 cm, common to 80 cm.

Fishing gear : longlines, trolling lines, purse seines.

Habitat : oceanic below the thermocline, perfers temperatures between 17° and 20°C.

Loc.name(s) :



Thunnus albacares (Bonnaterre, 1788)

Synonyms : *Neothunnus macropterus* [Kishinouye, 1923].

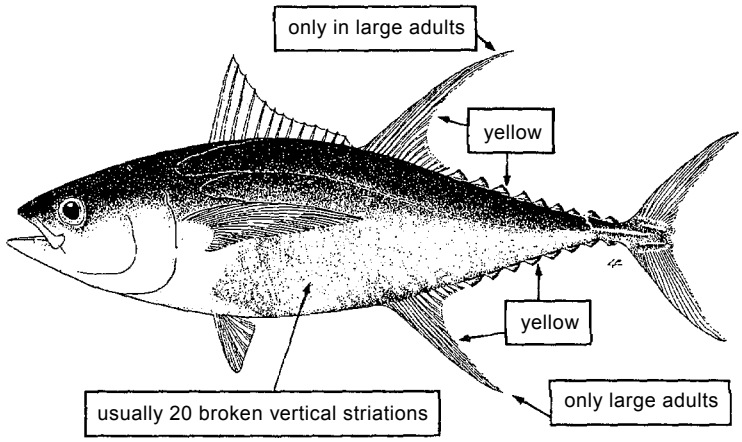
FAO names : **En** - Yellowfin tuna; **Fr** - Albacore; **Sp** - Rabil.

Size : 200 cm, common to 100 cm.

Fishing gear : purse seines, longlines, pole-and-line, set gillnets.

Habitat : offshore waters.

Loc.name(s) :



BONY FISHES

SCOMBRIDAE

Thunnus obesus (Lowe, 1839)

Synonyms : *Parathunnus sibi* [Jordan & Hubbs, 1925].

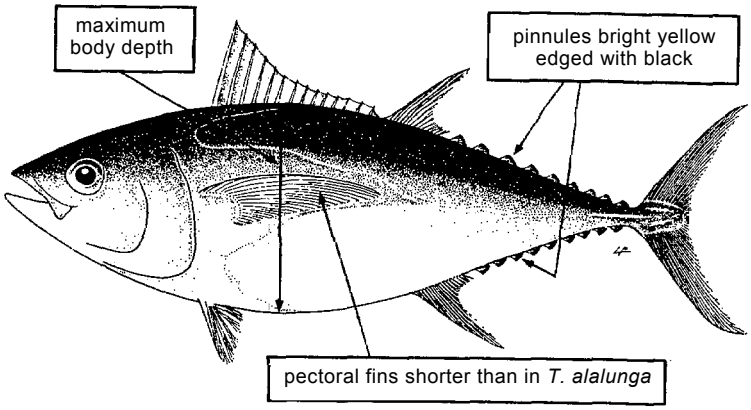
FAO names : **En** - Bigeye tuna; **Fr** - Thon obèse ; **Sp** - Patudo.

Size : 200 cm, common to 100 cm.

Fishing gear : pole-and-line, purse seines, longlines, set gillnets.

Habitat : mainly an offshore species, but also taken by artisanal fisheries.

Loc.name(s) :



SCORPAENIDAE

Helicolenus dactylopterus (Delaroche, 1809)

Synonyms : *Helicolenus maderensis* Goode & Bean, 1896.

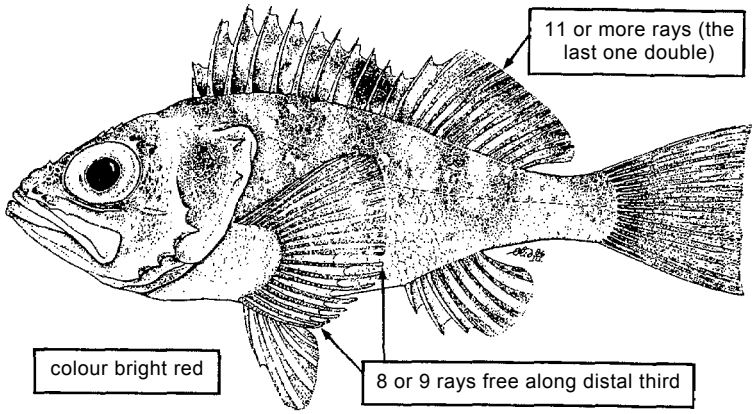
FAO names : **En** - Rockfish; **Fr** - Rascasse de fond; **Sp** - Gallineta.

Size : 38 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : on soft bottoms of the continental shelf and slope (20 to 600 m depth).

Loc.name(s) :



Pontinus accraensis Norman, 1935

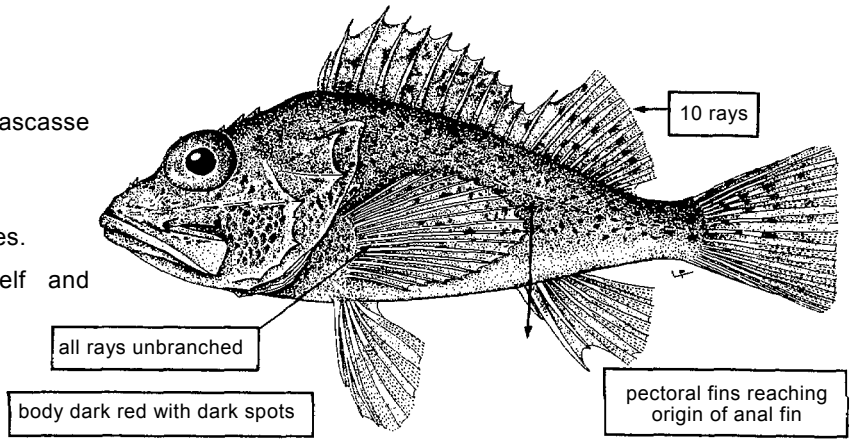
FAO names : **En** - Ghanean rockfish; **Fr** - Rascasse de Accra; **Sp** - Rascacio de Accra.

Size : about 40 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : demersal on the continental shelf and slope, from 70 to 500 m depth.

Loc.name(s) :



(see Plate X, 74)

Pontinus kuhlii (Bowdich, 1825)

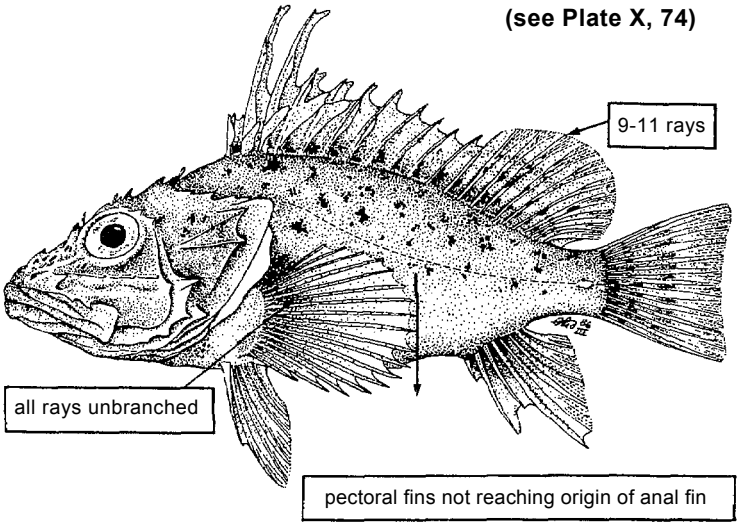
FAO names : **En** - Offshore rockfish; **Fr** - Rascasse du large; **Es** - Rascacio de fuera.

Size : 35 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : benthic on hard-bottom, from 100 to 450 m depth.

Loc.name(s) :



Scorpaena angolensis Norman, 1935

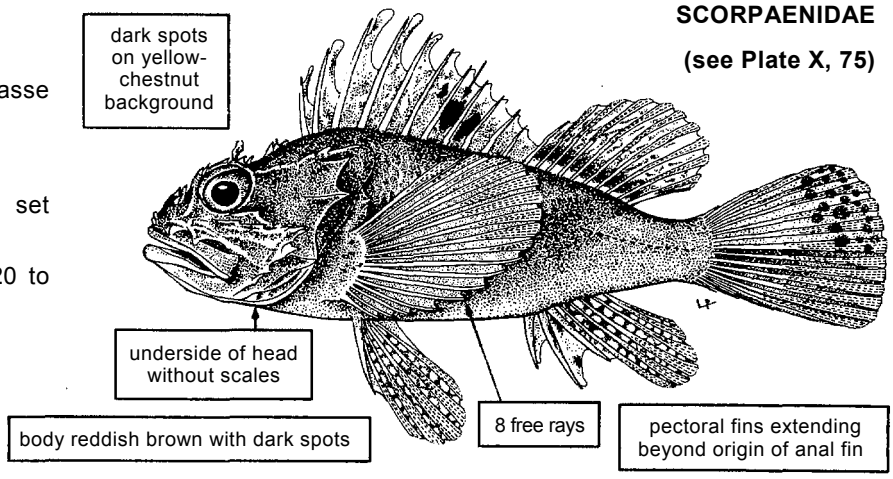
FAO names : **En** - Angola rockfish; **Fr** - Rascasse de l'Angola; **Sp** - Rascacio de Angola.

Size : 25 cm .

Fishing gear : bottom trawls, bottom set longlines.

Habitat : demersal in coastal waters, from 20 to 60 m depth.

Loc.name(s) :



Scorpaena elongata Cadenat, 1943

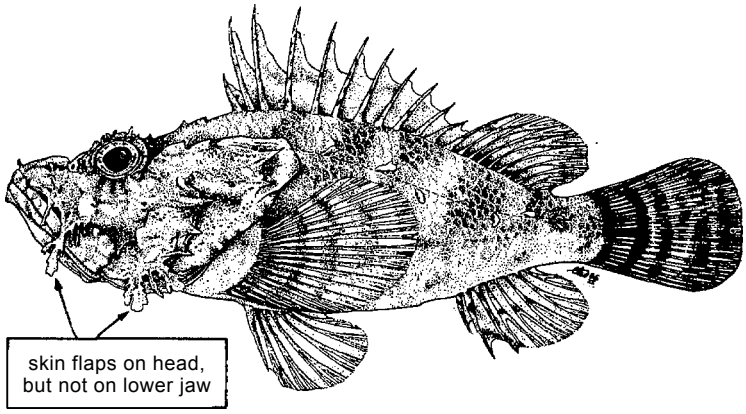
FAO names : **En** - Slender rockfish; **Fr** - Rascasse rose; **Sp** - Gallineta rosada.

Size : 55 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : demersal on soft bottoms, between 75 and 800 m depth.

Loc.name(s) :



Scorpaena laevis Troschel, 1866

Synonyms : *Scorpaena senegalensis* Steindachner, 1882.

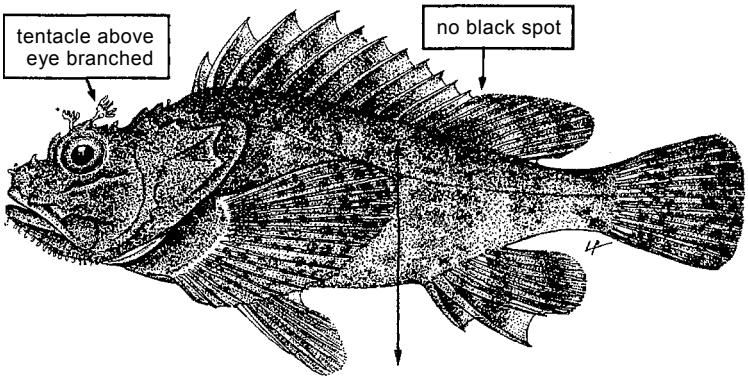
FAO names : **En** - Senegalese rockfish; **Fr** - Rascasse du Sénégal; **Sp** - Rascacio del Senegal.

Size : 35 cm.

Fishing gear : bottom set longlines.

Habitat : demersal on rocky bottoms, in shelf waters, to 100 m depth.

Loc.name(s) :



Scorpaena maderensis Valenciennes, 1833

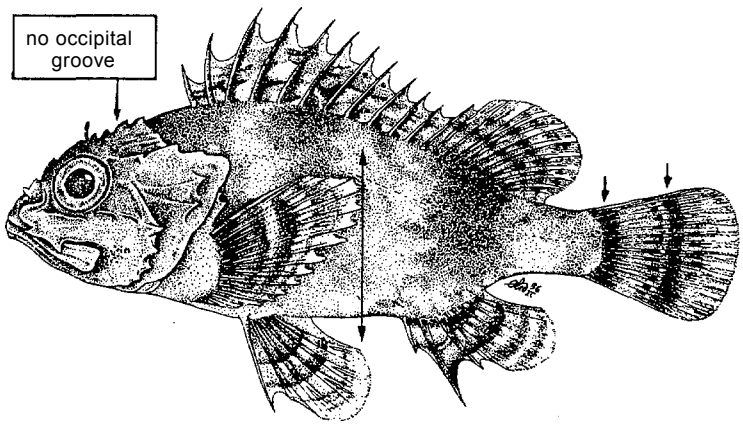
FAO names : **En** - Madeira rockfish; **Fr** - Rascasse de Madère; **Sp** - Rascacio de Madeira.

Size : 15 cm

Fishing gear : bottom trawls, bottom set longlines.

Habitat : demersal, in shallow coastal waters, between 20 and 40 m depth.

Loc.name(s) :



next page

Scorpaena normani Cadenat, 1943

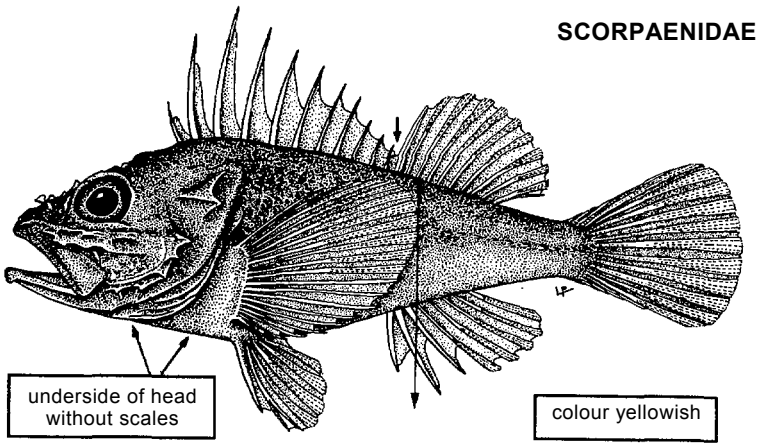
FAO names : **En** - Norman's rockfish; **Fr** - Rascasse de Norman; **Sp** - Rascacio de Norman.

Size : about 20 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : continental shelf, from 50 to 300 m depth.

Loc.name(s) .



Scorpaena scrofa Linnaeus, 1758

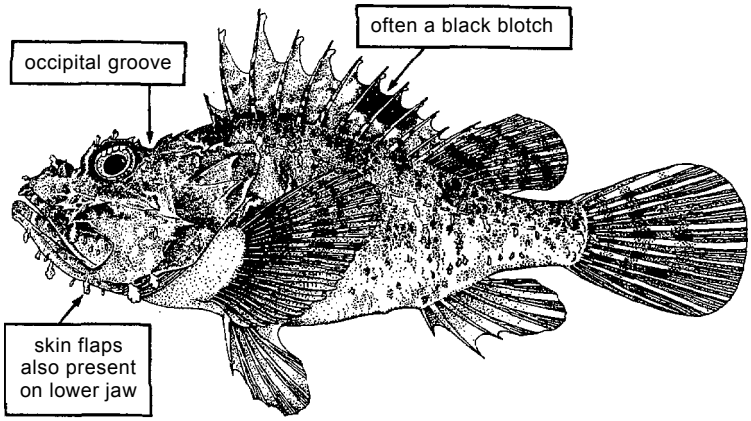
FAO names : **En** - Red scorpionfish; **Fr** - Rascasse rouge; **Sp** - Cabracho.

Size : 66 cm, common to 30 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : demersal on rocky, sandy or muddy bottoms, from 20 to 200 m depth.

Loc.name(s) :



Scorpaena stephanica Cadenat, 1943

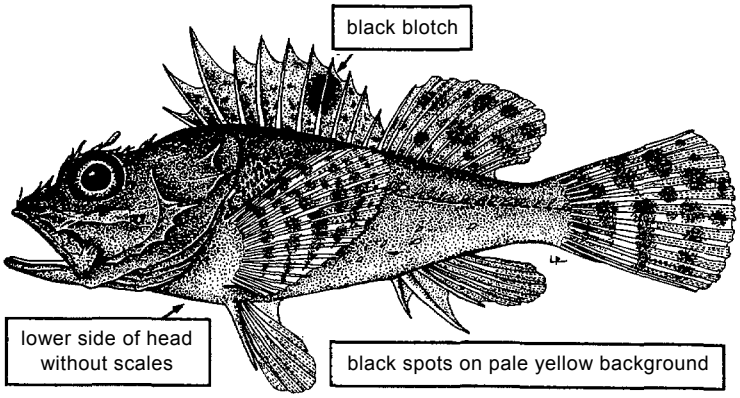
FAO names : **En** - Spotted-fin rockfish; **Fr** - Rascasse à nageoires tachetées; **Sp** - Rascacio del Cabo.

Size : about 40 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : on sandy, muddy and rocky bottoms between 75 and 200 m depth.

Loc.name(s) :



Setarches guentheri Johnson, 1862

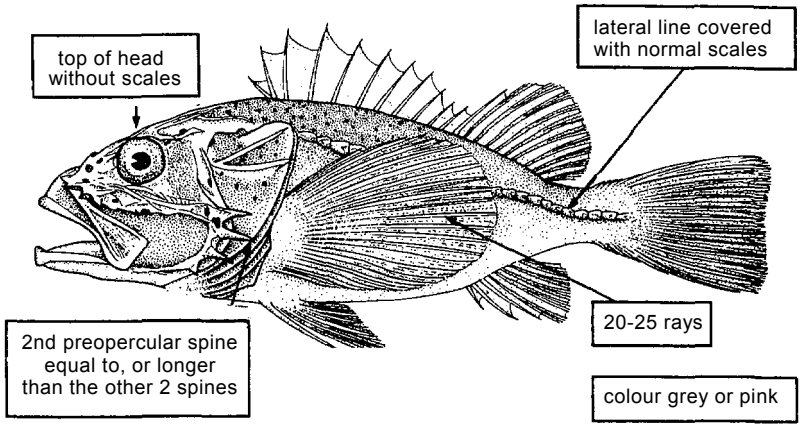
FAO names : **En** - Deepwater scorpionfish; **Fr** - Rascasse serran; **Sp** - Rascacio serrano.

Size : 24 cm.

Fishing gear : bottom trawls, bottom set longlines on the continental edge and slope.

Habitat : demersal, between 180 and 700 m depth.

Loc.Name(s) :



Anthias anthias (Linnaeus, 1758)

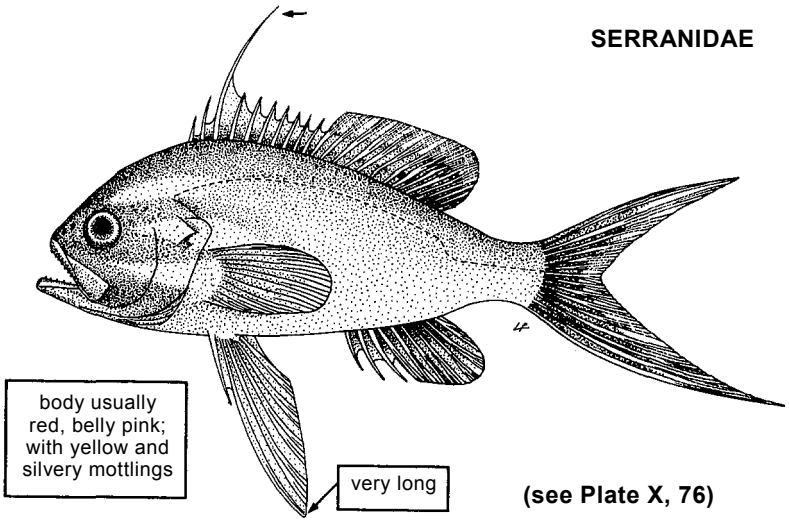
FAO names : **En** - Swallowtail seaperch; **Fr** - Barbier-hirondelle; **Sp** - Tres colas.

Size : 27 cm, common to 20 cm.

Fishing gear : bottom trawls, line gear.

Habitat : around rocks, and specially in coral reefs to 300 m depth.

Loc.name(s) :



(see Plate X, 76)

Centrarchops chapini Fowler, 1923

FAO names : **En** - Barred seabass; **Fr** - Mérou barré; **Sp** - Cherna rayada.

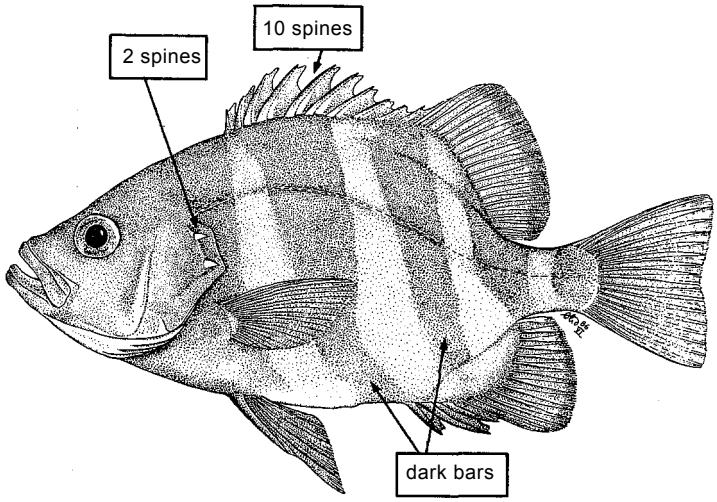
Size : 30 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : demersal in coastal waters.

Remarks : recently placed in the family Dinopercidae.

Loc.name(s) :



Cephalopholis nigri (Günther, 1859)

Synonyms : Petrometopon nigri (Günther, 1859).

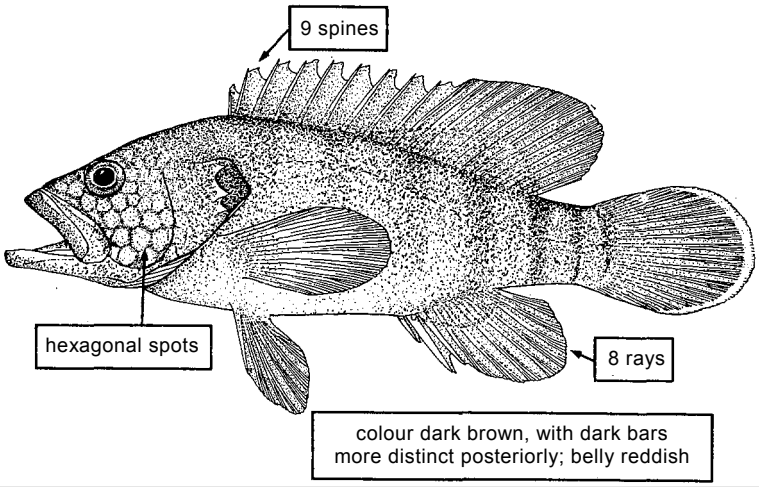
FAO names : **En** - Niger seabass; **Fr** - Mérou du Niger; **Sp** - Cherna del Niger.

Size : 30 cm, common to 25 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : on sandy and rocky bottoms to about 75 m depth.

Loc.name(s) :



Cephalopholis taeniops (Valenciennes, 1828)

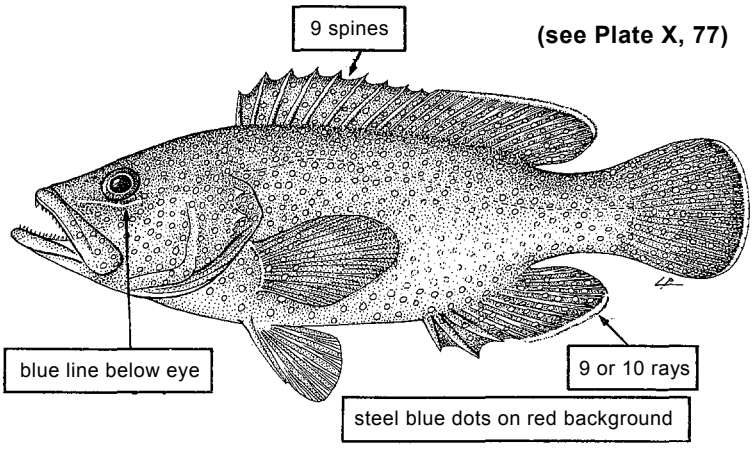
FAO names : **En** - Bluespotted seabass; **Fr** - Mérou à points bleus; **Sp** - Cherna colorada.

Size : 70 cm, common to 35 cm.

Fishing gear : bottom trawls, line gear.

Habitat : rocky bottoms coral reefs and sandy bottoms between 3 and 75 m depth.

Loc.name(s) :



(see Plate X, 77)

SERRANIDAE

Epinephelus aeneus (Geoffroy St. Hilaire, 1809)

Synonyms : *Serranus aeneus* (Geoffroy St. Hilaire, 1809).

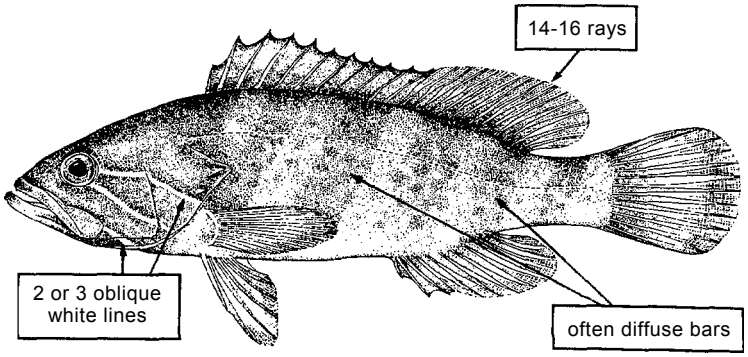
FAO names : **En** - White grouper; **Fr** - Mérou blanc; **Sp** - Cherna de ley.

Size : at least 115 cm, common to 60 cm.

Fishing gear : bottom trawls, handlines, longlines, trammel nets.

Habitat : mainly on sandy and muddy bottoms from the coastline to about 100 m depth.

Loc.name(s) :



(see Plate X, 78)

Epinephelus costae (Steindachner, 1878)

Synonyms : identified as *Epinephelus alexandrinus* (non Valenciennes, 1828) by many authors.

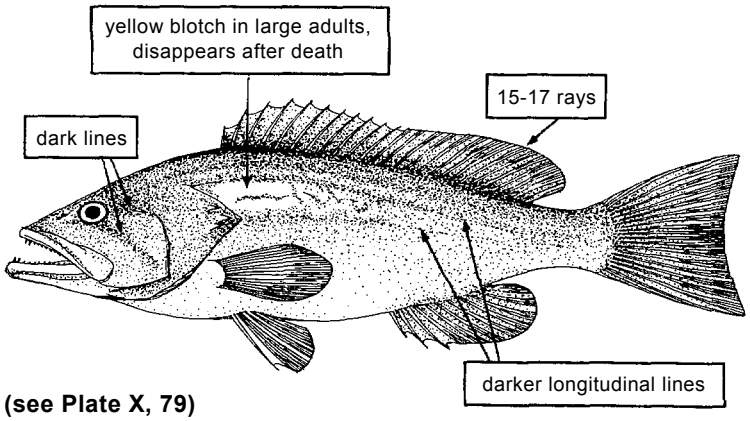
FAO names : **En** - Golden grouper; **Fr** - Mérou badèche; **Sp** - Falso abadejo.

Size : 170 cm, common to 45 cm.

Fishing gear : bottom trawls, trammel nets, line gear.

Habitat : on rocky and sandy bottoms from 10 to 75 m depth.

Loc.name(s) :



(see Plate X, 79)

Epinephelus goreensis (Valenciennes, 1830)

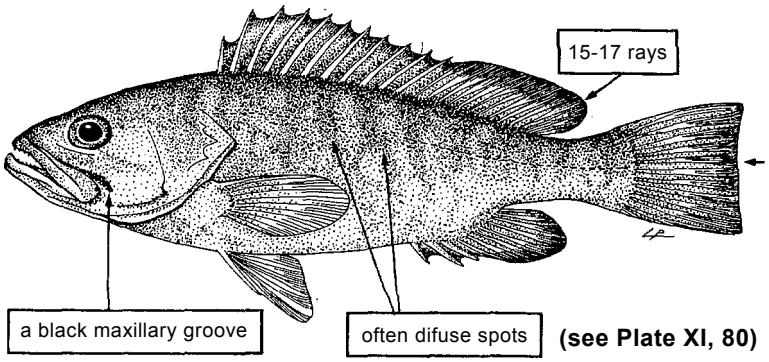
FAO names : **En** - Dungat grouper; **Fr** - Mérou dungat; **Sp** - Mero de Gorea.

Size : 80 cm, common to 35 cm.

Fishing gear : bottom trawls, bottom set longlines, hook-and-line.

Habitat : on rocky bottoms from the coastline to about 100 m depth.

Loc.name(s) :



(see Plate XI, 80)

Epinephelus guaza (Linnaeus, 1758)

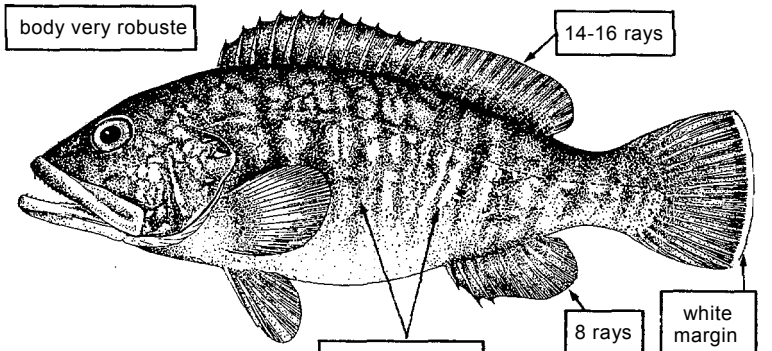
Synonyms : *Epinephelus gigas* (Brünnich, 1768).

FAO names : **En** - Dusky grouper; **Fr** - Mérou noir; **Sp** - Mero.

Size : 150 cm, common to 90 cm.

Fishing gear : bottom trawls, line gear, trammelnets.

Habitat : on rocky and sandy bottoms from the coastline (juveniles) to 150 m depth (adults).



Epinephelus marginatus **(see Plate XI, 81 & 82)**

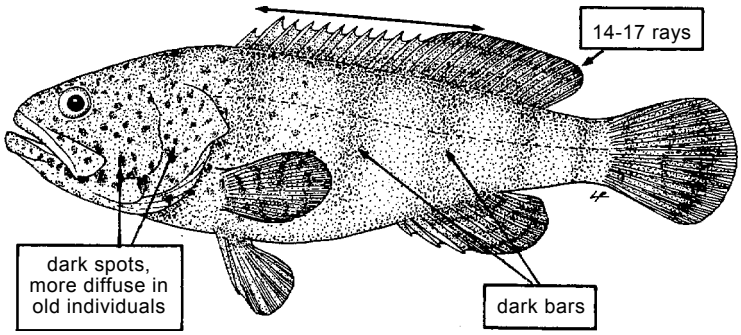
Remarks : according to Heemstra & Randall (in press), the name guaza Linnaeus, 1758 is doubtful and hence, cannot be used as a valid name for any species. Furthermore, two species were so far lumped under the name *E. guaza*, namely *E. marginatus* (Lowe, 1834) and *Epinephelus haifensis* Ben-Tuvia, 1953, both occurring in the area. *E. haifensis* is distinguished from *E. marginatus* in having 9 anal fin rays (instead of 8) and being dark brown, without light blotches on body.

Loc.name(s) :

next page

SERRANIDAE

Epinephelus itajara (Lichtenstein, 1822)



Synonyms : *Promicrops iditobo* Roux & Collignon, 1954; *Promicrops esonue* Ehrenbaum, 1915.

FAO names : **En** - Esonue grouper; **Fr** - Mérou ésonue; Sp - Mero esonué.

Size : 200 cm

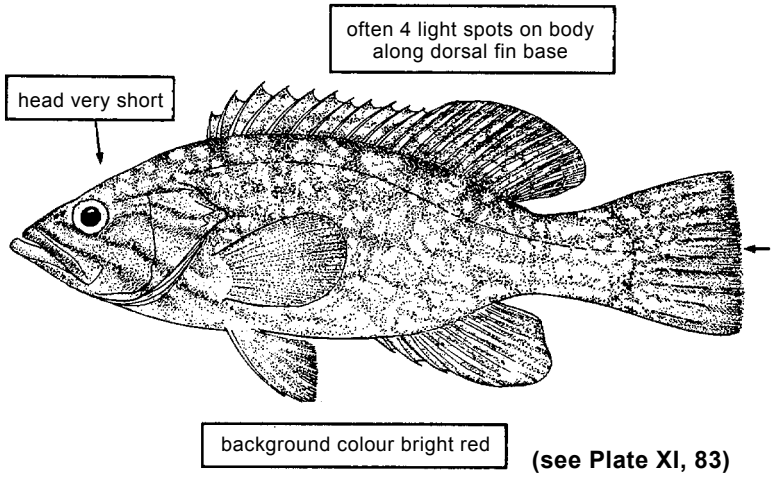
Fishing gear : bottom trawls, line gear.

Habitat : demersal, foundd at depths beyond 160 m.

Remarks : if significant differences between west and east Atlantic populations of *E. itajara* can be established, the name esonue Ehrenbaum, 1915 might be used to designate the east Atlantic subspecies.

Loc.name(s) :

Mycteroperca rubra (Bloch, 1793)



Synonyms : *Parepinephelus acutirostris* Valenciennes, 1828.

FAO names : **En** - Comb grouper; **Fr** - Mérou royal; **Sp** - Gitano.

Size : to at least 100 cm, common to 80 cm.

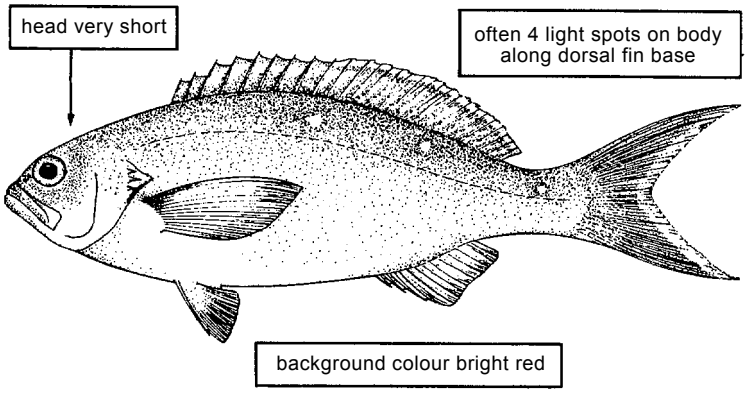
Fishing gear : bottom trawls, hook-and-line.

Habitat : on sandy and rocky bottoms from 15 to 200 m depth (more abundant between 15 and 50 m).

Loc.name(s) :

(see Plate XI, 83)

Paranthias furcifer (Valenciennes, 1828)



FAO names : **En** - Creole fish; **Fr** - Badèche créole; **Sp** - Cuna lucero.

Size : 35 cm, common to 20 cm.

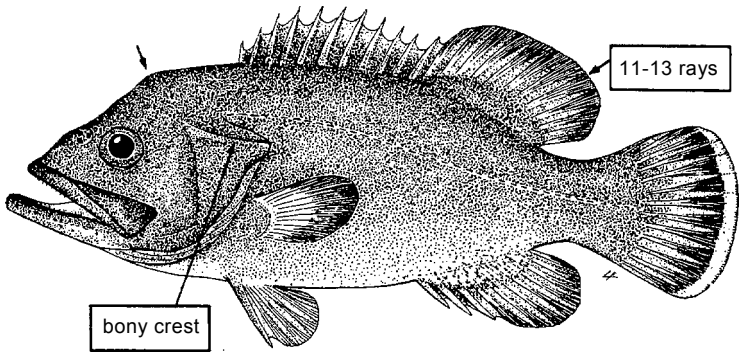
Fishing gear :

Habitat : demersal, in waters deeper than 20 m.

Remarks : found only once, off Nigeria.

Loc. name(s) :

Polyprion americanus (Bloch & Schneider, 1801)



FAO names : **En** - Wreckfish; **Fr** : Cernier commun; **Sp** - Cherna.

Size : 200 cm, common to 80 cm.

Fishing gear : bottom trawls, handlines.

Habitat : on rocky and sandy bottoms between 40 and 45 m depth, often near the surface.

Remarks : recently placed in the family Polyprionidae.

Loc.name(s) :

BONY FISHES

SERRANIDAE

Serranus accraensis (Norman, 1931)

Synonyms : *Neanthias accraensis* Norman, 1931; *Novanthias accraensis* (Norman, 1931).

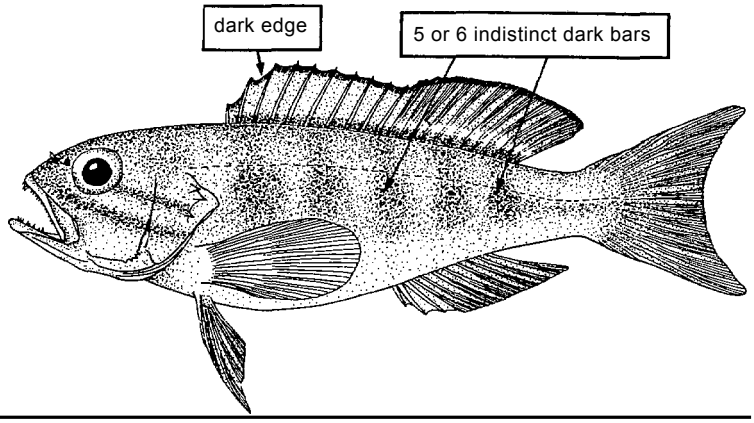
FAO names : **En** - Ghanean comber; **Fr** - Serran ganéen; **Sp** - Serrano ganes.

Size : to at least 16 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : on the continental shelf between 25 and 150 m depth.

Loc.name(s) :



Serranus cabrilla (Linnaeus, 1758)

Synonyms: *Paracentropristis cabrilla* Linnaeus, 1758.

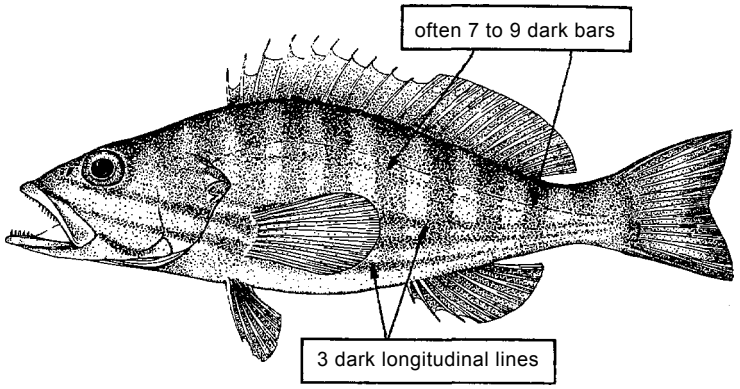
FAO names : **En** - Comber; **Fr** - Serran chèvre ; **Sp** - Cabrilla.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls, handlines, trammel-nets.

Habitat : on rocky and sandy bottoms to 400 m.

Loc.name(s) :



(see Plate XI, 84)

Serranus sanctaehelenae (Boulenger, 1895)

Synonyms: *Paracentropristis heterurus* (Cadenat, 1937).

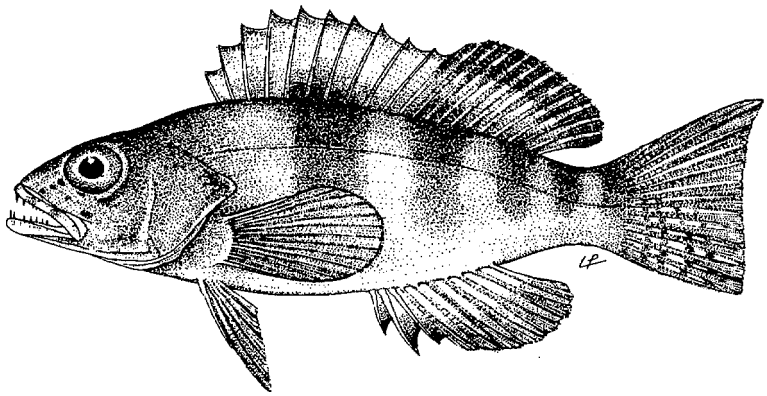
FAO names : **En** - St. Helena comber; **Fr** - Serran de St. Helène; **Sp** - Serrano de St. Helena.

Size : 15 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : on hard substrate, in shallow waters from 15 to 40 m depth.

Loc.name(s) :



SOLEIDAE

Bathysolea lactea Roule, 1916

Synonyms : *Bathysolea albida* (Roule, 1916).

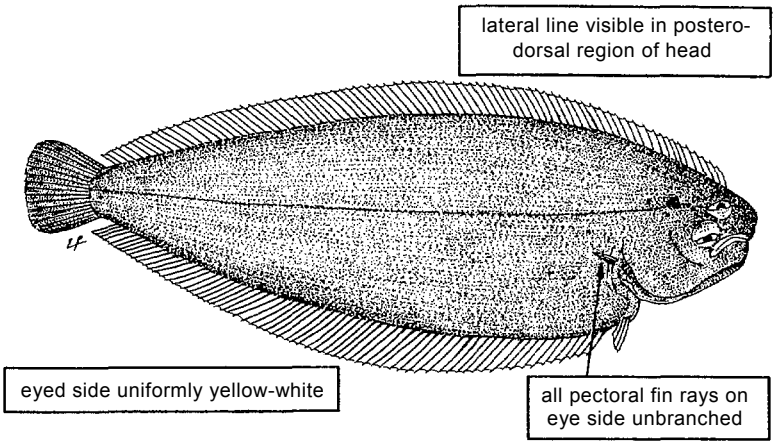
FAO names : **En** - Rock sole; **Fr** - Sole laiteuse; **Sp** - Lenguado lechoso.

Size : 15 cm.

Fishing gear : bottom trawls.

Habitat : on muddy bottoms of the continental slope.

Loc.name(s) :



Bathysolea profundicula (Vaillant, 1888)

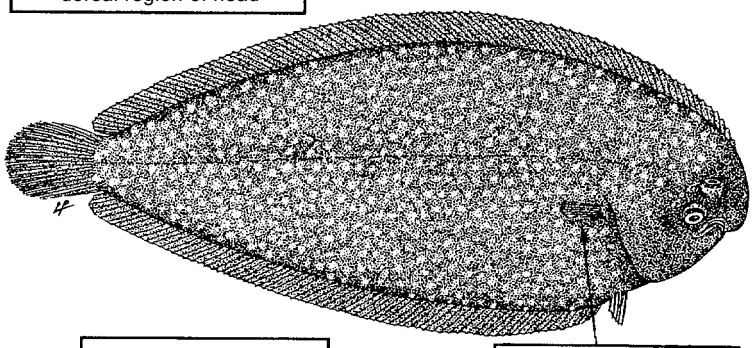
FAO names : **En** - Deepwater sole; **Fr** - Sole des profondeurs; **Sp** - Lenguado de fondo.

Size : about 21 cm.

Fishing gear : bottom trawls.

Habitat : on muddy bottoms of the continental slope.

Loc.name(s) :



Dicologoglossa cuneata (Moreau, 1881)

Synonyms : *Solea cuneata* Moreau, 1881.

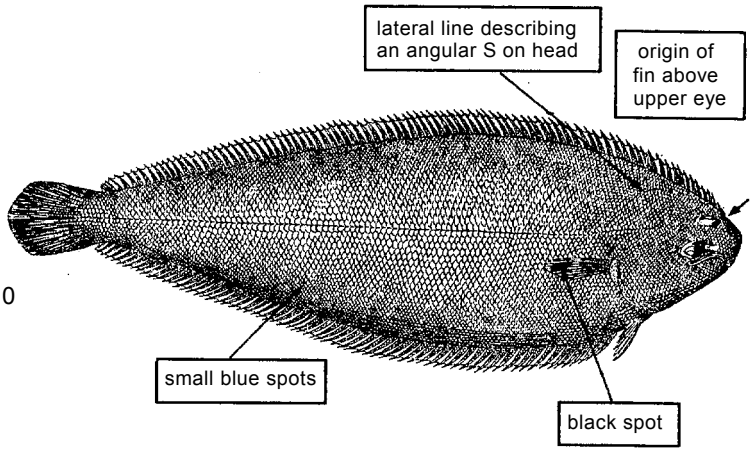
FAO names : **En** - Wedge sole; **Fr** - Céteau; **Sp** - Acedia.

Size : 30 cm, common to 22 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and muddy bottoms between 10 and 400 m depth.

Loc.name(s) :



(see Plate XI, 85)

Dicologoglossa hexophthalma (Bennett, 1831)

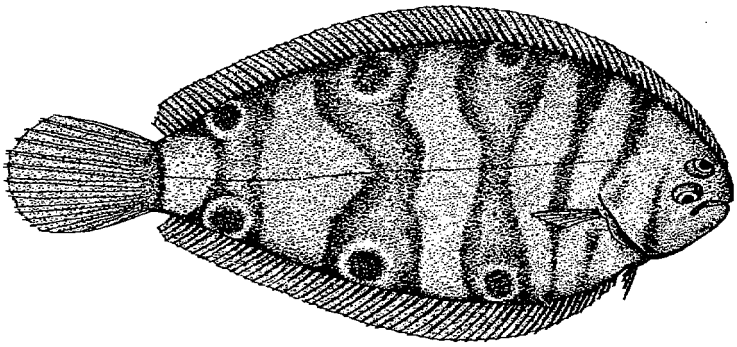
FAO names : **En** - Ocellated wedge sole; **Fr** - Céteau ocellé; **Sp** - Acedia ocelada.

Size : about 20 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : demersal in shallow waters, occasionally up to 150 m depth.

Loc.name(s) :



Heteromycteris proboscideus (Chabanaud, 1926)

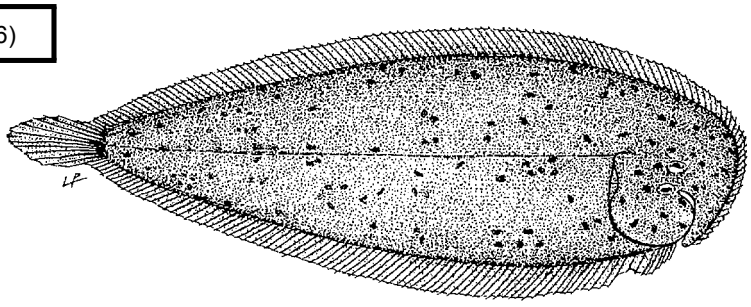
FAO names : **En** - True sole; **Fr** - Céteau trompue; **Sp** - Acedia trompuda.

Size : 10 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : a littoral species, also found in brackish waters.

Loc.name(s) :



next page

Microchirus boscanion Chabanaud, 1926

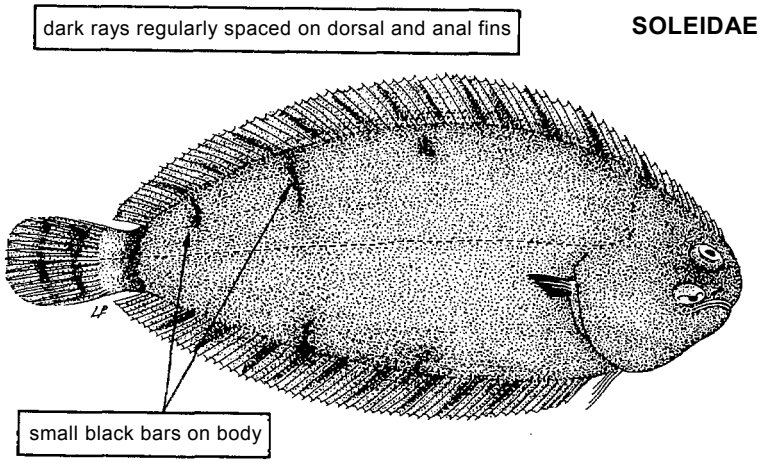
FAO names : **En** - Lusitanian sole; **Fr** - Sole lusitanienne; **Sp** - Lenguado lusicánico.

Size : 20 cm, common to 10 cm.

Fishing gear : bottom trawls.

Habitat : demersal on sandy bottoms of the continental shelf.

Loc.name(s) :



Microchirus frechkopi Chabanaud, 1952

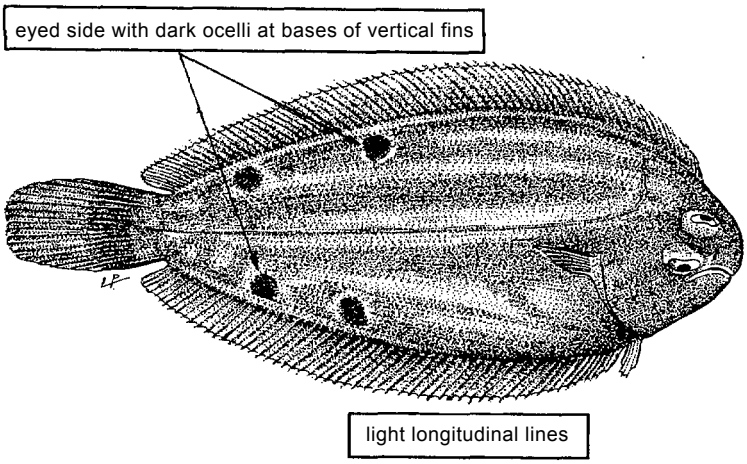
FAO names : **En** - Frechkop's sole; **Fr** - Sole de Frechkop; **Sp** - Lenguado de Frechkop.

Size : 20 cm.

Fishing gear : bottom trawls.

Habitat : demersal on sandy and muddy bottoms of the continental shelf.

Loc.name(s) :



Microchirus ocellatus (Linnaeus, 1758)

Synonyms : *Monochirus ocellatus* (Linnaeus, 1758).

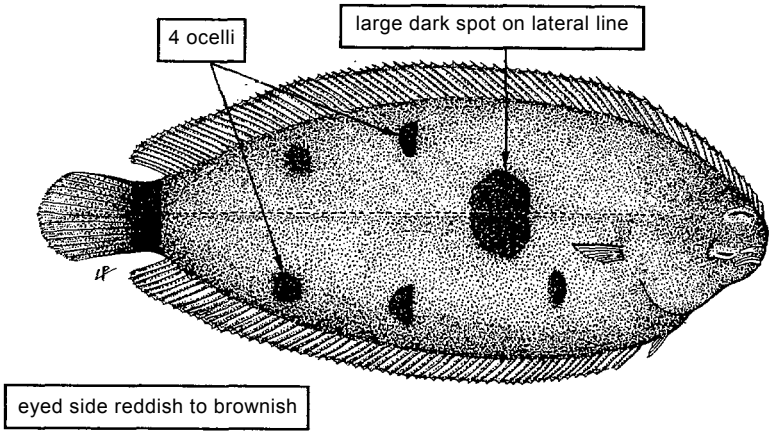
FAO names : **En** - Four-eyed sole; **Fr** - Sole ocellée; **Sp** - Tambor real.

Size : about 20 cm, common to 15 cm.

Fishing gear : bottom trawls.

Habitat : demersal, on sandy and muddy bottoms, from 40 to 300 m depth.

Loc.name(s) :



Microchirus wittei Chabanaud, 1950

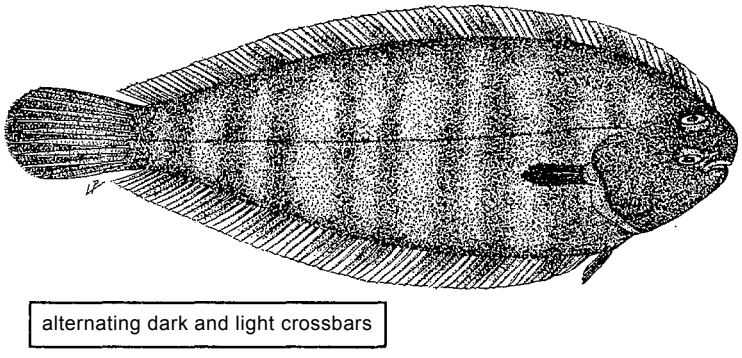
FAO names : **En** - Banded sole ; **Fr** - Sole fasciée; **Sp** - Tambor de bandas .

Size : 15 cm.

Fishing gear : bottom trawls.

Habitat : demersal, on sandy and muddy bottoms.

Loc.name(s) :



Monochirus hispidus Rafinesque, 1814

Synonyms : *Monochirus atlanticus* Chabanaud, 1940.

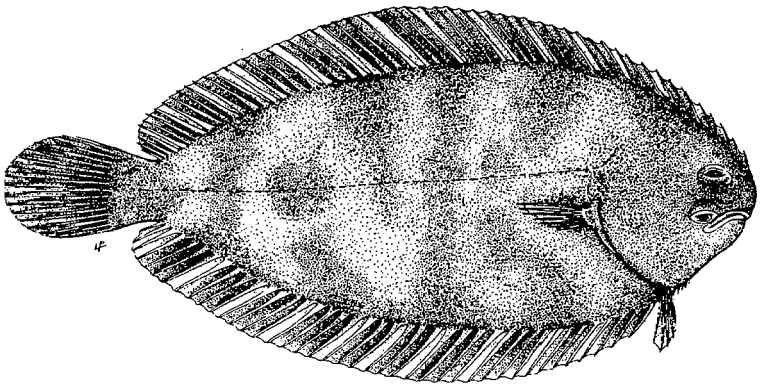
FAO names : **En** - Whiskered sole; **Fr** - Sole velue; **Sp** - Spoldado.

Size : about 20 cm, common to 10 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : demersal on sandy and muddy bottoms, from 10 to 250 m depth.

Loc.name(s) :



body with irregular dark spots and bars

Pegusa cadenati Chabanaud, 1948

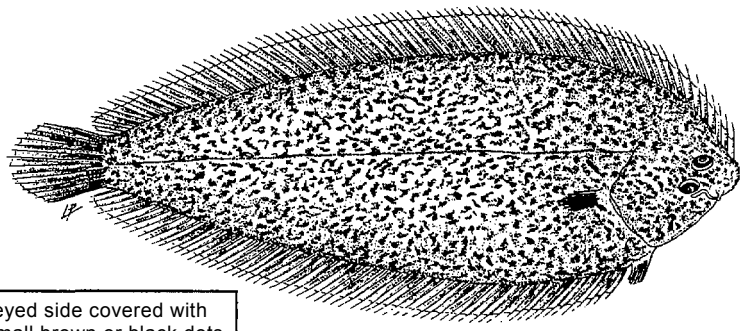
FAO names : En - Cadenat's sole; **Fr** - Sole de Cadenat; **Sp** - Sortija de Cadenat.

Size : 18 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : in shallow waters on sandy bottoms, from 10 to 30 m depth.

Loc.name(s) :



eyed side covered with small brown or black dots

anterior nostril of blind side enlarged forming a rosette

Pegusa lascaris (Risso, 1810)

(see Plate XI, 86)

Synonyms : *Solea lascaris* (Risso, 1810).

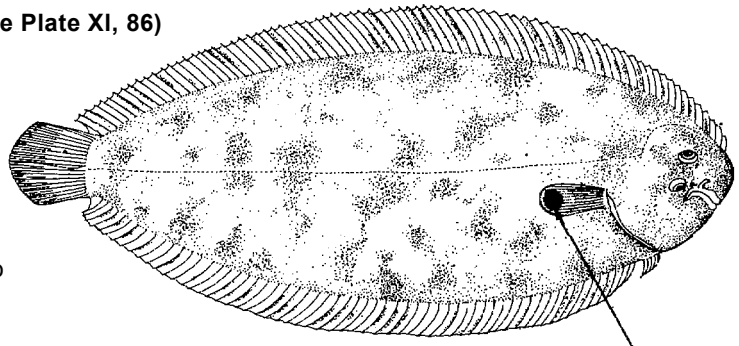
FAO names : **En** - Sand sole; **Fr** - Sole-pole; **Sp** - Sortija.

Size : 40 cm, common to 30 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : on different types of bottoms from 5 to 300 m depth, more common between 10 and 50 m.

Loc.name(s) :



anterior nostril of blind side enlarged, forming a rosette

black spot surrounded by yellow

Pegusa triophthalmus (Bleeker, 1863)

Synonyms : *Pegasus triophthalma* (Bleeker, 1863)

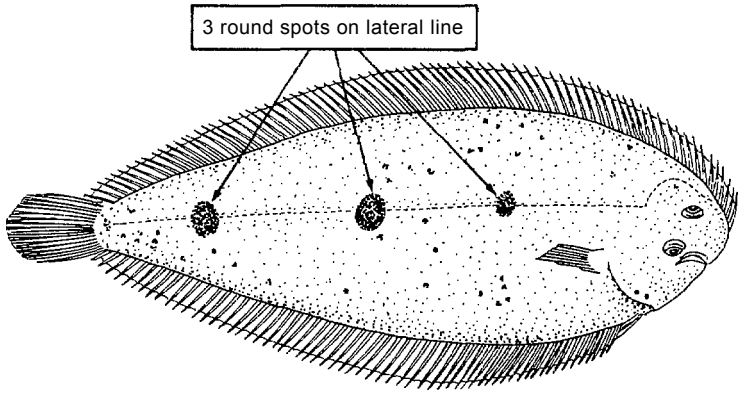
FAO names : **En** - Cyclope sole; **Fr** - Sole-pole à trois taches; **Sp** - Sortija tres ojos.

Size : 28 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : on sandy bottoms between 10 and 30 m depth.

Loc.name(s) :



3 round spots on lateral line

anterior nostril of blind side enlarged, forming a rosette

Synaptura cadenati Chabanaud, 1848

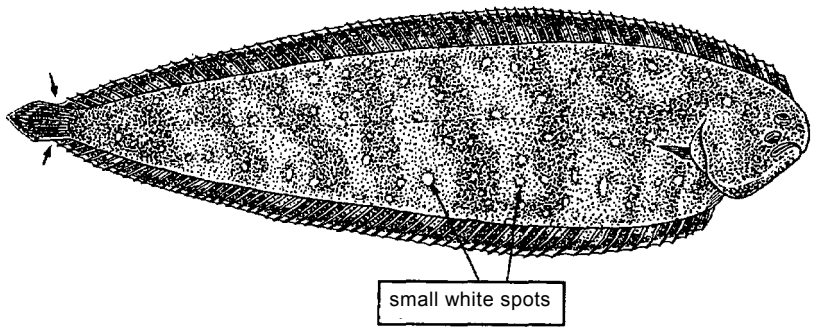
FAO names : **En** - Guinean sole; **Fr** - Sole-ruardon du Golfe; **Sp** - Lenguado de Cadenat.

Size : 35 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : on sandy and muddy bottoms from the coastline to 50 m depth.

Loc.name(s) :



Synaptura lusitanica Capello, 1868

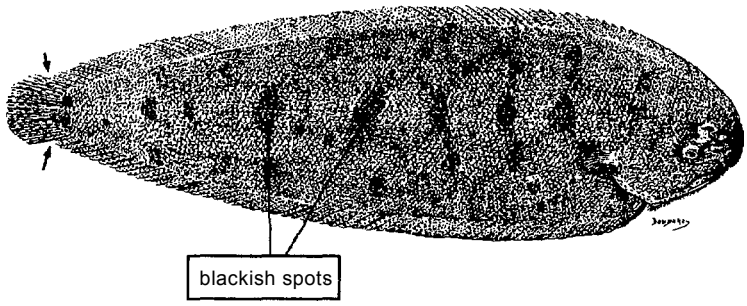
FAO names : **En** - Portuguese sole; **Fr** - Sole-ruardon commune; **Sp** - Lenguado portugués.

Size : 35 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and muddy bottoms from the coastline to 6Óm depth.

Loc.name(s) :



Synapturichthys kleinii (Risso, 1826)

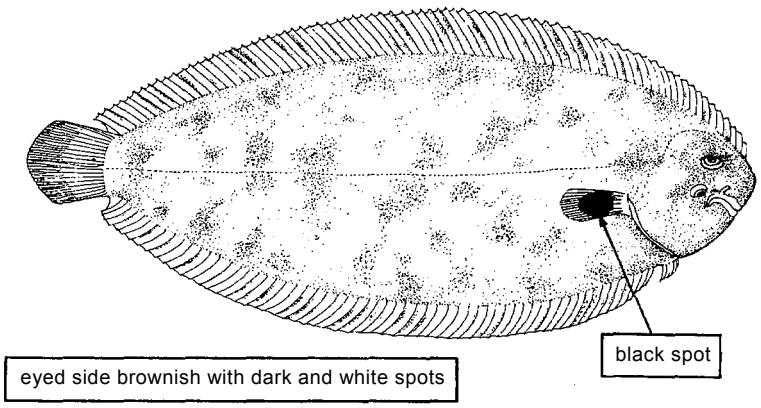
FAO names : **En** - Klein's sole; **Fr** - Sole tachetée; **Sp** - Lenguado manchado.

Size : about 40 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and muddy bottoms from 20 to 120 m depth.

Loc.name(s) :



Vanstraelenia chirophthalmus (Regan, 1915)

Synonyms : *Vanstraelenia insignis* Chabanaud, 1950; *Xenobuglossus elongatus* Chabanaud, 1950.

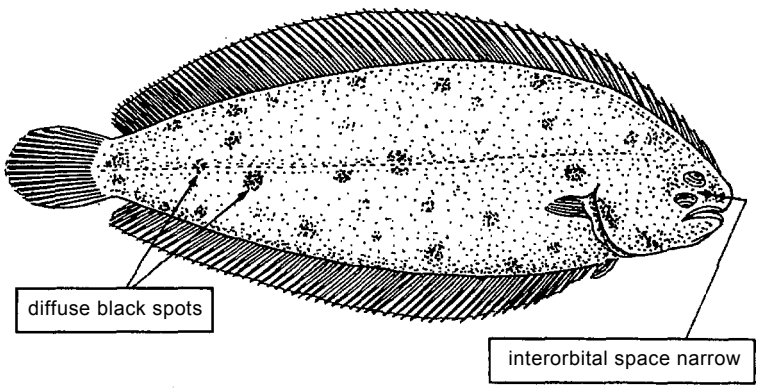
FAO names : **En** - African solenette; **Fr** - Sole-pole; Sp- Lenguadillo africano.

Size : 20 cm.

Fishing gear : bottom trawls.

Habitat : inhabits sand or mud bottoms between 15 and 100 m depth.

Loc.name(s) :



BONY FISHES

SPARIDAE

Boops boops (Linnaeus, 1758)

Synonyms : *Box boops* (Linnaeus, 1758).

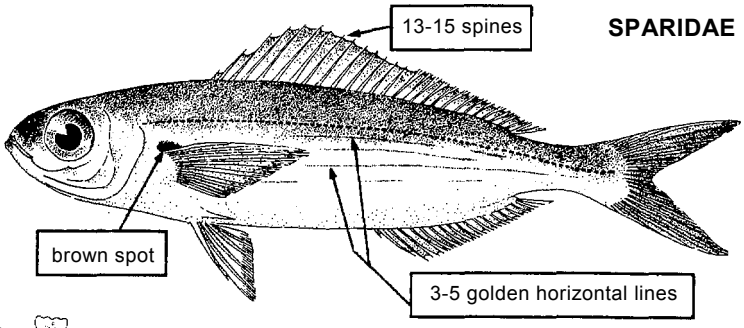
FAO names : **En** - Bogue; **Fr** - Bogue; **Sp** - Boga.

Size : 25 cm, but rarely exceeding 18 cm.

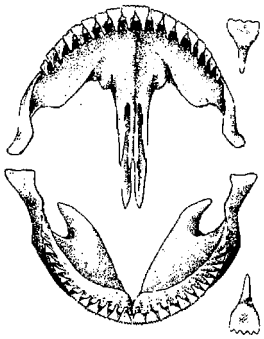
Fishing gear : bottom trawls, purse seines, beach seines, line gear; used as bait in tuna fisheries.

Habitat : demersal on all types of bottom, but also semi-pelagic; occurs from the coastline in 100 m depth.

Loc.name(s) :



body fusiform



jaws with teeth

(see Plate XII, 87)

Dentex angolensis Poll & Maul, 1953

Synonyms : *Dentex polli* Roux, 1954.

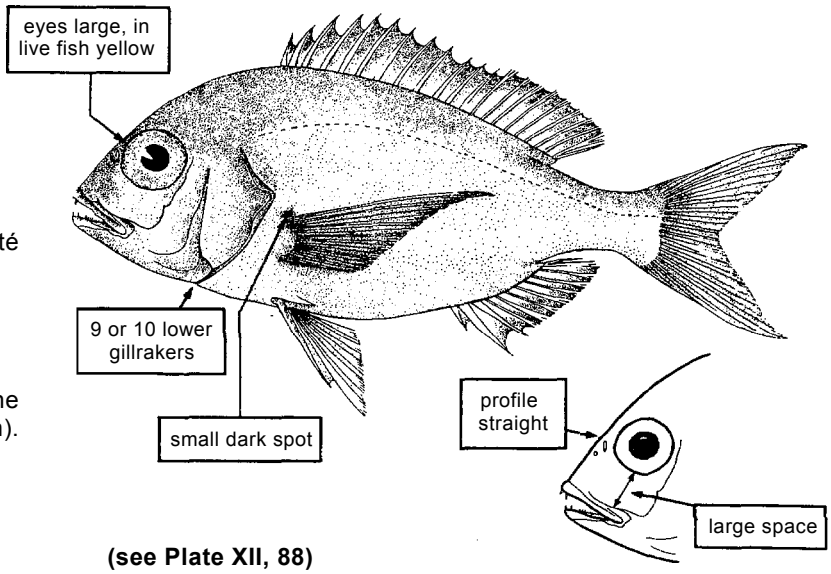
FAO names : **En** - Angola dentex; **Fr** - Denté angolais; **Sp** - Dentón angolés.

Size : 35 cm, common to 25 cm.

Fishing gear : bottom trawls, bottom lines.

Habitat : on different types of bottoms on the continental shelf and slope (100-300 m depth). Found together with *Dentex macrophthalmus*.

Loc.name(s) :



(see Plate XII, 88)

Dentex barnardi Cadenat, 1964

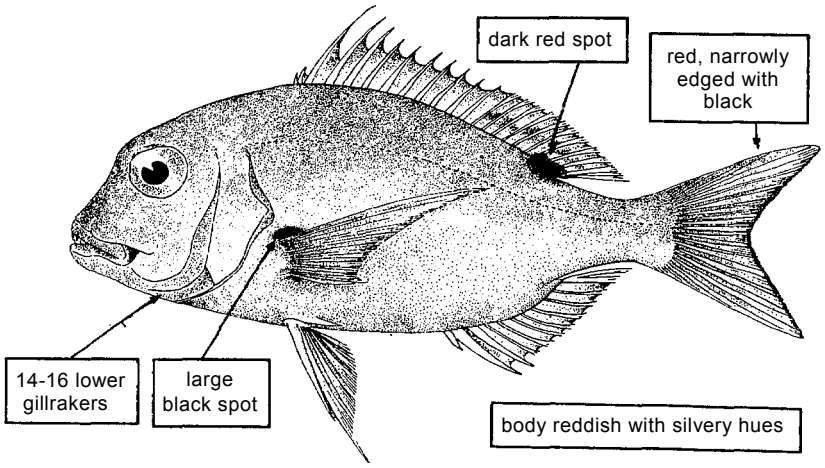
FAO names : **En** - Barnard dentex; **Fr** - Denté austral; **Sp** - Chacarona sureña.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : on trawlable bottoms between 40 and 100 m depth.

Loc.name(s) :



next page

Dentex canariensis Steindachner, 1881

Synonyms : *Dentex nufar* Valenciennes, 1830 (*sensu* Poll, 1971).

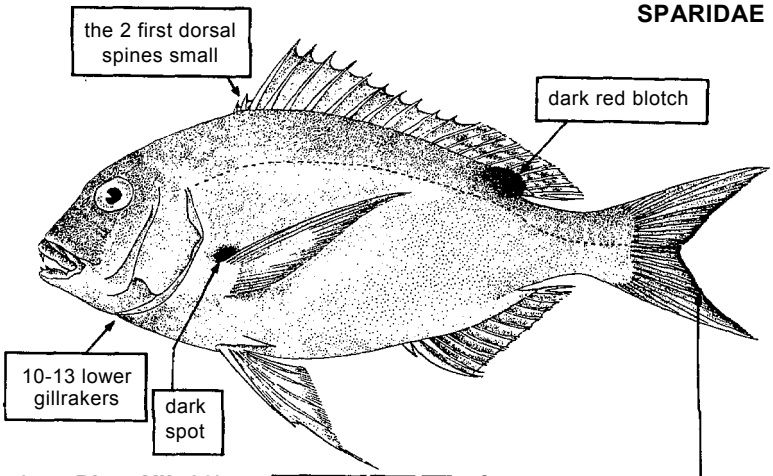
FAO names : **En** - Canary dentex; **Fr** - Denté à tache rouge; **Sp** - Chacarona de Canarias.

Size : 100 cm, common to 35 cm.

Fishing gear : bottom trawls, bottom set gillnets, hook-and-line.

Habitat : on different types of bottoms of the continental shelf.

Loc.name(s) :



(see Plate XII, 89)

Dentex congoensis Poll, 1954

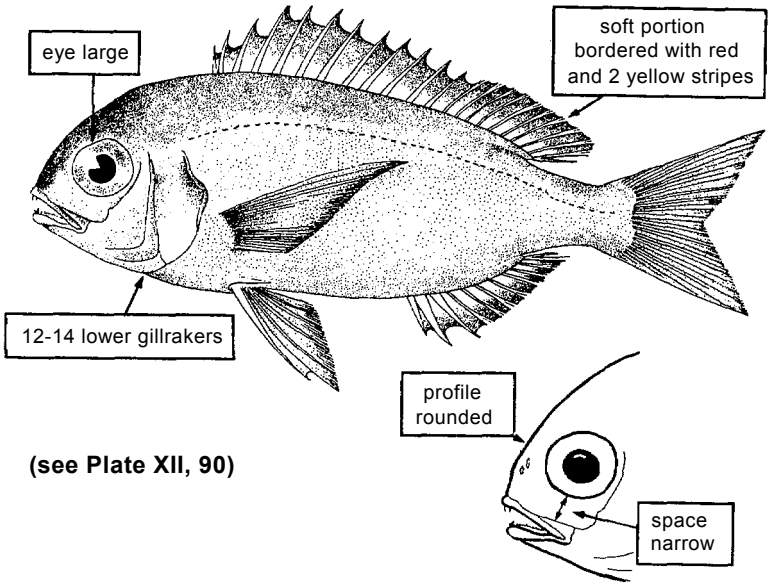
FAO names : **En** - Congo dentex; **Fr** - Denté congolais; **Sp** - Dentón congolés.

Size : 50 cm, common to 40 cm. .

Fishing gear : bottom trawls, bottom set longlines.

Habitat : found on same types of bottoms as *Dentex macrophthalmus* and *D. angolensis*, to 400 m depth; common between 150 and 200 m depth.

Loc.name(s) :



(see Plate XII, 90)

Dentex gibbosus (Rafinesque, 1810)

Synonyms : *Dentex filosus* Valenciennes, 1843.

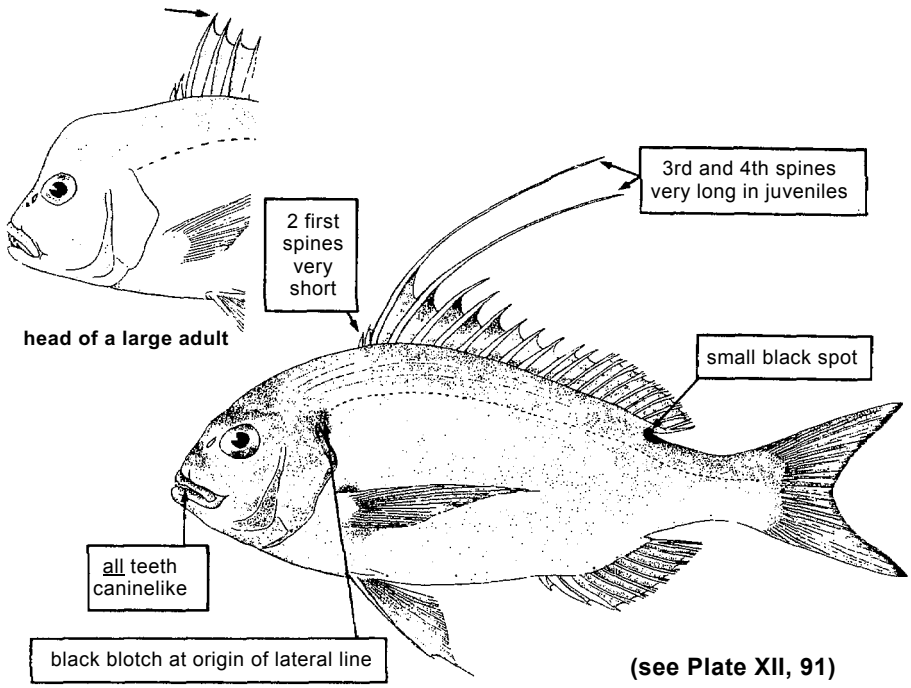
FAO names : **En** - Pink dentex; **Fr** - Gros denté rose; **Sp** - Sama de pluma.

Size : 100 cm, common to 60 cm.

Fishing gear : bottom trawls, bottom set gillnets, hook-and-line.

Habitat : on rocky and sandy bottoms from 30 to 200 m depth; juveniles in shallower waters, adults on the continental slope.

Loc.name(s) :



(see Plate XII, 91)

Dentex macrophthalmus (Bloch, 1791)

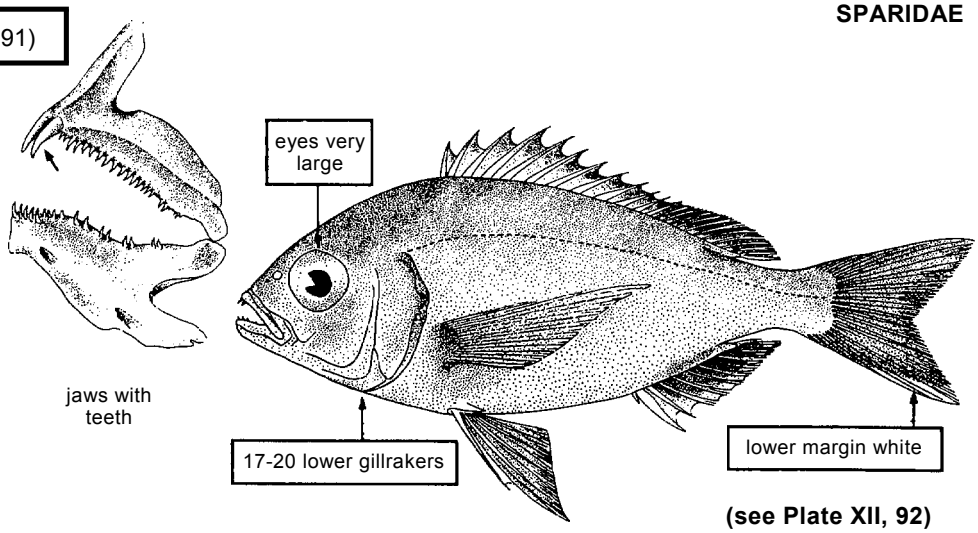
FAO names : **En** - Large-eye dentex; **Fr** - Denté à gros yeux; **Sp** - Cachucho.

Size : 65 cm, common to 30 cm.

Fishing gear : bottom trawls, bottom set gillnets, hook-and-line.

Habitat : on sandy and rocky bottoms of the continental slope.

Loc.name(s) :



(see Plate XII, 92)

Dentex maroccanus Valenciennes, 1830

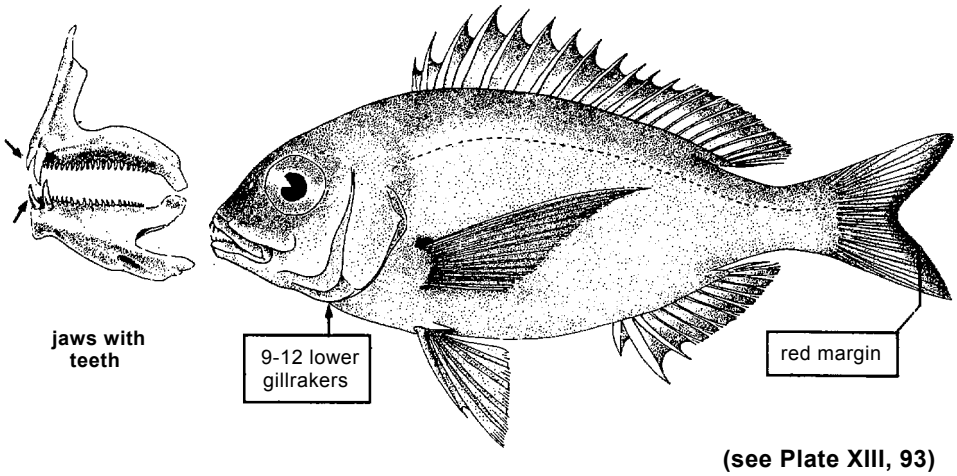
FAO names : **En** - Morocco dentex; **Fr** - Denté du Maroc; **Sp** - Sama marroquí.

Size : 45 cm, common to 25 cm.

Fishing gear : bottom trawls, line gear.

Habitat : on different types of bottoms between 20 and 500 m depth. Commonly caught together with *D. macrophthalmus*.

Loc.name(s) :



(see Plate XIII, 93)

Diplodus bellottii (Stei ndachner, 1882)

Synonyms : *Diplodus senegalensis* Cadenat, 1964.

FAO names : En - Senegal seabream; Fr - Sparaillon africain; Sp - Raspallón senegalés.

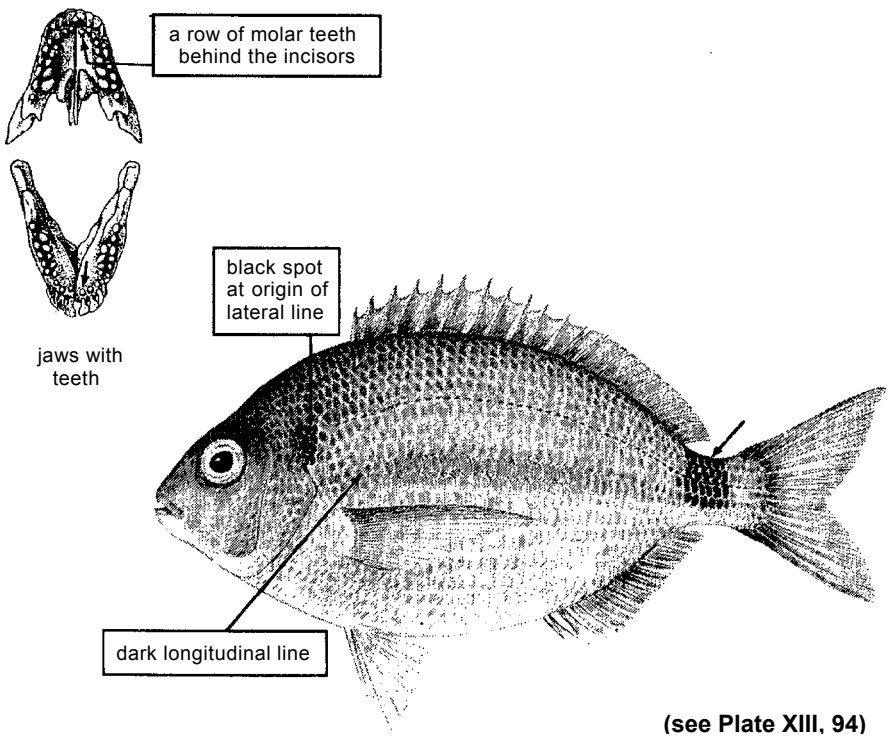
Size : 18 cm, but rarely exceeding 15 cm.

Fishing gear : bottom trawls, gillnets, beach seines, line gear.

Habitat : found in coastal waters between 30 and 50 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



(see Plate XIII, 94)

Diplodus cervinus cervinus (Lowe, 1838)

FAO names : **En** - Zebra seabream; **Fr** - Sar à grosses lèvres; **Sp** - Sargo breado.

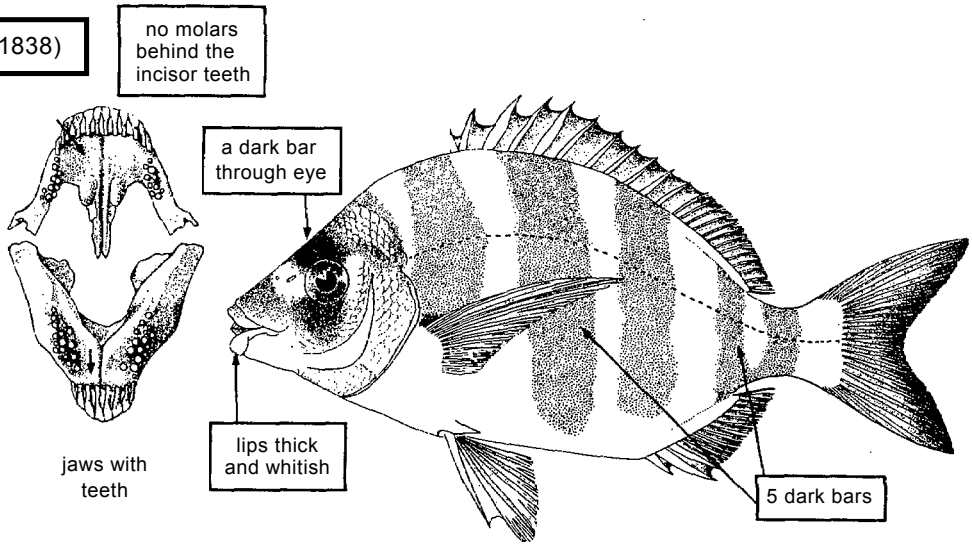
Size : 50 cm, common to 35 cm.

Fishing gear : bottom trawls, bottom set gillnets, lines.

Habitat : on sandy and rocky bottoms from 30 to 80 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



(see Plate XIII, 95)

Diplodus puntazzo (Cetti, 1777)

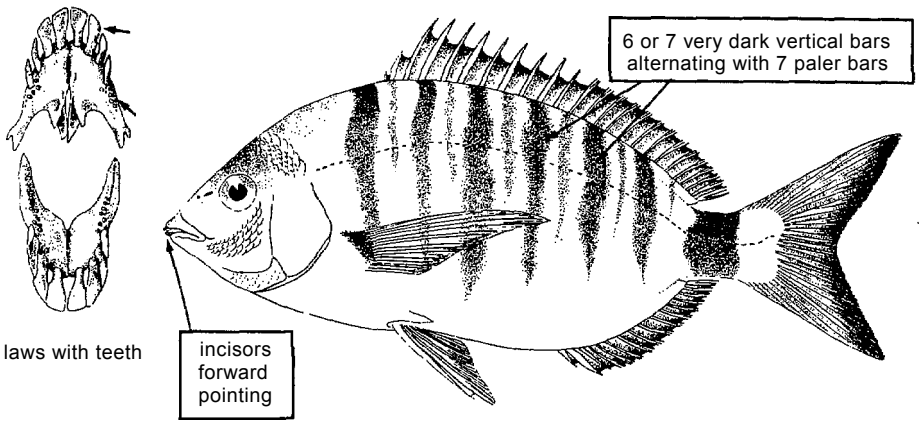
FAO names : **En** - Sharpsnout seabream; **Fr** - Sar à museau pointu; **Sp** - Sargo picudo.

Size : 60 cm, common to 30 cm.

Fishing gear : trawls, trammelnets, lines.

Habitat : on rocky bottoms to 150 m depth.

Loc.name(s) :



(see Plate XIII, 96)

Diplodus sargus cadenati de la Paz, Bauchot & Daget, 1974

Synonyms : *Diplodus sargus typicus* Cadenat, 1964.

FAO names : **En** - White seabream; **Fr** - Sar commun du Maroc; **Sp** - Sargo marroquí

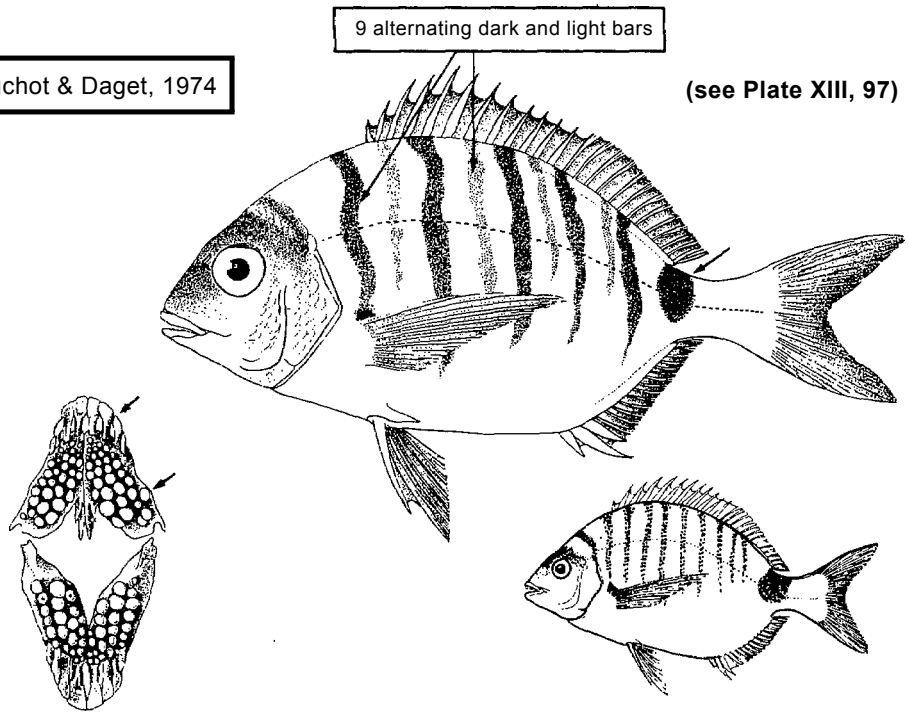
Size : 45 cm, common to 25 cm.

Fishing gear : trawls, trammelnets, beach seines, hook-and-line.

Habitat : on rocky bottoms from the coastline to 100 m depth. Very common throughout the year sometimes in large schol.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



(see Plate XIII, 97)

BONY FISHES

SPARIDAE

Diplodus vulgaris (E.Geoffroy St. Hilaire, 1817)

FAO names : **En** - Common two-banded seabream; **Fr** - Sar à tête noire; **Sp** - Sargo mojarra.

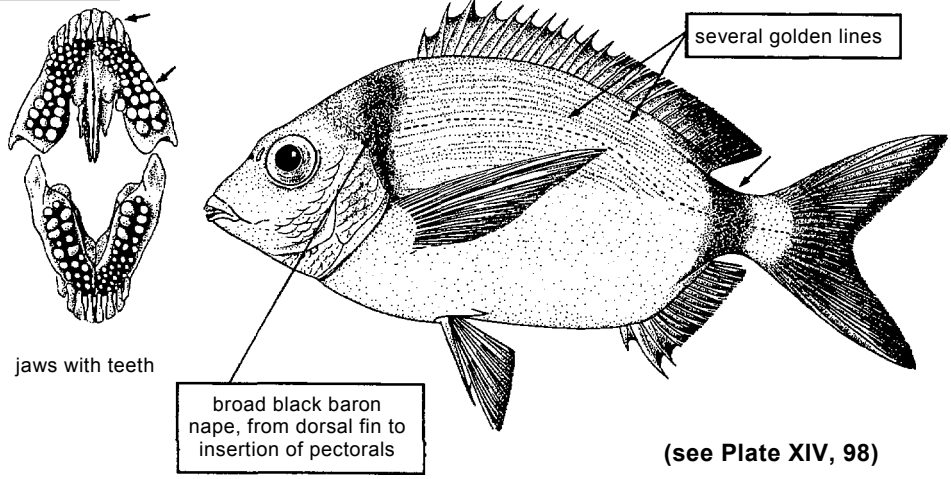
Size : 45 cm, common to 25 cm.

Fishing gear : bottom trawls, trammelnets, beach seines, hook-and-line.

Habitat : on rocky bottoms at less than 50 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



(see Plate XIV, 98)

Lithognathus mormyrus (Linnaeus, 1758)

Synonyms : *Pagellus mormyrus* (Linnaeus, 1758).

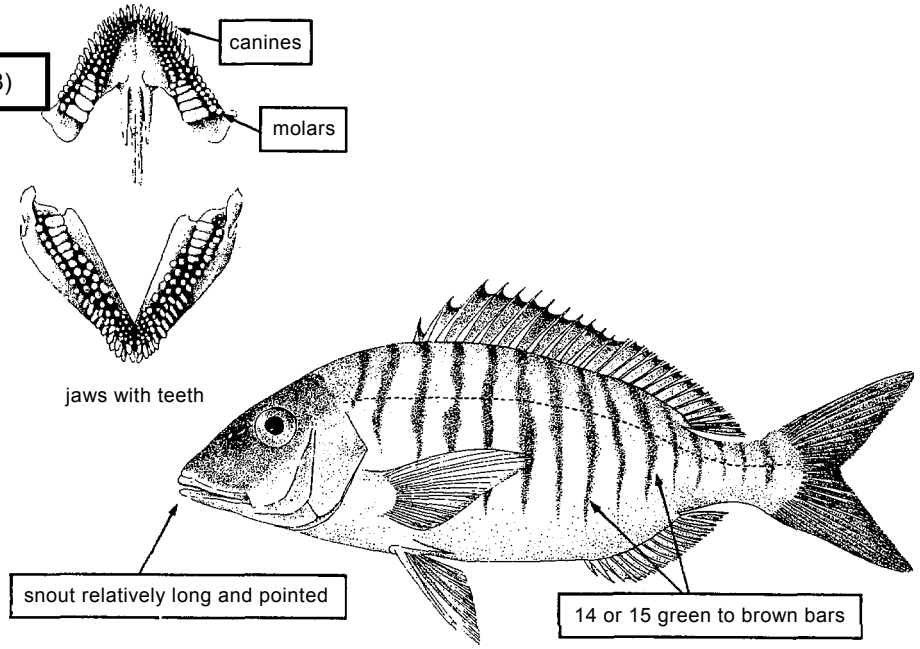
FAO names : **En** - Striped seabream; **Fr** - Marbré; **Sp** - Herrera.

Size: 60 cm, common to 30 cm.

Fishing gear : bottom trawls, beach seines, trammel nets, hook-and-line.

Habitat : on sandy, muddy and vegetated bottoms, to about 50 m depth.

Loc.name(s) :



(see Plate XIV, 99)

Oblada melanura (Linnaeus, 1758)

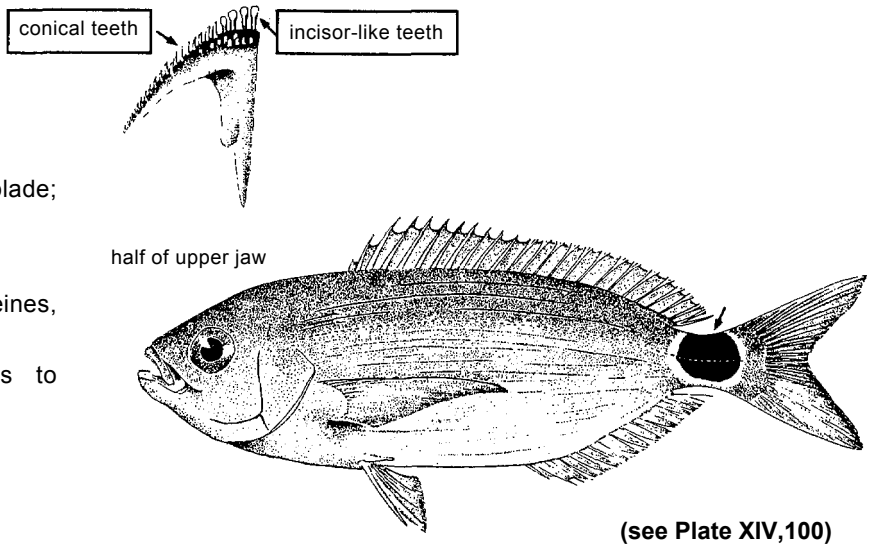
FAO names : **En** - Saddled seabream; **Fr** - Oblade; **Sp** - Oblada.

Size : 30 cm, common to 20 cm.

Fishing gear : bottom trawls, beach seines, trammel nets, line gear.

Habitat : on rocky or vegetated bottoms to about 30 m depth.

Loc.name(s) :



(see Plate XIV,100)

next page

Pagellus acarne (Risso, 1826)

FAO names : **En** - Axillary seabream; **Fr** - Pageot acarné; **Sp** - Aligote.

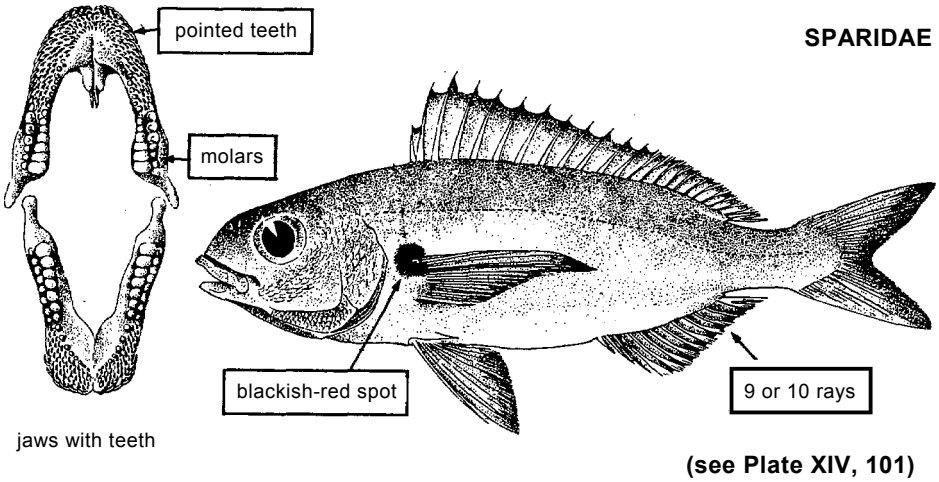
Size : 35 cm, common to 25 cm.

Fishing gear : bottom trawls, beach seines, line gear.

Habitat : demersal on various types of bottoms, from 40 to 100 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



jaws with teeth

(see Plate XIV, 101)

Pagellus bellottii Steindachner, 1882

Synonyms *: Pagellus coupei* Dieuzeide, 1960.

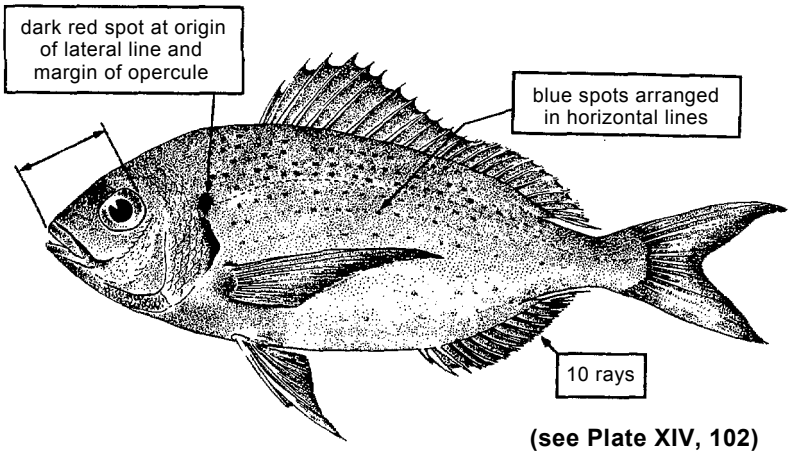
FAO names : **En** - Red pandora; **Fr** - Pageot à tache rouge; **Sp** - Breca colorada.

Size : 40 cm, common to 20 cm.

Fishing gear : bottom trawls, lines.

Habitat : on hard and sandy bottoms to 100 m depth, forming schools. The most common species of seabream, fished throughout the year.

Loc.name(s) :



(see Plate XIV, 102)

Pagellus bogaraveo (Brünnich, 1768)

Synonyms : *Pagellus centrodontus* Delaroche, 1809.

FAO names : **En** - Blackspot seabream; **Fr** - Dorade rose; **Sp** - Goraz.

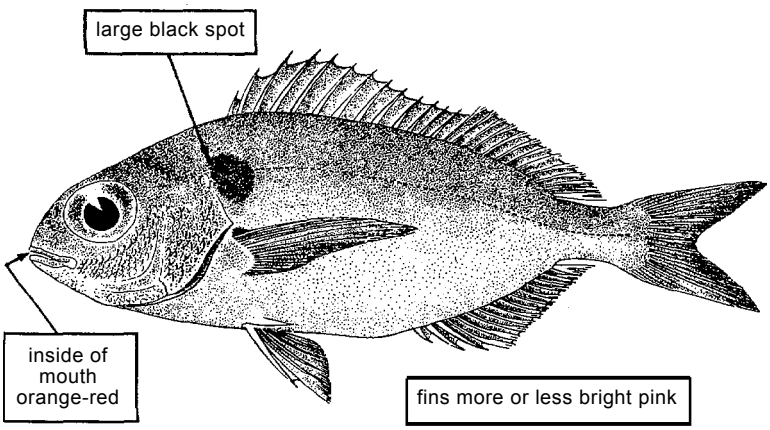
Size : 65 cm, common to 35 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : on various types of bottoms (sand, rock, mud) to 700 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Pagrus auriga Valenciennes, 1843

Synonyms : often misidentified as *Pagrus caeruleostictus* (Valenciennes, 1830)

FAO names : **En** - Redbanded seabream; **Fr** - Pagre rayé; **Sp** - Pargo sémola.

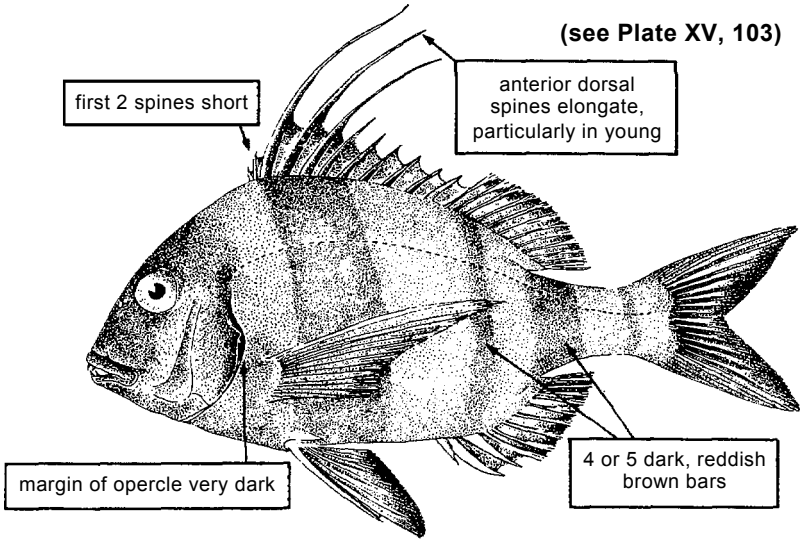
Size : 60 cm, common to 40 cm.

Fishing gear : bottom trawls, bottom set gillnets, hook-and-line.

Habitat : on rocky and sandy bottoms to 170 m depth.

Loc.name(s) :

(see Plate XV, 103)



BONY FISHES

SPARIDAE

Pagrus caeruleostictus (Valenciennes, 1830)

Synonyms : *Sparus caeruleostictus* (Valenciennes, 1830); *Sparus ehrenbergii* Valenciennes, 1830.

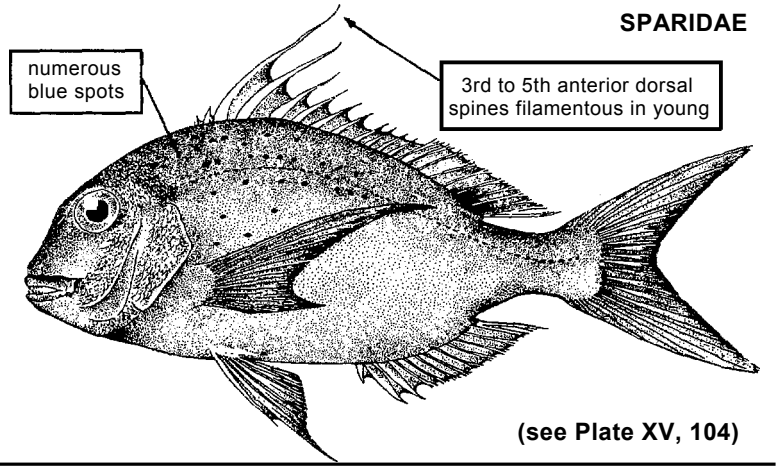
FAO names : **En** - Bluespotted seabream; **Fr** - Pagre à points bleus; **Sp** - Pargo zapata.

Size : 70 cm, common to 30 cm.

Fishing gear : bottom trawls, line gear.

Habitat : on hard bottoms as well as on mud and sand to 150 m depth (common between 30 and 50 m).

Loc.name(s) :



(see Plate XV, 104)

Pagrus pagrus africanus (Akazaki, 1962)

Synonyms : *Sparus pagrus africanus* Akazaki, 1962; *Pagrus pagrus* Linnaeus, 1758 (p.p.); *Pagrus vulgaris* Valenciennes, 1830 (p.p.).

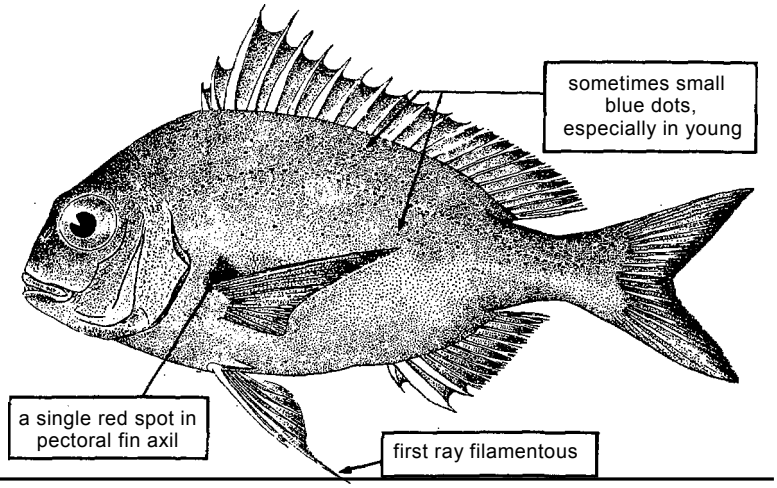
FAO names : **En** - Southern common seabream; **Fr** - Pagre des tropiques; **Sp** - Pagro sureño.

Size : 75 cm, common to 30 cm.

Fishing gear : bottom trawls, bottom set nets, lines.

Habitat : demersal, on hard bottoms as well as on sand and mud, to 200 m depth.

Loc.name(s) :



Sarpa salpa (Linnaeus, 1758)

Synonyms : *Boops salpa* (Linnaeus, 1758).

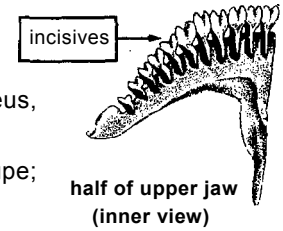
FAO names : **En** - Salema; **Fr** - Saupe; **Sp** - Salema.

Size : 45 cm, common to 30 cm.

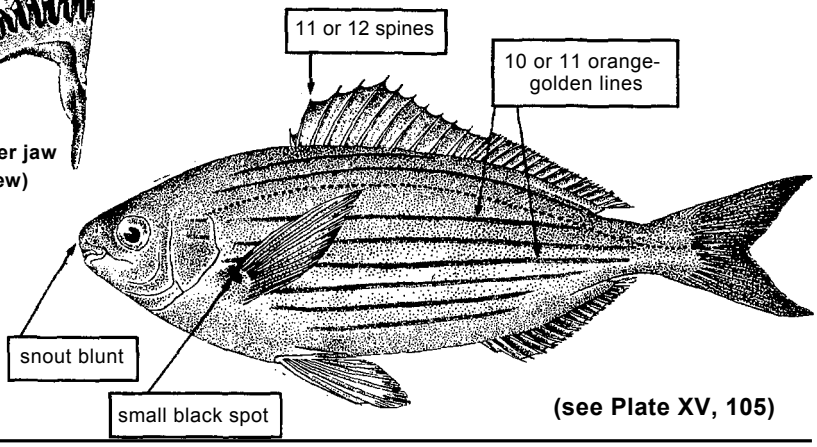
Fishing gear : bottom trawls, beach seines, trammelnets, lines.

Habitat : on rocky, sandy and vegetated bottoms in coastal waters.

Loc.name(s) :



half of upper jaw (inner view)



(see Plate XV, 105)

Sparus aurata Linnaeus,1758

FAO names : **En** - Gilthead seabream; **Fr** - Dorade royale; **Sp** - Pargo dorado.

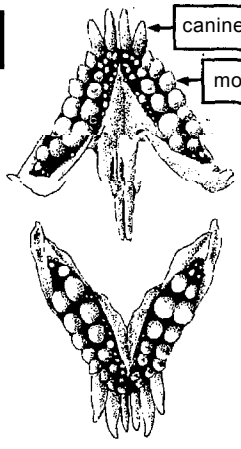
Size : 70 cm, common to 40 cm.

Fishing gear : bottom trawls, beach seines, lines.

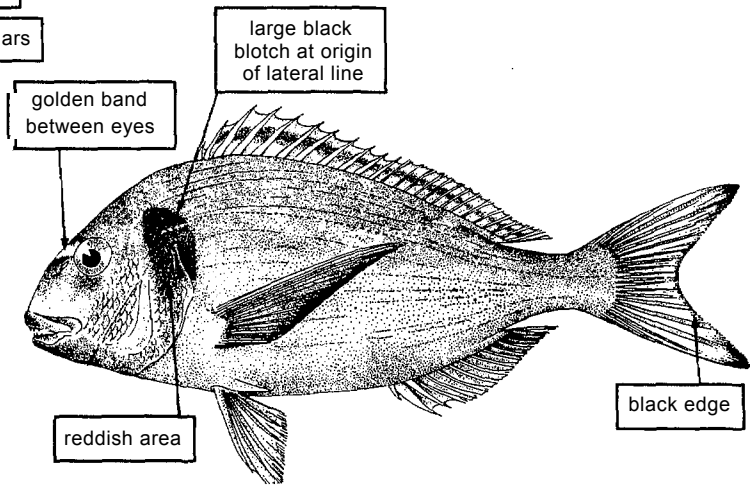
Habitat : on coastal waters on sandy and vegetated bottoms.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :

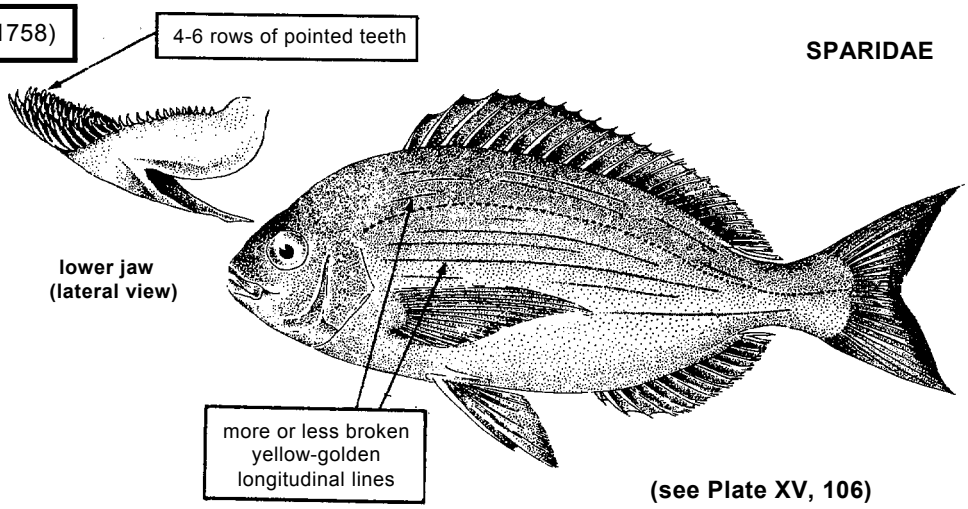


jaws with teeth



SPARIDAE

Spondyliosoma cantharus (Linnaeus, 1758)



Synonyms : *Cantharus cantharus* (Linnaeus, 1758).

FAO names : **En** - Black seabream; **Fr** - Dorade grise; **Sp** - Pargo chopa.

Size : 60 cm, common to 30 cm.

Fishing gear : bottom and pelagic trawls, beach seines, lines.

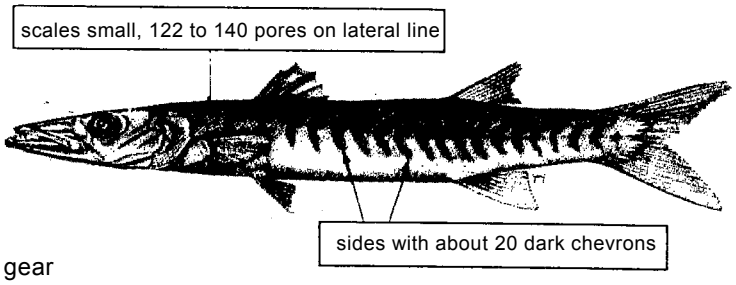
Habitat : demersal from 100 to 150 m depth.

Loc.name(s) :

(see Plate XV, 106)

SPHYRAENIDAE

Sphyraena afra Peters, 1844



Synonyms : *Sphyraena piscatorum* Cadenat, 1964; *Sphyraena piscatorium* Williams, 1968; also cited incorrectly as *Sphyraena jello* (non Cuvier) although this species does not occur in the eastern Atlantic.

FAO names : **En** - Guinean barracuda; **Fr** - Bécune guinéenne; **Sp** - Espetón de Guinea.

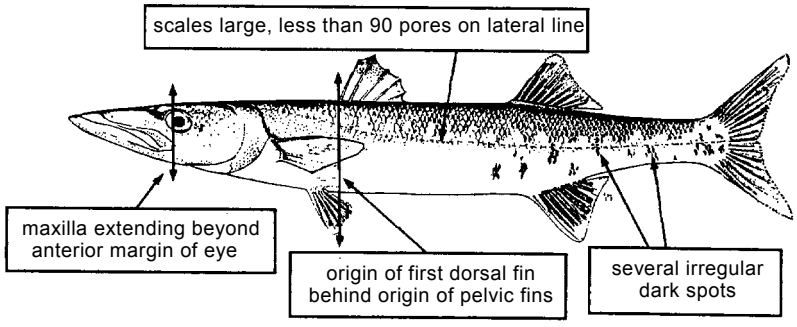
Size : 205 cm, common to 80 cm.

Fishing gear : bottom trawls, set gillnets, handlines, trolling gear

Habitat : found in coastal waters and estuaries.

Loc.name(s) :

Sphyraena barracuda (Walbaum, 1792)



Synonyms : *Sphyraena picuda* Bloch & Schneider, 1801.

FAO names : **En** - Great barracuda; **Fr** - Barracuda; **Sp** - Picuda barracuda.

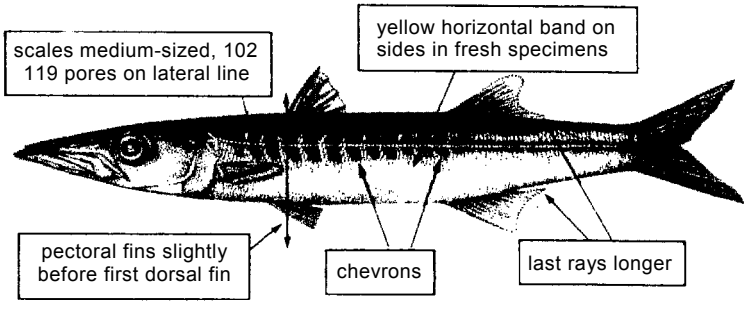
Size : 180 cm, common to 140 cm.

Fishing gear : bottom trawls, bottom set nets, purse seines, trolling gear, hooks..

Habitat : very little information available; apparently a migratory species.

Loc.name(s) :

Sphyraena guachancho Cuvier, 1829



Synonyms : *Sphyraena dubia* Bleeker, 1863; *Sphyraena guaguanche* Poey, 1860.

FAO names : **En** - Guachanche barracuda; **Fr** - Bécune guachanche; **Sp** - Picuda guaguanche.

Size : 70 cm, common to 50 cm.

Fishing gear : trawls, bottom set nets, handlines.

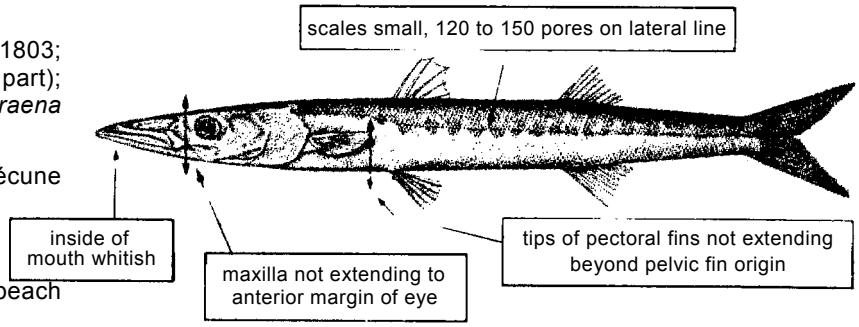
Habitat : estuaries and muddy bottoms in turbid coastal waters from 3 to 100 m depth.

Loc.name(s) :

BONY FISHES

SPHYRAENIDAE

Sphyraena sphyraena (Linnaeus, 1758)



Synonyms : *Sphyraena spet* Lacepède, 1803; *Sphyraena vulgaris* Cuvier, 1829 (in part); *Sphyraena bocagei* Osorio, 1891; *Sphyraena sphyraena bocage*i [Cadenat, 19641.

FAO names : **En** - European barracuda; **Fr** – Bécune européenne; **Sp** - Espetón.

Size : 165 m, common to 50 cm.

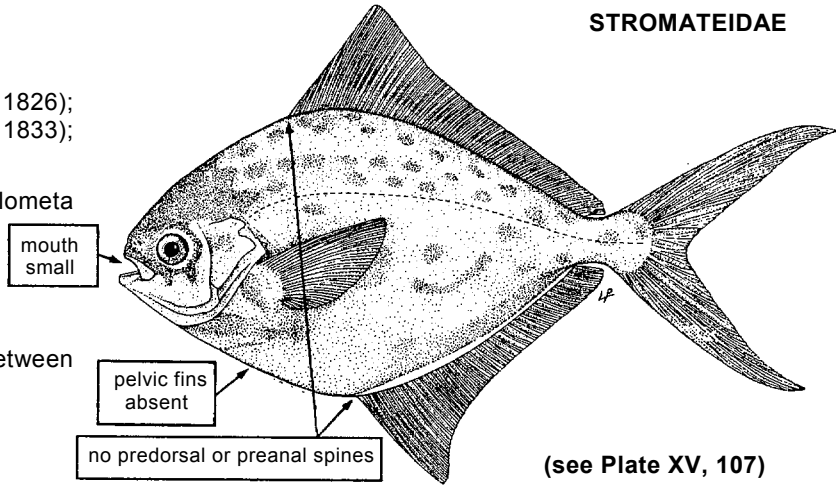
Fishing gear : trawls, set gillnets, seines, beach seines, handlines, hook-and-line.

Habitat : in coastal and offshore waters.

Loc.name(s) :

STROMATEIDAE

Stromateus fiatola Linnaeus, 1758



Synonyms : *Stromateus fasciatus* (Risso, 1826); *Stromateus microchirus* (Cuvier & Valenciennes, 1833); *Stromateus capensis* Pappe, 1866.

FAO names : **En** - Butterfish; **Fr** - Fiatole; **Sp** - Palometa fiátola.

Size : 50 cm, common to 35 cm.

Fishing gear : bottom trawls, purse seines.

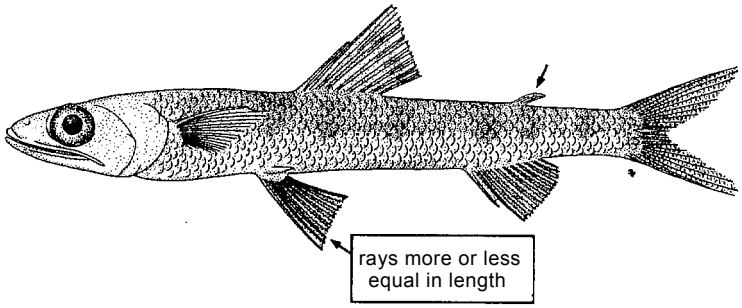
Habitat : pelagic, schooling in coastal waters, between 10 and 70 m depth.

Loc.name(s) :

(see Plate XV, 107)

SYNODONTIDAE

Saurida brasiliensis Norman, 1935



Synonyms : *Saurida parri* Norman, 1935.

FAO names : **En** - Brazilian lizardfish; **Fr** - Lagarto brasileiro; **Sp** - Anoli brésilien.

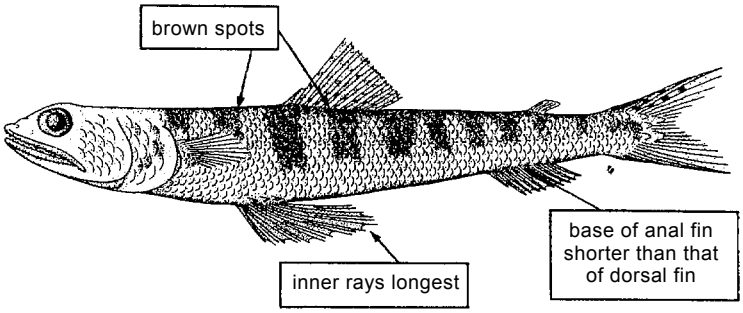
Size : 25 cm, common to 15 cm.

Fishing gear : bottom trawls.

Habitat : demersal on the continental shelf from 18 to 410 m depth.

Loc.name(s) :

Synodus saurus (Linnaeus, 1758)



Synonyms : *Saurus griseus* Lowe, 1938; *Synodus cinereus* Hildebrand, 1948.

FAO names : **En** - Atlantic lizardfish; **Fr** - Anoli de l'Atlantique; **Sp** - Pez de San Francisco.

Size : 40 cm, common to 25 cm.

Fishing gear : bottom trawls, bottom set nets, trammelnets, hook-and-line.

Habitat :

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :

next page

BONY FISHES

SYNODONTIDAE

Synodus synodus (Linnaeus, 1758)

Synonyms : *Synodus meleagrides* (Valenciennes, 1847); *Synodus atlanticus* Johnson, 1863; Synodus nicholsi Breder, 1927.

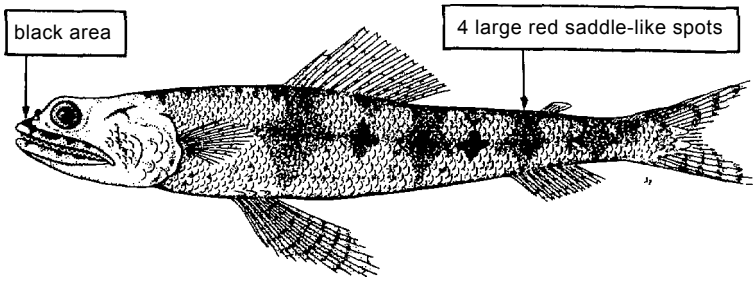
FAO names : **En** - Diamond lizardfish; **Fr** - Anoli commun; **Sp** - Lagarto diamante.

Size : 30 cm, common to 20 cm.

Fishing gear : bottom trawls, artisanal gear. **Habitat** : demersal in coastal waters to 90 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Trachinocephalus myops (Forster, 1801)

(see Plate XV, 108)

Synonyms : *Trachinocephalus hypozona* (Ogilby, 1897).

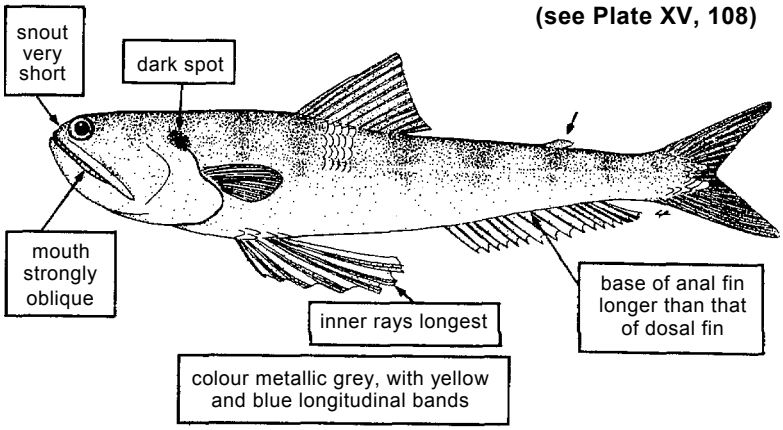
FAO names : **En** - Bluntnose lizardfish; **Fr** - Anoli serpent; **Sp** - Lagarto ñato.

Size : 30 cm, common to 25 cm.

Fishing gear : bottom trawls, bottom set nets, beach seines, hook-and-line.

Habitat : on sandy and rocky bottoms to 150 m depth.

Loc.name(s) :



TETRAODONTIDAE

Ephippion guttifer (Bennett, 1831)

Synonyms : *Hemiconiatus guttifer* Bennett, 1831

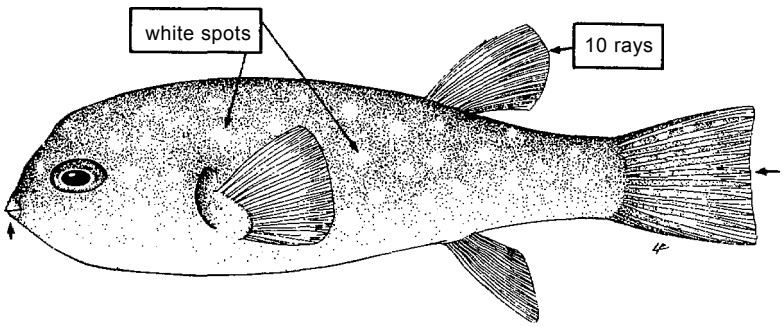
FAO names : **En** - Prickly puffer; **Fr** - Compère à points blancs; **Sp** - Tamboril de tierra.

Size : 80 cm, common to 55 cm.

Fishing gear : bottom trawls, bottom set nets, beach seines.

Habitat : common in shallow coastal waters; also in estuaries.

Loc.name(s) :



Lagocephalus laevigatus (Linnaeus, 1766)

Synonyms : *Lagocephalus pachycephalus* Jordan & Rutter, 1897.

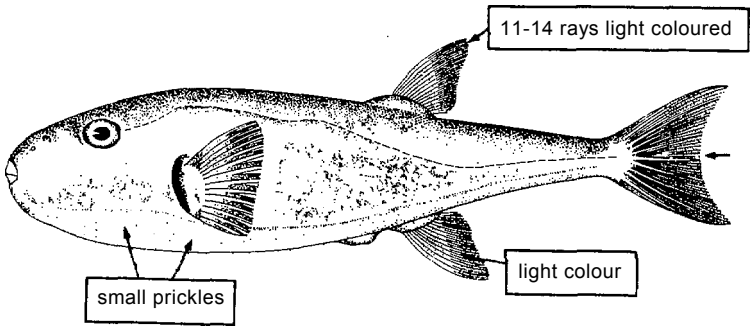
FAO names : **En** - Smooth puffer; **Fr** - Compère lisse; **Sp** -Tamboril mondeque.

Size : 70 cm, common to 60 cm.

Fishing gear : hook-and-line, set nets, beach seines.

Habitat : common in coastal waters, on sand and bottoms.

Loc.name(s) :



(see Plate XVI, 109)

TETRAODONTIDAE

Lagocephalus lagocephalus (Linnaeus, 1758)

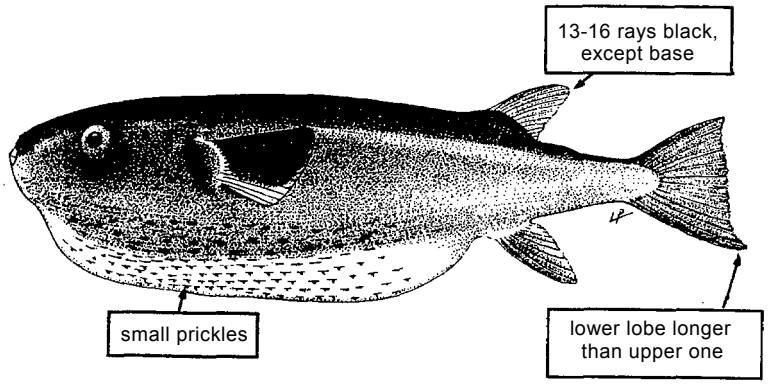
FAO names : **En** - Rabbit puffer; **Fr** - Compère lièvre; **Sp** - Tamboril liebre.

Size : max. 60 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : an oceanic species, pleagic in surface waters as well as demersal.

Loc.name(s) :



Sphoeroides marmoratus (Lowe, 1839)

Synonyms : *Sphoeroides sprengleri* (not Bloch, 1758).

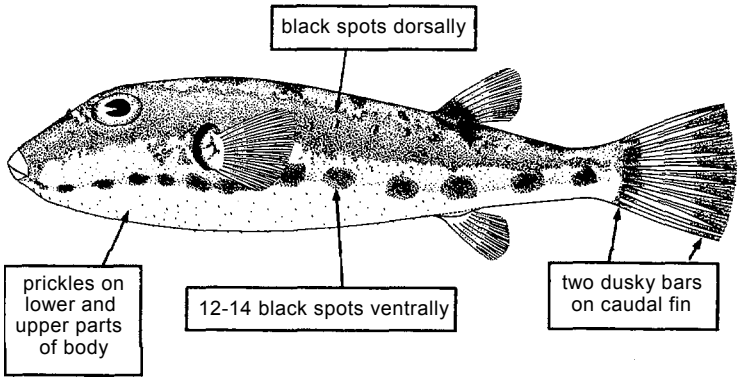
FAO names : **En** - Guinean puffer; **Fr** - Compère de Guinée; **Sp** - Tamboril de Guinea.

Size : common to 25 cm.

Fishing gear : bottom trawls, beach seines, hook-and-line.

Habitat : inhabits shallow waters, from 5 to 45 m depth.

Loc.name(s) :



Sphoeroides pachygaster (Müller & Troschel, 1848)

Synonyms : *Sphoeroides cutaneous* Günther, 1870.

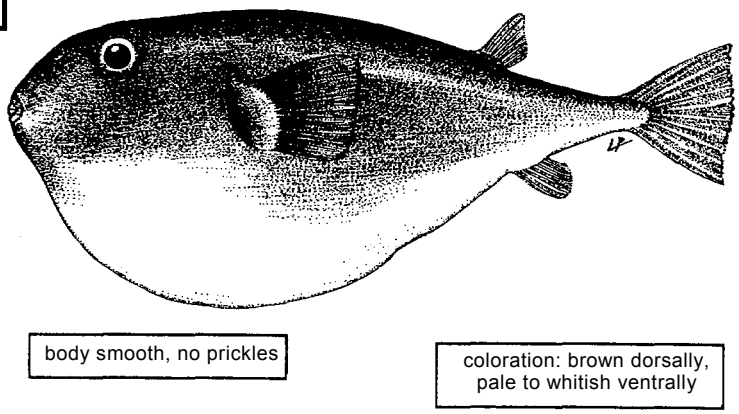
FAO names : **En** - Blunthead puffer; **Fr** - Compère émoussé; **Sp** - Tamboril ñato.

Size : 34 cm.

Fishing gear : bottom trawls.

Habitat : from 20 to 200 m depth; on sandy, muddy and rocky bottoms.

Loc.name(s) :



TRACHICHTHYIDAE

Gephyroberyx darwini (Johnson, 1866)

Synonyms : *Trachichthys darwini* Johnson, 1866.

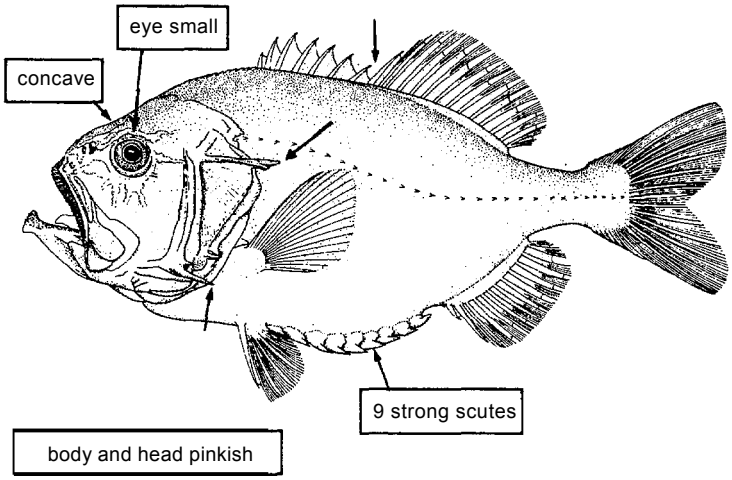
FAO names : **En** - Darwin's slimehead; **Fr** - Hoplostète de Darwin; **Sp** - Reloj de Darwin.

Size : 60 cm, common to 45 cm.

Fishing gear : bottom trawls.

Habitat : demersal between 100 and at least 1000 m depth.

Loc.name(s) :



TRACHICHTHYIDAE

Hoplostethus cadenati Quéro, 1974

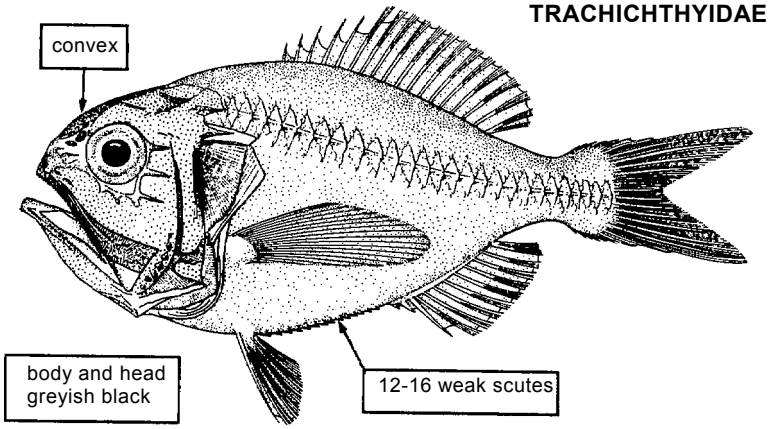
FAO names : **En** - Black slimehead; **Fr** - Hoplostète noir; **Sp** - Reloj negro.

Size : 30 cm.

Fishing gear : trawls (bycatch).

Habitat : demersal between 20 and at least 500 m depth.

Loc.name(s) :



Hoplostethus mediterraneus Cuvier, 1829

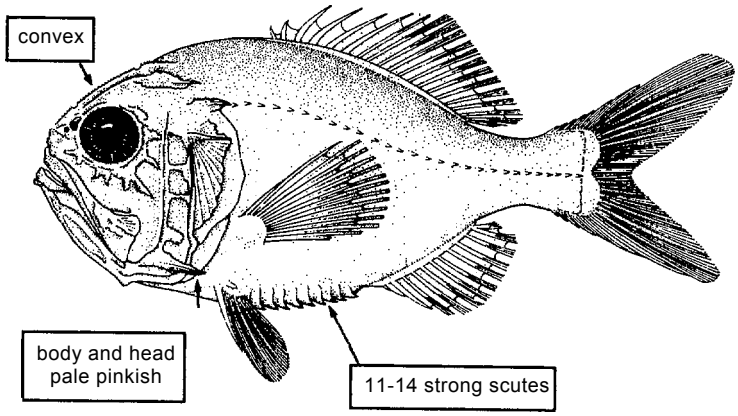
FAO names : **En** - Mediterranean slimehead; **Fr** - Hoplostéte argente; **Sp** - Reloj mediterraneo.

Size : 42 cm, common to 20 cm.

Fishing gear : bottom trawls, longlines.

Habitat : found on the edge of the continental shelf and on the slope, apparently demersal; from about 100 to 800 m depth.

Loc.name(s) :



TRACHINIDAE

Trachinus araneus Cuvier, 1829

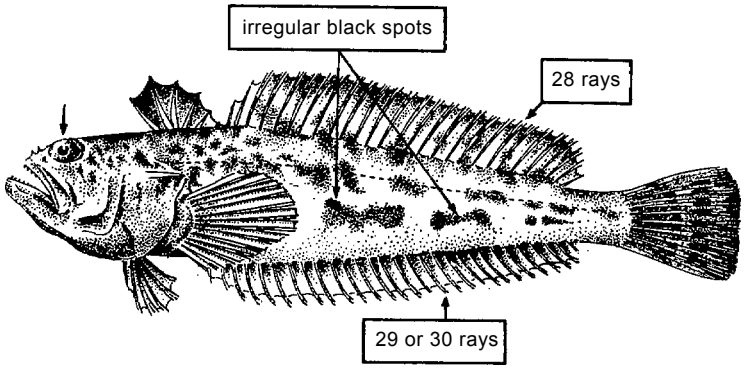
FAO names : **En** - Spotted weever; **Fr** - Vive aráignée; **Sp** - Araña.

Size : 45 cm, common to 25 cm.

Fishing gear : bottom trawls, artisanal gear.

Habitat : shallow waters to about 100 m depth, burrowing in the sand.

Loc.name(s) :



Trachinus armatus (Bleeker, 1862)

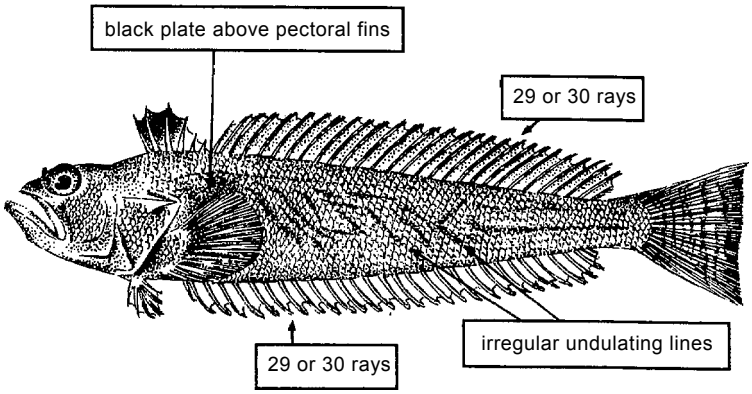
FAO names : **En** - Guinean weever; **Fr** - Vive guinéenne; **Sp** - Araña de Guinea.

Size : 35 cm, common to 25 cm.

Fishing gear : bottom trawls, trammelnets, lines, traps, beach seines.

Habitat : on vegetated grounds or burrowing in sand or mud, between 15 and 150 m depth.

Loc.name(s) :



(see Plate XVI, 110)

next page

BONY FISHES

TRACHINIDAE

Trachinus collignoni Roux, 1957

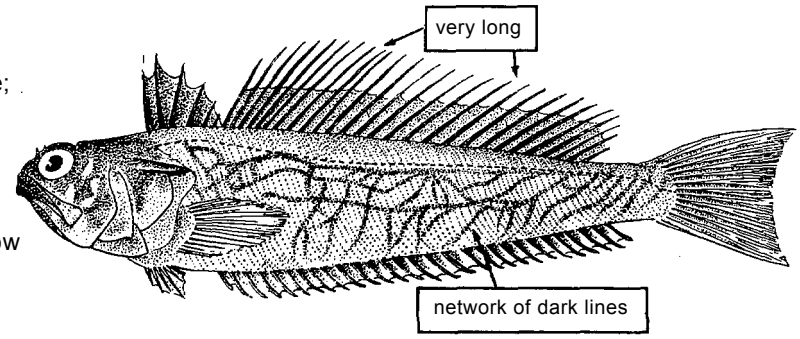
FAO names : **En** - Sailfin weever; **Fr** - Vive peigne; **Sp** - Araña aletona.

Size : 15 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : on soft bottoms in littoral and shallow coastal waters.

Loc.name(s) :



Trachinus lineolatus Fischer, 1885

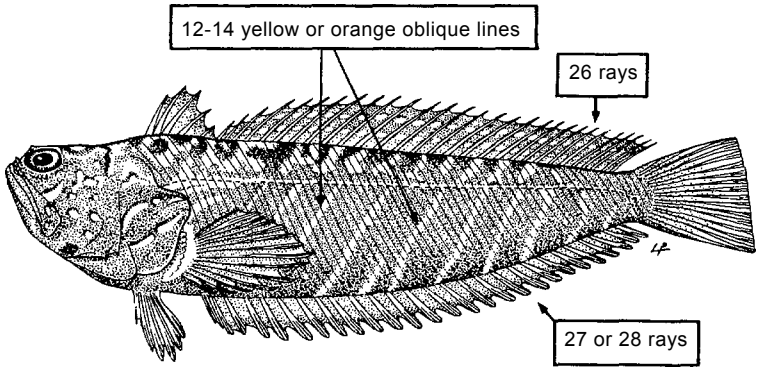
FAO names : **En** - Striped weever; **Fr** - Vive rayée; **Sp** - Escorpión rayado.

Size : 15 cm, common to 10 cm.

Fishing gear : bottom trawls, beach seines.

Habitat : on soft bottoms in littoral and shallow coastal waters.

Loc.name(s) :



Trachinus pellegrini Cadenat, 1937

(see Plate XVI, 111)

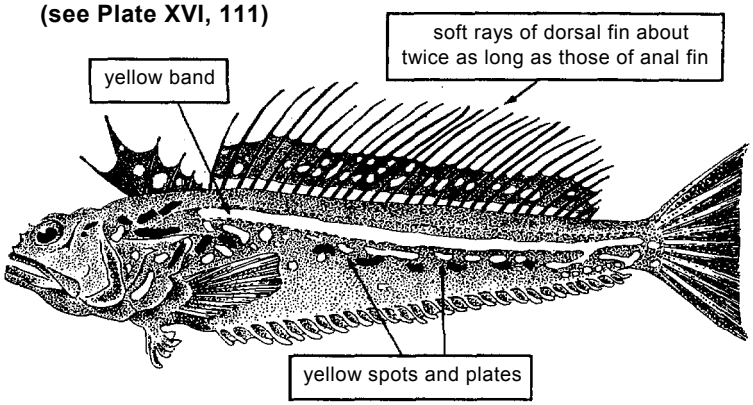
FAO names : **En** - Cape Verde weever; **Fr** - Vive du Cap Vert; **Sp** - Araña de Cabo Verde

Size : to at least 20 cm, common to 15 cm.

Fishing gear : bottom trawls, beach seines and other artisanal gear.

Habitat : on sandy and muddy bottoms in littoral and coastal waters to about 150 m depth.

Loc.name(s) :



Trachinus radiatus Cuvier, 1829

Synonyms : *Trachinus pardalis* Bleeker, 1862.

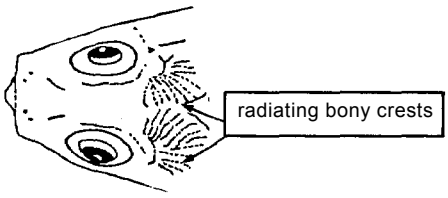
FAO names : **En** - Starry weever; **Fr** - Vive à tête rayonnée; **Sp** - Víbora.

Size : 40 cm, common to 25 cm.

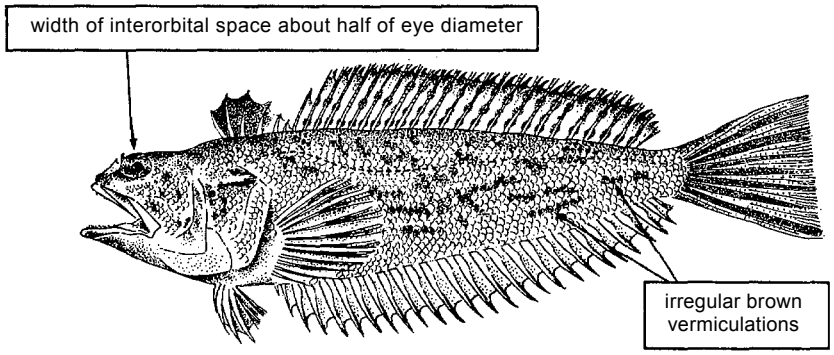
Fishing gear : bottom trawls.

Habitat : on rocky and sandy bottoms in deep waters. Abundant in the warm season.

Loc.name(s) :



top of head



TRACHINIDAE

Trachinus vipera Cuvier, 1829

Synonyms : *Echiichthys vipera* (Cuvier, 1829).

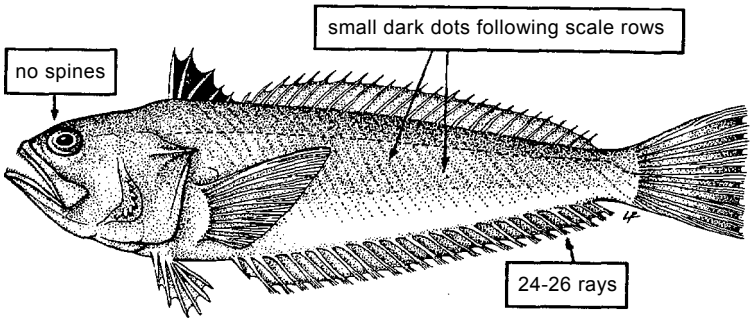
FAO names : **En** - Lesser weever; **Fr** - Petite vive; **Sp** - Salvariego.

Size : 15 cm, common to 10 cm.

Fishing gear : bottom trawls, traps, lines, beach seines.

Habitat : on sandy bottoms in littoral and shallow coastal waters.

Loc.name(s) :



TRICHIURIDAE

Aphanopus carbo Lowe, 1839

Synonyms : *Aphanopus microphthalmus* Norman, 1939; *Aphanopus acus* Maul, 1948.

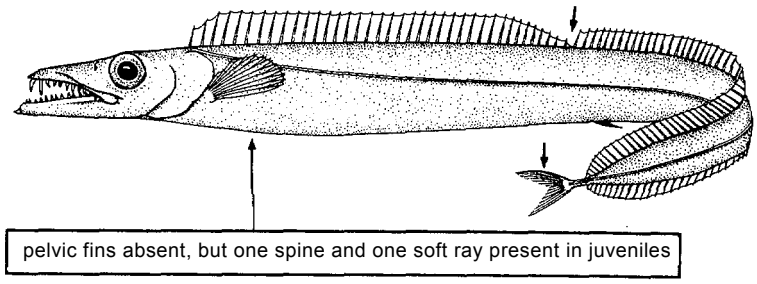
FAO names : **En** - Black scabbardfish; **Fr** - Sabre noir; **Sp** - Sable negro.

Size : 114 cm, common to 75 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : benthopelagic from 20 to 1600 m depth.

Loc.name(s) :



Benthodesmus tenuis (Günther, 1877)

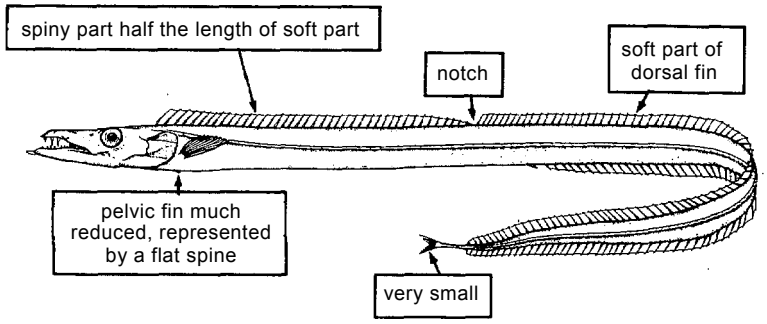
FAO names : **En** - Frostfish; **Fr** - Sabre fleuret; **Sp** - Cintilla.

Size : to 122 cm standard length, common to 90 cm standard length.

Fishing gear : trawls, longlines (bycatch).

Habitat : benthopelagic, mostly over the continental slope; ranges from about 200 to 800 m depth.

Loc.name(s) :



Lepidopus caudatus (Euphrasen, 1788)

Synonyms : *Lepidopus lex* Phillipps, 1932.

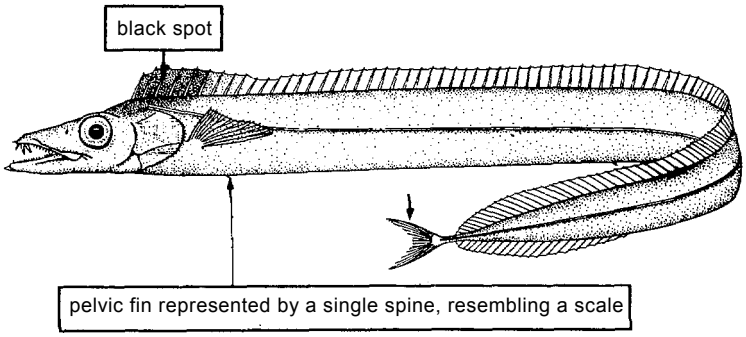
FAO names : **En** - Silver scabbardfish; **Fr** - Sabre argenté; **Sp** - Pez cinto.

Size : 200 cm, common to 150 cm.

Fishing gear : trawls, longlines.

Habitat : benthopelagic, from 400 to 600 m depth.

Loc.name(s) :



Trichiurus lepturus Linnaeus, 1758

TRICHIURIDAE

Synonyms : *Trichiurus haumela* (Forsskål, 1775).

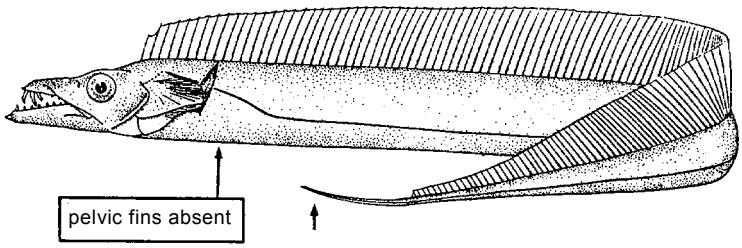
FAO names : **En** - Largehead hairtail; **Fr** - Poisson sabre commun; **Sp** - Pez sable.

Size : 150 cm, common to 100 cm.

Fishing gear : bottom trawls, longlines, gillnets, purse seines, traps, handlines.

Habitat : benthopelagic (to 350 m depth), but also found on muddy bottoms in coastal waters and estuaries.

Loc.name(s) :



Chelidonichthys capensis (Cuvier, 1829)

TRIGLIDAE

Synonyms : *Trigla capensis* Cuvier, 1829.

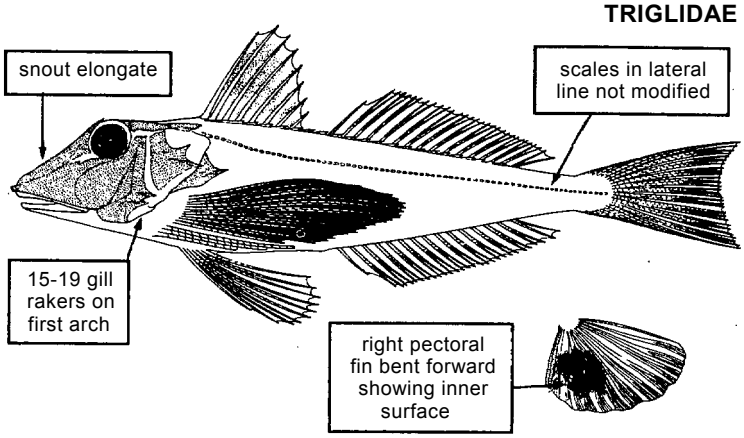
FAO names : **En** - Cape gurnard; **Fr** - Grondin du Cap; **Sp** - Rubio del Cabo.

Size : 75 cm, common to 35 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and muddy bottoms from the coastline to at least 100 m depth.

Loc.name(s) :



Chelidonichthys gabonensis (Poll & Roux, 1955)

Synonyms : *Trigla gabonensis* Poll & Roux, 1955; *Chelidonichthys senegalensis* Puyo, 1957.

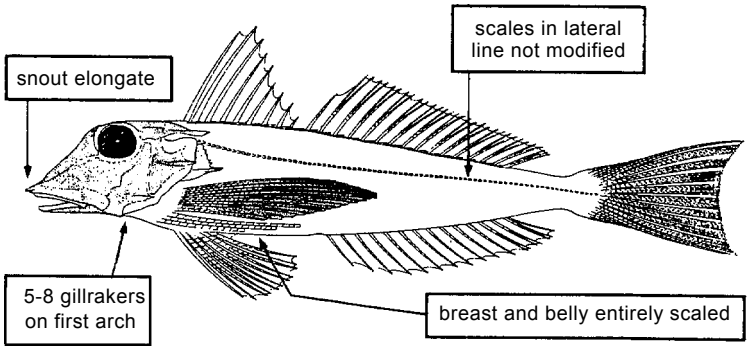
FAO names : **En** - Gabon gurnard; **Fr** - Grondin du Gabon; **Sp** - Rubio del Gabón.

Size : 31 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : on sandy bottoms of the continental shelf to about 200 m depth.

Loc.name(s) :



Chelidonichthys (Trigloporus) lastoviza (Bonnaterre, 1788)

Synonyms : *Trigloporus lastoviza* (Bonnaterre, 1788); *Trigla lastoviza* Bonnaterre, 1788.

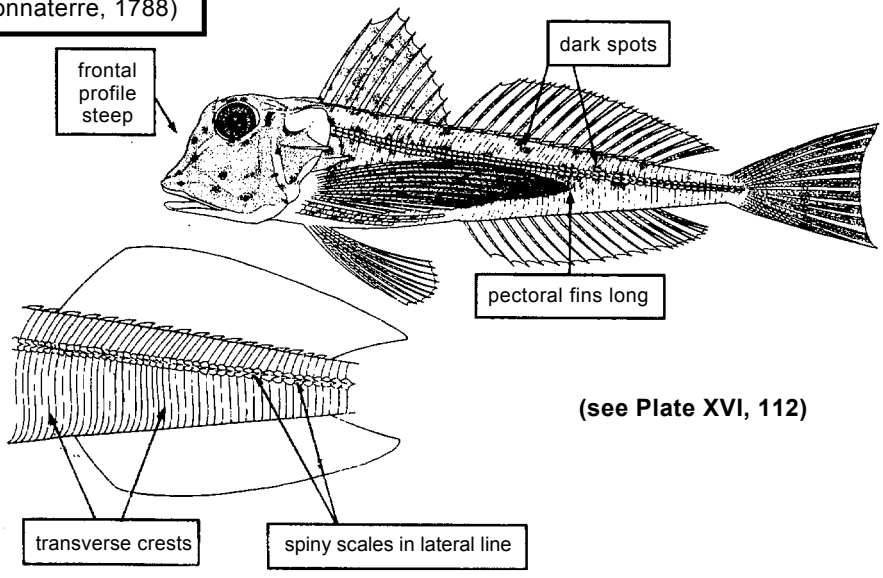
FAO names : **En** - Streaked gurnard; **Fr** - Grondin camard; **Sp** - Rubio.

Size : 40 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and rocky bottoms, to 150 cm depth.

Loc.name(s) :



(see Plate XVI, 112)

Chelidonichthys lucerna (Linnaeus, 1758)

Synonyms : *Trigla lucerna* Linnaeus, 1758.

FAO names : **En** - Tub gurnard; **Fr** - Grondin perlon; **Sp** - Bejel.

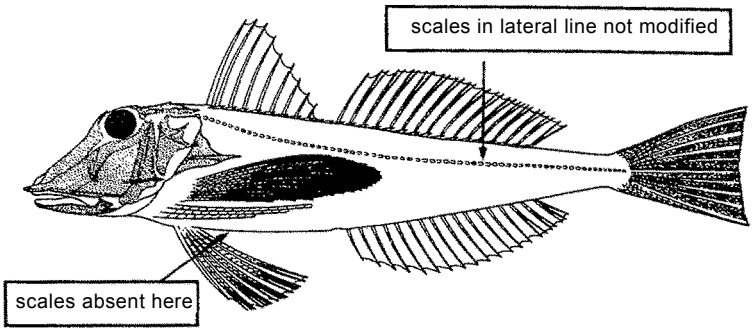
Size : 75 cm, common to 35 cm.

Fishing gear : bottom trawls.

Habitat : on sandy, muddy and gravel bottoms, from 20 to 200 m depth.

Remarks : presence to be confirmed.

Loc.name(s) :



Lepidotrigla cadmani Regan, 1915

Synonyms : *Lepidotrigla laevispinnis* Blache & Ducroz, 1960.

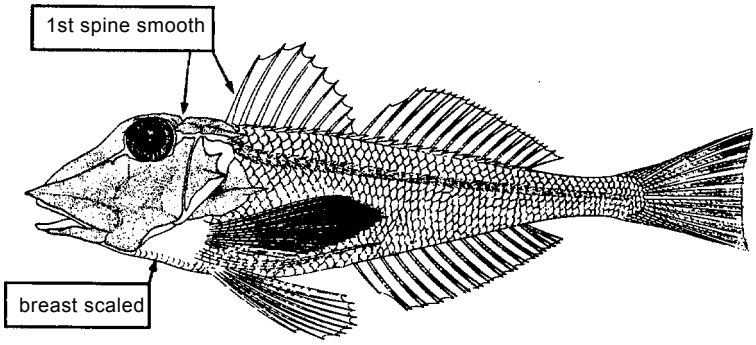
FAO names : **En** - Scalebreast gurnard; **Fr** - Grondin écailleux; **Sp** - Cabéte escamudo.

Size : 30 cm, common to 20 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and muddy bottoms from 30 to 400 m depth.

Loc.name(s) :



Lepidotrigla carolae Richards, 1968

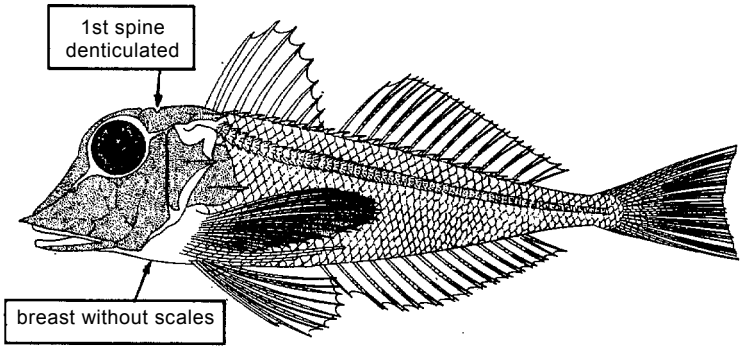
FAO names : **En** - Carol's gurnard; **Fr** - Grondin de Carole; **Sp** - Carolina.

Size : 18 cm, common to 15 cm.

Fishing gear : bottom trawls, set nets.

Habitat : on sandy and muddy bottoms, from 10 to 300 m depth.

Loc.name(s) :



Trigla lyra Linnaeus, 1758

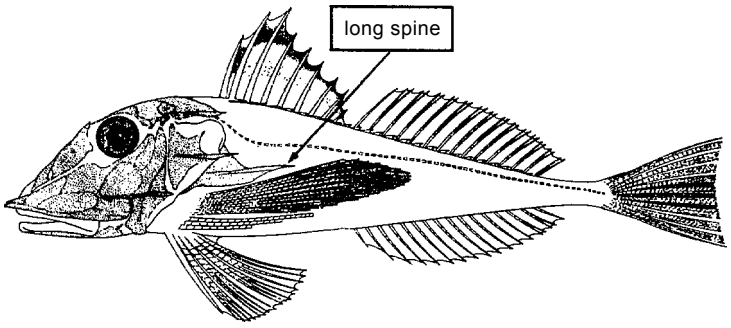
FAO names : **En** - Piper gurnard; **Fr** - Grondin lyre; **Sp** - Garneo.

Size : 60 cm, common to 30 cm.

Fishing gear : bottom trawls.

Habitat : found on the continental shelf and the upper slope.

Loc.name(s) :

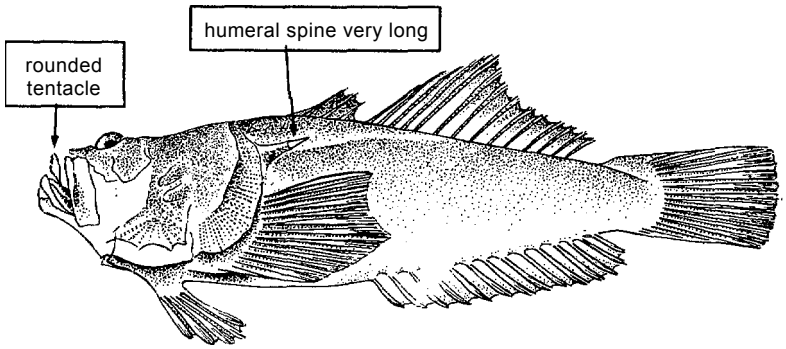


next page

BONY FISHES

URANOSCOPIDAE

Uranoscopus albesca Regan, 1915



FAO names : **En** - Longspine stargazer; **Fr** - Uranoscope miou; **Sp** - Miracielo espinón.

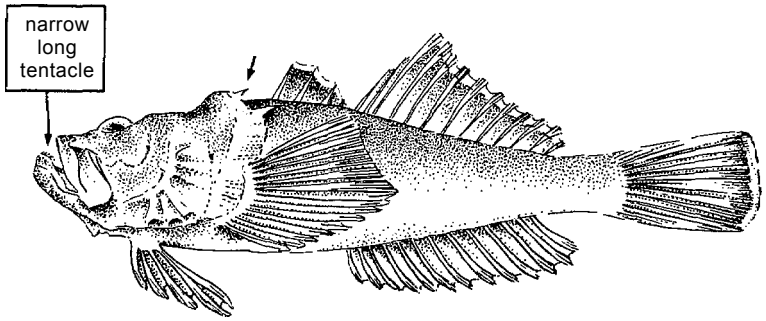
Size : 35 cm.

Fishing gear : bottom trawls.

Habitat : burrowing in sandy and muddy bottoms from 30 to 350 m depth.

Loc.name(s) :

Uranoscopus cadenati Poll, 1959



FAO names : **En** - West African stargazer; **Fr** - Uranoscope boeuf; **Sp** - Miracielo africano.

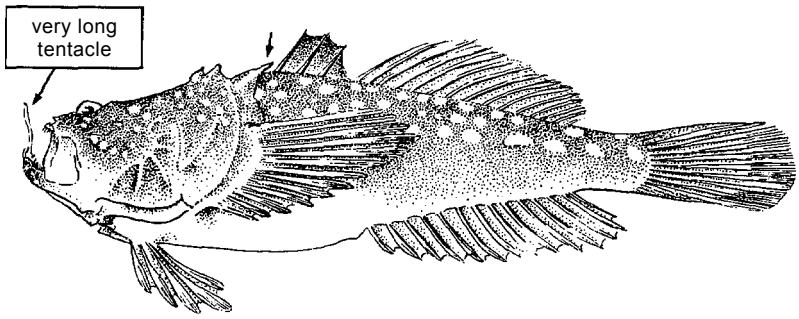
Size : 35 cm, possibly up to 50 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : burrowing in sandy and muddy bottoms from 30 to at least 300 m depth.

Loc.name(s) :

Uranoscopus polli Cadenat, 1953



FAO names : **En** - White-spotted stargazer; **Fr** - Uranoscope à points blancs; **Sp** - Miracielo moteado.

Size : 35 cm.

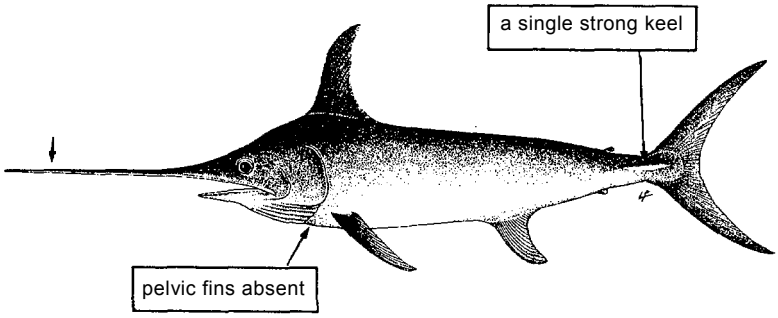
Fishing gear : bottom trawls, bottom set nets.

Habitat : demersal between 25 and 50 m depth, burrowing in muddy and sandy bottoms.

Loc.name(s) :

XIPHIIDAE

Xiphias gladius Linnaeus, 1758



FAO names : **En** - Swordfish; **Fr** - Espadon; **Sp** - Pez espada.

Size : 450 cm, common to 220 cm.

Fishing gear : longlines, harpoons, trolling gear, drift gillnets.

Habitat : pelagic, from the surface to about 800 m depth; strongly migratory.

Loc.name(s) :

Cyttopsis roseus (Lowe, 1843)

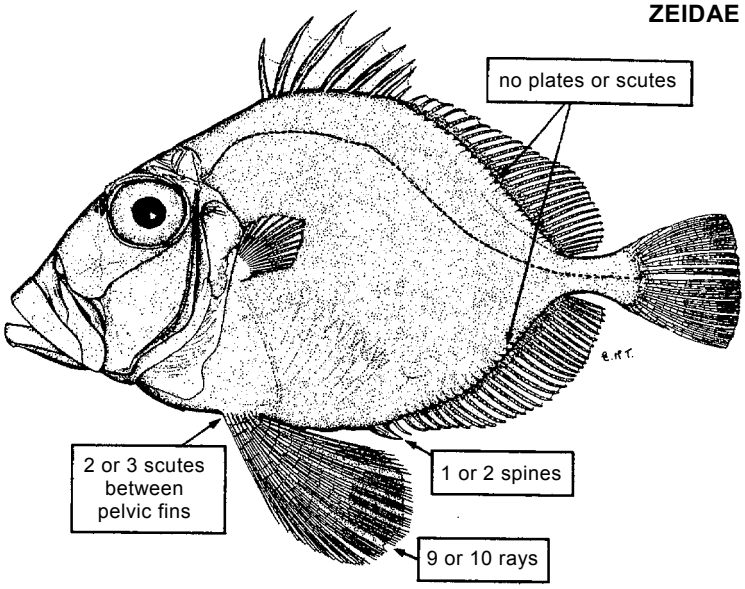
FAO names : **En** - Rosy dory; **Fr** - Saint-Pierre rosé; **Sp** - San Pedro rosado.

Size : 30 cm, common to 25 cm.

Fishing gear : bottom trawls.

Habitat : near the bottom, on the continental shelf to a depth of 600 m.

Loc.name(s) :



Zenopsis conchifer (Lowe, 1852)

Synonyms : *Zeus conchifer* (Lowe, 1852); *Zeus ocellatus* Storer, 1859.

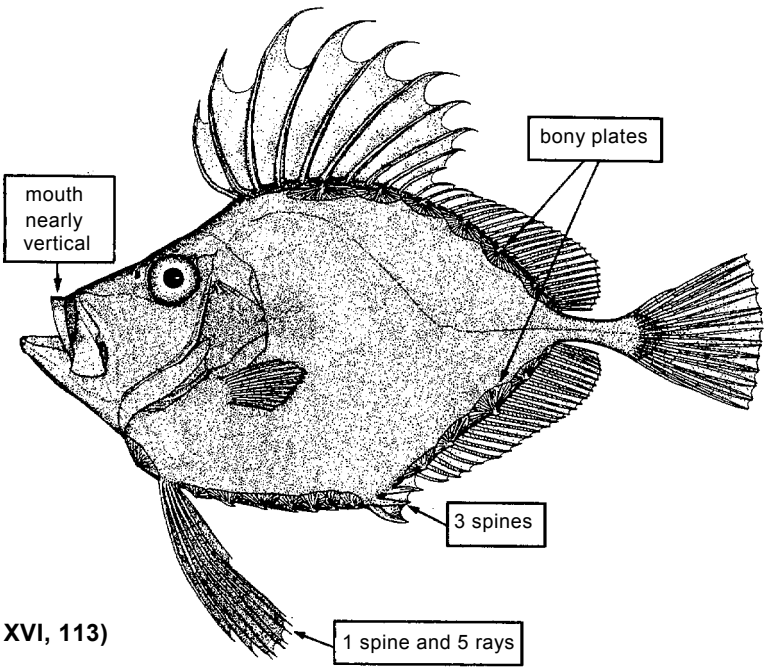
FAO names : **En** - Silvery John dory; **Fr** - Saint Pierre argenté; **Sp** - San Pedro plateado.

Size : 75 cm, common to 50 cm.

Fishing gear : bottoms trawls.

Habitat : on sandy and muddy bottoms from 150 to 300 m depth.

Loc.name(s) :



(see Plate XVI, 113)

Zeus faber Linnaeus, 1758

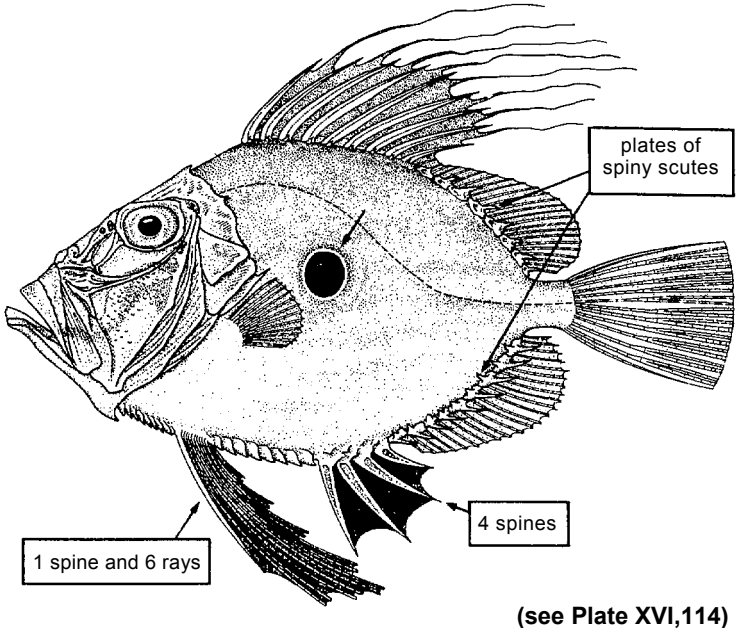
FAO names : **En** - John dory; **Fr** - Saint-Pierre; **Sp** - Pez de San Pedro.

Size : 65 cm, common to 40 cm.

Fishing gear : bottoms trawls.

Habitat : demersal from 60 to 250 m depth.

Loc.name(s) :

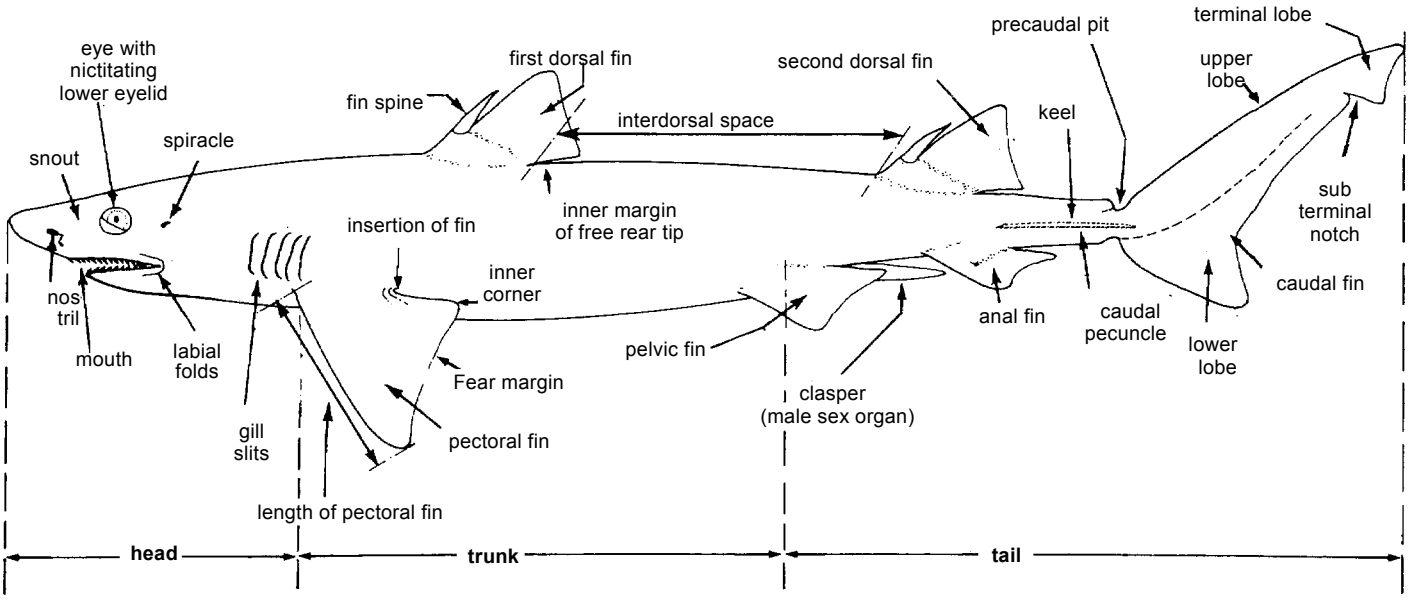


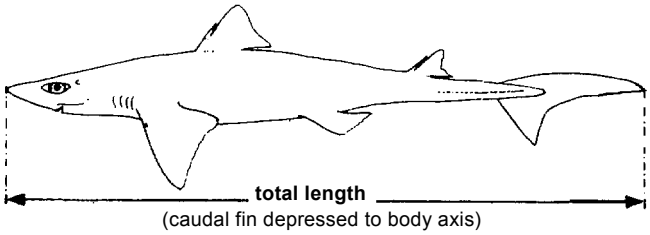
(see Plate XVI,114)

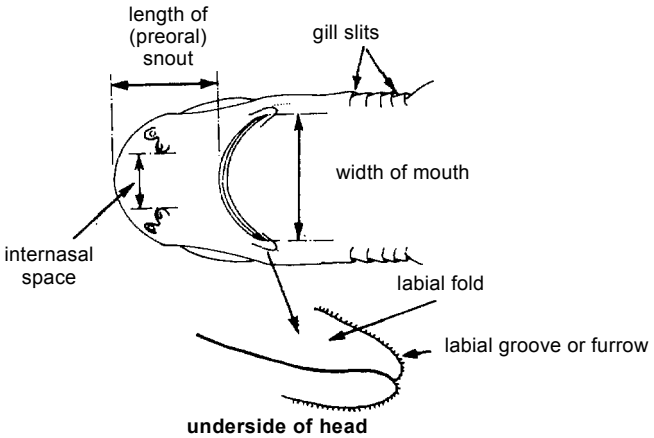
SHARKS

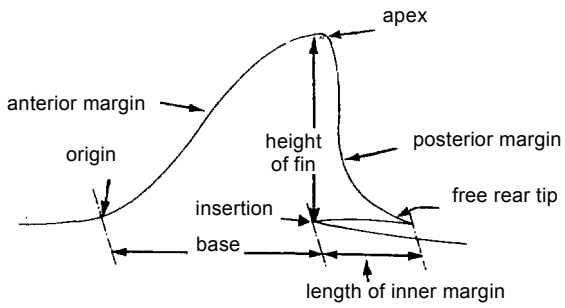
TECHNICAL TERMS AND PRINCIPAL MEASUREMENT USED

(Straight-line distances)









SHARKS

GUIDE TO FAMILIES

The purpose of this guide is to ensure correct identification of all shark families occurring in the Gulf of Guinea. It also allows the identification of genera in the case of polymorphic families.

Note:

Page numbers following the names, where present, lead to information on species of interest to fisheries.

All distinctive characters used here apply only to species occurring in the Gulf of Guinea.

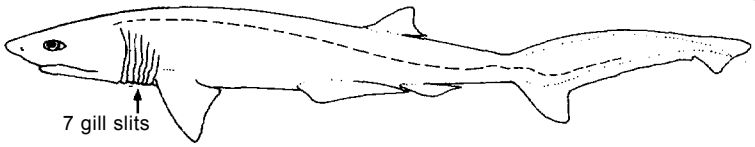
FRILLED AND COW SHARKS - Hexanchiformes

Six or seven pairs of gill slits

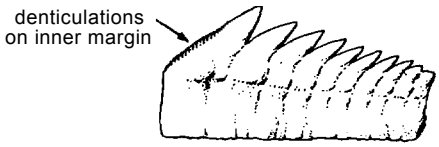
HEXANCHIDAE Sixgill and Sevengill sharks, Cowsharks

To at least 482 cm; continental shelf and slope to about 1900 m depth; demersal or pelagic.

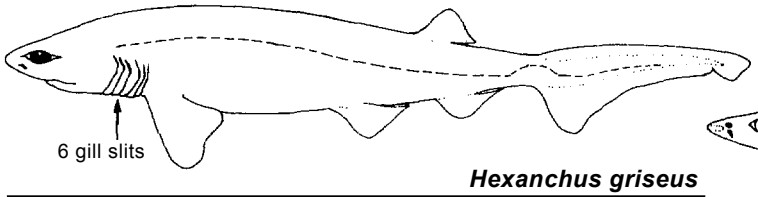
lower lateral tooth



Heptranchias perlo



lower lateral tooth



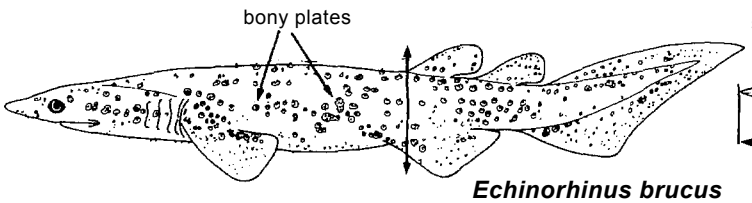
Hexanchus griseus

DOGFISH SHARKS AND ALLIES - Squaliformes

Anal fin absent; mouth ventral; snout short.

ECHINORHINIDAE Bramble sharks

To 310 cm; continental shelf and slope, from 20 to 900 m depth; demersal. A single species.

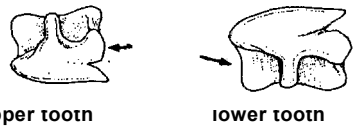


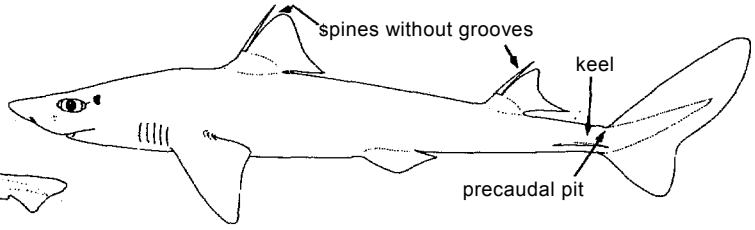
Echinorhinus brucus

SQUALIDAE Dogfish sharks **page 147**

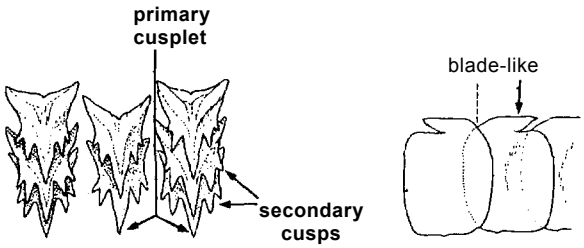
To about 180 cm; continental shelf and slope, from 50 to 2700 m depth; predominantly demersal.

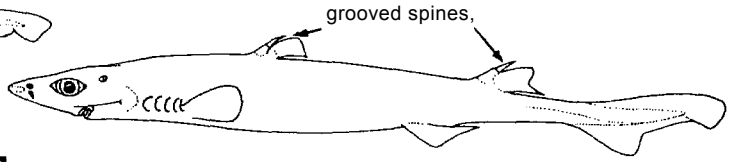
Examples:



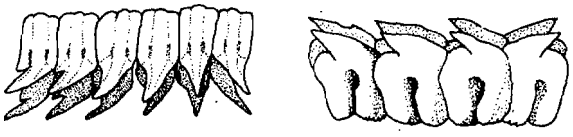


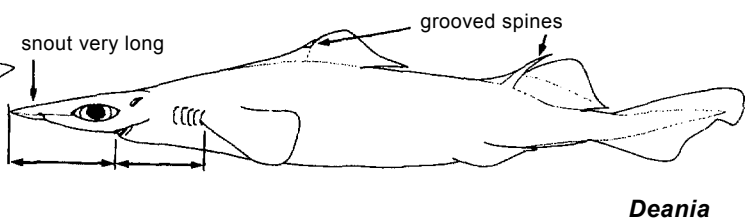
Squalus blainvillei





Etmopterus

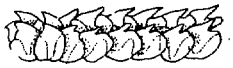




Deania

SHARKS

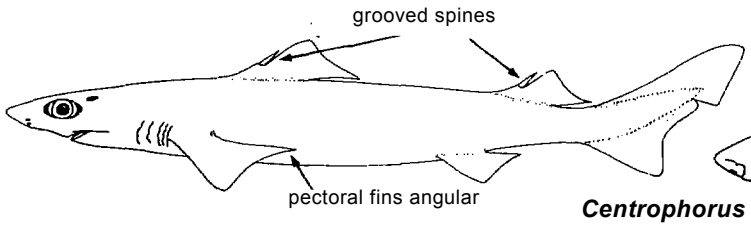
upper teeth



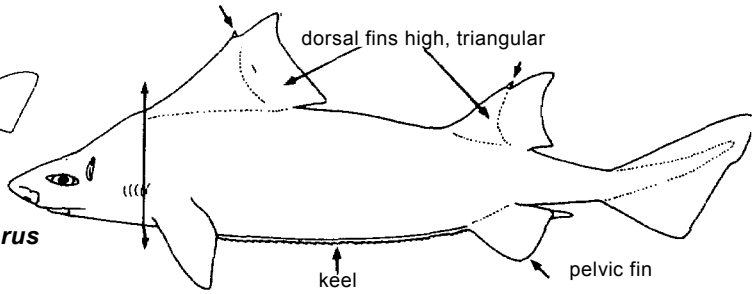
lower teeth

OXYNOTIDAE Centrines

To 150 cm; in offshore waters from 40 to 720 m depth; demersal. A single species.

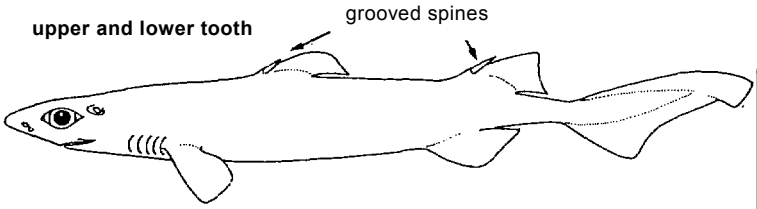


Centrophorus



Oxinotus centrina

upper and lower tooth



Centroscyllium fabricii

ANGEL SHARKS - Squatiniformes

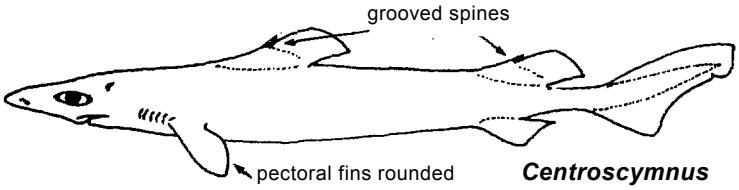
Body flattened; gill slits ventro-lateral; anal fin absent, mouth terminal.

SQUATINIDAE Angel sharks **page 151**

To 188 cm; continental shelf and slope from 30 to 500 m depth; demersal.

upper teeth

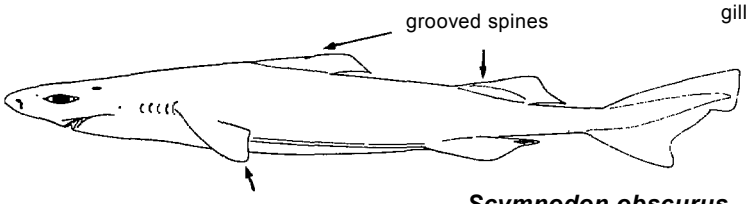
lower teeth



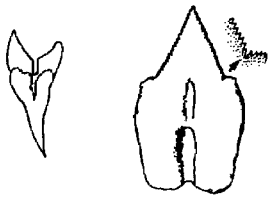
Centroscymnus

upper teeth

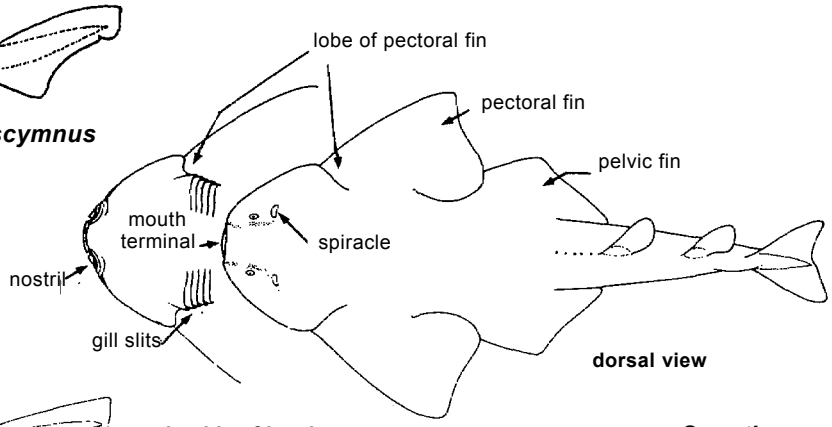
lower teeth



Scymnodon obscurus



upper and lower teeth



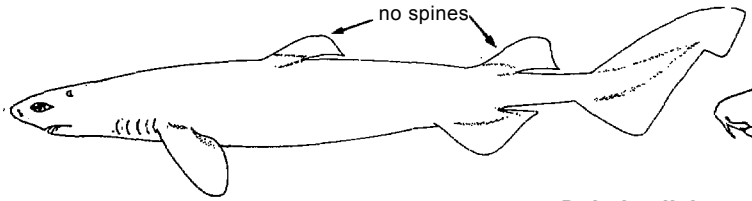
Squatina

NURSE AND WHALE SHARKS - Orectolobiformes

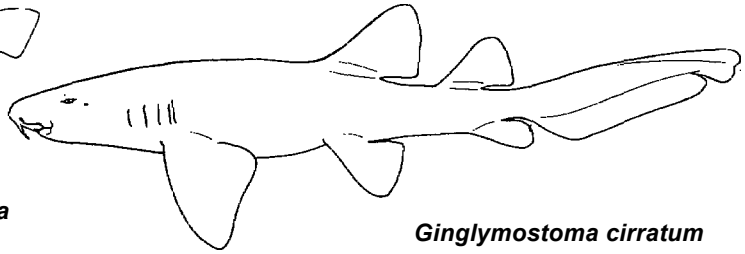
Mouth in front of eyes; nostrils with barbels.

GINGLYMOSTOMATIDAE Nurse sharks **page 142**

To about 430 cm; coastal waters, demersal. A single species.



Dalatias licha

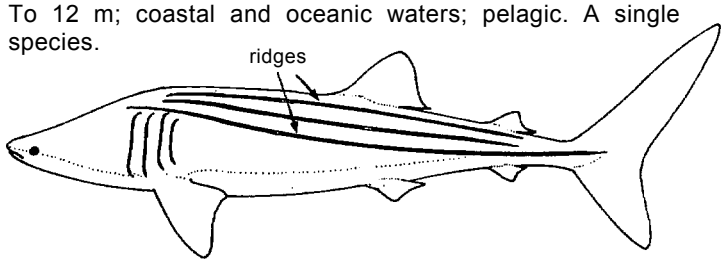


Ginglymostoma cirratum

SHARKS

RHINIODONTIDAE Whale sharks

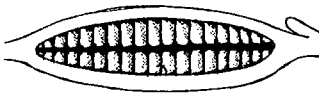
To 12 m; coastal and oceanic waters; pelagic. A single species.



Rhiniodon typus

MACKEREL SHARKS AND ALLIES - Lamniformes

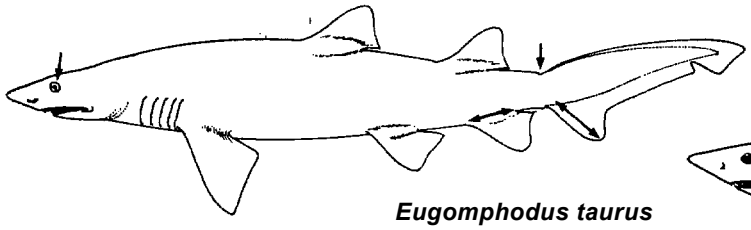
No nictitating eyelid; intestinal valve of ring type.



intestinal valve of ring type (schematic, characteristic for the order)

ODONTASPIDIDAE Sand tiger sharks

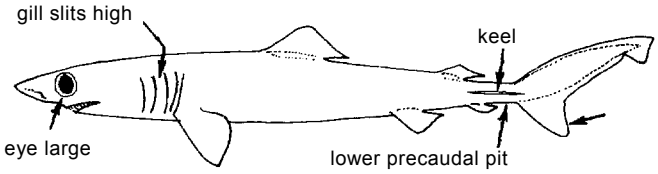
To 318 cm; common along the coast and off bays, mainly demersal. A single species.



Eugomphodus taurus

PSEUDOCARCHARIIDAE Crocodile sharks

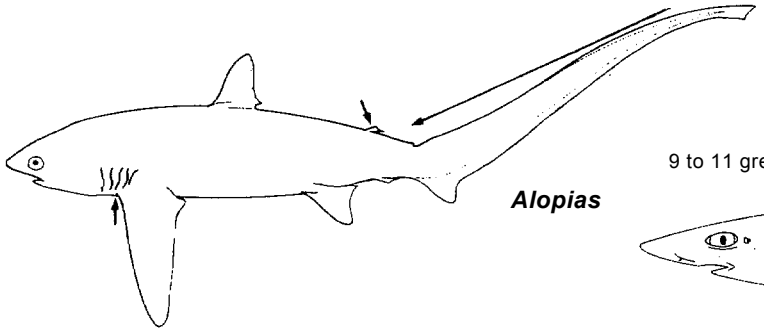
To 110 cm; coastal and oceanic waters. A monogeneric family with a single species.



Pseudocarcharias kamoharai

ALOPIIDAE Thresher sharks **page 137**

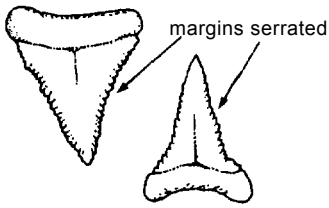
To at least 550 cm; coastal and oceanic waters; pelagic.



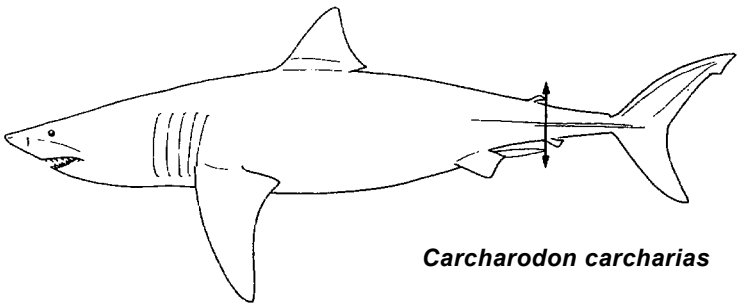
Alopias

LAMNIDAE Mackerel sharks **page 143**

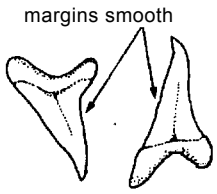
To at least 650 cm; coastal and oceanic waters; pelagic.



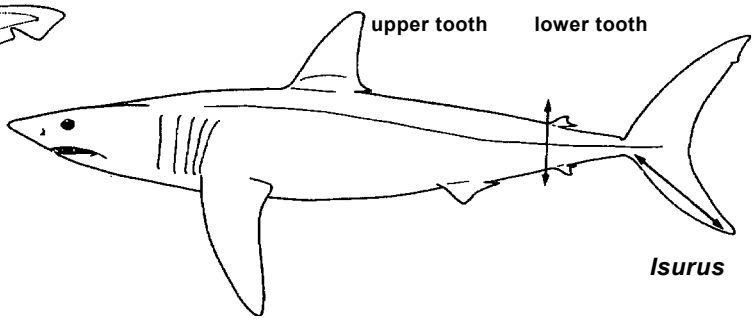
upper tooth **lower tooth**



Carcharodon carcharias



upper tooth **lower tooth**



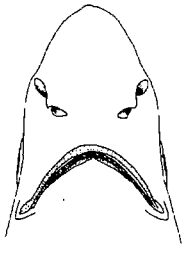
Isurus

GROUND SHARKS AND ALLIES - Carcharhiniformes

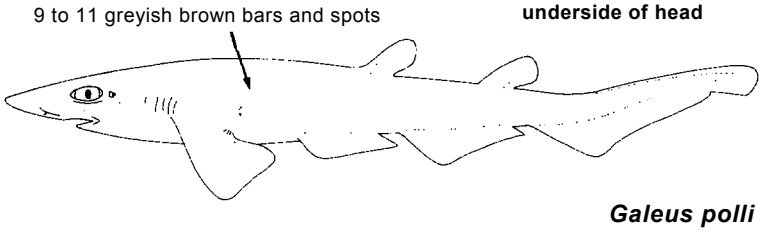
Nictitating membrane present on eyes; intestinal valve of scroll or spiral type.

SCYLIORHINIDAE Catsharks **page 144**

To 160 cm; coastal waters and on the slope to 720 m depth; usually demersal.

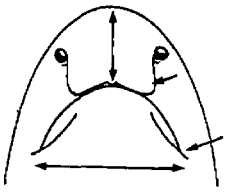


underside of head

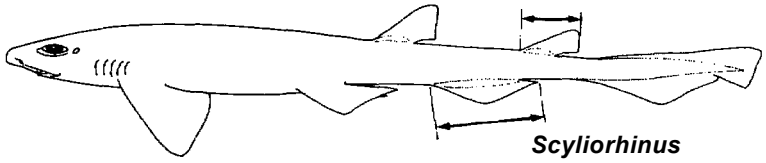


Galeus polli

SHARKS



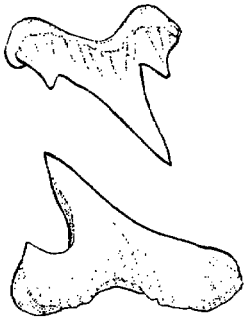
underside of head

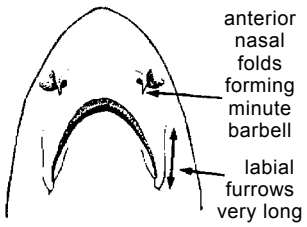


Scyliorhinus

LEPTOCHARIIDAE Barbeled houndsharks **page 144**

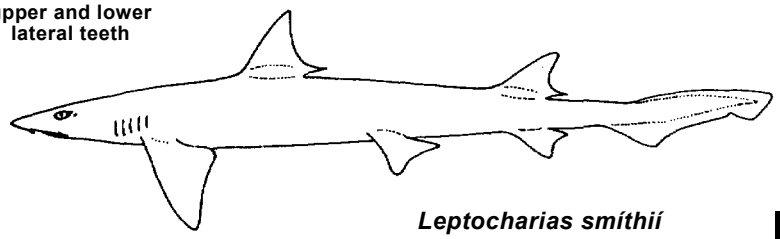
To 80 cm, coastal waters, particularly around river mouths, to 75 m depth. A single species.





underside of head

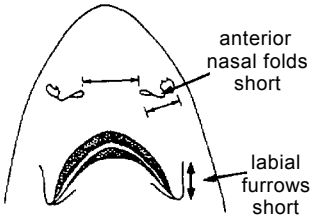
upper and lower lateral teeth



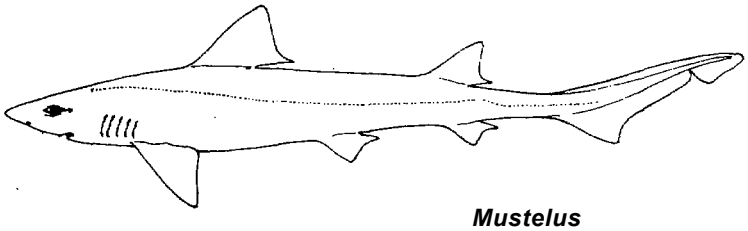
Leptocharias smithii

TRIAKIDAE Hound sharks **page 152**

To 167 cm; coastal waters to at least 350 m depth; bentho-pelagic and demersal.



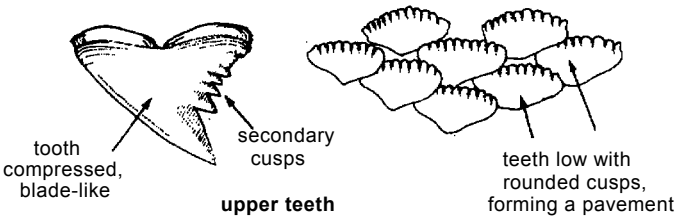
underside of head



Mustelus

Galeorhinus galeus *Mustelus mustelus*

dorsal view of head

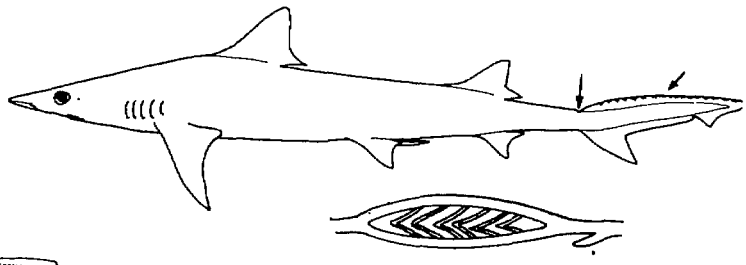


upper teeth

G. galeus *M. mustelus*

HEMIGALEIDAE Weasel sharks **page 143**

To 138 cm; coastal waters to 100 m depth. A single species.

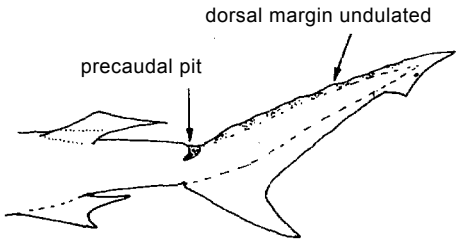


intestinal valve of spiral type

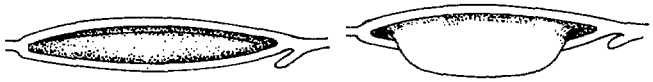
Paragaleus pectoralis

CARCHARHINIDAE Requiem sharks **page 137**

To about 650 cm; coastal and oceanic waters, from the surface to about 800 m depth; pelagic or demersal.



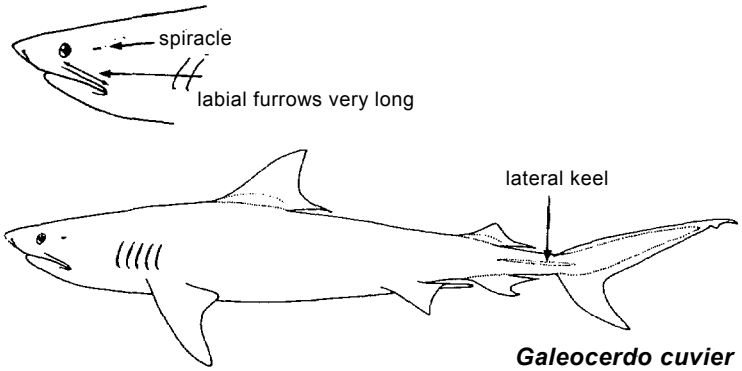
(Family characters)



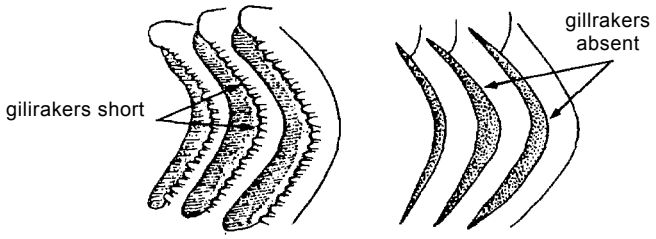
rolled unrolled

intestinal valve of scroll type
(Family characters)

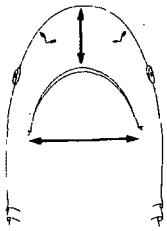
SHARKS



Galeocerdo cuvier

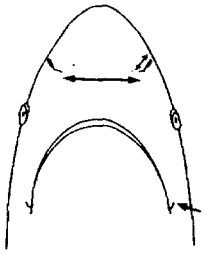


Prionace ***Carcharhinus***

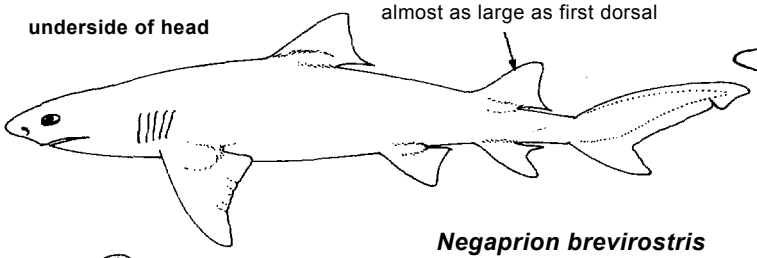


underside of head

gillrakers

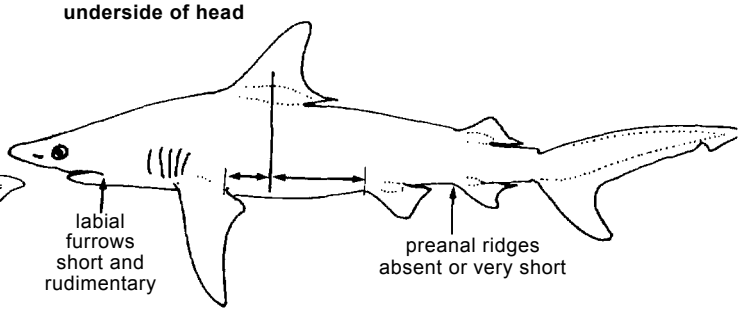


underside of head

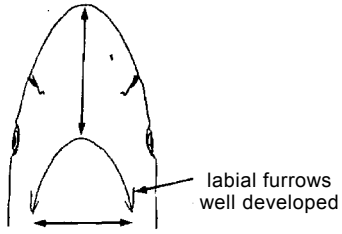


underside of head

Negaprion brevirostris



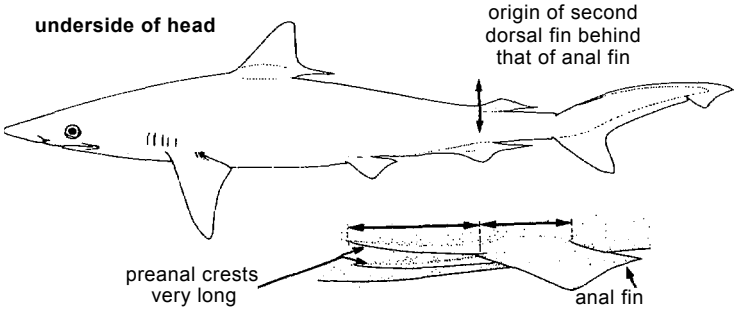
Carcharhinus



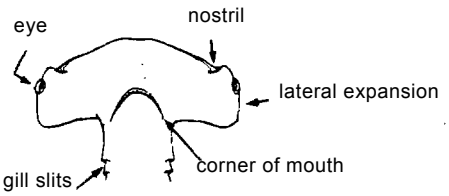
underside of head

SPHYRNIDAE Hammerhead sharks **page 146**

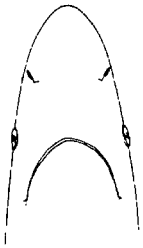
To 300 cm; coastal and oceanic waters, near the surface; pelagic.



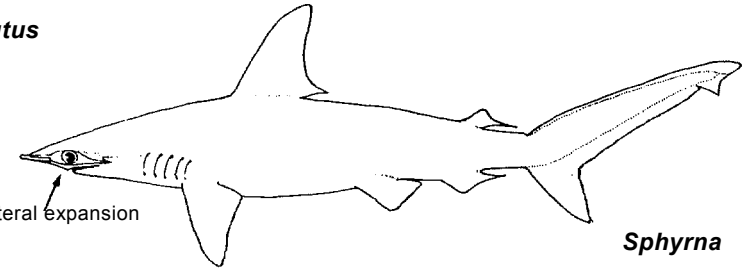
Rhizoprionodon acutus



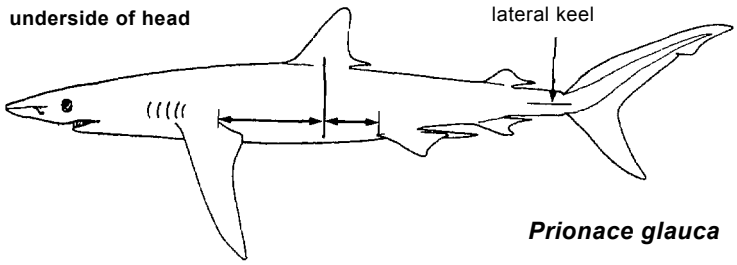
underside of head



underside of head



Sphyrna



Prionace glauca

next page

SHARKS

ALOPIIDAE

Alopias superciliosus (Lowe, 1839)

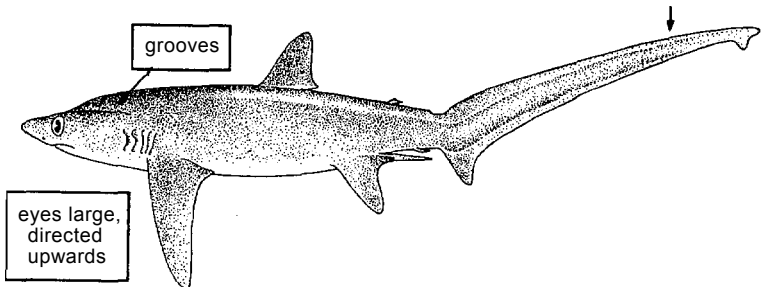
FAO names : **En** - Bigeye thresher; **Fr** - Renard à gros yeux; **Sp** - Zorro ojón.

Size : 430 cm, common to 350 cm.

Fishing gear : longlines, drift gillnets, hook-and-line.

Habitat : oceanic, but also found in coastal waters over the continental shelves; occurs up to 500 m depth.

Loc.name(s) :



Alopias vulpinus (Bonnaterre, 1788)

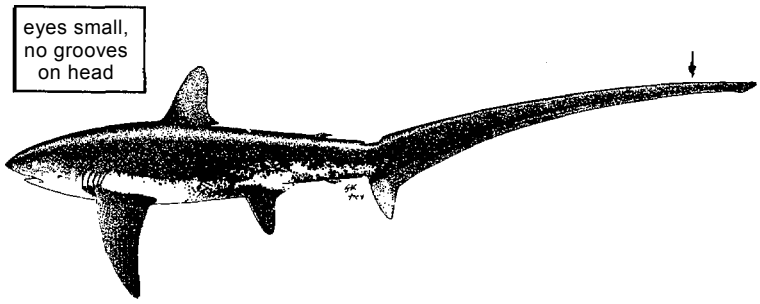
FAO names : **En** - Thresher shark; **Fr** - Renard; **Sp** - Zorro.

Size : possibly to over 600 cm, common to 490 cm.

Fishing gear : longlines, hook-and-line, drifting gillnets.

Habitat : pelagic in offshore and coastal waters, up to 400 m depth.

Loc.name(s) :



CARCHARHINIDAE

Carcharhinus altimus (Springer, 1950)

Synonyms : *Carcharhinus radamae* Fourmanoir, 1961.

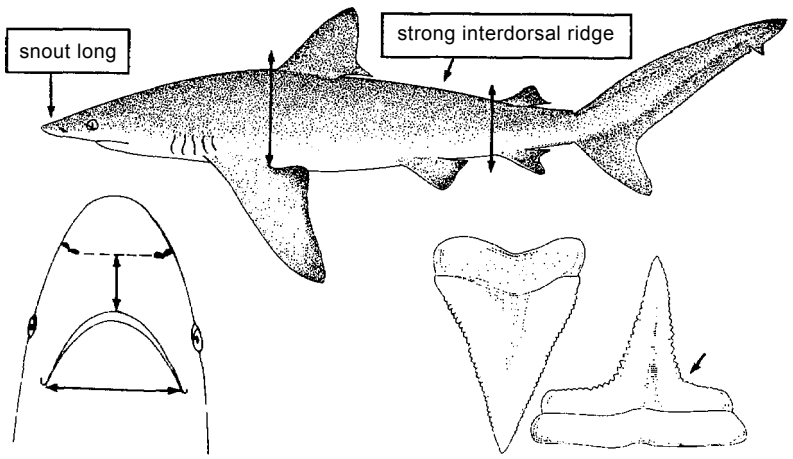
FAO names : **En** - Bignose shark; **Fr** - Requin babosse; **Sp** - Tiburón baboso.

Size : 300 cm, common to 240 cm.

Fishing gear : deep-set longlines, bottom trawls.

Habitat : deeper areas of the continental shelf between 80 and 430 m depth.

Loc.name(s) :



underside of head

upper and lower tooth near centre

Carcharhinus amboiensis (Müller & Henle, 1839)

Synonyms : *Carcharhinus henlei* Bleeker, 1855; *Carcharis brachyrhynchos* Bleeker, 1859; *Triaenodon obtusus* Day, 1878.

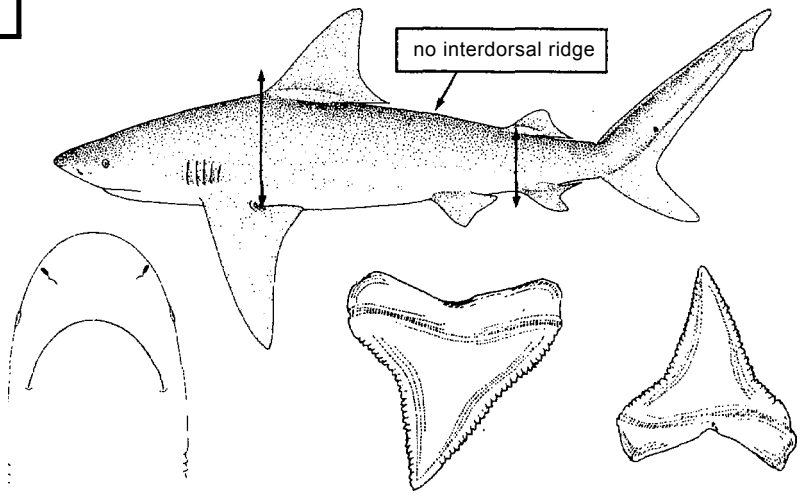
FAO names : **En** - Pigeye shark; **Fr** - Requin balestriné; **Sp** -Tiburón baleta.

Size : to 280 cm.

Fishing gear : longlines.

Habitat : coastal waters from 0 to 60 m depth.

Loc.name(s) :



underside of head

upper and lower tooth

CARCHARHINIDAE

Carcharhinus brachyurus (Günther, 1870)

Synonyms : *Charcharias lamiella* Jordan & Gilbert, 1882; Eulamia ahenea Stead, 1938; Carcharhinus improvisus Smith, 1952.

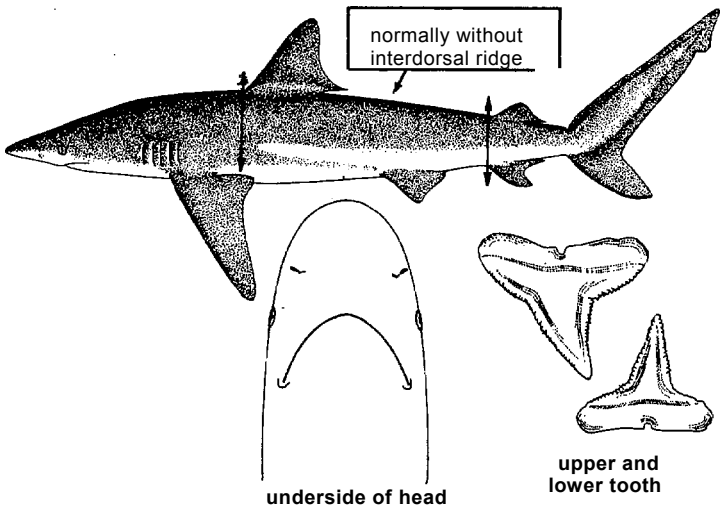
FAO names : **En** - Copper shark; **Fr** - Requin cuivre; **Sp** - Tiburón cobrizo.

Size : about 290 cm.

Fishing gear : bottom trawls, line gear.

Habitat : coastal and offshore waters.

Loc.name(s) :



Carcharhinus brevipinna (Müller & Henle, 1839)

Synonyms : *Carcharhinus maculipinnis* (Poey, 1865); *Aprionodon caparti,* Poll, 1951.

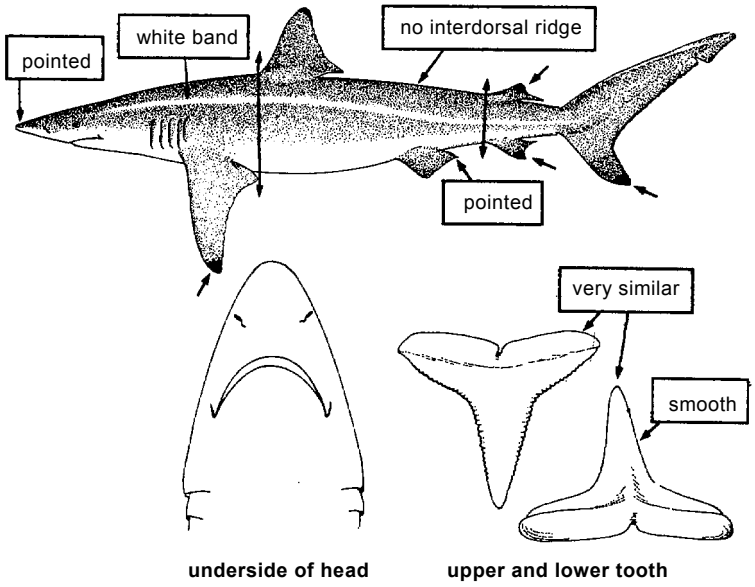
FAO names : **En** - Spinner shark; **Fr** - Requin tisserand; **Sp** -Tiburón aleta negra.

Size : 280 cm, common to 250 cm.

Fishing gear : longlines, hook-and-line, bottom set nets, pelagic trawls.

Habitat : offshore waters, probably also in coastal areas.

Loc.name(s) :



Carcharhinus falciformis (Bibron in Müller & Henle, 1839)

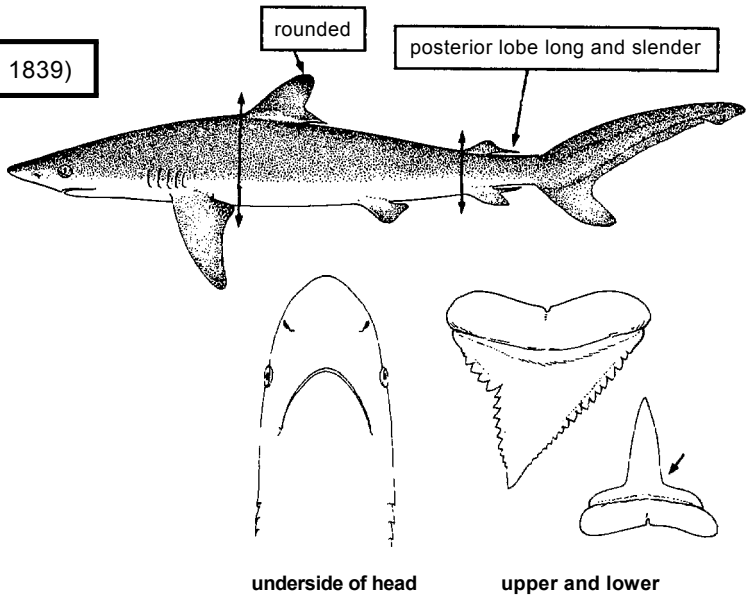
FAO names : **En** - Silky shark; **Fr** - Requin soyeux; **Sp** - Tiburón jaquetón.

Size : 350 cm, common to 250 cm.

Fishing gear : floating longlines, also in bottom set nets.

Habitat : coastal and oceanic waters.

Loc.name(s) :



SHARKS

CARCHARHINIDAE

Carcharhinus galapagensis (Snodgrass & Heller, 1905)

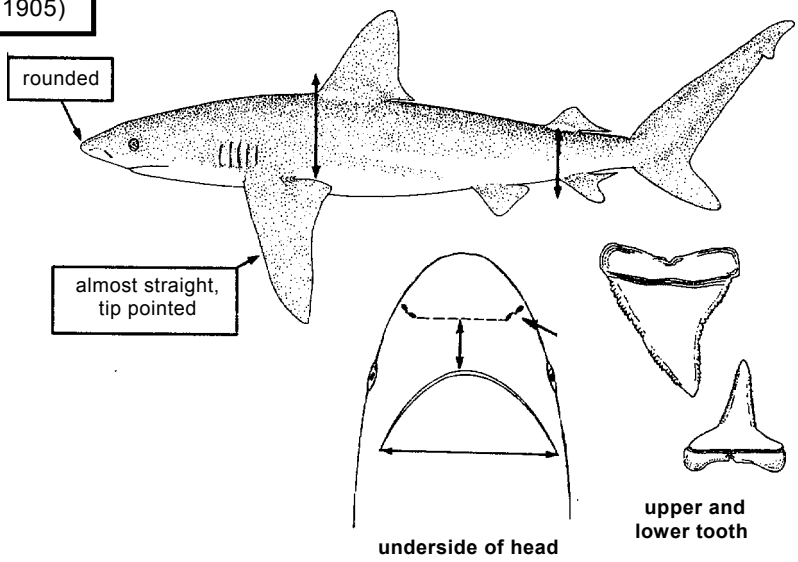
FAO names : **En** - Galapagos shark; **Fr** - Requin vde Galapagos; **Sp** - Tiburón de Galápagos.

Size : 370 cm, common to 300 cm.

Fishing gear: no information available.

Habitat : coastal and offshore waters.

Loc.name(s) :



Carcharhinus leucas (Valenciennes in Müller & Henle, 1839)

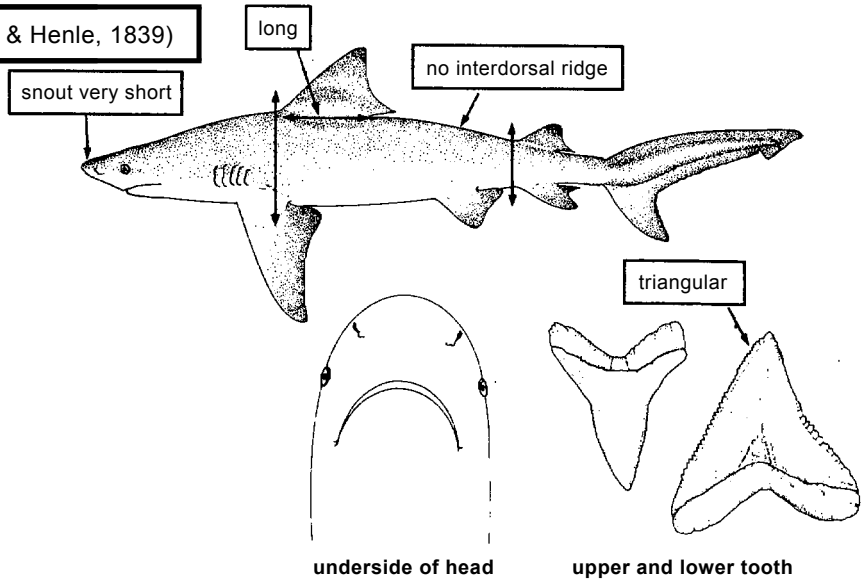
FAO names : **En** - Bull shark; **Fr** - Requin bouledogue; **Sp** - Tiburón sards.

Size : 350 cm, common to 260 cm.

Fishing gear : longlines.

Habitat : mainly in coastal waters, also in estuaries and hypersaline waters.

Loc.name(s) :



Carcharhinus limbatus (Valenciennes in Müller & Henle, 1839)

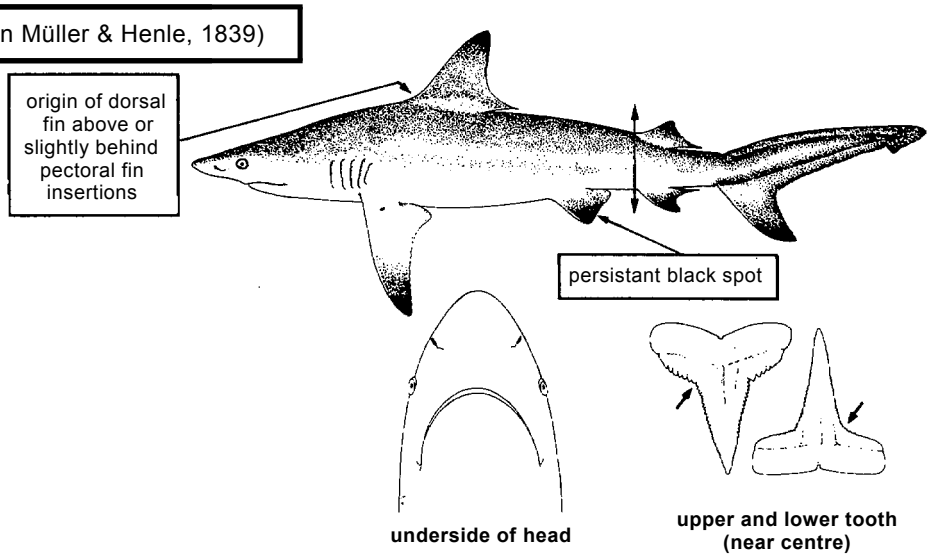
FAO names : **En** - Blacktip shark; **Fr** - Requin bordé; **Sp** - Tiburón macuira.

Size : 250 cm, common to 150 cm.

Fishing gear : longlines, hook-and-line, bottom set nets.

Habitat : pelagic, in coastal and offshore waters.

Loc.name(s) :



SHARKS

CARCHARHINIDAE

Carcharhinus longimanus (Poey, 1861)

Synonyms : *Carcharhinus maou* (Lesson, 1830).

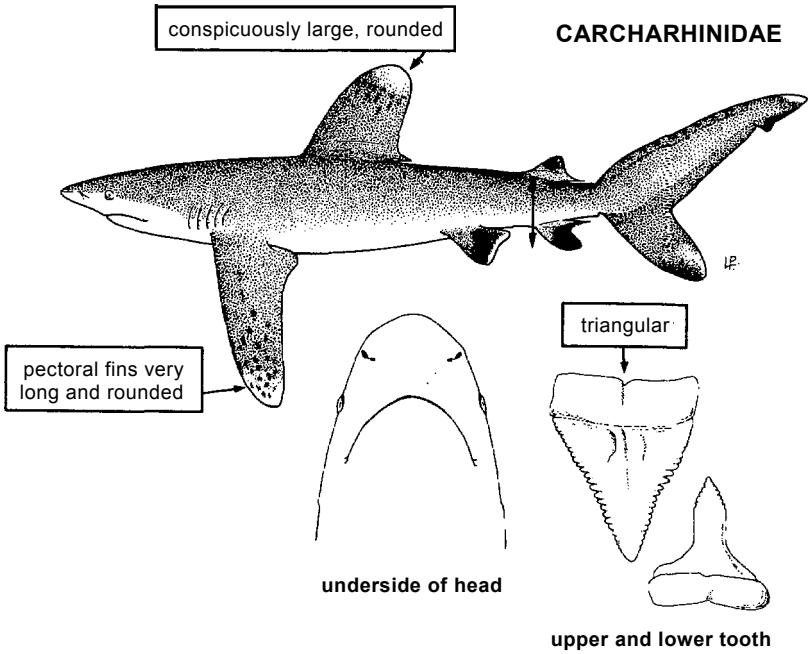
FAO names : **En** - Oceanic whitetip shark; **Fr** - Requin océanique; **Sp** - Tiburón oceánico.

Size : possibly to 350 cm.

Fishing gear : floating longlines, handlines, pelagic trawls.

Habitat : pelagic in warm oceanic waters, sometimes entering coastal waters.

Loc.name(s) :



Carcharhinus obscurus (LeSueur, 1818)

FAO names : **En** - Dusky shark; **Fr** - Requin sombre; **Sp** - Tiburón arenero.

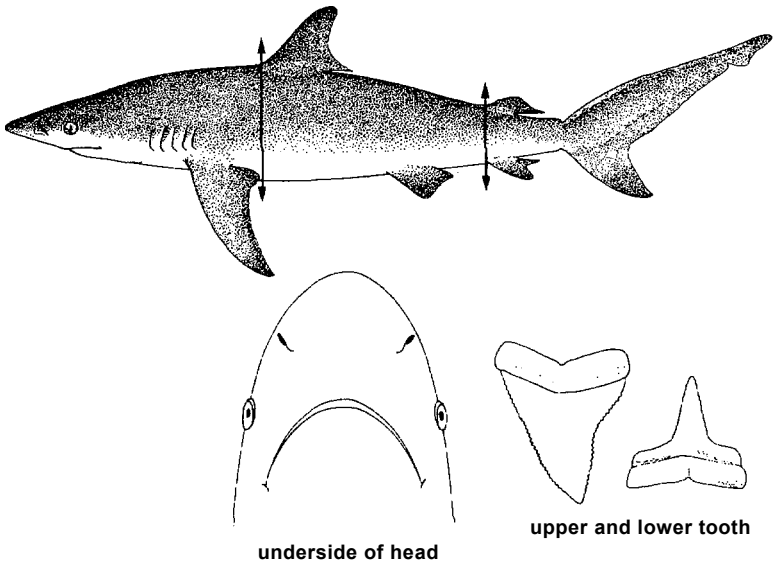
Size : 364 cm.

Fishing gear : longlines, hook-and-line, bottom set nets.

Habitat : benthopelagic off the edge of the continental shelf.

Remarks : presence in the Gulf of Guinea to be confirmed

Loc.name(s) :



Carcharhinus plumbeus (Nardo, 1827)

Synonyms : *Carcharhinus milberti* Müller & Henle, 1841.

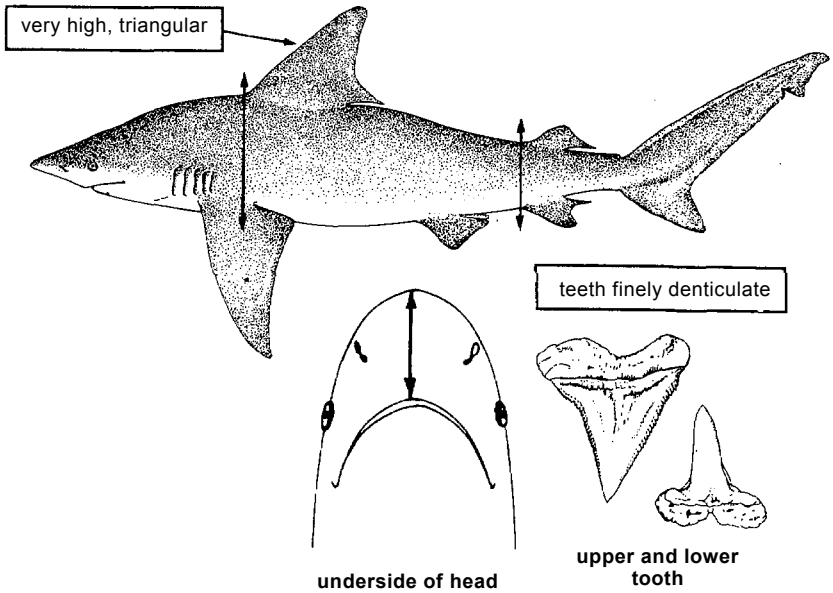
FAO names : **En** - Sandbar shark; **Fr** - Requin gris; **Sp** - Tiburón trozo.

Size : 300 cm, common to 240 cm.

Fishing gear : longlines, hook-and-line, bottom set nets.

Habitat : coastal waters on sandy or muddy bottoms; often near estuaries.

Loc.name(s) :



SHARKS

CARCHARHINIDAE

Carcharhinus signatus (Poey, 1868)

Synonyms : *Hyporion signatus* Poey, 1868; *Hyporion bigelowi* Cadenat, 1956.

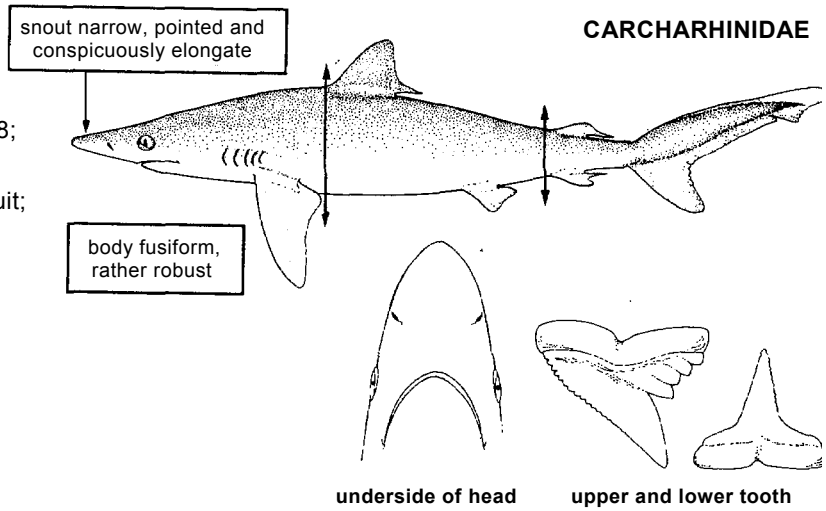
FAO names : **En** - Night shark; **Fr** - Requin de nuit; **Sp** - Tiburón de noche.

Size : 280 cm, common to 150 cm.

Fishing gear : longlines, pelagic trawls.

Habitat : between 200 and 300 m depth.

Loc.name(s) :



Galeocerdo cuvier Peron & LeSueur, 1822

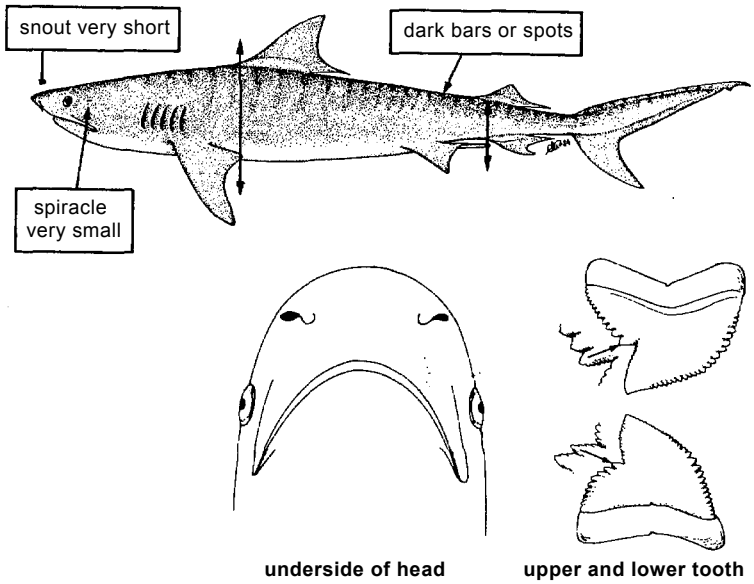
FAO names : **En** - Tiger shark; **Fr** - Requin tigre commun; **Sp** - Tintorera.

Size : at least 650 cm, probably 740 cm, common to 400 cm.

Fishing gear : longlines, hook-and-line, bottom set nets, occasionally With bottom trawls.

Habitat : coastal and offshore waters near the surface; also in estuaries.

Loc.name(s) :



Negaprion brevirostris (Poey, 1868)

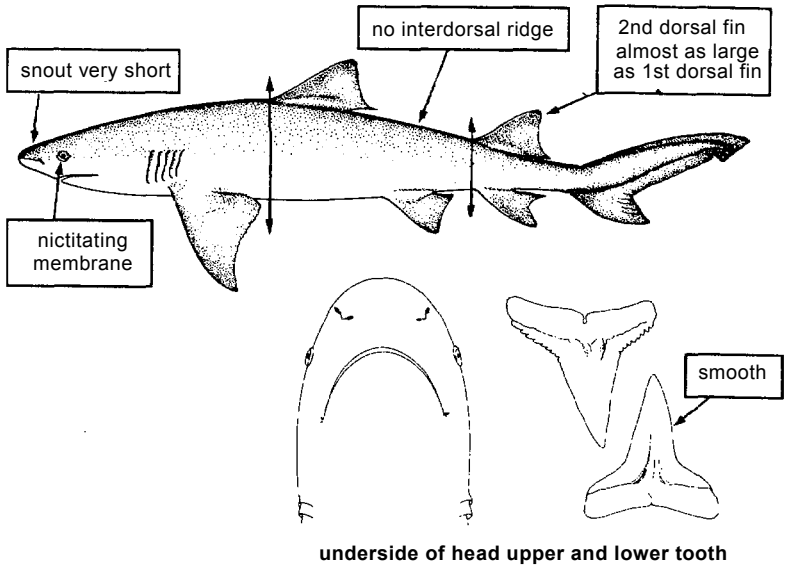
FAO names : **En** - Lemon shark; **Fr** - Requin citron; **Sp** - Tiburón galano.

Size : 320 cm, common to 240 cm.

Fishing gear : longlines.

Habitat : demersal in coastal waters; occasionally enters estuaries.

Loc.name(s) :



SHARKS

CARCHARHINIDAE

Prionace glauca (Linnaeus, 1758)

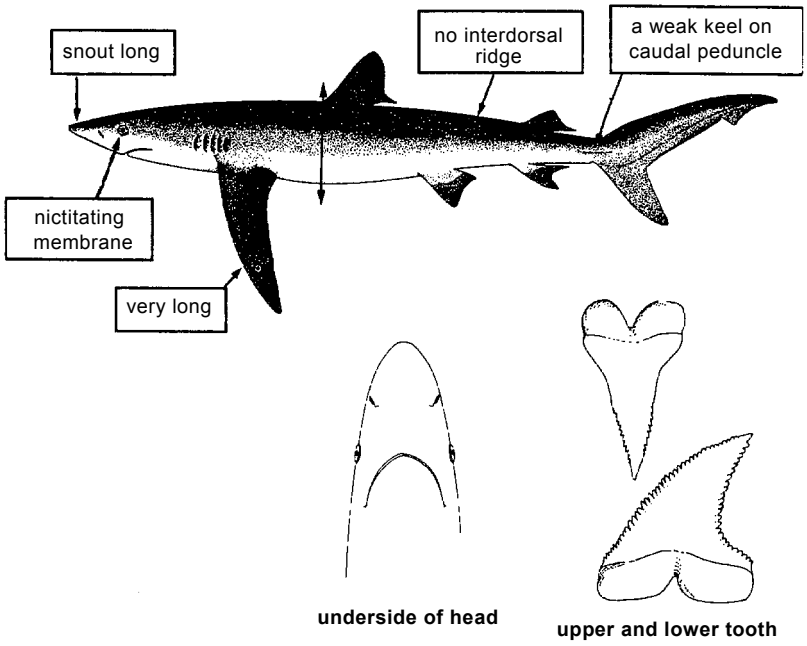
FAO names : **En** - Blue shark; **Fr** - Peau bleue; **Sp** - Tiburón azul.

Size : 383 cm, common to 150 cm.

Fishing gear : longlines, hook-and-line, bottom set nets, pelagic and bottom trawls.

Habitat : pelagic, usually offshore, but also in coastal waters.

Loc.name(s) :



Rhizoprionodon acutus (Rüppell, 1837)

Synonyms : *Scoliodon terraenovae* (Richardson, 1836).

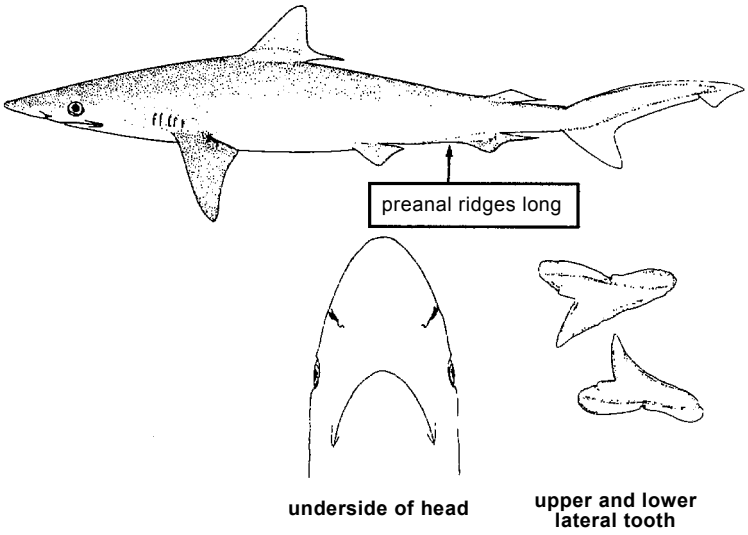
FAO names : En - Milk shark; Fr - Requin à museau pointu; Sp - Cazón picudo.

Size : 105 cm, common to 70 cm.

Fishing gear : longlines, hook-and-line, bottom set nets, bottom trawls.

Habitat : shallow coastal waters.

Loc.name(s) :



GINGLYMOSTOMATIDAE

Ginglymostoma cirratum (Bonnaterre, 1788)

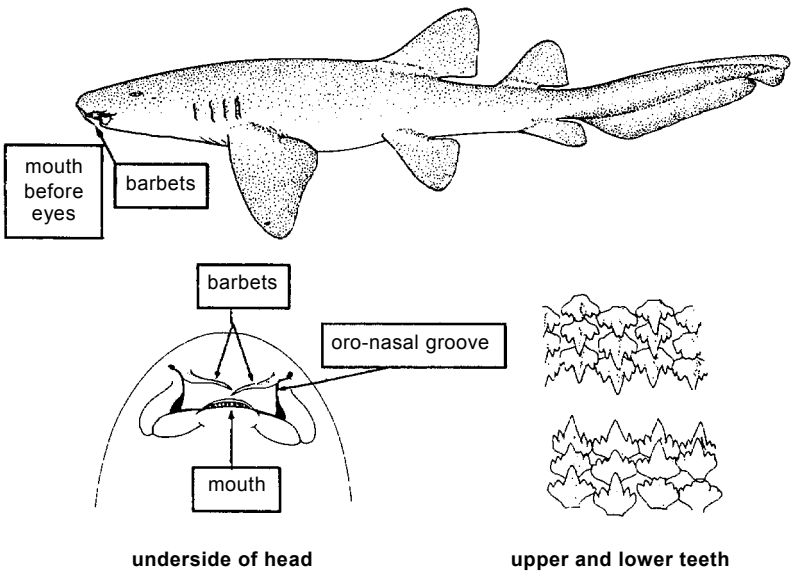
FAO names : **En** - Nurse shark; **Fr** - Requin-nourrice; **Sp** - Gata nodriza.

Size : over 400 cm, common to 340 cm.

Fishing gear : line gear, bottom set nets, bottom trawls.

Habitat : coastal waters and estuaries.

Loc.name(s) :



next page

HEMIGALEIDAE

Paragaleus pectoralis (Garman, 1906)

Synonyms : *Paragaleus gruveli* Budker, 1935.

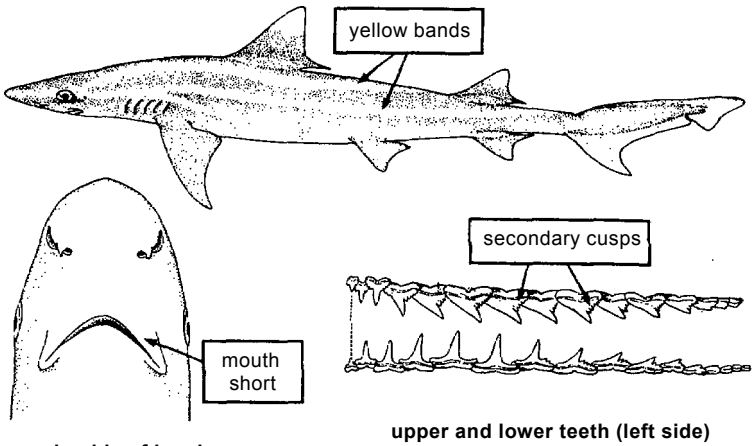
FAO names : **En** - Atlantic weasel shark; **Fr** - Milandre jaune; **Sp** -Tiburón comadreja.

Size : 140 cm, common to 80 cm.

Fishing gear : longlines, hook-and-line, bottom set gillnets, bottom trawls.

Habitat : coastal waters to 100 m depth.

Loc.name(s) :



LAMNIDAE

Carcharodon carcharías (Linnaeus, 1758)

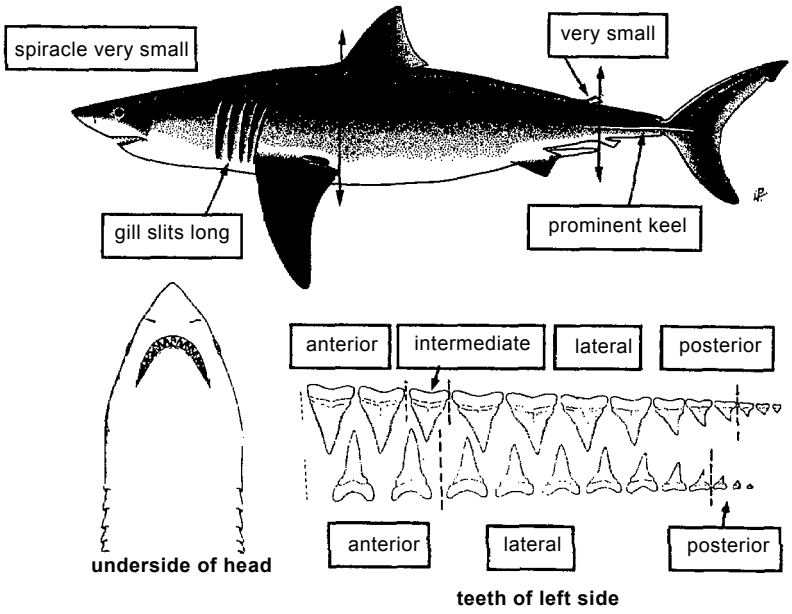
FAO names : **En** - Great white shark; **Fr** - Grand requin blanc; **Sp** - Jaquetón blanco.

Size : to 640 cm, maybe to 800 cm, common to 400 cm.

Fishing gear : longlines, hook-and-line, bottom set gillnets, drift gillnets.

Habitat : coastal and offshore waters, often entering shallow bays.

Loc.name(s) :



Isurus oxyrinchus Rafinesque, 1809

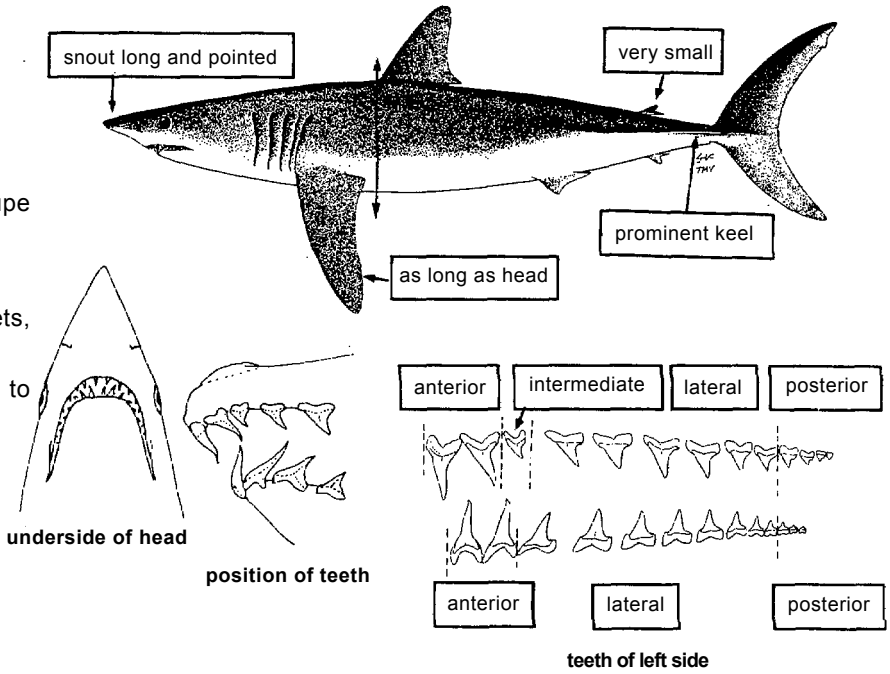
FAO names : **En** - Shortfin mako; **Fr** - Taupe bleu; **Sp** - Marrajo dientuso.

Size : 400 cm, common to 270 cm.

Fishing gear : drifting longlines, gillnets, hook-and-line.

Habitat : oceanic in surface waters, down to at least 152 m.

Loc.name(s) :



SHARKS

Isurus paucus Guitart Manday, 1966

Synonyms : *Isurus alatus* Garrick, 1966; ?*Lamiostoma belyaevi* Glikman, 1964.

FAO names : **En** - Longfin mako; **Fr** - Petit taupe; **Sp** - Marrajo carite.

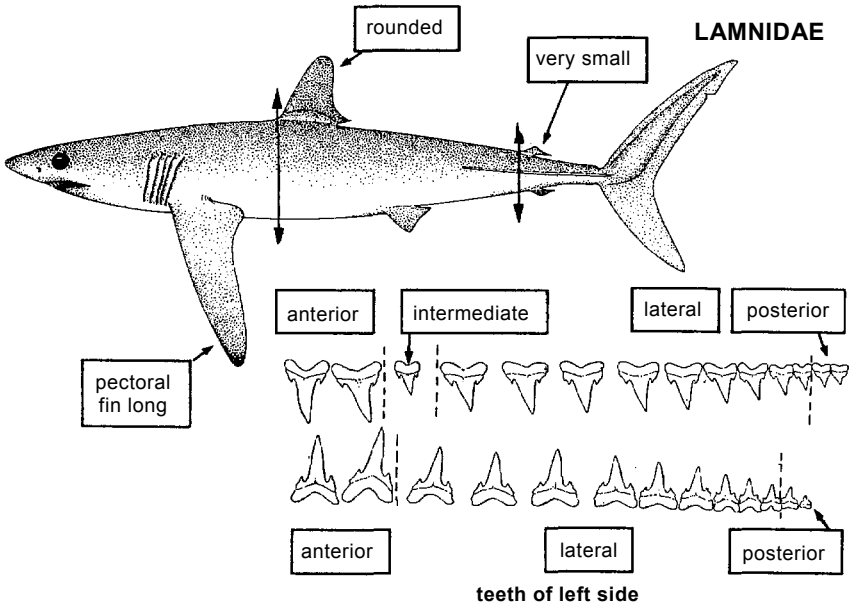
Size : 417 cm, common to 250 cm.

Fishing gear : drifting longlines, hook-and-line, gillnets.

Habitat : oceanic.

Loc.name(s) :

LAMNIDAE



LEPTOCHARIIDAE

Leptocharias smithii (Müller & Henle, 1839)

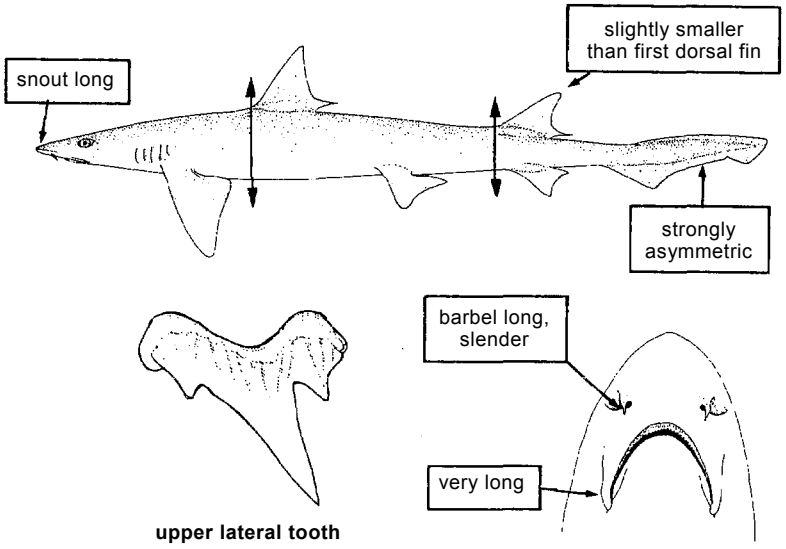
FAO names : **En** - Barbeled houndshark; **Fr** - Emissole à grandes lèvres; **Sp** - Tiburón barbudo.

Size : about 80 cm.

Fishing gear : hook-and-line, bottom set gillnets, bottom trawls.

Habitat : in coastal waters, common around river mouths, to 75 m depth.

Loc.name(s) :



SCYLIORHINIDAE

Galeus polli Cadenat, 1959

Synonyms : ? *Pristiurus atlanticus* Vaillant, 1888.

FAO names : En - African sawtail catshark; **Fr** - Chien râpe; **Sp** - Pintarroja africana.

Size : 90 cm, common to 50 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : demersal between 200 and 270 m depth.

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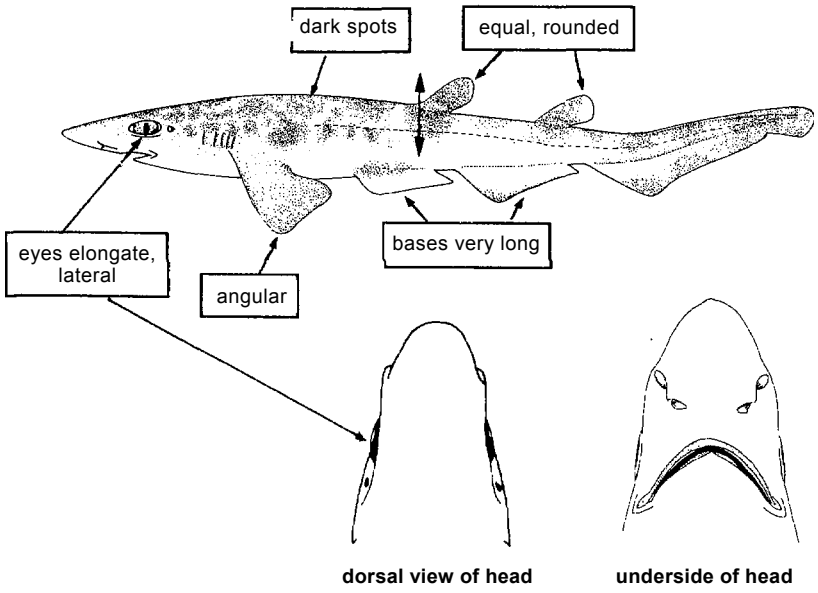


SCYLIORHINIDAE

Scyliorhinus canicula (Linnaeus, 1758)

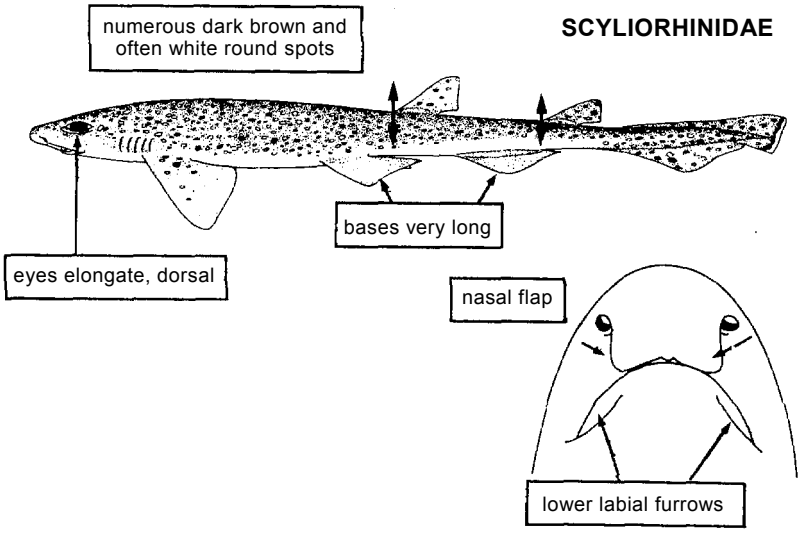
FAO names : **En** - Smalispotted catshark; **Fr** - Petite roussette; **Sp** - Pintarroja.

Size : 100 cm, common between 60 and 70 cm.

Fishing gear : bottom and pelagic trawls, bottom set nets.

Habitat : coastal waters on sandy or muddy bottoms to 400 m depth.

Loc.name(s) :



underside of head

Scyliorhinus cervigoni Maurin & Bonnet, 1970

FAO names : **En** - West African catshark; **Fr** - Roussette thalassa; **Sp** - Alitán africano,

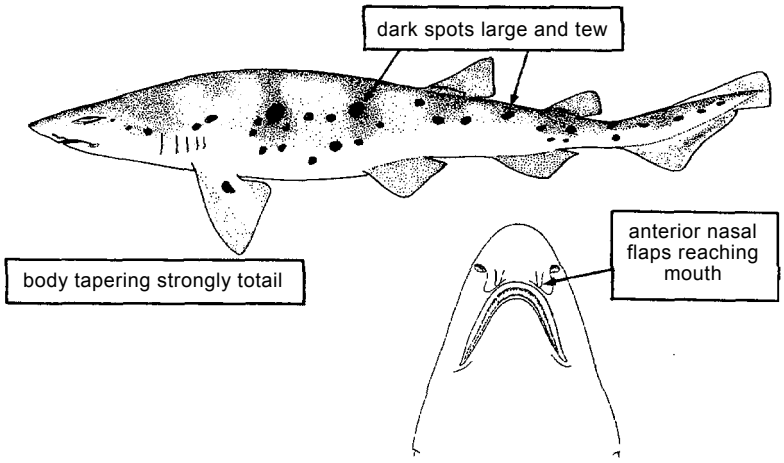
Size : to about 76 cm.

Fishing gear : bottom and pelagic trawls, bottom set nets.

Habitat : demersal between 45 and 500 m depth, on the continental shelf and upper slope, on rocky and muddy bottoms.

Remarks : this species has been confused with *S. stellaris*.

Loc.name(s) :



underside of head

Scyliorhinus stellaris (Linnaeus, 1758)

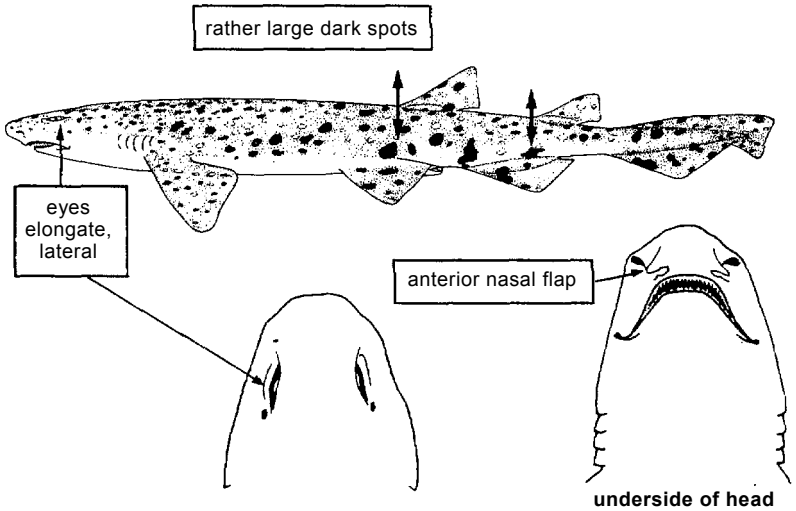
FAO names : **En** - Nursehound; **Fr** - Grande roussette; **Sp** - Alitán.

Size : 162 cm, common to about 125 cm,

Fishing gear : bottom trawls, bottom set nets.

Habitat : common on hard bottoms in coastal waters to 63 m depth.

Loc.name(s) :



underside of head

dorsal view of head

Sphyrna couardi Cadenat, 1950

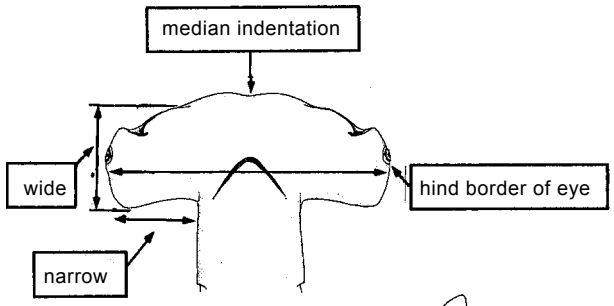
FAO names : **En** - Whitefin hammerhead; **Fr** - Requin-marteau aile blanche; **Sp** - Cornuda aliblanca.

Size : to about 300 cm.

Fishing gear : no information available.

Habitat : pelagic in coastal waters.

Loc.name(s) :



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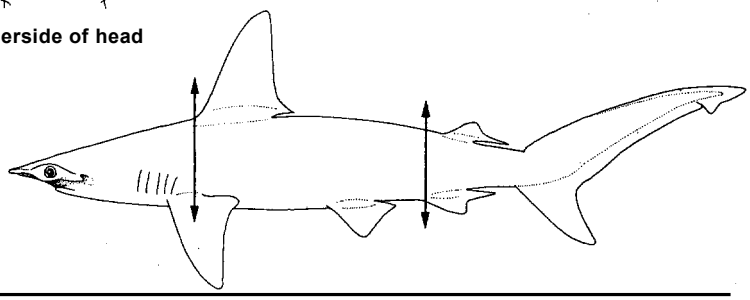


Sphyrna lewini (Griffith & Smith, 1834)

Synonyms : *Sphyrna diplana* Springer, 1941.

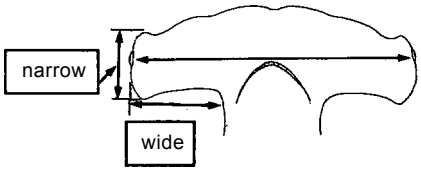
FAO names : **En** - Scalloped hammerhead; **Fr** - Requin-marteau halicorne; **Sp** - Cornuda común.

Size : 420 cm, common to 300 cm.

Fishing gear : pelagic longlines, bottom set longlines, bottom set nets, bottom and pelagic trawls.

Habitat : estuaries and coastal waters.

Loc.name(s) :



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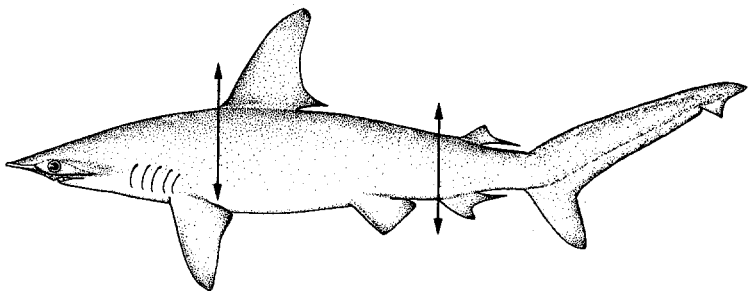


Sphyrna mokarran (Rüppell, 1837)

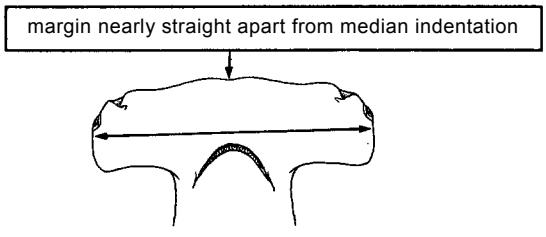
FAO names : **En** - Great hammerhead; **Fr** - Grand requin-marteau; **Sp** - Cornuda gigante.

Size : at least to 550 cm, common to 400 cm.

Fishing gear : longlines, hook-and-line, pelagic and bottom trawls, bottom set nets.

Habitat : coastal and offshore waters.

Loc.name(s) :



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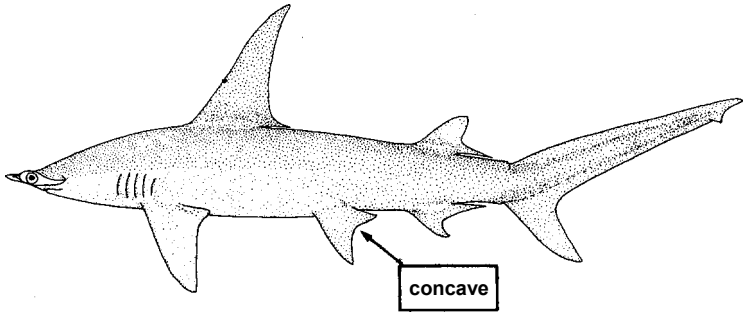

SHARKS

SPHYRINIDAE

Sphyma zygaena (Linnaeus, 1758)

FAO names : **En** - Smooth hammerhead; **Fr** - Requin-marteau commun; **Sp** - Cornuda cruz.

Size : 400 cm.

Fishing gear : drifting longlines, handlines, bottom trawls.

Habitat : littoral and coastal waters.

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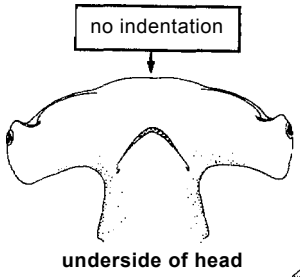
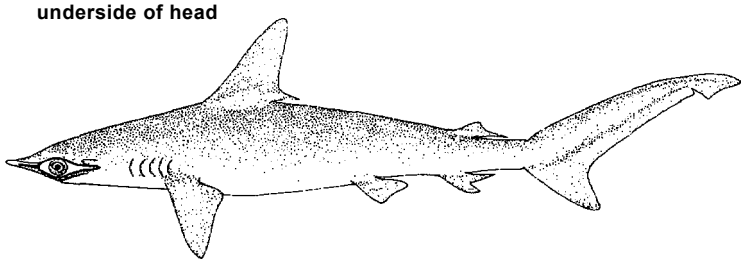




SQUALIDAE

Centrophorus granulosus (Bloch & Schneider, 1801)

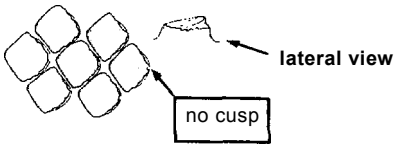
FAO names : **En** - Gulper shark; **Fr** - Squale-chagrin commun; **Sp** - Quelvacho.

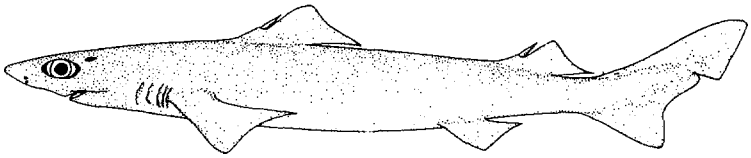
Size : 150 cm, common to 80 cm.

Fishing gear : bottom trawls, hook-and-line.

Habitat : benthic.

Loc.name(s) :





Centrophorus lusitanicus Bocage & Capello, 1864

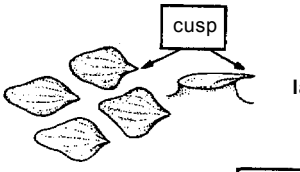
FAO names : **En** - Lowfin gulper shark; **Fr** – Squale-chagrin à longue dorsale; **Sp** - Quelvàcho lusitanico.

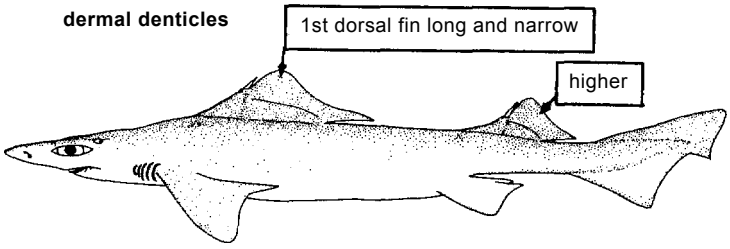
Size : at least 160 cm, common to 100 cm.

Fishing gear : bottom nets, bottom set nets, hook-and-line.

Habitat : benthic in deep waters.

Loc.name(s) :





Centrophorus squamosus (Bonnaterre, 1788)

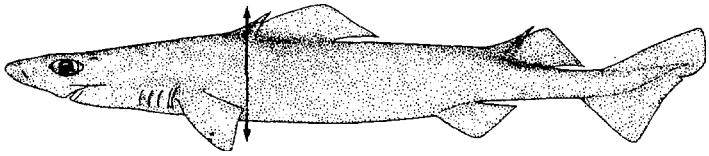
FAO names : **En** - Leafscale gulper shark; **Fr** - Squale-chagrin de l'Atlantique; **Sp** - Quelvacho negro.

Size : to at least 158 cm.

Fishing gear : bottom trawls, line gear, bottom set nets.

Habitat : deep waters from 400 to 500 m.

Loc.name(s) :



SHARKS

SQUALIDAE

Centrophorus uyato (Rafinesque, 1810)

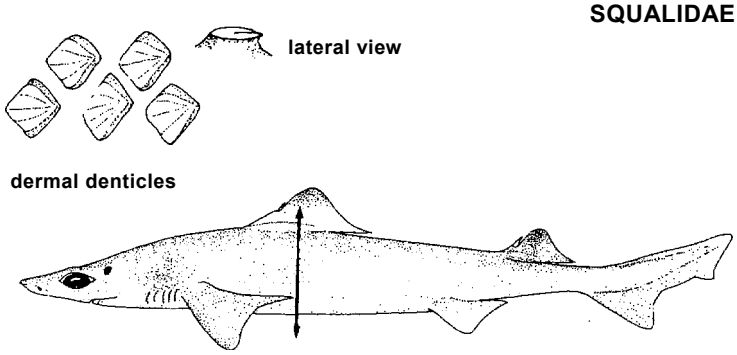
FAO names : **En** - Little guiper shark; **Fr** - Petit squale-chagrin; **Sp** - Galludito.

Size : to about 100 cm, common to 80 cm.

Fishing gear : bottom trawls, bottom set nets, hook-and-line.

Habitat : from 50 to 1400 m depth.

Loc.name(s) :



Centroscyllium fabricii (Reinhardt, 1825)

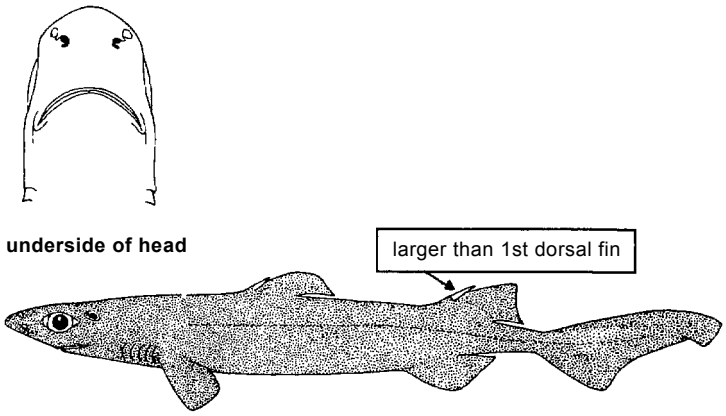
FAO names : **En** - Black dogfish; **Fr** - Aiguillat noir; **Sp** - Tollo negro merga.

Size : at least 84 cm.

Fishing gear : bottom trawls, line gear.

Habitat : deep waters, from 180 to 1600 m depths.

Loc.name(s) :



Centroscymnus coelolepis Bocage & Capello, 1864

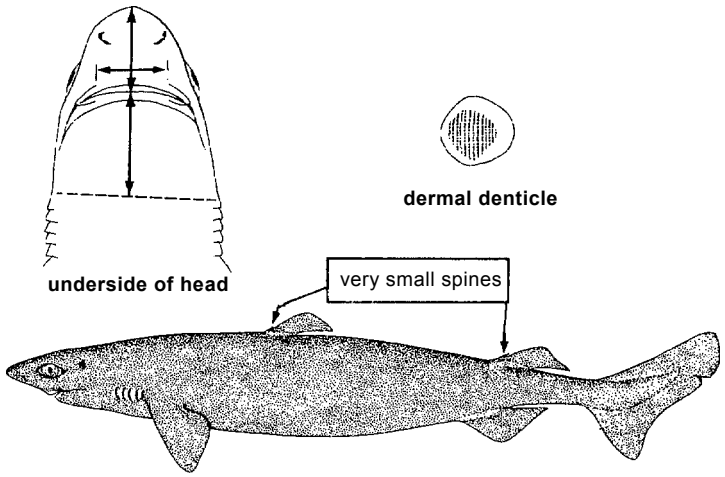
FAO names : **En** - Portuguese dogfish; **Fr** - Pailona commun; **Sp** - Pailona.

Size : 114 cm, common to 95 cm.

Fishing gear : bottom trawls, deepwater set nets, line gear.

Habitat : from 270 to 3600 m depth; common on the upper continental slope.

Loc.name(s) :



Centroscymnus crepidater (Bocage & Capello, 1864)

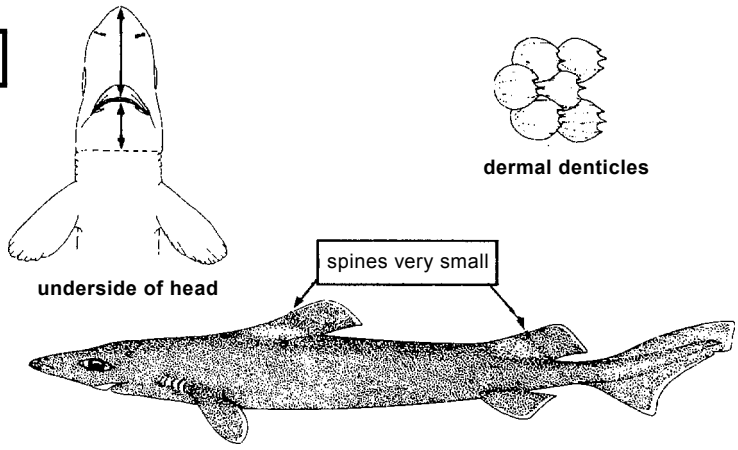
FAO names : **En** - Longnose velvet dogfish; **Fr** - Pailona à lon nez; **Sp** - Sapata negra.

Size : 114 cm, common to 95 cm.

Fishing gear : bottom trawls, deepwater set nets, line gear.

Habitat : from 270 to 3600 m depth; common on the upper continental slope.

Loc.name(s) :



next page

Dalatias licha (Bonnaterre, 1788)

Synonyms : Scymnorhinus licha (Bonnaterre, 1788).

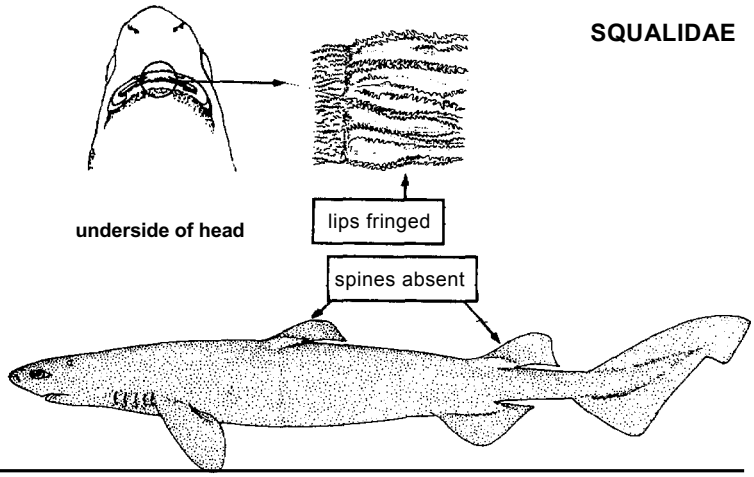
FAO names : **En** - Kitefin shark; **Fr** - Squale liche; **Sp** - Carocho.

Size : 180 cm, common to 150 cm.

Fishing gear : bottom trawls, bottom set nets, hook-and-line.

Habitat : continental shelf and upper slope, to 1000 m depth.

Loc.name(s) :



Deania calcea (Lowe, 1839)

FAO names : **En** - Birdbeak dogfish ; **Fr** - Squale savate; **Sp** - Tollo pajarito.

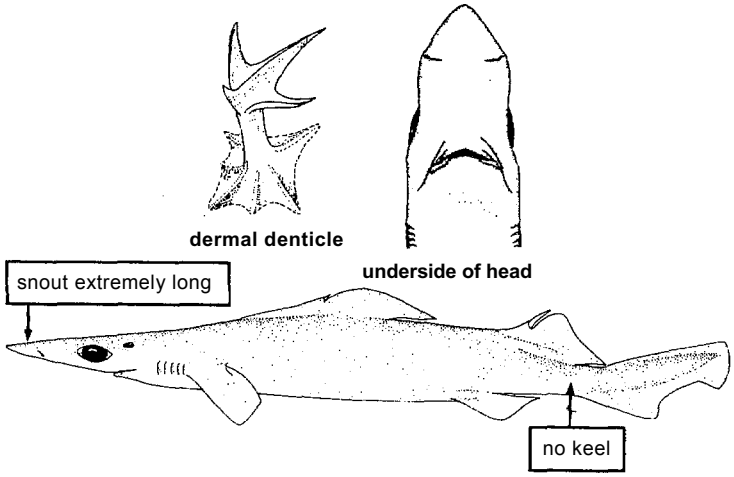
Size : to about 110 cm.

Fishing gear : pelagic trawls.

Habitat : continental slope from 460 to 1430 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Deania profundorum (Smith & Radcliffe, 1912)

Synonyms : Deania cremouxi Cadenat, 1960.

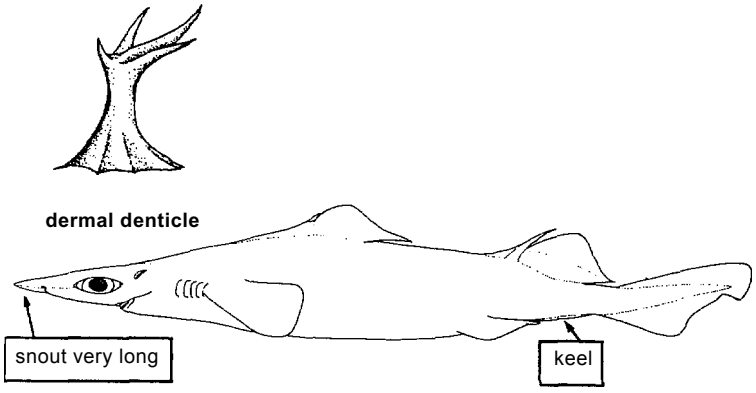
FAO names : **En** - Arrowhead dogfish; **Fr** - Squale-savate lutin; **Sp** - Tolloflecha.

Size : 76 cm.

Fishing gear : no information available.

Habitat : demersal, on the upper continental slope, at depths from 275 to 1800 m.

Loc.name(s) :



Etmopterus polli Bigelow, Schroeder & Springer, 1953

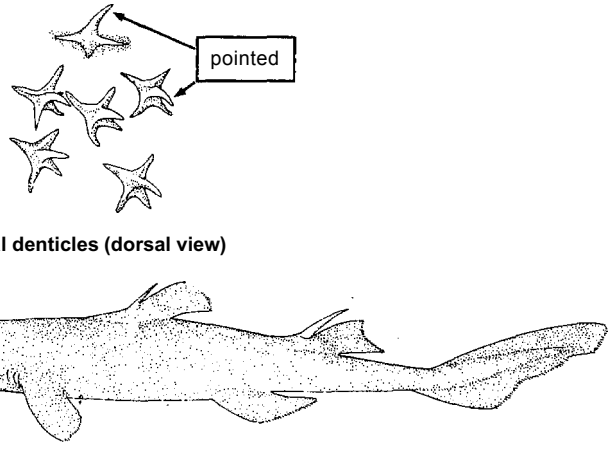
FAO names : **En** - African lantern shark; **Fr** - Sagre à menton lisse; **Sp** - Tollo lucero africano.

Size : about 24 cm.

Fishing gear : bottom trawls, bottom set nets, hook-and-line.

Habitat : upper continental slope, from 300 to 1000 m depth.

Loc.name(s) :



Etmoptertis pusillus (Lowe, 1839)

Synonyms : *Centrina nigra* Lowe, 1839; *Etmopterus frontimaculatus* Pietschmann, 1907.

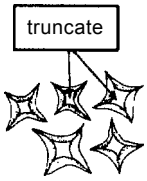
FAO names : **En** - Smooth lantern shark; **Fr** - Sagre nain; **Sp** - Tollo lucero liso.

Size : 47 cm, possibly larger, between 50 and 1000 m depth.

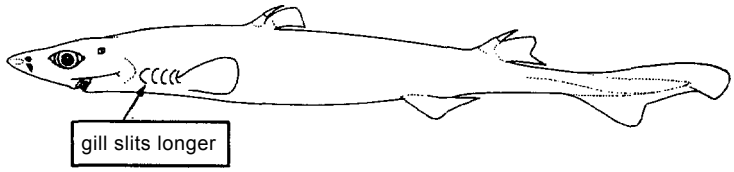
Fishing gear : bottom trawls, bottom set nets, line gear.

Habitat : demersal on the continental shelf from 270 to 1000 m depth.

Loc.name(s) :



dermal denticles (dorsal view)



Etmopterus spinax (Linnaeus, 1758)

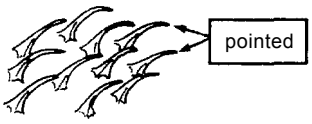
FAO names : **En** - Velvet-belly; **Fr** - Sagre commun; **Sp** - Negrito.

Size : 60 cm, common to 40 cm.

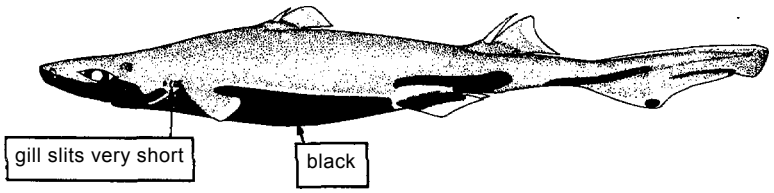
Fishing gear : bottom and pelagic trawls, bottom set nets, hook-and-line.

Habitat : demersal in deep waters, from 100 to 1000 m depth.

Loc.name(s) :



dermal denticles (lateral view)



Squalus blainvillei (Risso, 1826)

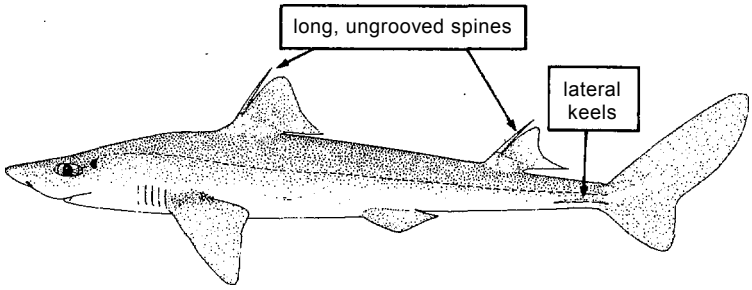
FAO names : **En** - Longnose spurdog; **Fr** - Aiguiltat coq; **Sp** - Galludo.

Size : at least 95 cm.

Fishing gear : bottom trawls, bottom set gillnets, hook-and-line.

Habitat : demersal between 300 and 600 m depth.

Loc.name(s) :



Squalus megalops (Macleay, 1881)

Synonyms : *Squalus acutipinnis* Regan, 1921.

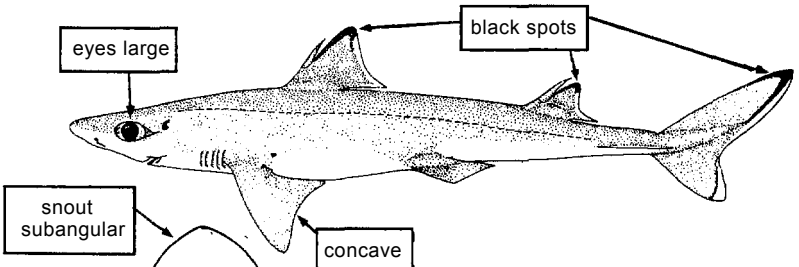
FAO names : **En** - Bigeye spurdog; **Fr** - Aiguillat à gros yeux; **Sp** - Galludo ojón.

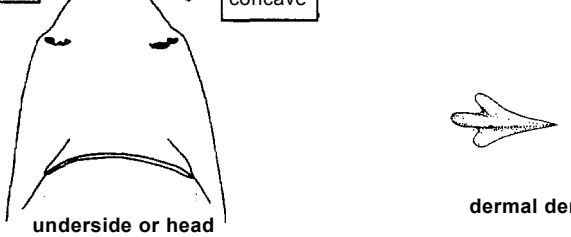
Size : about 71 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : demersal between 16 and 250 m depth; gregarious.

Loc.name(s) :





dermal denticle

SHARKS

SQUALIDAE

Squalus mitsukurii Jordan & Snyder, 1903

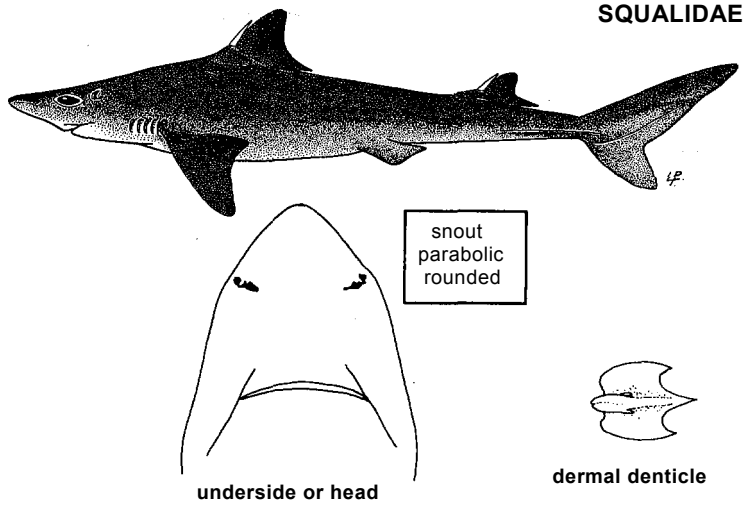
FAO names : **En** - Shortspine spurdog; **Fr** - Aiguillat épinette; **Sp** - Galludo espinilla.

Size : 110 cm.

Fishing gear : no information available.

Habitat : demersal on the continental shelf.

Loc.name(s) :



SQUATINIDAE

Squatina aculeata Duméril, 1829

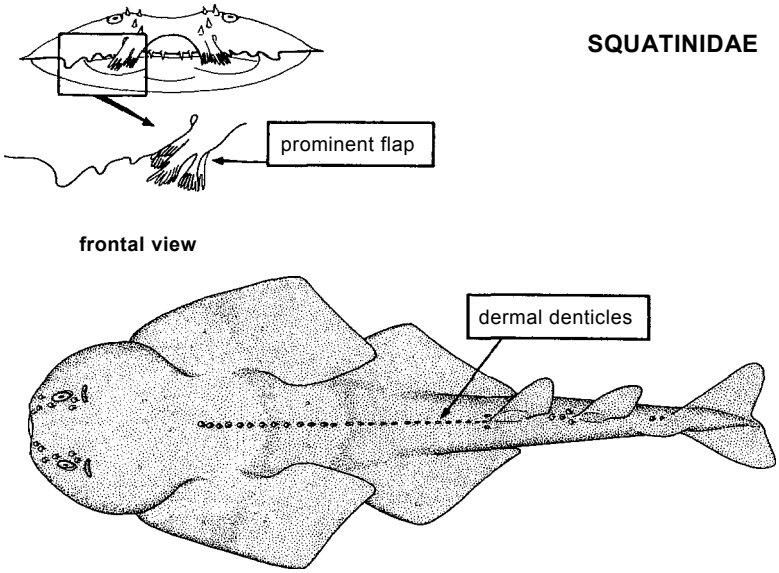
FAO names : **En** - Sawback angelshark; **Fr** - Ange de mer épineux; **Sp** - Angelote espinudo.

Size : to about 190 cm.

Fishing gear : bottom trawls, bottom set nets.

Habitat : demersal between 20 and 500 m depth.

Loc.name(s) :



Squatina oculata Bonaparte, 1840

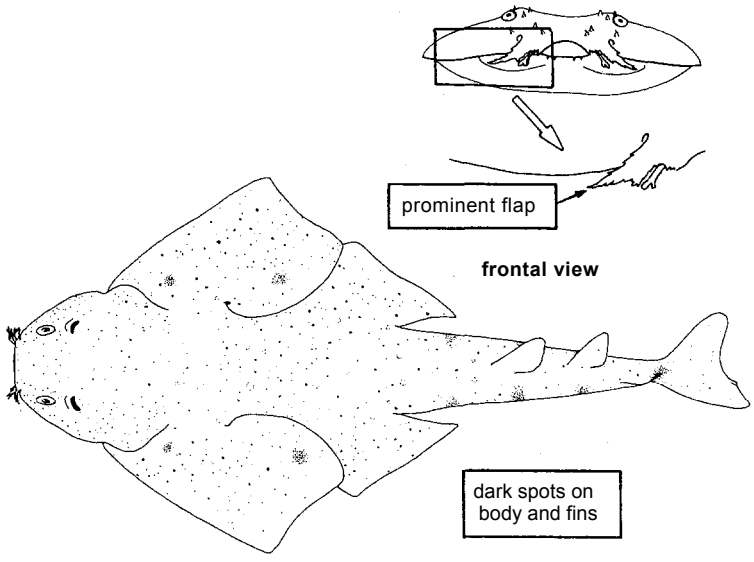
FAO names : **En** - Smoothback angelshark; **Fr** - Ange de mer ocellé; **Sp** - Pez angel.

Size : 160 cm, common to 80 cm.

Fishing gear : bottom trawls.

Habitat : continental shelf and slope from 20 to 500 m depth.

Loc.name(s) :



Galeorhinus galeus (Linnaeus, 1758)

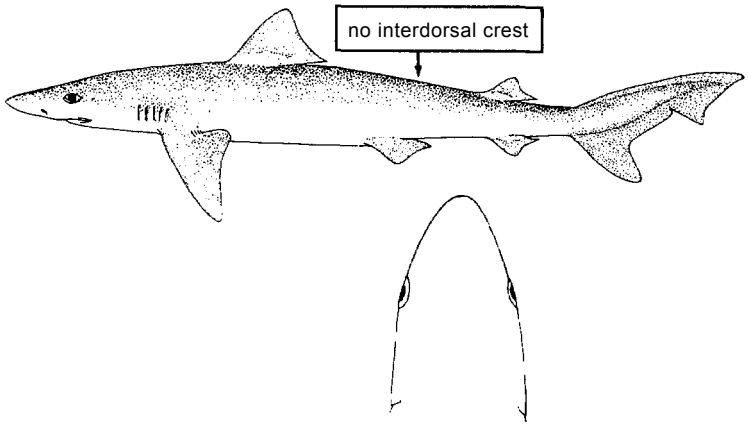
FAO names : **En** - Tope shark; **Fr** - Requin-hâ; **Sp** – Cazón.

Size : 195 cm, common between 100 and 120 cm.

Fishing gear : bottom trawls, longlines.

Habitat : demersal and benthopelagic, from coastal waters to 300 m depth.

Loc.name(s) :



dorsal view of head

Mustelus mustelus (Linnaeus, 1758)

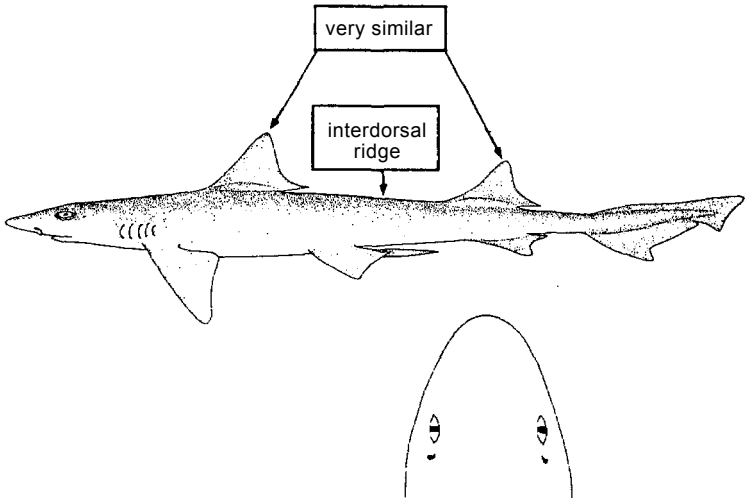
FAO names : **En** - Smooth-hound**; Fr** - Emissole lisse; **Sp** - Musola.

Size : 160 cm, common to 120 cm.

Fishing gear : bottom trawls, bottom set nets, line gear.

Habitat : demersal, from 5 to 350 m depth.

Loc.name(s) :



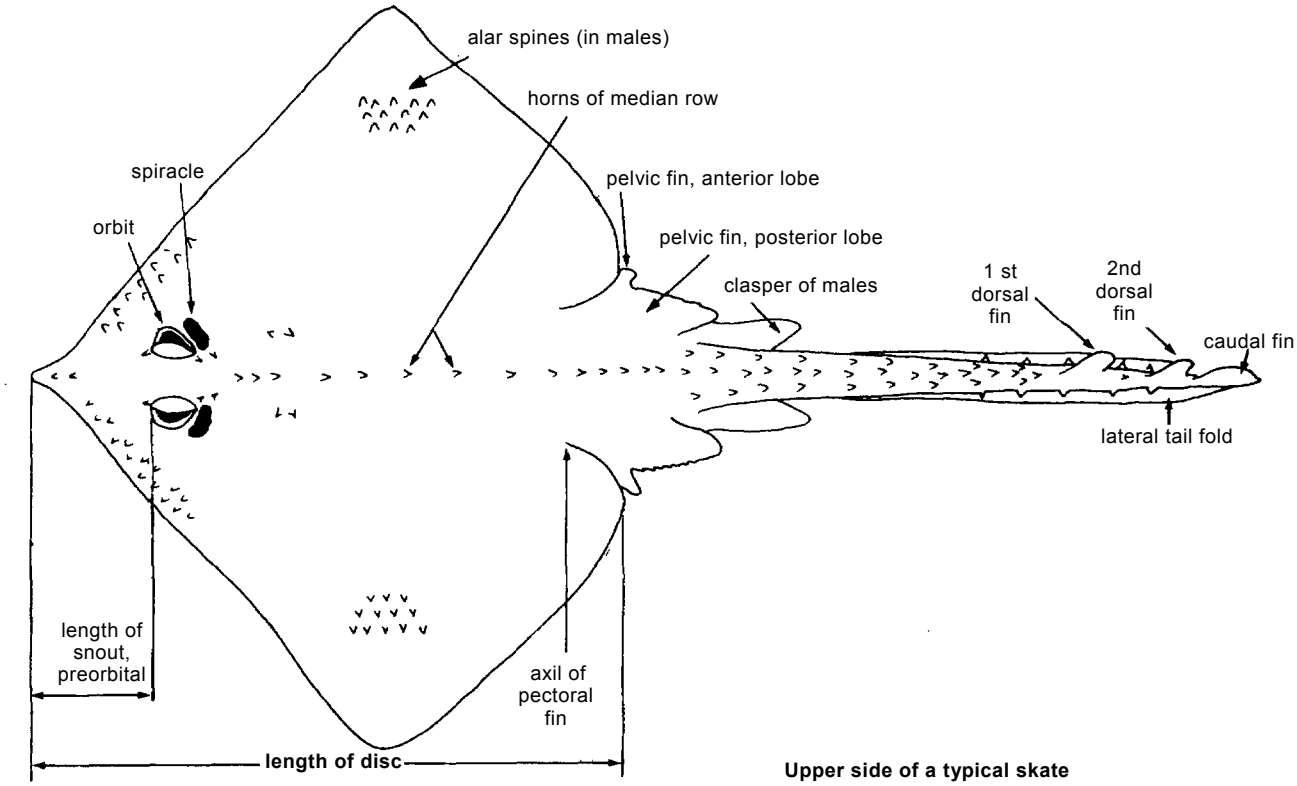
dorsal view of head

next page

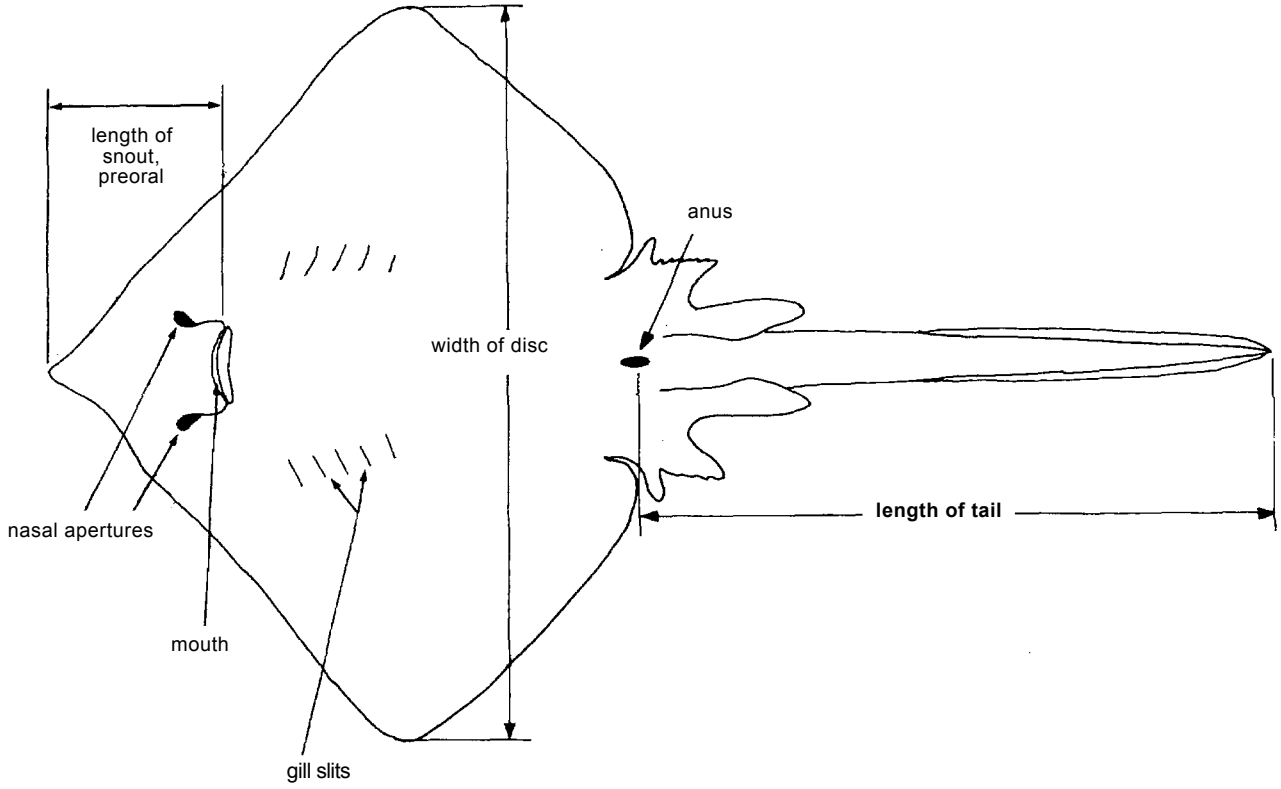
BATOID FISHES

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

(Straight-line distances only)



Upper side of a typical skate



Lower side of a typical skate

BATOID FISHES

GUIDE TO FAMILIES

The purpose of this guide is to ensure correct identification of all families (and their respective genera) occurring in the Gulf of Guinea.

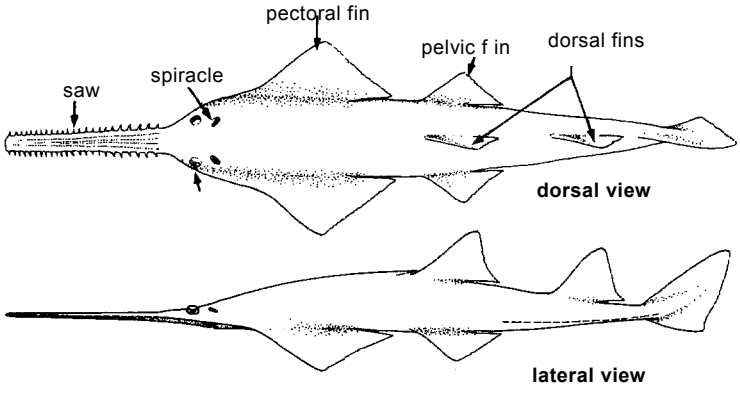
Note:

Page numbers following the family names, when present, lead to information on species of interest to fisheries.

All distinctive characters used here apply only to species occurring in the Gulf of Guinea.

PRISTIDAE Sawfishes **page 160**

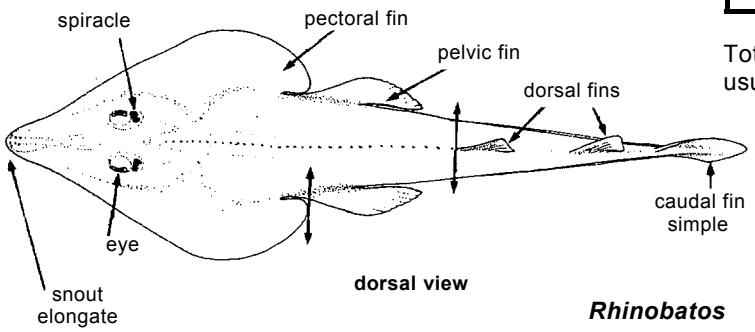
Total length to 600 cm; coastal marine and brackish waters, rarely in freshwaters; usually to 10 m depth; demersal.



Pristis

RHINOBATIDAE Guitarfishes **page 164**

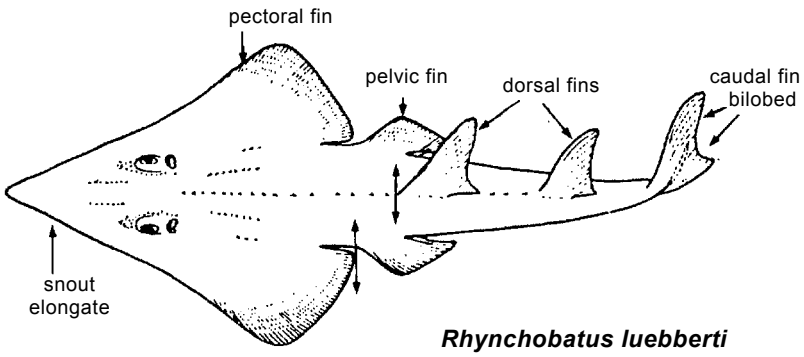
Total length to 200 cm; coastal marine waters to 90 m depth; demersal.



Rhinobatos

RHYNCHOBATIDAE Wedgefishes

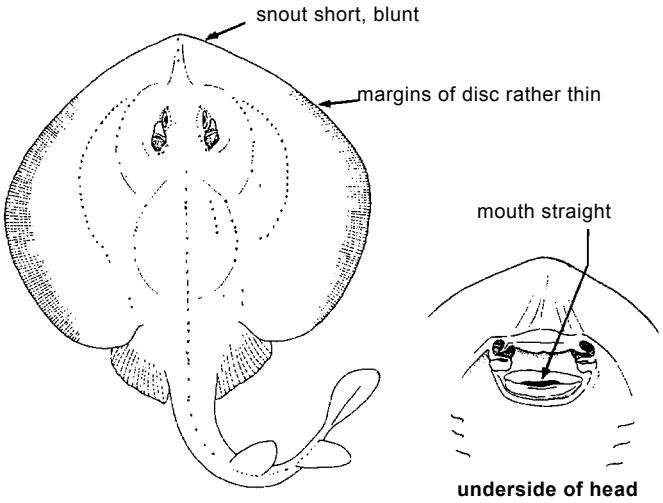
Total length to 300 m; coastal marine waters to 35 m depth; demersal. A single species.



Rhynchobatus luebberti

PLATYRHINIDAE Thornback guitarfishes

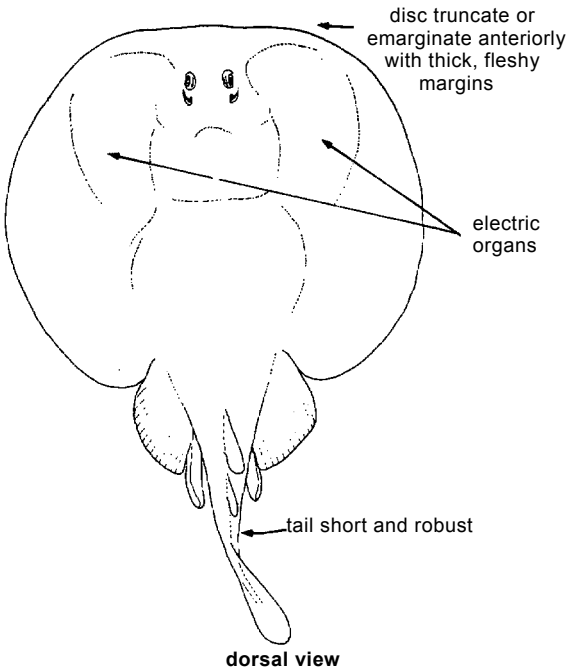
Total length to about 1 m; mainly coastal waters, but also offshore around islands, to 300 m depth; demersal. A single species.



Zanobatus schoenleinii

TORPEDINIDAE Electric rays

Total length to 180 cm; coastal waters to 570 m depth; usually demersal.



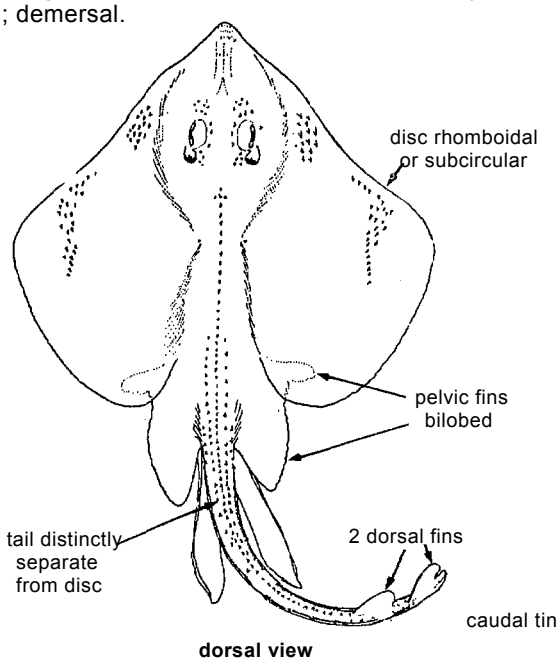
Torpedo

BATOID FISHES

GUIDE TO FAMILIES

RAJIDAE Rays and skates **page 161**

Total length to 230 cm; littoral waters to beyond 1000 m depth; demersal.

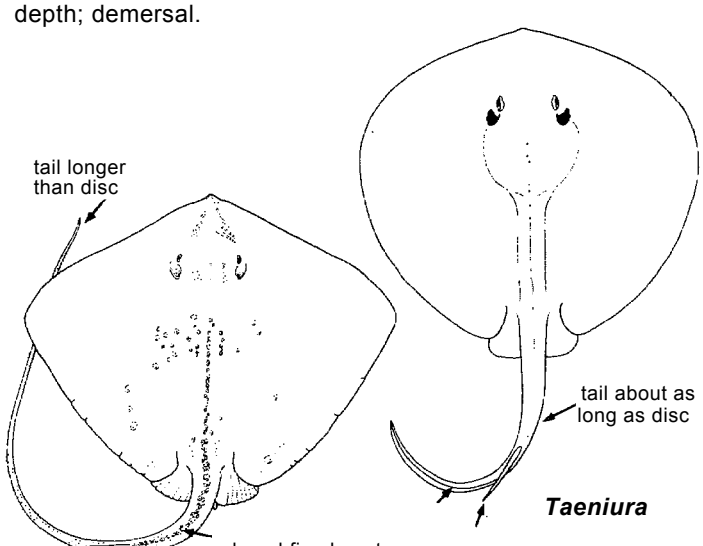


dorsal view

Raja

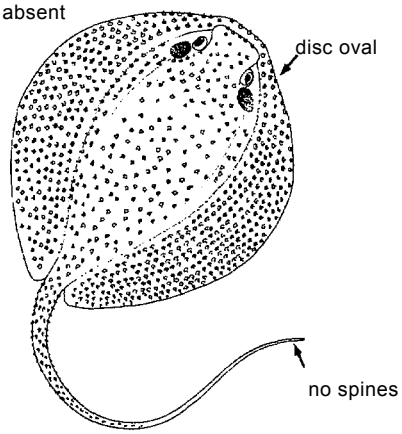
DASYATIDAE Stingrays **page 157**

Total length to 300 cm; coastal waters to at least 300 m depth; demersal.



Taeniura

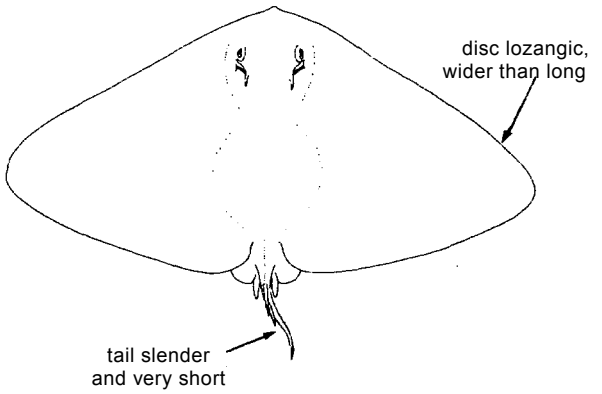
Dasyatis



Urogymnus asperimus

GYMNURIDAE Butterfly rays

Disc width to 400 cm; from coastal waters to 60 m depth; demersal.

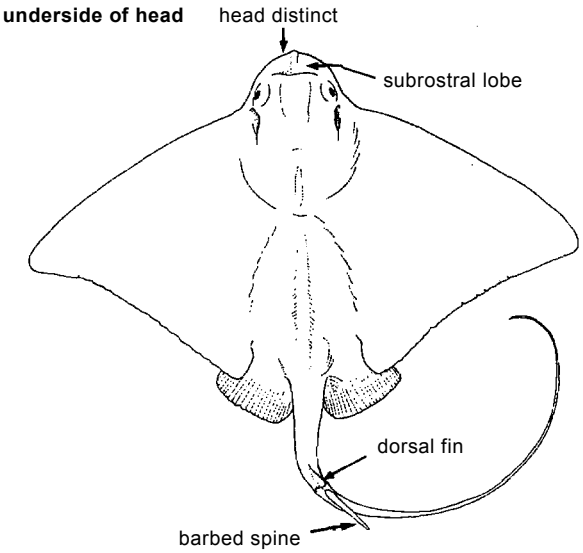


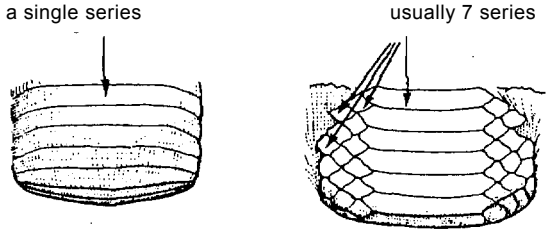
Gymnura

MYLIOBATIDAE Eagle rays **page 159**

Total length to 370 cm; coastal waters to 100 m depth; demersal.

underside of head



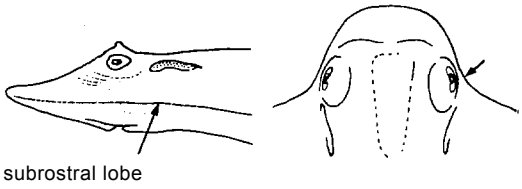


Aetobatus narinarum ***Myliobatis aquila, Pteromylaeus bovinus***

arrangement of teeth in upper jaw

BATOID FISHES

GUIDE TO FAMILIES



underside of head **dorsal view of head**

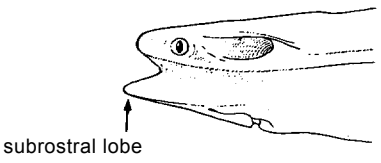
Myliobatis aquila

underside of head **dorsal view of head**

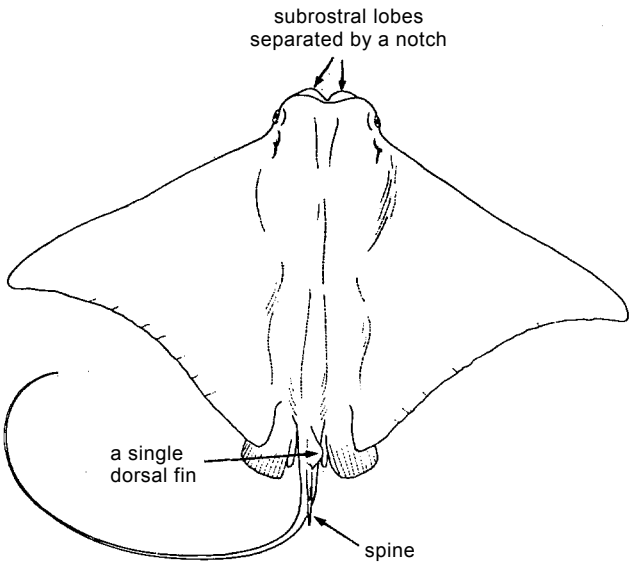
Pteromylaeus bovinus

RHINOPTERIDAE Cownose rays **page 165**

Length of disc to 200 m; coastal waters to about 30 m depth.



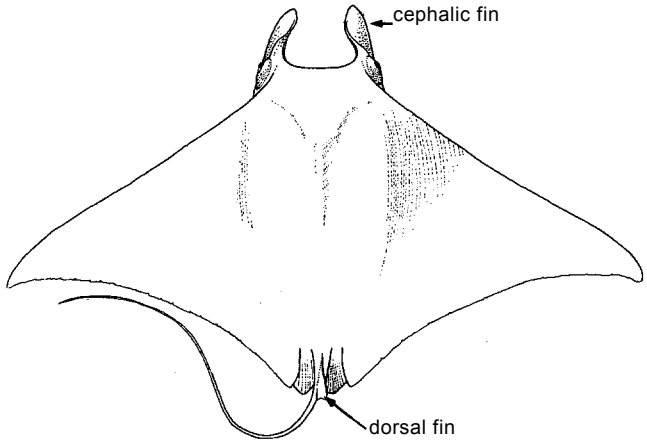
underside of head



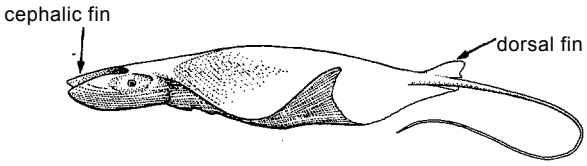
Rhinoptera marginata

MOBULIDAE Mantas and Sea-devils **page 158**

Width of disc to 700 cm; shallow coastal waters; pelagic.

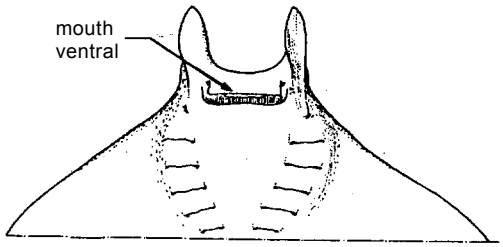


dorsal view

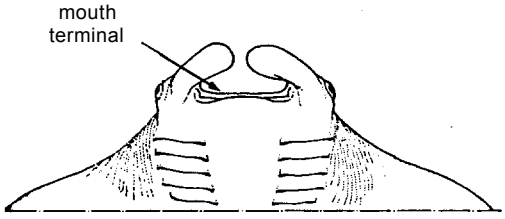


lateral view

frontal view



underside of head



underside of head

Manta birostris

next page

Dasyatis centroura (Mitchill, 1815)

Synonyms : *Dasyatis aspera* (Cuvier, 1817); *Dasyatis hastata* (DeKay, 1842).

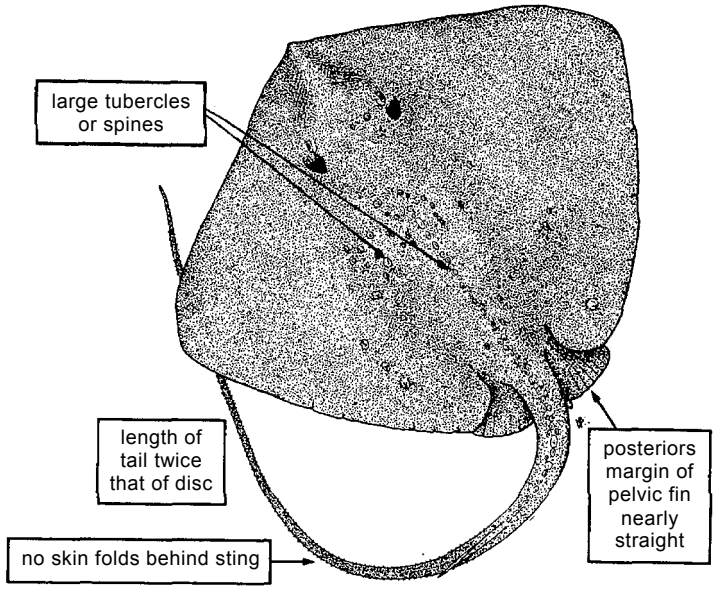
FAO names : **En** - Roughtail stingray; **Fr** - Pastenague épineuse; **Sp** - Raya-látigolija.

Size : over 300 cm (total length).

Fishing gear : bottom trawls, trammel nets, bottom set longlines, hook-and-line.

Habitat : Usually in coastal waters, to 300 m depth; demersal, mostly on soft bottoms.

Loc.name(s) :



Dasyatis margarita (Günther, 1870)

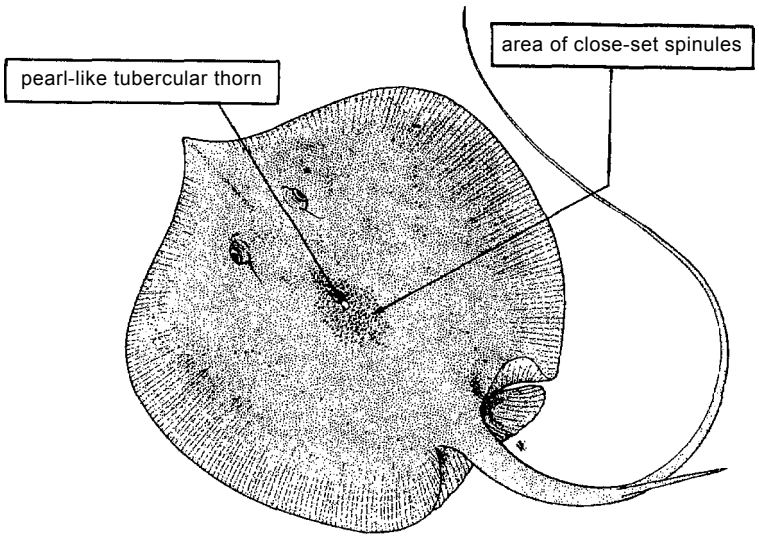
FAO names : **En** - Daisy stingray; **Fr** - Pastenague marguerite; **Sp** - Raya-látigo margarita.

Size : 200 cm (total length), common to 60 cm.

Fishing gear : bottom trawls, trammelnets, bottom set longlines, hook-and-line.

Habitat : shallow coastal waters to 60 m depth, enters estuaries and lagoons.

Loc.name(s) :



Dasyatis pastinaca (Linnaeus, 1758)

Synonyms : *Trygon pastinaca* (Linnaeus, 1758).

FAO names : **En** - Common stingray; **Fr** - Pastenague commune; **Sp** - Raya-látigo común.

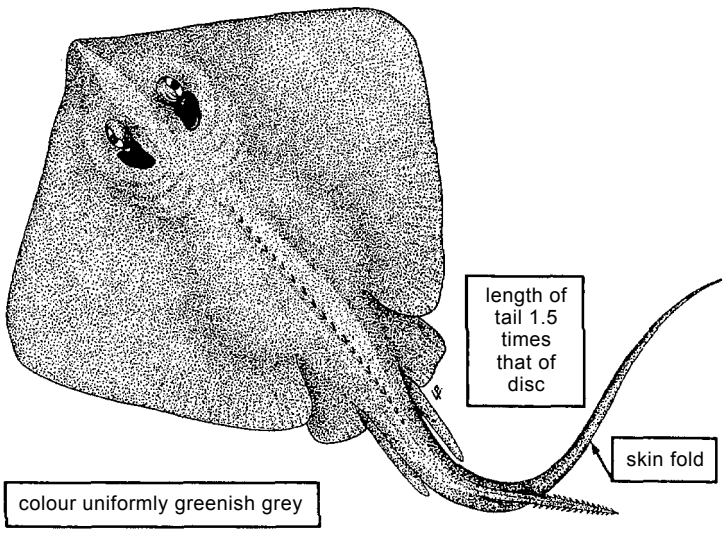
Size : 250 cm (total length), common to 80 cm.

Fishing gear : bottom trawls, trammelnets, bottom set longlines, hook-and-line.

Habitat : shallow coastal waters to 60 m depth.

Remarks : presence in Gulf of Guinea to be confirmed.

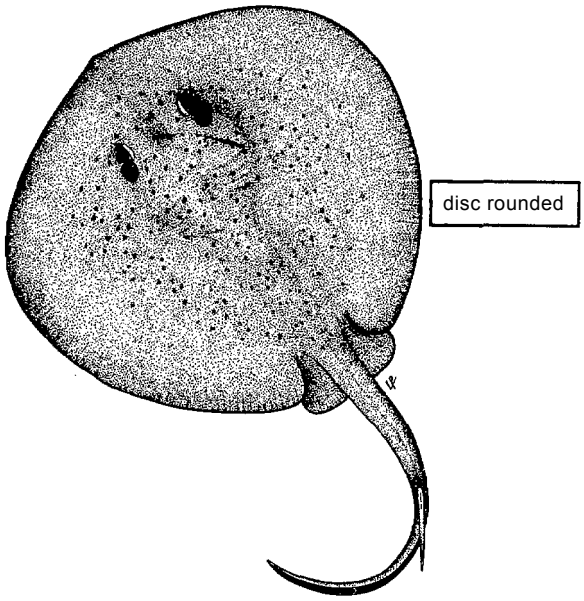
Loc.name(s) :



BATOID FISHES

DASYATIDAE

Taeniura grabata (E. Geoffroy Saint-Hilaire, 1817)



FAO names : **En** - Round stingray; **Fr** - Pastenague africaine; **Sp** - Chupare redondo.

Size : 250 cm (total length).

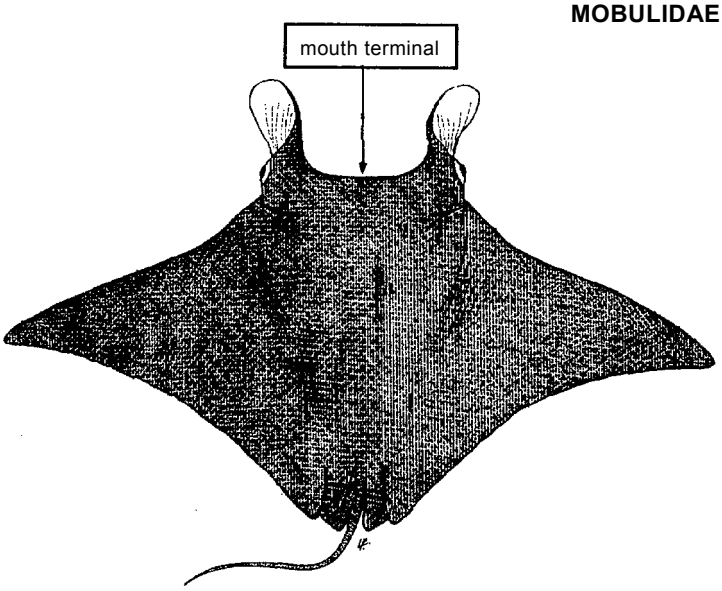
Fishing gear : bottom trawls.

Habitat : on soft bottoms in coastal waters.

Loc.name(s) :

MOBULIDAE

Manta birostris (Donndorff, 1798)



FAO names : **En** - Giant Atlantic manta; **Fr** - Mante atlantique; **Sp** - Manta atlántica gigante.

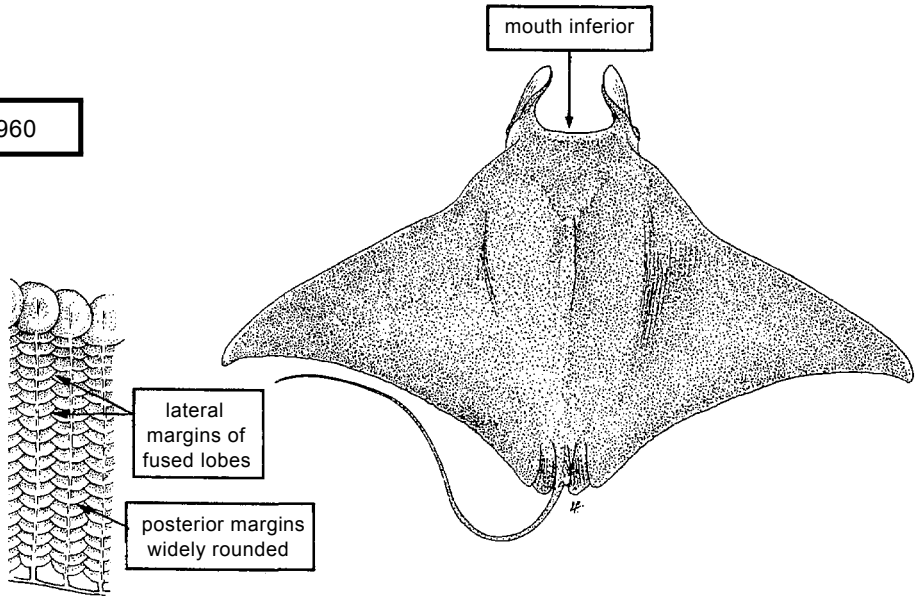
Size : 700 cm (disc width).

Fishing gear : trammelnets, purse seines, longlines, driftnets, pelagic trawls.

Habitat : pelagic, in shallow coastal waters.

Loc.name(s) :

Mobula coilloti Cadenat & Rancurel, 1960



FAO names : **En** - Greater Guinean mobula; **Fr** - Diable géant de Guinée; **Sp** - Diablo gigante de Guinea.

Size : about 250 cm (disc width).

Fishing gear : trammelnets, purse seines, driftnets, longlines, pelagic trawls.

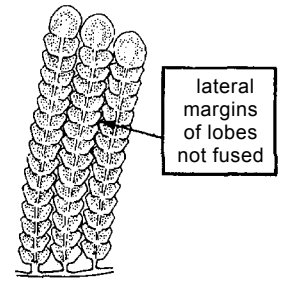
Habitat : pelagic, feeding on planktonic organisms.

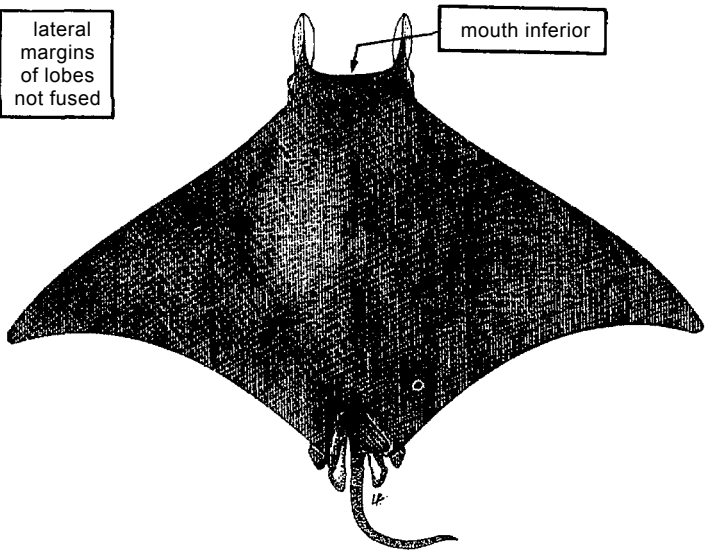
Loc.name(s) :

BATOID FISHES

MOBULIDAE

Mobula rochebrunei (Vaillant, 1879)





FAO names : **En** - Lesser Guinean mobula; **Fr** - Petit diable de Guinée; **Sp** - Diablito de Guinea.

Size : 130 cm (disc width).

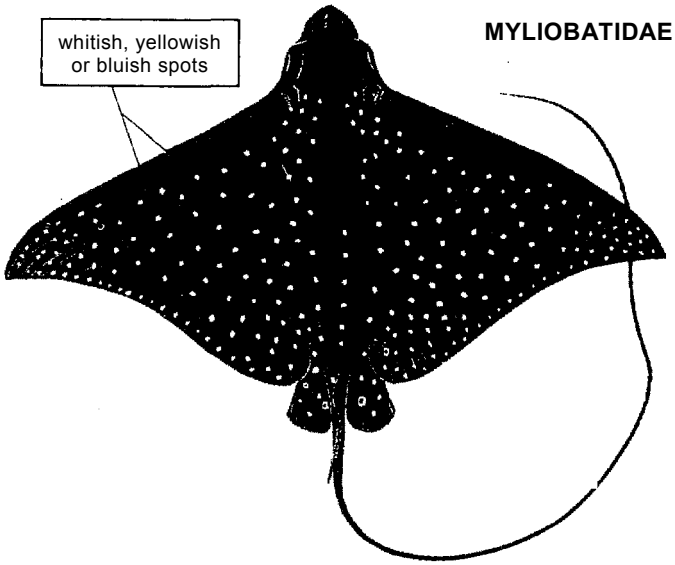
Fishing gear : trammelnets, purse seines, longlines, drifnets, harpoons.

Habitat : pelagic, in coastal waters.

Loc.name(s) :

MYLIOBATIDAE

Aetobatus narinari (Euphrasen, 1790)



Synonyms: *Stoasodon narinari* Euphrasen, 1790.

FAO names : **En** - Spotted eagle-ray; **Fr** - Aigle de mer léopard; **Sp** - Chucho pintado.

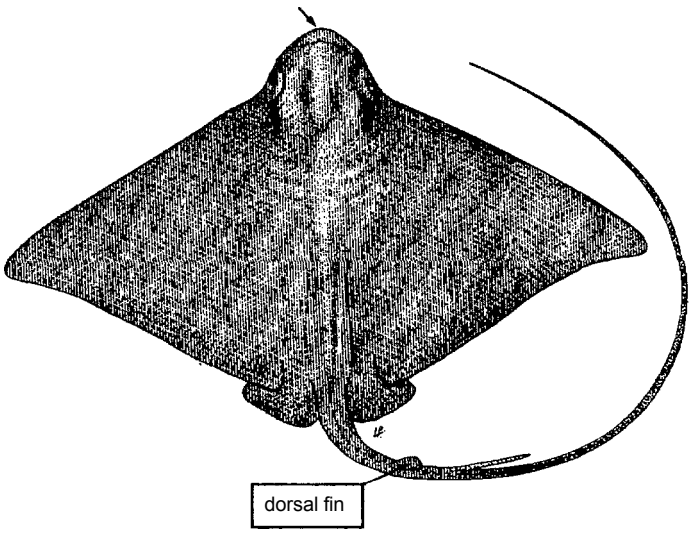
Size : 280 cm (disc width), 370 cm (total length).

Fishing gear : bottom trawls, trammel nets, purse seines, longlines, hook-and-line.

Habitat : shallow coastal waters, usually forming schools.

Loc.name(s) :

Myliobatis aquila (Linnaeus, 1758)



Synonyms : *Myliobatis cervus* Smith, 1934.

FAO names : **En** - Common eagle-ray; **Fr** - Aigle commun; **Sp** - Aguila marina.

Size : 100 cm (disc width), 150 cm (total length).

Fishing gear : bottom trawls, trammelnets, purse seines, longlines, hook-and-line.

Habitat : coastal waters to 100 m depth.

Loc.name(s) :

BATOID FISHES

MYLIOBATIDAE

Pteromylaeus bovinus (E. Geoffroy St. Hillaire, 1817)

Synonyms : *Myliobatis bovina* E. Geoffroy St. Hilaire, 1817.

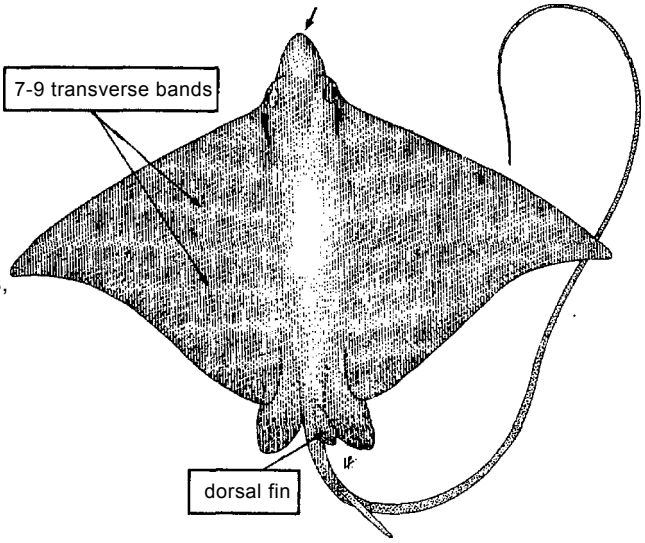
FAO names : **En** - Bull ray; **Fr** - Aigle-vachette; **Sp** - Chucho vaca.

Size : 150 cm (disc width), 260 cm (total length).

Fishing gear : bottom trawls, trammelnets, purse seines, longlines, hook-and-line.

Habitat : a pelagic species feeding on the bottom, forms schools.

Loc.name(s) :



PRISTIDAE

Pristis microdon Latham, 1794

Synonyms : *Pristis perotteti* Müller & Henle, 1841.

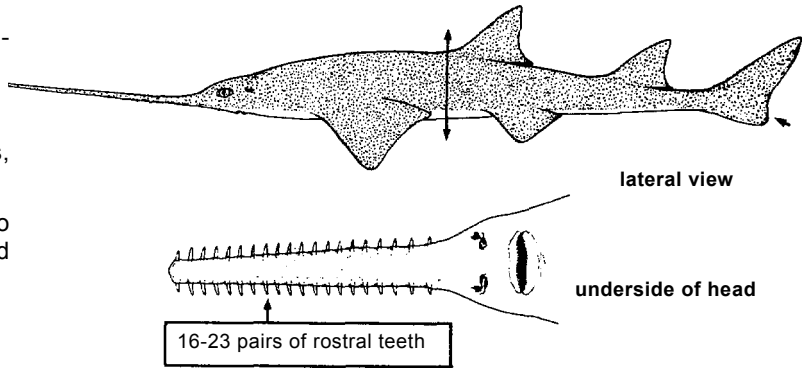
FAO names : **En** - Largetooth sawfish; **Fr** - Poisson-scie grandent; **Sp** - Pejesierra.

Size : 600 cm (total length), common to 500 cm.

Fishing gear : bottom trawls, longlines, trammelnets, drift gillnets.

Habitat : demersal in inshore coastal waters to about 45 m depth, also in estuaries, lagoons and even freshwaters.

Loc.name(s) :



Pristis pectinata Latham, 1794

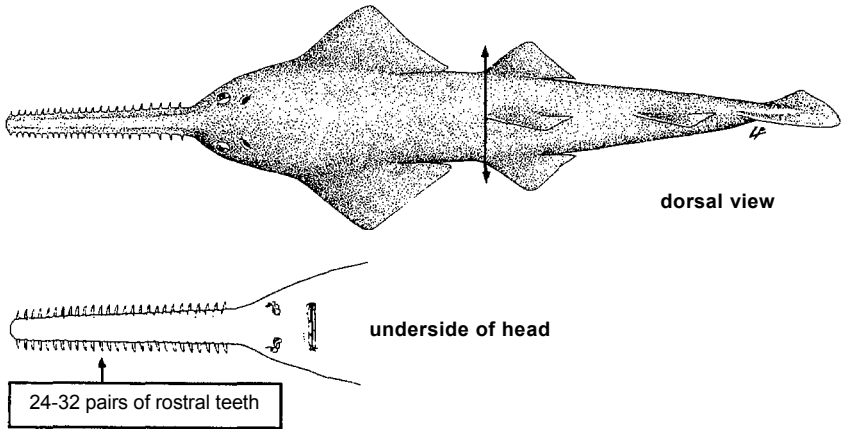
FAO names : **En** - Smalltooth sawfish; **Fr** - Poisson-scie tident; **Sp** - Pejepeine.

Size : 600 cm (total length).

Fishing gear : bottom trawls, longlines, trammelnets, drift gillnets.

Habitat : coastal waters to 100 m depth; also in estuaries, lagoons and even freshwaters.

Loc.name(s) :



next page

BATOID FISHES

PRISTIDAE

Pristis pristis (Linnaeus, 1758)

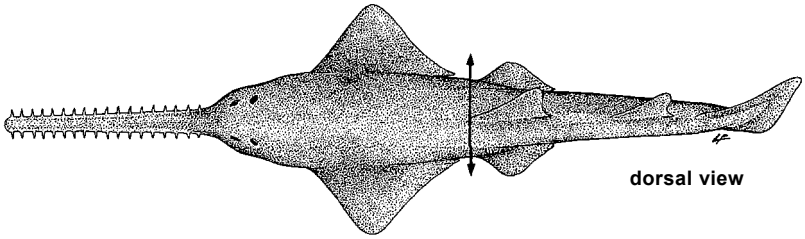
FAO names : **En** - Common sawfish; **Fr** - Poisson-scie commun; **Sp** - Pez sierra común.

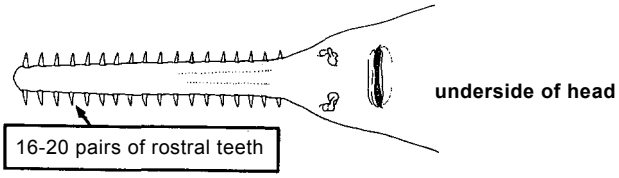
Size : 500 cm (total length).

Fishing gear : bottom trawls, longlines, trammelnet, drift gillnets.

Habitat : demersal in littoral and coastal waters to 60 m depth.

Loc.name(s) :





RAJIDAE

Raja alba Lacepède, 1803

Synonyms : *Raja marginata* Lacepède, 1803; *Raja bicolor* Risso, 1826. '

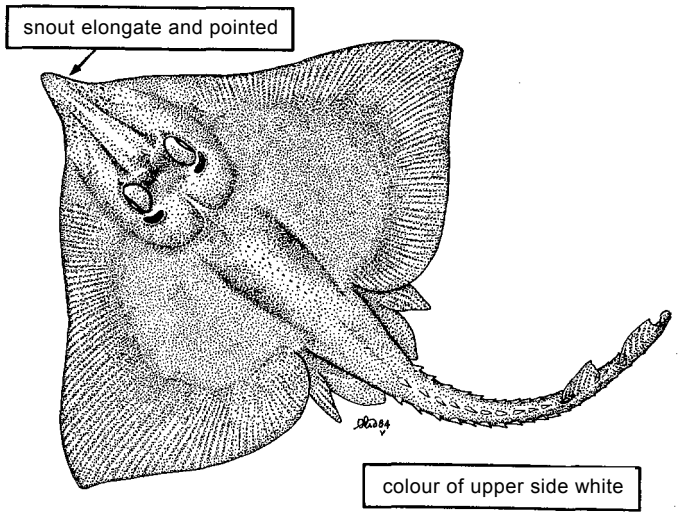
FAO names : **En** - White skate; **Fr** - Raie blanche; **Sp** - Raya bramante.

Size : 200 cm (total length).

Fishing gear : bottom trawls, longlines, trammelnets.

Habitat : on different types of bottoms, from 40 to 400 m depth.

Loc.name(s) :



Raja clavata Linnaeus, 1758

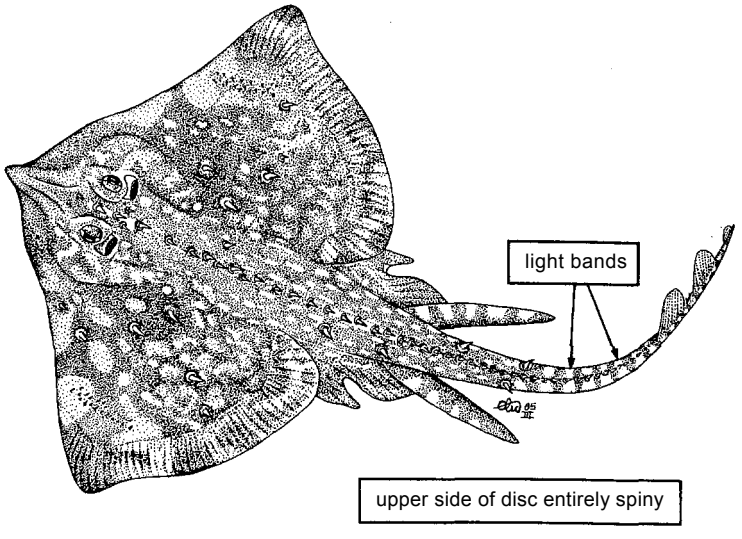
FAO names : **En** - Thornback ray; **Fr** - Raie bouclée; **Sp** - Raya de clavos.

Size : 90 cm (total length).

Fishing gear : bottom trawls, longlines, trammelnets.

Habitat : from shallow coastal waters to 300 m depth.

Loc.name(s) :



Raja doutrei Cadenat, 1960

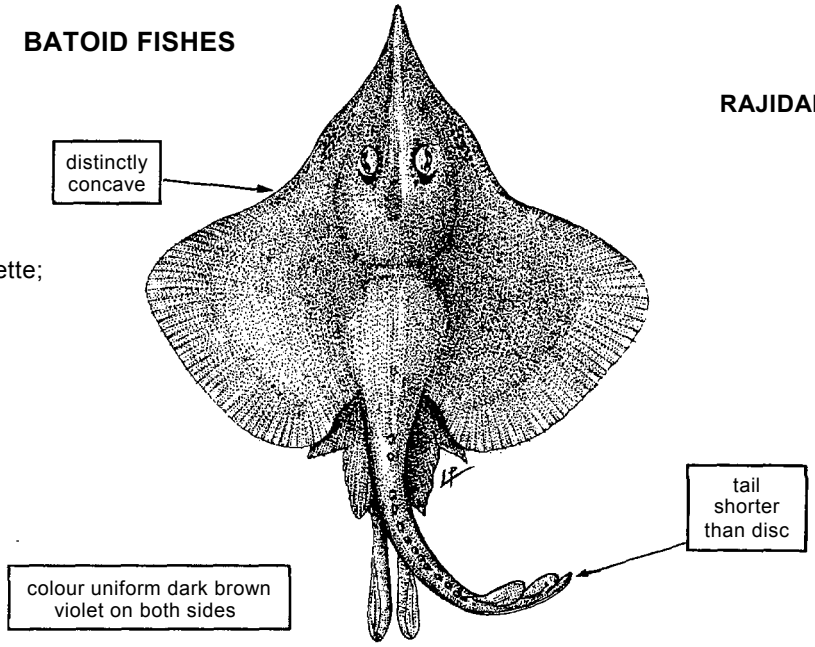
FAO names : **En** - Violet skate; **Fr** - Raie violette; **Sp** - Raya violeta.

Size : 90 cm (total length), common to 60 cm.

Fishing gear : bottom trawls.

Habitat : Rather deep waters, from 300 to 600 m.

Loc.name(s) :



Raja leopardus v. Bonde & Swart, 1923

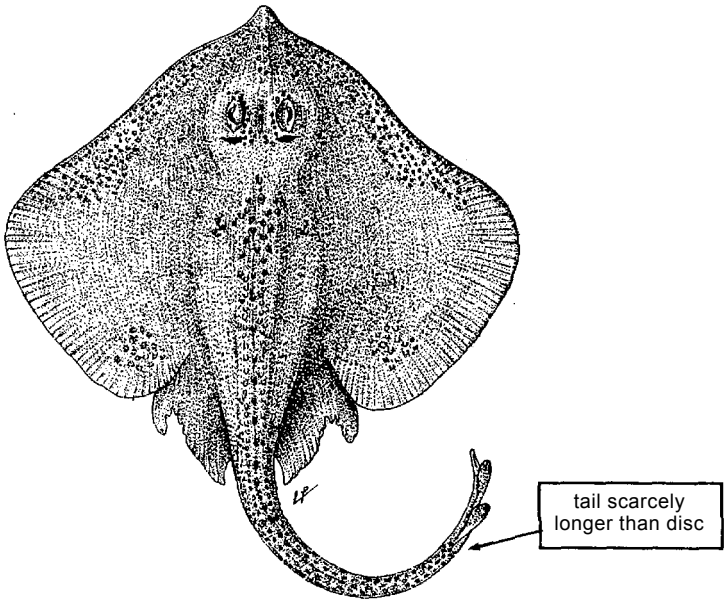
FAO names : **En** - Leopard ray; **Fr** - Raie léopard; **Sp** - Raya leopardo.

Size : 60 cm (total length).

Fishing gear : bottom trawls.

Habitat : deep waters, from 150 to 300 m.

Loc.name(s) :



Raja maderensis Lowe, 1839

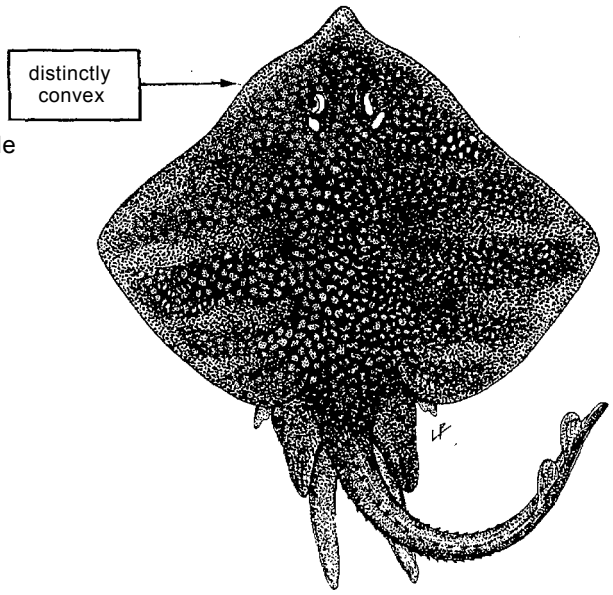
FAO names : **En** - Madeiran ray; **Fr** - Raie de Madeire; **Sp** - Raya de Madeira.

Size : 85 cm (total length), common to 50 cm.

Fishing gear : bottom trawls.

Habitat : deep waters, from 200 to 500 m.

Loc.name(s) :



BATOID FISHES

RAJIDAE

Raja miraletus Linnaeus, 1758

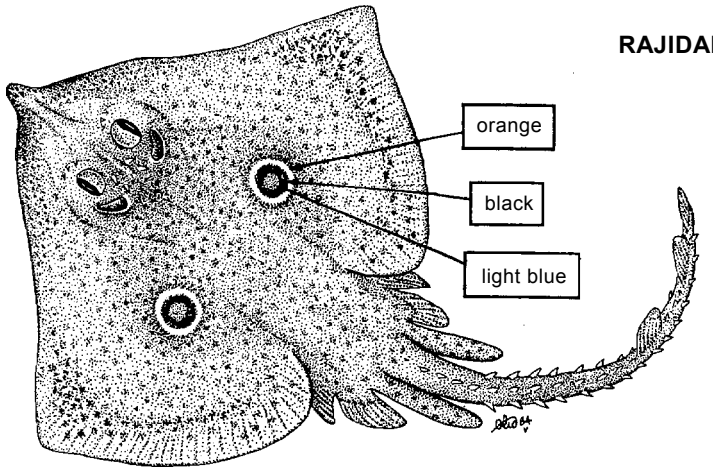
FAO names : **En** - Brown ray; **Fr** - Raie miroir; **Sp** - Raya de espejos .

Size : 60 cm (total length), common to 35 cm.

Fishing gear : bottom trawls, longlines, trammelnets.

Habitat : demersal, from 50 to 300 m depth, more common between 50 and 150 m depth.

Loc.name(s) :



Raja radula Delaroche, 1809

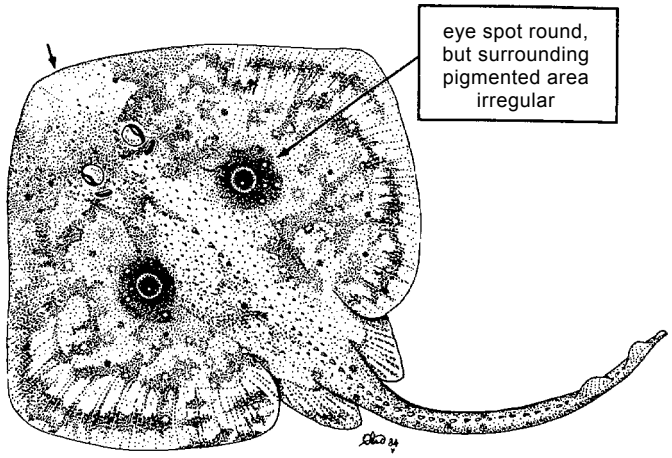
FAO names : **En** - Rough ray; **Fr** - Raie-rape; **Sp** - Raya áspera.

Size : 70 cm (total length), common to 50 cm.

Fishing gear : bottom trawls, trammelnets, beach seines.

Habitat : demersal, from 40 to 350 m depth.

Loc.name(s) :



upper side of disc almost entirely spiny

Raja straeleni Poll, 1951

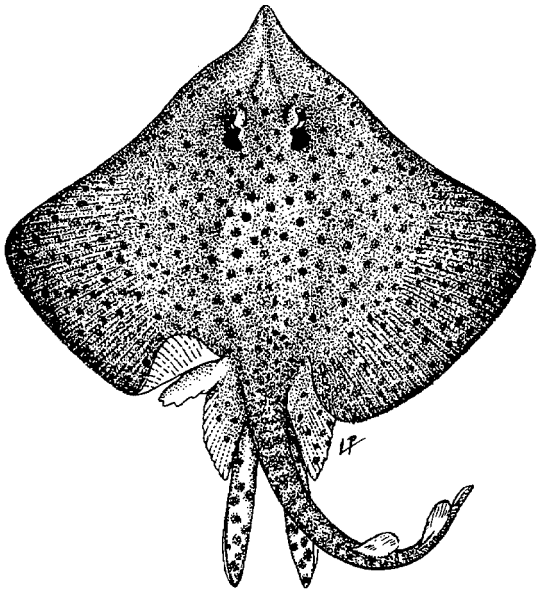
FAO names : **En** - Spotted skate; **Fr** - Raie tachetée; **Sp** - Raya manchada.

Size : 70 cm (total length), common to 40 cm.

Fishing gear : bottom trawls.

Habitat : deep waters, from 100 to 300 m depth.

Loc.name(s) :



colour: upper side dark, sometimes with darker spots, underside lighter

BATOID FISHES

RAJIDAE

Raja undulata Lacepède, 1802

Synonyms : ? *Raja picta* Lacepède, 1800

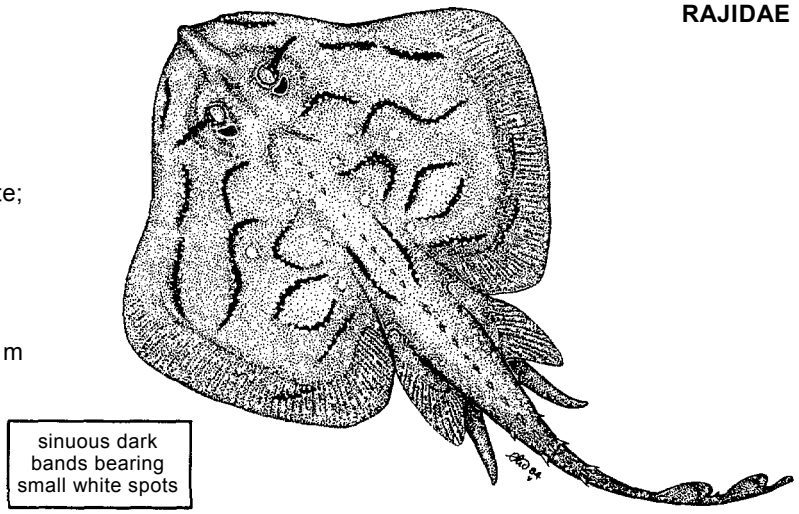
FAO names : **En** - Undulate ray; **Fr** - Raie brunette; **Sp** - Raya mosaico.

Size : 100 cm (total length), common to 60 cm.

Fishing gear : bottom trawls, bottom set longlines.

Habitat : demersal, on sandy bottoms, to 300 m depth.

Loc.name(s) :



RHINOBATIDAE

Rhinobatos albomaculatus Norman, 1930

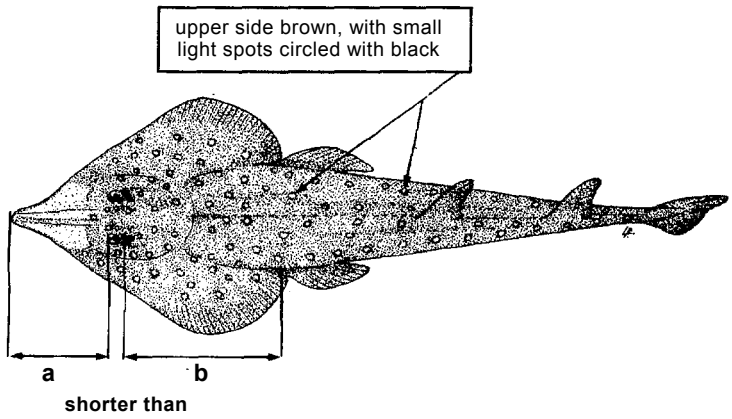
FAO names : **En** - Whitespotted guitarfish; **Fr** - Poisson-guitare à lunaires; **Sp** - Guitarra pecosa.

Size : 80 cm, common to 60 cm.

Fishing gear : bottom trawls, trammelnets, hook-and-line.

Habitat : shallow coastal waters to about 35 m depth; demersal.

Loc.name(s) :



Rhinobatos cemiculus E. Geoffroy St. Hilaire, 1817

Synonyms : *Rhinobatos congolensis* Giltay, 1928; *Rhinobatas rasus* Garman, 1908.

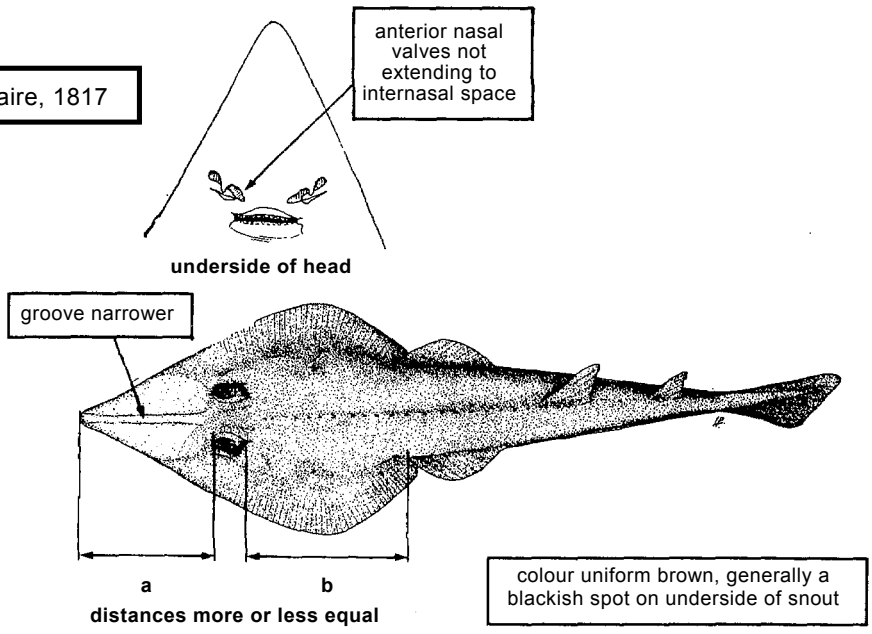
FAO names : **En** - Blackchin guitarfish; **Fr** - Poisson-guitare fouisseur; **Sp** - Guitarra barbanegra.

Size : 200 cm, common to 120 cm.

Fishing gear : bottom trawl, trammelnets, longlines.

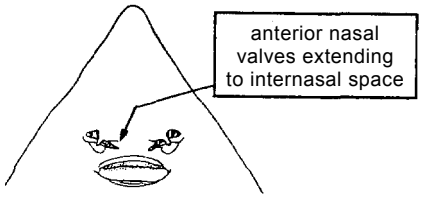
Habitat : shallow coastal waters; demersal, rather inactive.

Loc.name(s) :



BATOID FISHES

RHINOBATIDAE



underside of head

Rhinobatos rhinobatos (Linnaeus, 1758)

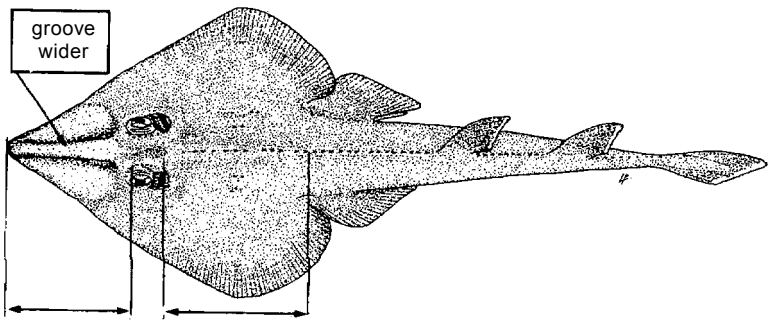
FAO names : **En** - Common guitarfish; **Fr** - Poisson-guitare commun ; **Sp** - Guitarra común.

Size : 100 cm, common to 80 cm.

Fishing gear : bottom trawls, trammelnets, longlines.

Habitat : shallow coastal waters, to 90 m depth.

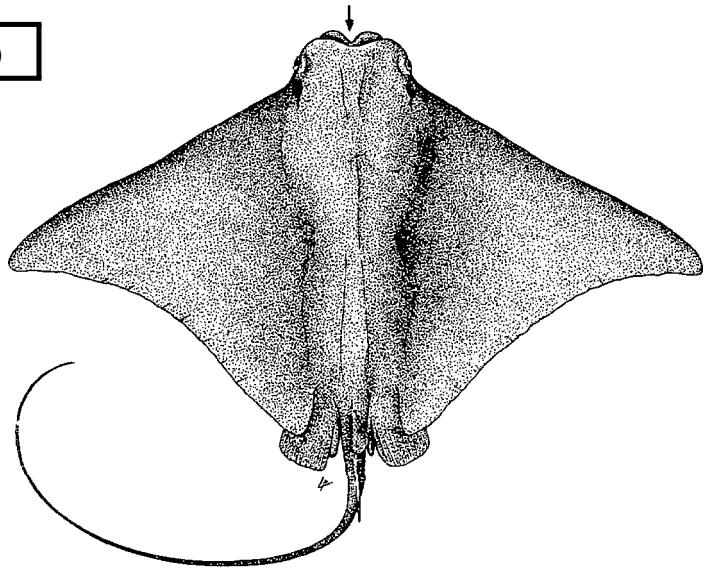
Loc.name(s) :



shorter than

RHINOPTERIDAE

Rhinoptera marginata (E. Geoffroy Saint-Hilaire, 1817)



Synonyms : ? *Rhinoptera peli* Bleeker, 1863.

FAO names : **En** - Lusitanian cownose ray; **Fr** - Mourine lusitanienne; **Sp** - Gavilán lusitanico.

Size : 200 cm (disc width).

Fishing gear : bottom trawls, trammelnets, longlines, hook-and-line.

Habitat : demersal, on soft bottoms in shallow coastal waters, forming schools.

Loc.name(s) :

CHIMAERAS

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

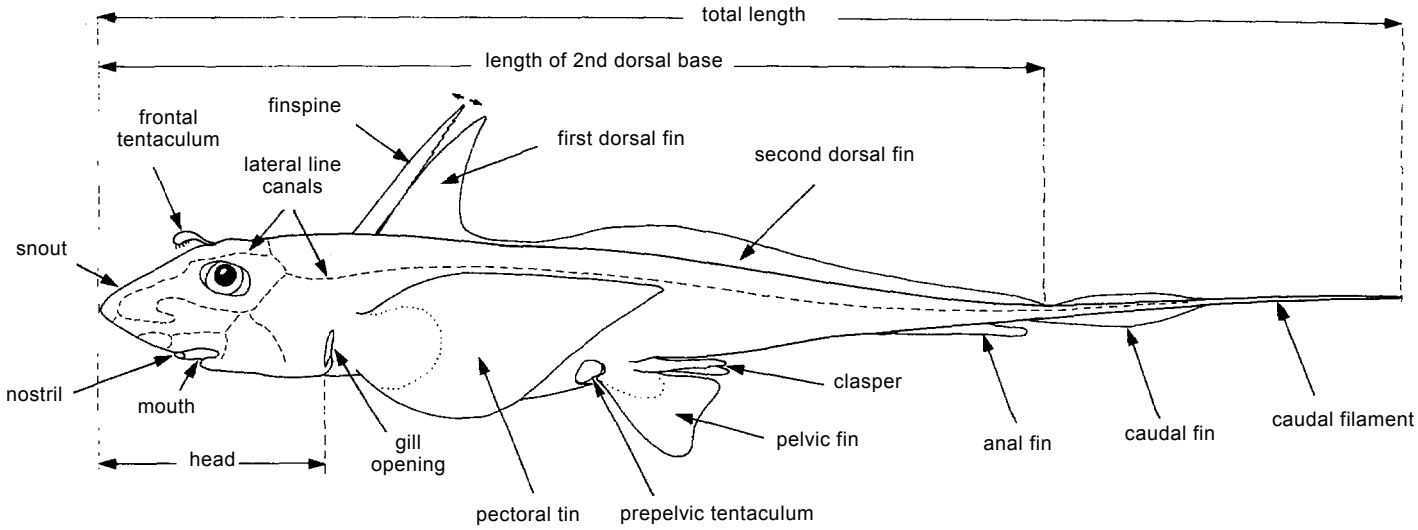


diagram of a male chimaera

(*Chimaera*)

CHIMAERAS - Chimaeriformes

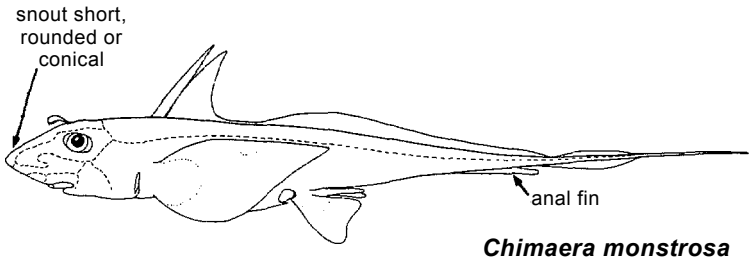
Four pairs of gill openings hidden by a pair of soft gill covers, thus appearing as a single gill opening on each side of head; no spiracles.

CHIMAERIDAE Shortnose chimaeras

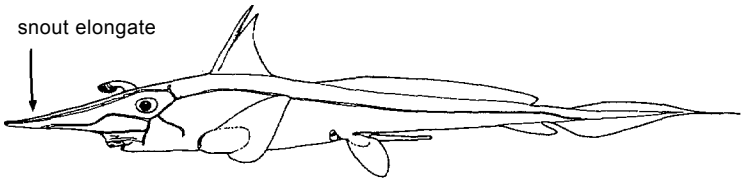
To 150 cm from 90 to 1100 m depth, dernersal.

RHINOCHIMAERIDAE Longnose chimaeras

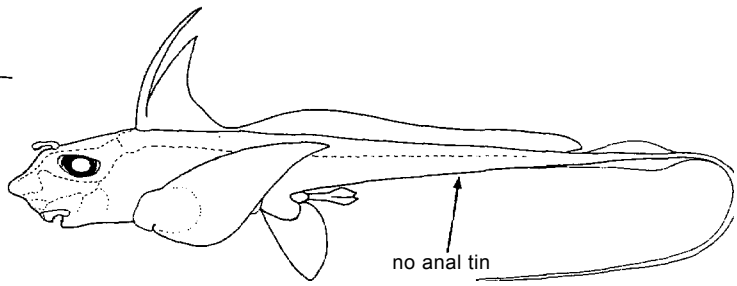
To 130 cm; from 200 to 470 m depth, demersal. A single species.



Chimaera monstrosa



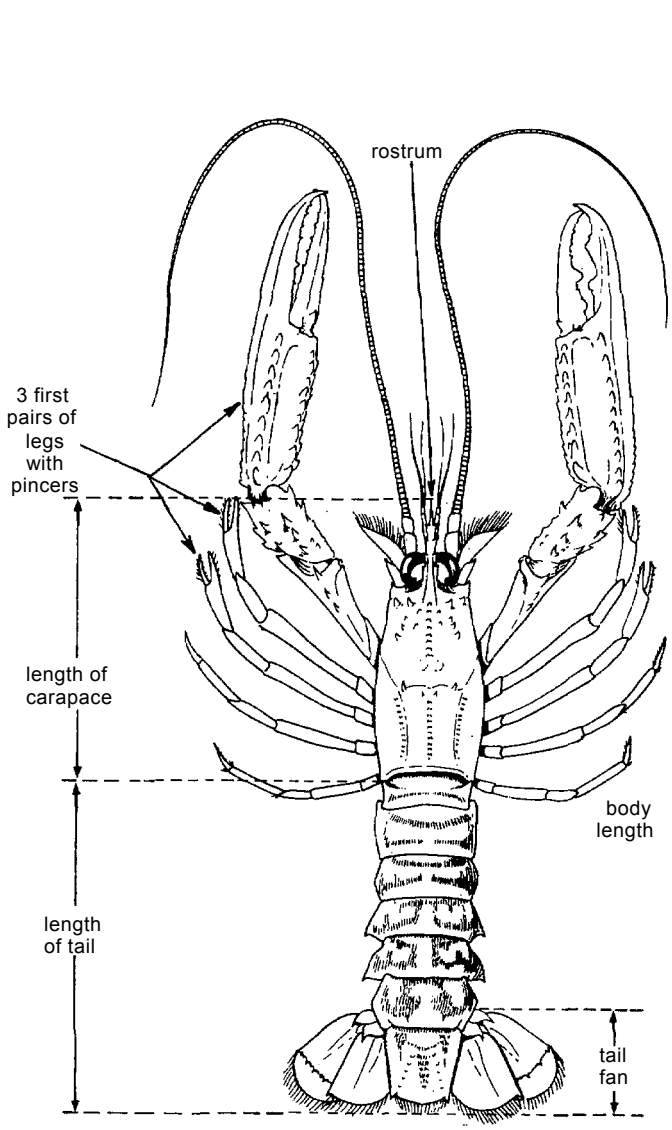
Neoharriotta pinnata

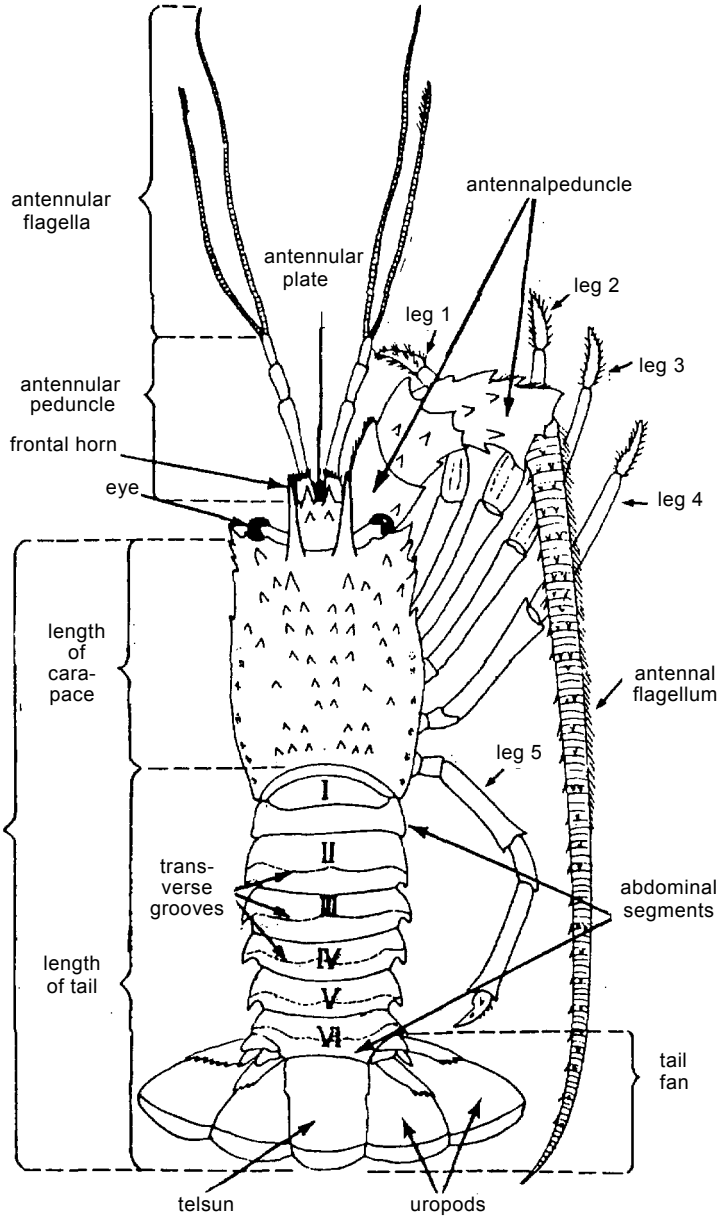


Hydrolagus

LOBSTERS

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED AND ILLUSTRATED GUIDE TO FAMILIES





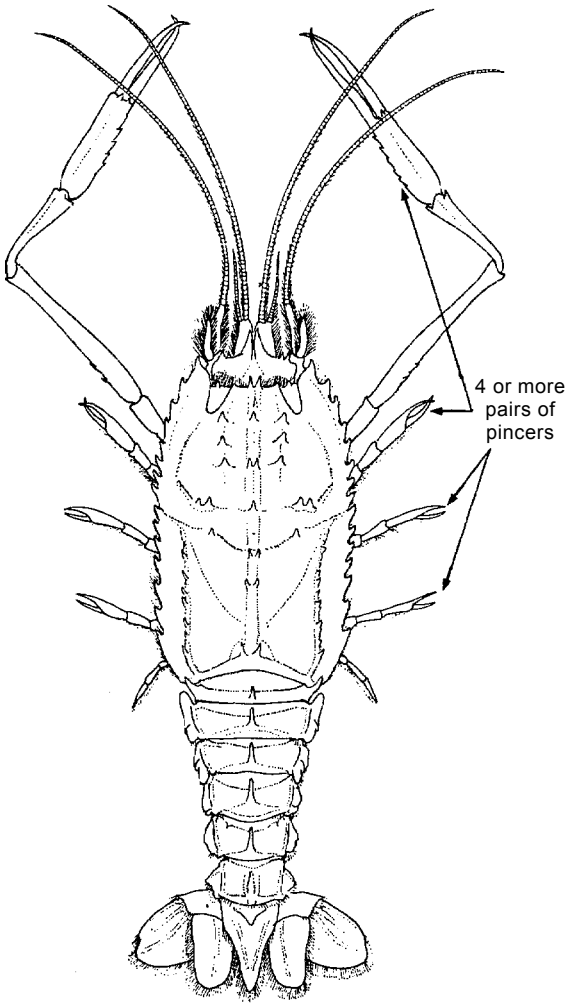
Family NEPHROPIDAE (True lobsters)

Median rostrum well developed; first 3 pairs of walking legs ending in true pincers; pincers of first pair usually enlarged. A single species in the area: Nephropsis atlantica, on which scarcely any information is available.

Family PALINURIDAE (Spiny lobsters)

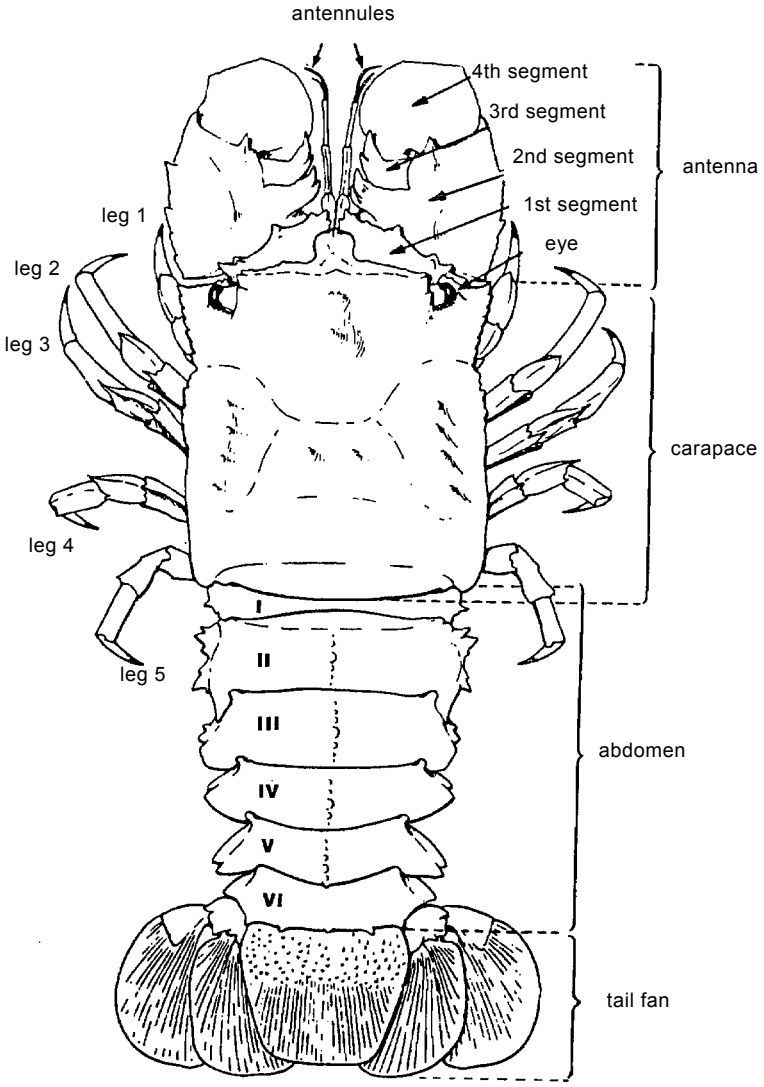
No distinct median rostrum; each eye protected by a strong spiny frontal projection of the carapace (frontal horns); legs without true pincers (except 5th leg in females which ends in a small pincer).

LOBSTERS



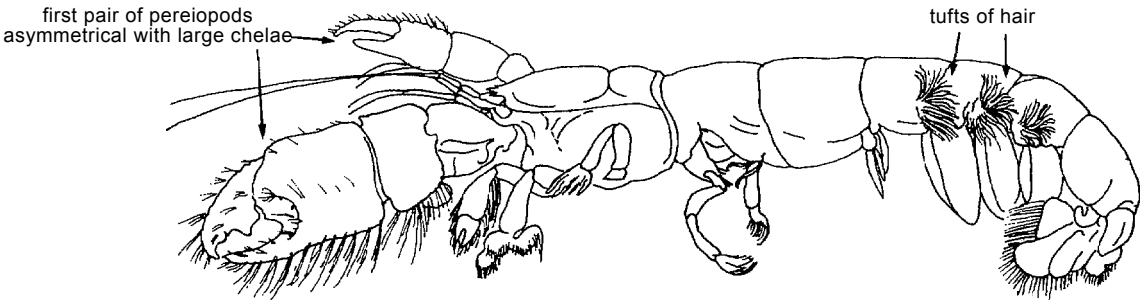
Family POLYCHELIDAE

Eyes small and lacking pigment; soft-bodied deep-sea lobsters; carapace without a rostrum; telson pointed; first 4 or 5 of all legs with pincers, first pair enlarged; antennae cylindrical, shorter than body; so far of no interest to fisheries, but Stereomastis sculpta talismani (Bouvier, 1917) is an important bycatch in deep-sea trawls.



Family SCYLLARIDAE (Slipper lobsters)

Body strongly flattened, antennae transformed into broad plates, lacking flagella; legs without pincers. So far there is no established fishery for any of the species occurring in the area, though Scyllarides herklotsii, when taken as bycatch, is sold in local markets. Three other species, Scyllarus carpati Holthuis, 1952, Scyllarus paradoxus Miers, 1881, and Scyllarus posteli Forest, 1963 are very small (up to 9 cm), and hence of no significant interest to fisheries.



Family CALLIANASSIDAE (Ghost shrimps)

Elongate body with a thin integument; carapace and abdomen smooth, some pleura of the latter with tufts of hair. Abdomen shorter than carapace; eyes small, placed close to each other; first pair of pereiopods asymmetrical with large chelae; second pair of pereiopods small, also chelate; the following legs are simple. Ghost shrimps of the genus Callianassa burrow in the mud of estuaries, sometimes in freshwater. One species Callianassa turnerana (total body length 5.5 to 14.5 cm), is of considerable importance locally in artisanal fisheries. This species swarms every 3 to 5 years in estuaries and is caught in enormous quantities with baskets.

LOBSTERS

PALINURIDAE

Panulirus argus (Latreille, 1804)

FAO names : **En** - Caribbean spiny lobster; **Fr** - Langouste blanche; **Sp** - Langosta comun.

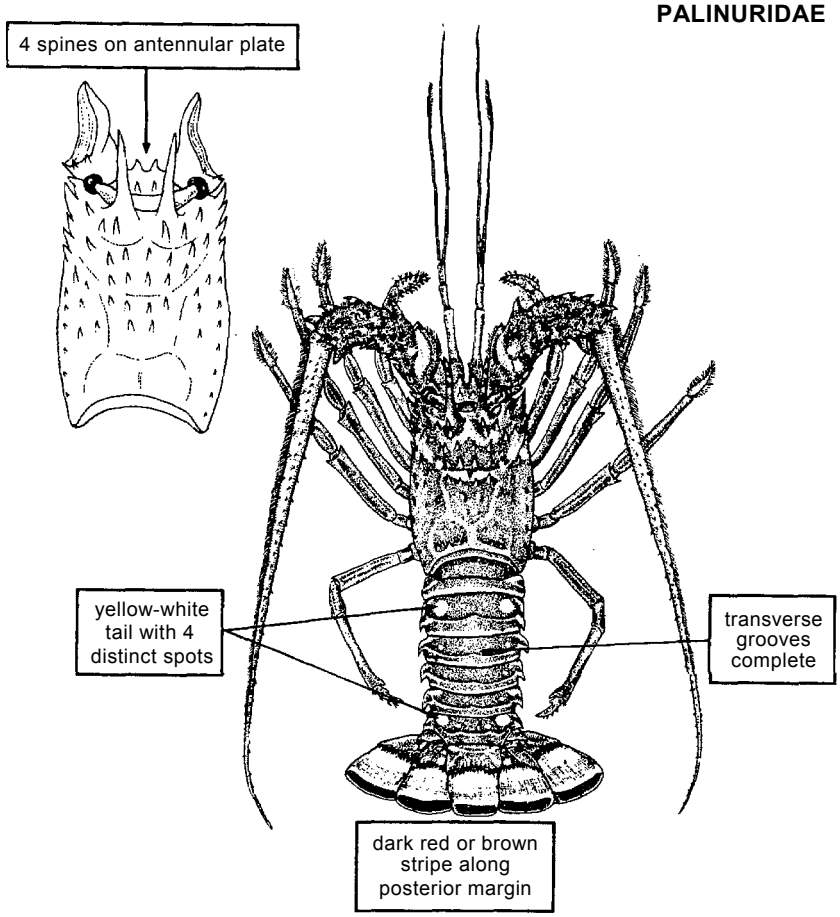
Size : 45 cm, common to 28 cm.

Fishing gear : in the Western Atlantic, the species is caught mainly with traps.

Habitat : shallow waters, but may be found up to 90 m depth.

Remarks : only two records from Ivory Coast; probably introduced.

Loc.name(s) :



Panulirus regius De Brito Capello, 1864

Synonyms : *Panulirus rissonii* (Desmarest, 1825).

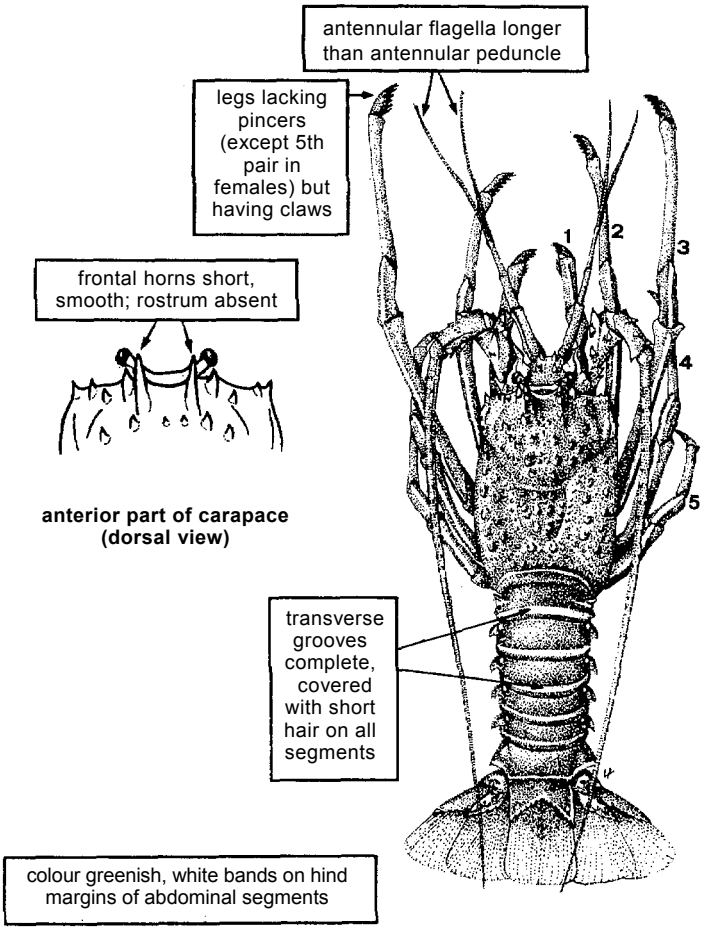
FAO names : **En** - Royal spiny lobster; **Fr** - Langouste royale ; **Sp** - Langosta real.

Size : 35 cm, common to 25 cm.

Fishing gear : lobster pots, bottom trawls, bottom set nets.

Habitat : shallow coastal waters from 5 to 40 m depth on rocky and sandy bottoms.

Loc.name(s) :



LOBSTERS

SCYLLARIDAE

Scyllarides herklotsii (Herklots, 1851)

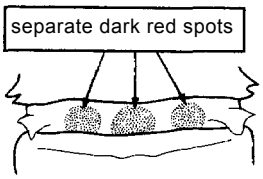
FAO names : **En** - Red slipper lobster; **Fr** - Cigale rouge ; **Sp** - Cigarra roja.

Size : about 32 cm, common to 25 cm.

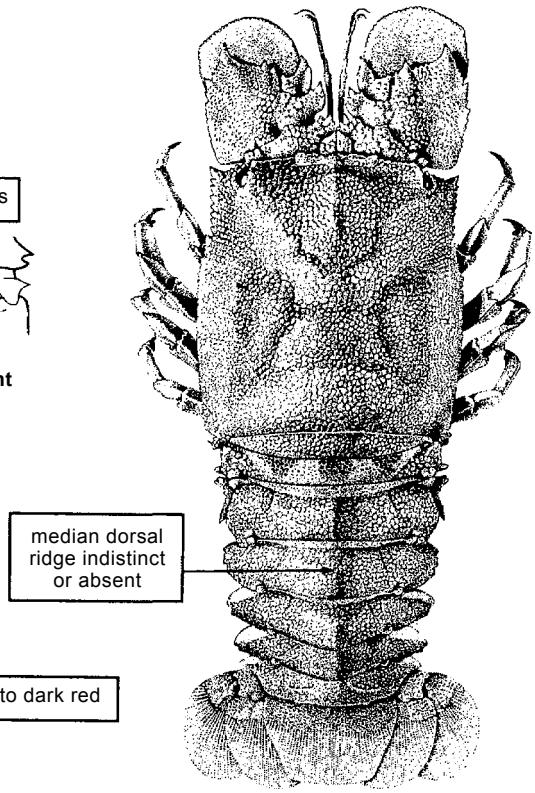
Fishing gear : bottom trawls, bottom set nets.

Habitat : on sandy and rocky bottoms from 5 to 7 m depth, but also beyond 200 m.

Loc.name(s) :



1st abdominal segment

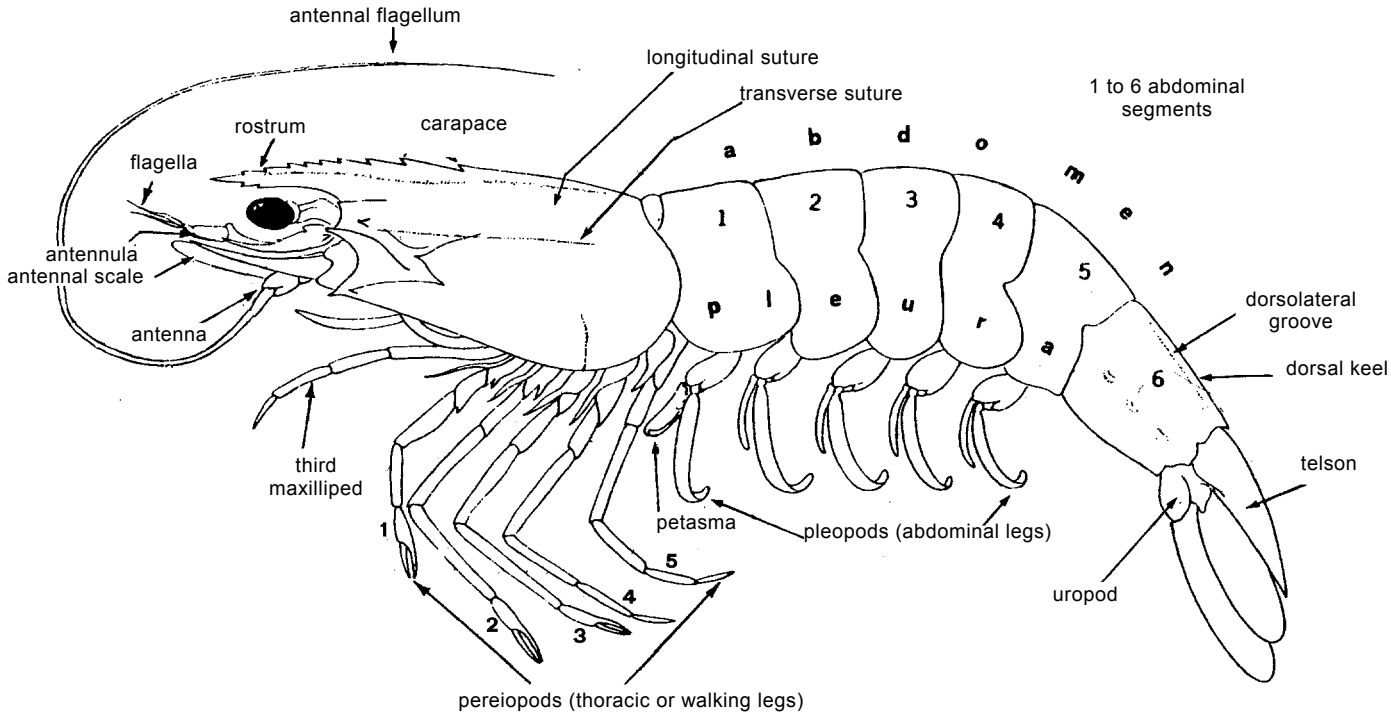


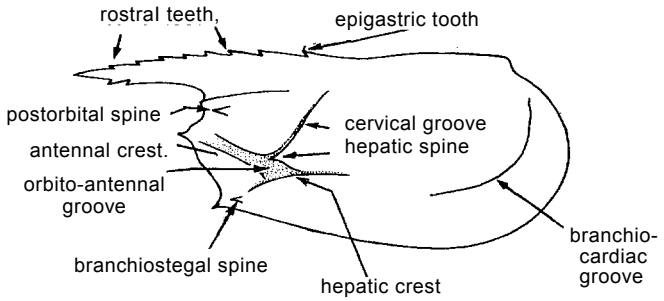
next page

SHRIMPS AND PRAWNS

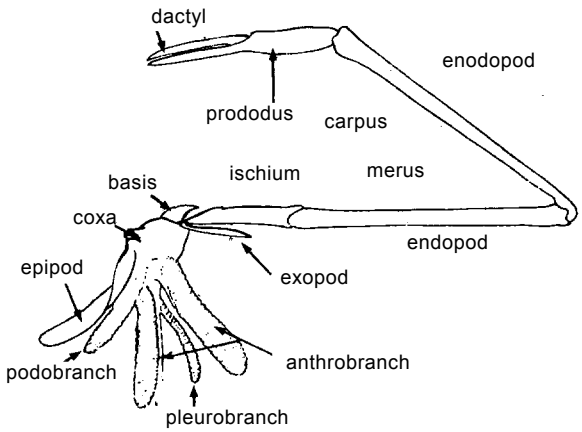
TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

TECHNICAL TERMS

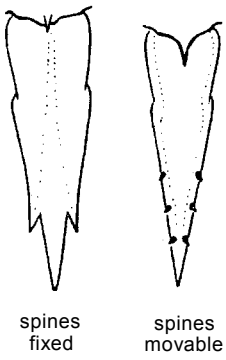




carapace, lateral view



pereiopod with branchiae

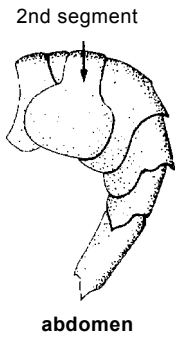


types of spined telsons

SHRIMPS AND PRAWNS

Sub-order **CARIDEA**

Pleuron of second abdominal segment overlapping those of first and third segments. First 2 pairs of thoracic legs, or only the second, ending in a pincer; the last 3 pairs with a simple claw. Eggs carried by the female.



CRANGONIDAE

Pontocaris lacazei (Gourret, 1887)

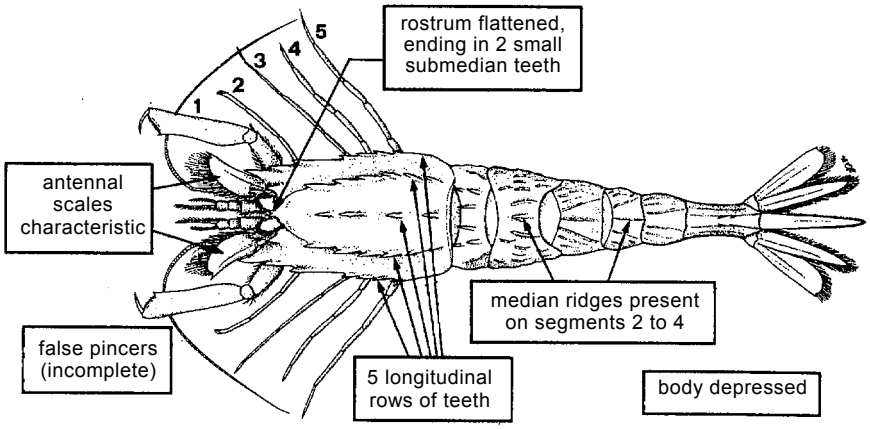
FAO names : **En** - Hardshell shrimp; **Fr** - Crevette-crâne ; **Sp** - Camarón blindado.

Size : 5.5 cm.

Fishing gear : bottom trawls (as bycatch).

Habitat : from 50 to 680 m depth, common between 200 and 400 m.

Loc.name(s) :



HIPPOLYTIDAE

Exhippolysmata hastatoides (Balss, 1914)

Synonyms : *Hippolysmata hastatoides* [Holthuis, 1947].

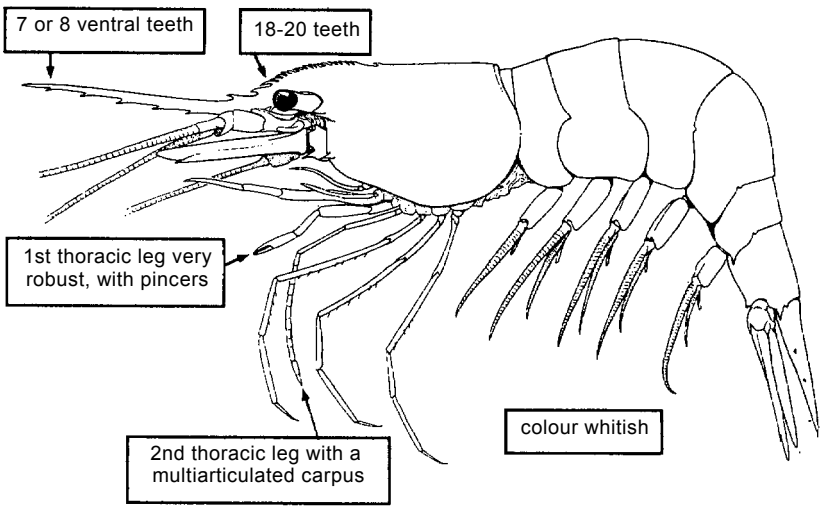
FAO names : **En** - Companion shrimp; **Fr** - Bouc compagnon; **Sp** - Camarón compañero.

Size : about 7 cm.

Fishing gear : beach seines.

Habitat : coastal marine waters and estuaries, to about 15 m depth, on sandy and muddy bottoms.

Loc.name(s) :



SHRIMPS AND PRAWNS

NEMATOCARCINIDAE

Nematocarcinus africanus Crosnier & Forest, 1973

Synonyms : Nematocarcinus cursor non A. Milne Edwards, 1881 [Holthuis, 1951].

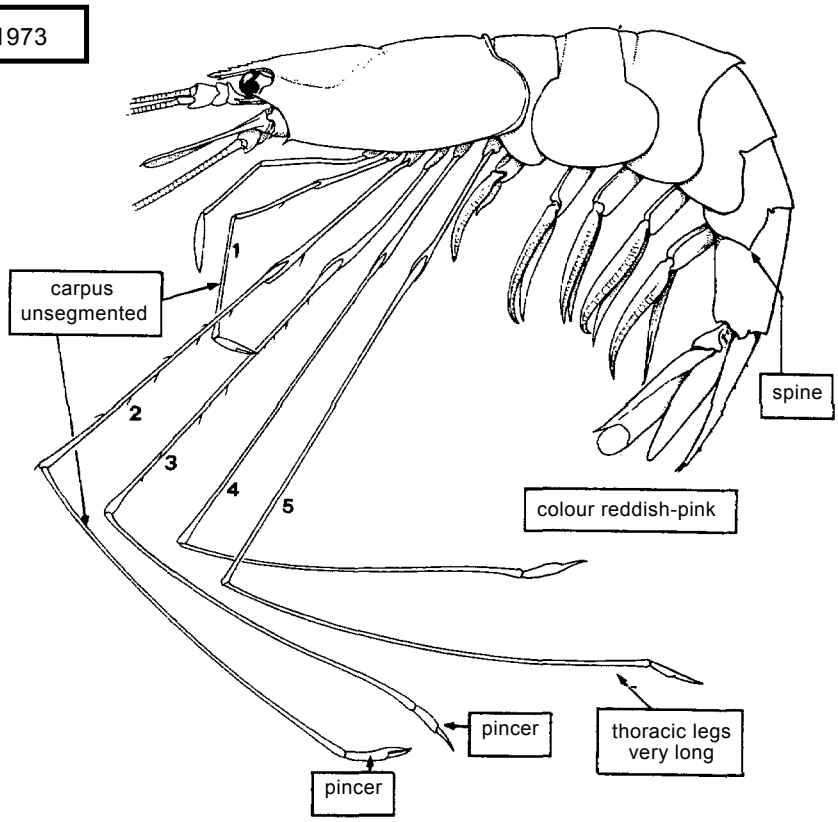
FAO names : **En** - African spider shrimp; **Fr** - Crevette-araignée d'Afrique; **Sp** - Camarón araña africano.

Size : 10.4 cm.

Fishing gear : bottom trawls.

Habitat : muddy bottoms of the continental shelf.

Loc.name(s) :



PALAEMONIDAE

Nematopalaemon hastatus (Aurivillius, 1898)

Synonyms : Palaemon (Nematopalaemon) hastatus (Aurivillius, 1898).

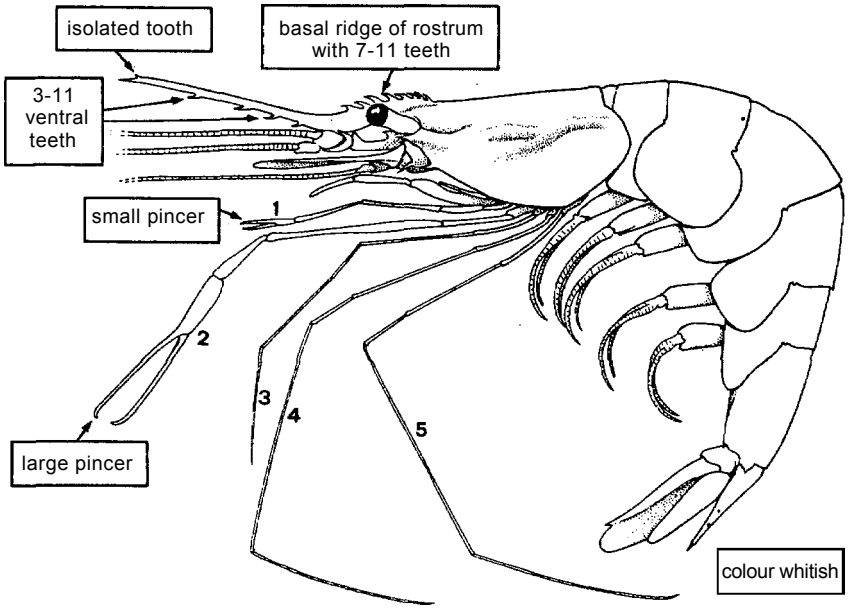
FAO names : En - Estuarine prawn; Fr - Bouquet étier; Sp - Camarón estuarino.

Size : 7.5 cm.

Fishing gear : seines, bottom trawls.

Habitat : sandy and muddy bottoms in estuaries and coastal marine waters, to 50 m depth.

Loc.name(s) :



SHRIMPS AND PRAWNS

PANDALIDAE

Heterocarpus ensifer A. Milne Edwards, 1881

Synonyms : *Heterocarpus carinatus* (Smith, 1882).

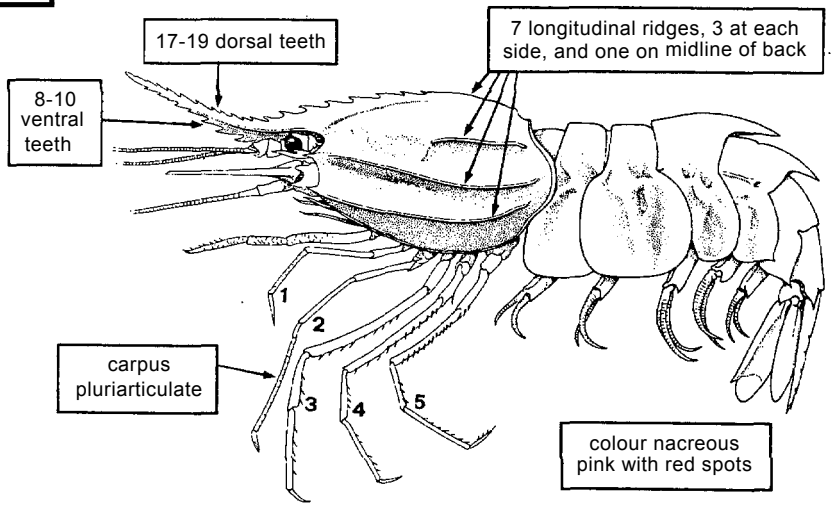
FAO names : **En** - Armed nylon shrimp; **Fr** - Crevette nylon armée; **Sp** - Camarón nailón armado.

Size : 14.2 cm.

Fishing gear : bottom trawls.

Habitat : on soft bottoms of the continental shelf; to 3000 m depth.

Loc.name(s) :



Parapandalus narval (Fabricius, 1787)

Synonyms : *Parapandalus pristis* (Risso, 1816).

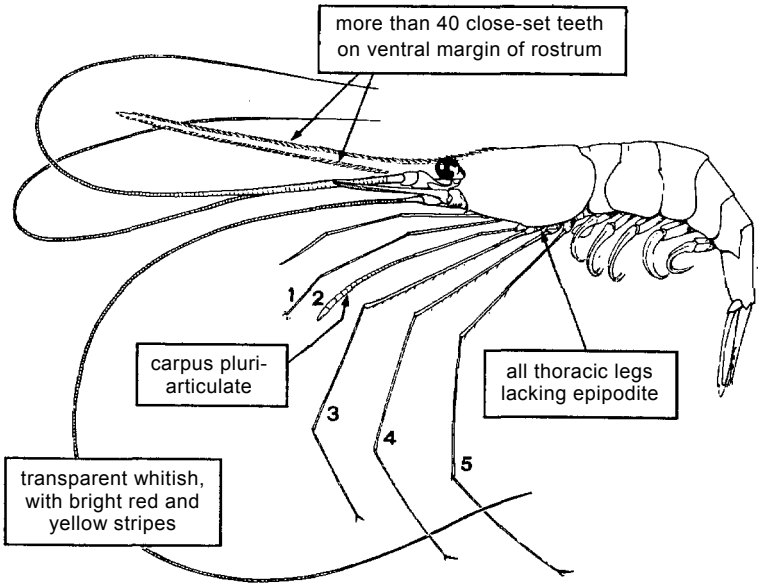
FAO names : **En** - Narval shrimp; **Fr** - Crevette narval; **Sp** - Camarón narval.

Size : 14.5 cm

Fishing gear : bottom trawls, pots.

Habitat : on sandy and muddy bottoms, often near rocky areas, from 10 to 900 m depth, more common between 200 and 400 m.

Loc.name(s) :



Plesionika martia (A. Milne Edwards, 1883)

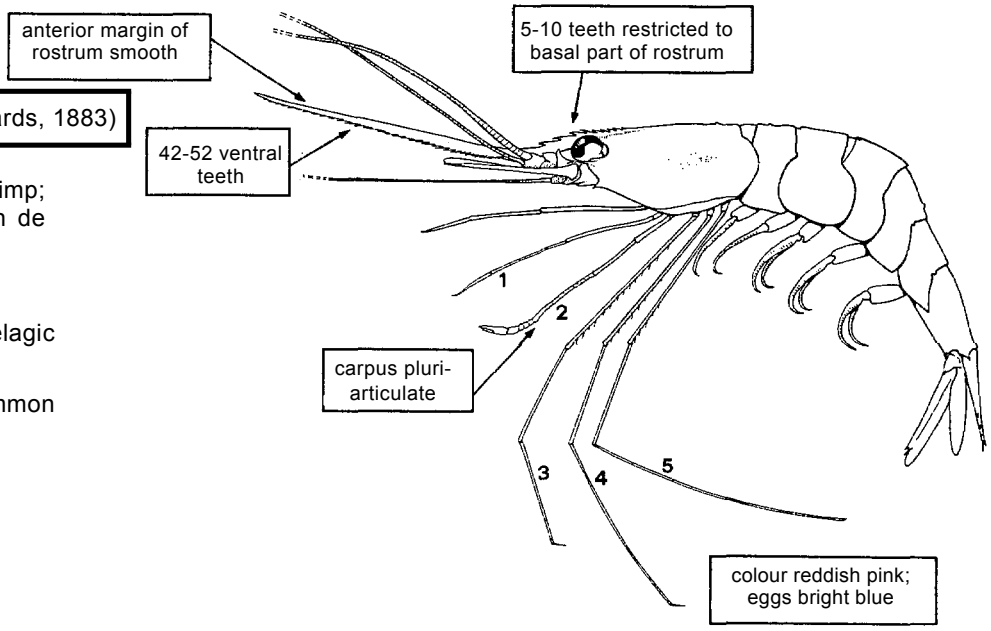
FAO names : **En** - Golden shrimp; **Fr** - Crevette dorée; **Sp** - Camarón de oro.

Size : 16.9 cm.

Fishing gear : bottom and pelagic trawls.

Habitat : muddy bottoms, common from 300 to 700 m depth.

Loc.name(s) :



SHRIMPS AND PRAWNS

PASIPHAEIDAE

Glyphus marsupialis Filhol, 1884

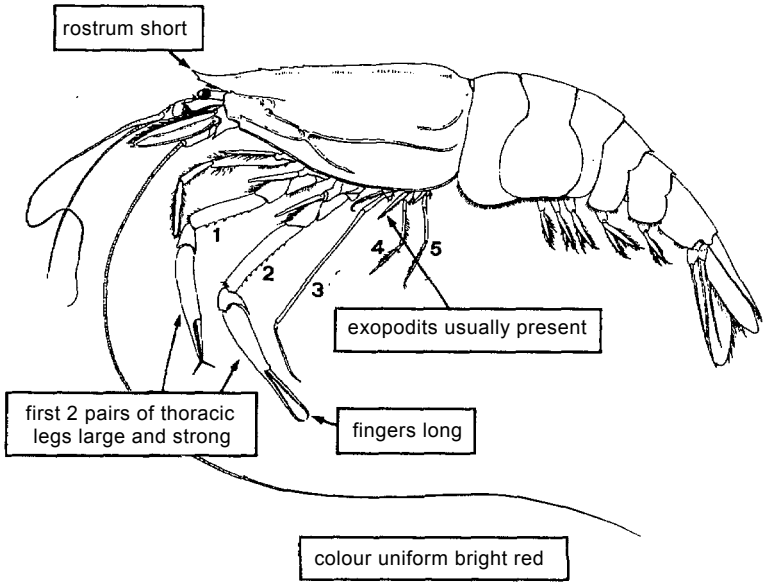
FAO names: **En** - Kangaroo shrimp; **Fr** - Camarón canguro; **Sp** - Sivade kangourou.

Size : 16.7 cm.

Fishing gear : bottom trawls.

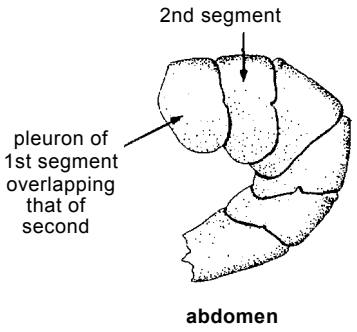
Habitat : on sandy and muddy bottoms, from 500 to 1 100 m depth.

Loc.name(s) :



Sub-order **PENAEOIDEA**

Pleuron of second abdominal segment overlapping that of third segment only; pincer of 3 first pairs of thoracic legs equal or subequal. Eggs shed directly into the water. Never many spines on body.



ARISTEIDAE

Aristeus varidens Holtuis, 1952

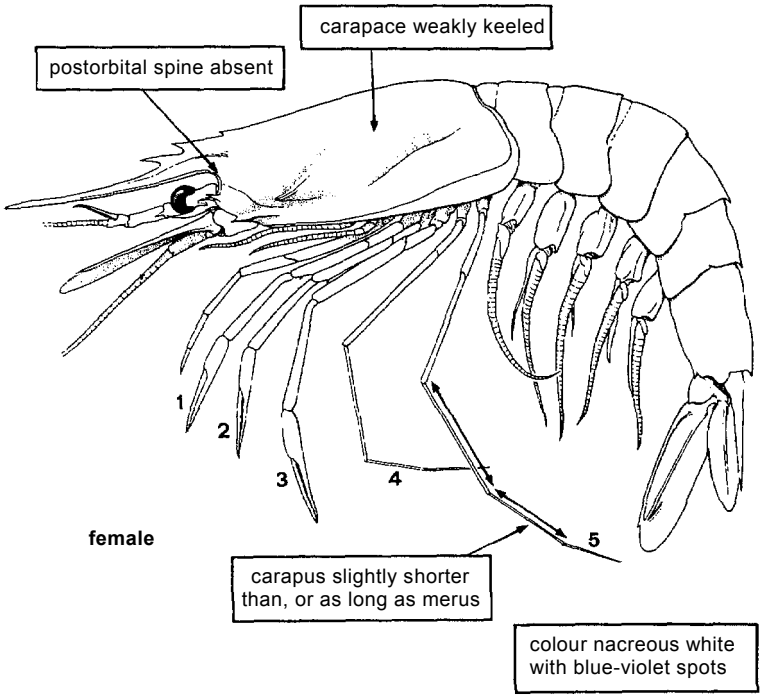
FAO names : **En** - Striped red shrimp; **Fr** - Gambon rayé; **Sp** - Gamba listada.

Size : 20 cm (females), 12 cm (males).

Fishing gear : bottom trawls.

Habitat : on muddy bottoms, from 300 to 600 m depth.

Loc.name(s) :



SHRIMPS AND PRAWNS

ARISTEIDAE

Plesiopenaeus edwardsianus (Johnson, 1867)

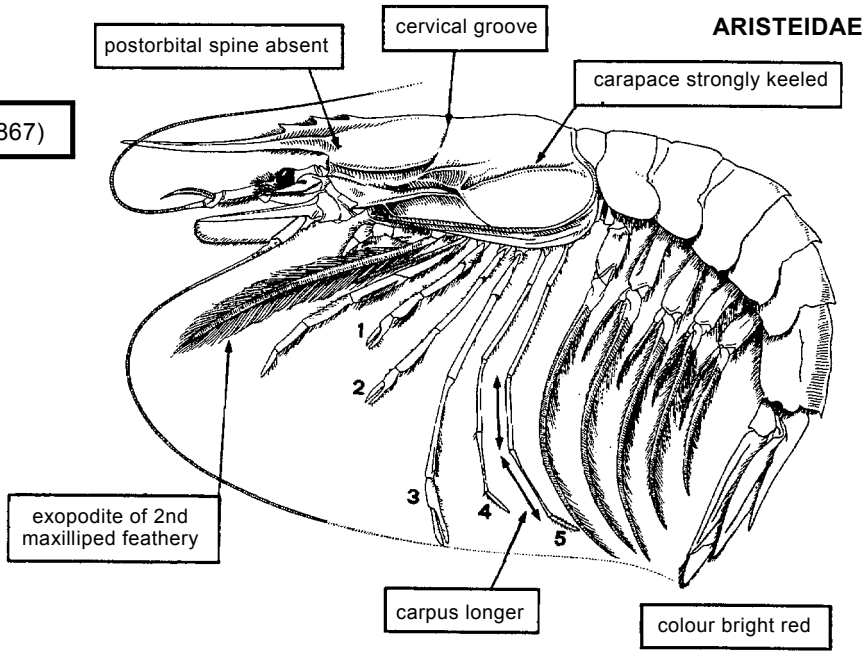
FAO names : **En** - Scarlet shrimp; **Fr** - Gam bon écarlat; **Sp** - Gamba carabi nero.

Size : 33 cm (females), 19 cm (males).

Fishing gear : bottom trawls.

Habitat : on muddy bottoms, from 400 to 900 m depth.

Loc.name(s) :



PENAEIDAE

Parapenaeopsis atlantica Balss, 1914

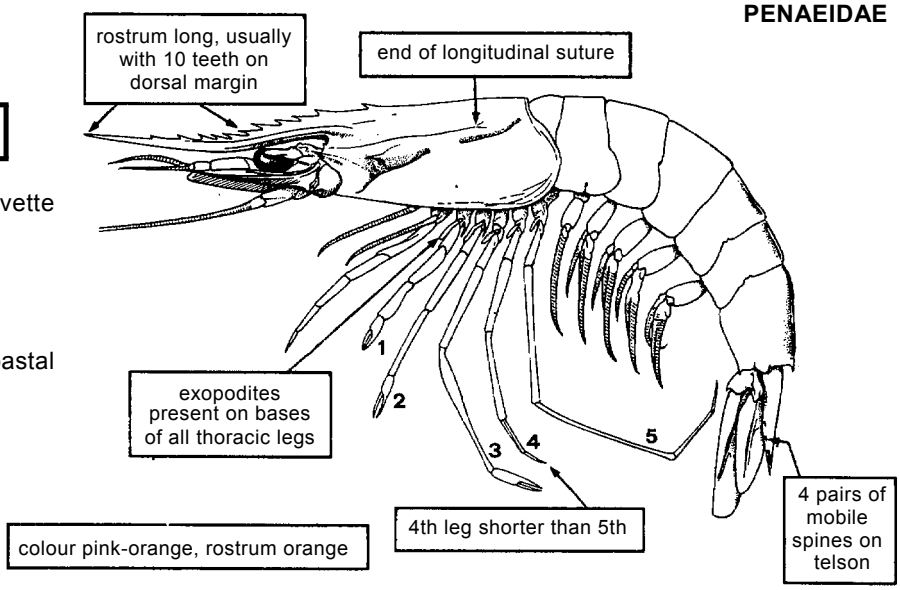
FAO names : **En** - Guinea shrimp; **Fr** - Crevette guinéenne; **Sp** - Camarón guineo.

Size : 17 cm (males), 12 cm (females).

Fishing gear : bottom trawls, beach seines.

Habitat : estuaries, lagoons and coastal marine waters between 10 and 40 m depth.

Loc.name(s) :



Parapenaeus longirostris (Lucas, 1846)

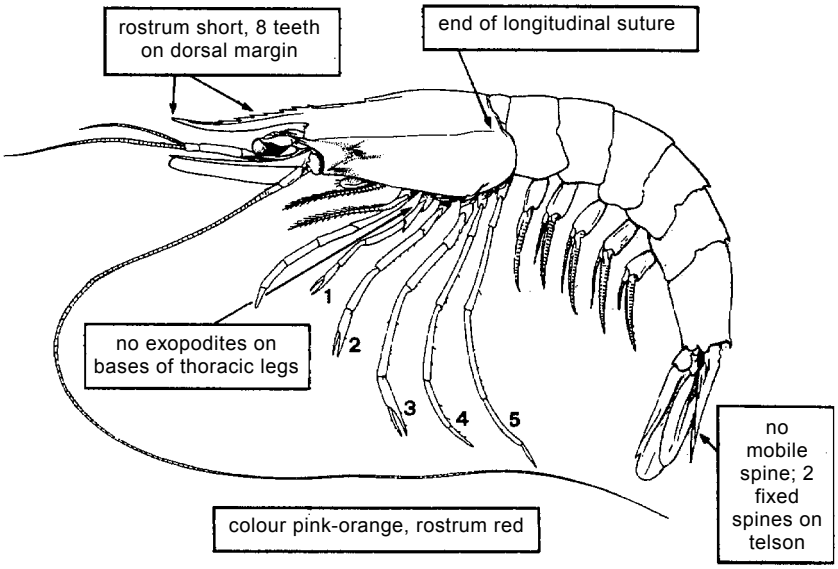
FAO names : **En** - Deepwater rose shrimp; **Fr** - Crevette rose du large; **Sp** - Gamba de altura.

Size : 19 cm.

Fishing gear : bottom trawls.

Habitat : sandy and muddy bottoms from 150 to 600 m depth.

Loc.name(s) :



SHRIMPS AND PRAWNS

PENAEIDAE

Penaeus (Melicertus) kerathurus (Forsskål, 1775)

Synonyms : *Penaeus trisulcatus* (Leach, 1814); *Penaeus caramote* Risso, 1816.

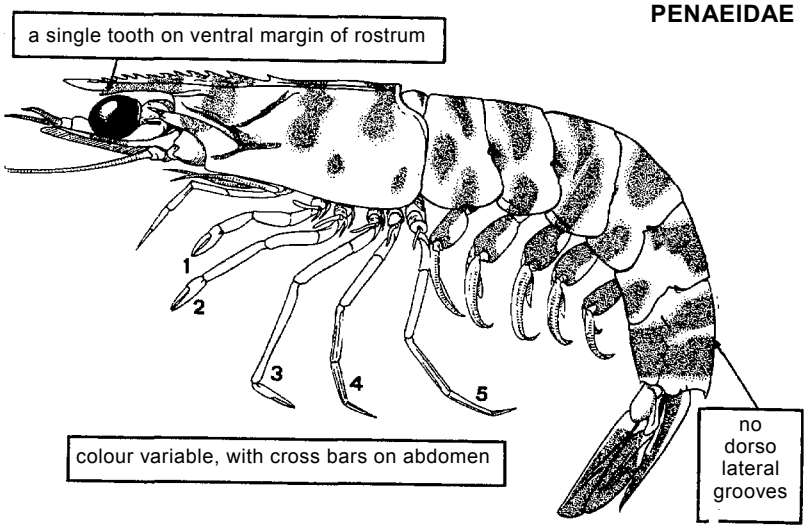
FAO names : **En** - Caramote prawn; **Fr** - Caramote; **Sp** - Langostino.

Size : 23.5 cm (males), 18 cm (females).

Fishing gear : bottom trawls.

Habitat : coastal waters, on sandy and muddy bottoms.

Loc.name(s) :



Penaeus (Farfantepenaeus) notialis Pérez-Farfante, 1967

Synonyms : *Penaeus brasiliensis* Latreille, 1817; also misidentified as *P. (Melicertus) duoarum* Burkenroad, 1939.

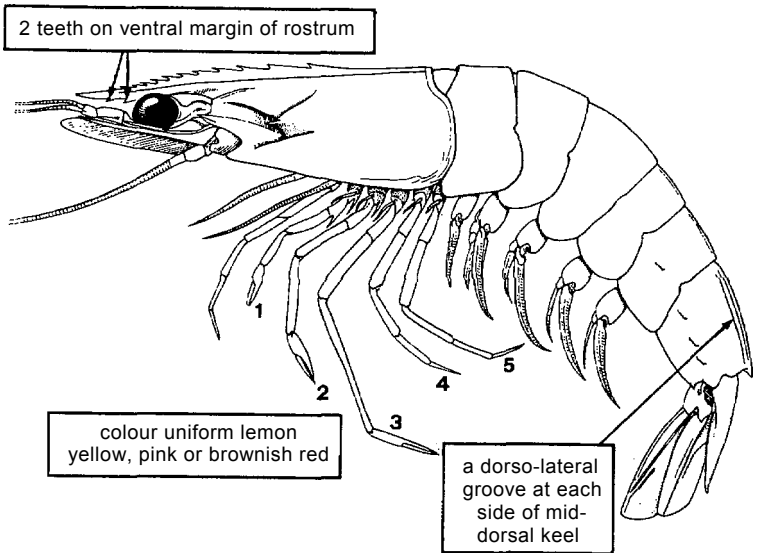
FAO names : **En** - Pink shrimp (southern); **Fr** - Crevette rose (du sud); **Sp** - Camarón rosado (sureño).

Size : 23 cm (males), 17 cm (females).

Fishing gear : in lagoons with artisanal gear: pots, stow-nets, conical nets, "azui" trawls, beach seines; at sea with bottom trawls (double rig).

Habitat : coastal marine waters, estuaries and lagoons. Lives on muddy bottoms by day and migrates upwards at night.

Loc.name(s) :



SICYONIDAE

Sicyonia carinata (Brünnnich, 1768)

Synonyms : *Sicyonia sculpta* H.Milne Edwards, 1830.

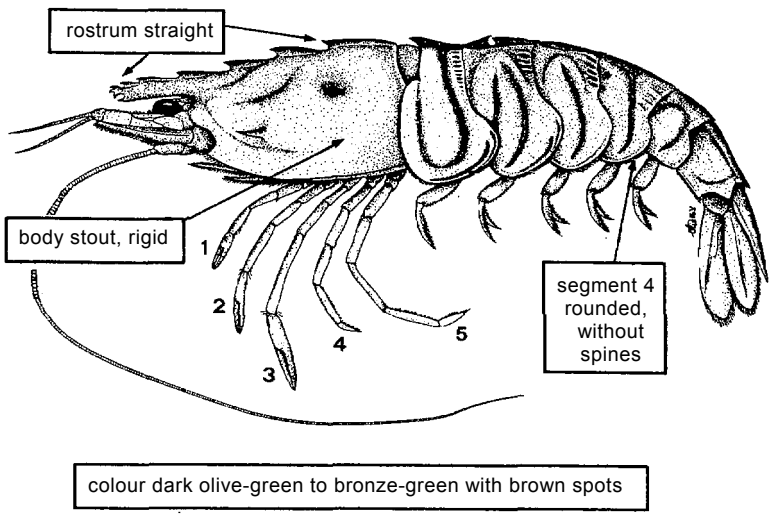
FAO names : **En** - Mediterranean rock shrimp; **Fr** - Boucot de Mediterranee; **Sp** - Camarón de piedra.

Size : 8 cm, common between 3 and 6 cm.

Fishing gear : bottom trawls, dredges.

Habitat : on sandy and muddy bottoms from 3 to 35 m depth.

Loc.name(s) :



SHRIMPS AND PRAWNS

SICYONIDAE

Sicyonia galeata Holthuis, 1952

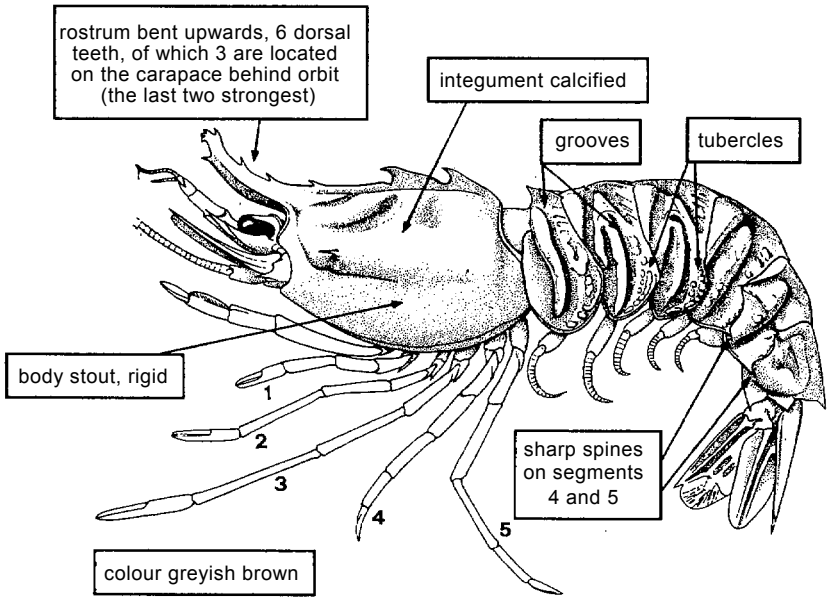
FAO names : **En** - Tufted rock shrimp; **Fr** - Sicyonie huppée; **Sp** - Camarón penachudo.

Size : 6.2 cm.

Fishing gear : bottom trawls (as bycatch).

Habitat : on muddy or sandy bottoms from 15 to 70 m depth.

Loc.name(s) :



SOLENOCERIDAE

Solenocera africana Stebbing, 1917

Synonyms : often misidentified or synonymized with *S. membranacea* (Risso, 1816).

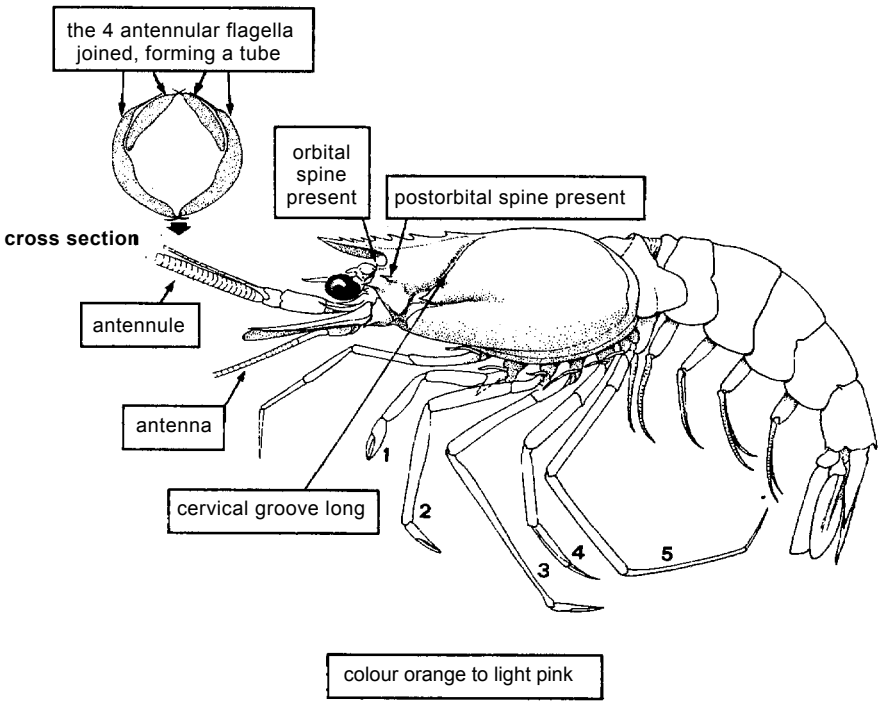
FAO names : **En** - African mud shrimp; **Fr** - Solénocère d'Afrique; **Sp** - Gamba de fango.

Size : 14 cm.

Fishing gear : bottom trawls.

Habitat : on sandy and muddy bottoms, more abundant from 50 to 100 m depth (immature) but may descend beyond 300 m depth,

Loc.name(s) :

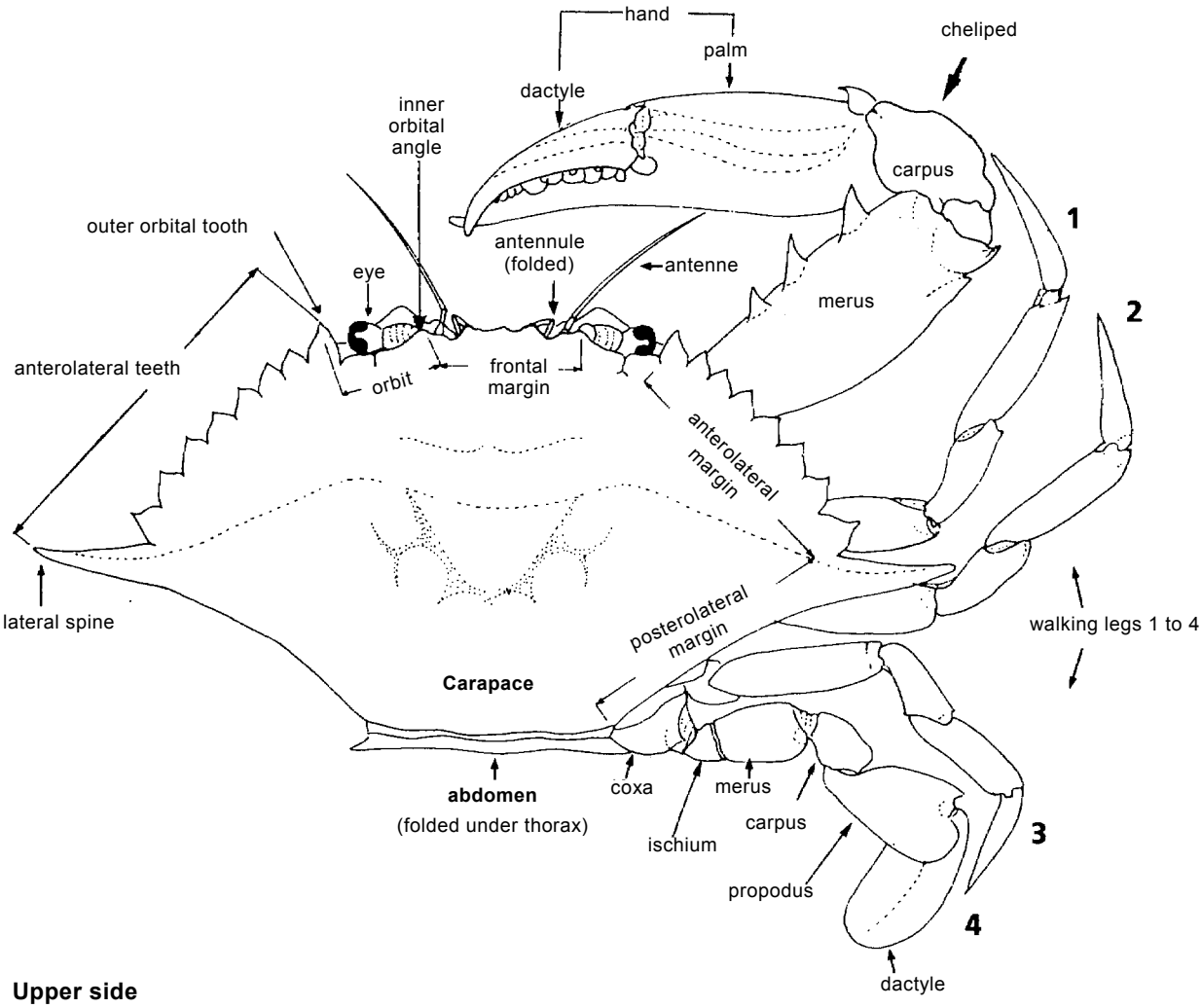


next page

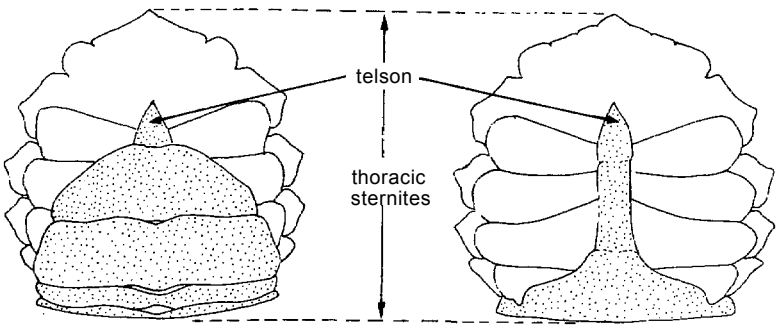
TRUE CRABS

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

PARTS OF A TRUE CRAB (*Callinectes* sp.)

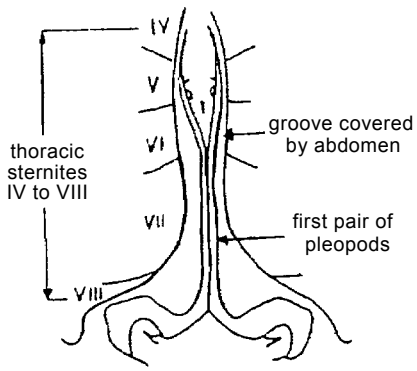


Upper side



abdomen of female **abdomen of male**

ventral view



Thoracic sternum of male after removal of abdomen, showing first pair of pleopods (copulating organs)

TRUE CRABS

MOST COMMON EDIBLE FAMILIES AND SPECIES

In view of the large number of species used as human food, and of the fact that many edible species are not yet exploited, it is not possible at present to establish a complete list of species of interest to fisheries.

CALAPPIDAE

Calappa gallus (Herbst, 1803)

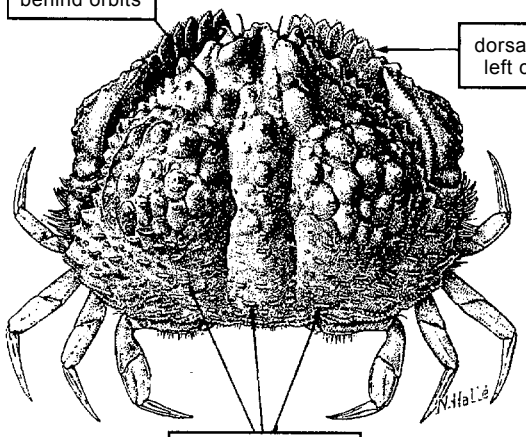
FAO names : En - Yellow box crab; **Fr** - Migraine jaune; **Sp** - Calapa amarilla.

Size : 8 cm (width of carapace).

Fishing gear : bottom trawls (bycatch),

Habitat : coastal waters to 200 m depth; burrows in sand or muddy sand.

Loc.name(s) :



Calappa pelii Herklots, 1851

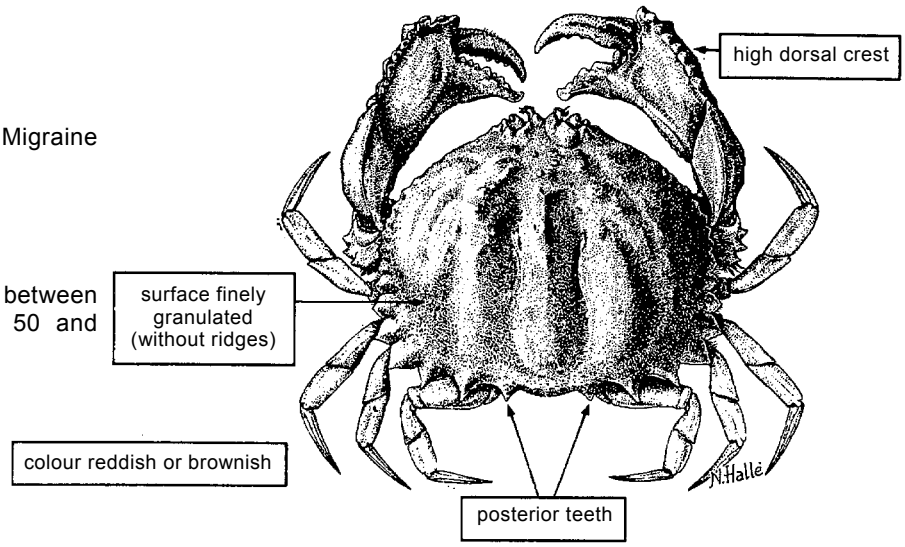
FAO names : **En**- Spiny box crab; **Fr** - Migraine épineuse; **Sp** - Calapa espinuda.

Size : 6 cm (width of carapace).

Fishing gear : bottom trawls (bycatch).

Habitat : burrows in sand or sandy mud between 12 and 400 m depth, common between 50 and 150 m depth.

Loc.name(s) :



Calappa *rubroguttata* Herklots, 1851

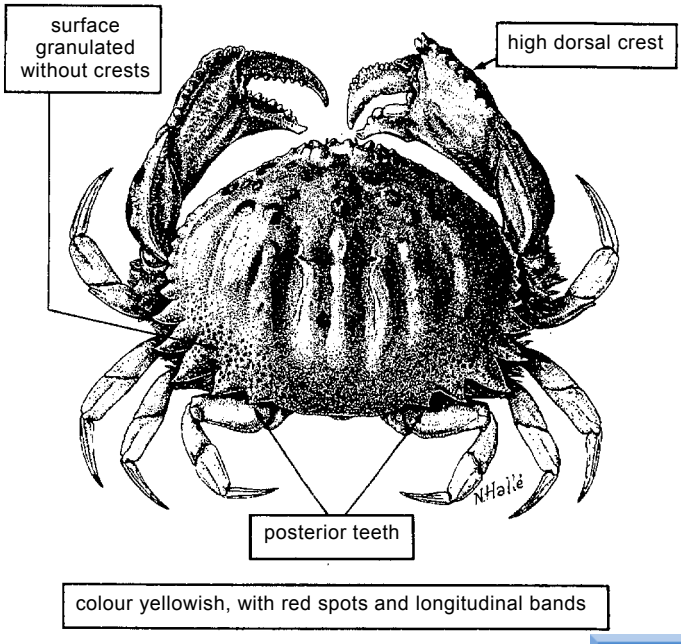
FAO names : **En** - Spotted box crab; **Fr** - Migraine maculée; **Sp** - Calapa manchada.

Size : 10.8 cm (width of carapace).

Fishing gear : bottom trawls, beach seines, bottom set nets.

Habitat : burrows in sand or gravel, from the coastline to 90 m depth.

Loc.name(s) :



next page

TRUE CRABS

GECARCINIDAE

Cardlosoma armatum (Herklots, 1851)

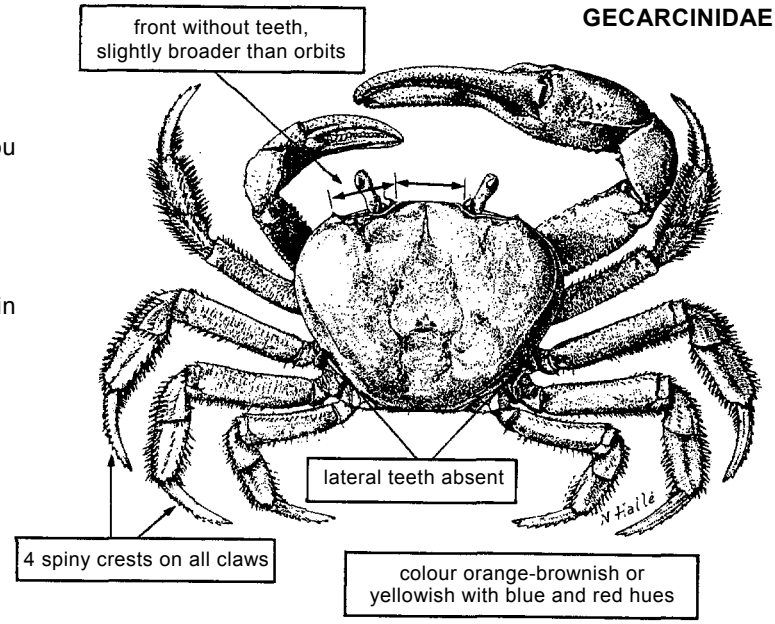
FAO names : **En** - Lagoon land crab; **Fr** - Tourlourou des lagunes, **Sp** - Moro de laguna.

Size : 12 cm (carapace width of adult males).

Fishing gear : baited traps, nooses, digging by hand.

Habitat : a terrestrial species living in burrows in marshy grounds.

Loc.name(s) :



GERYONIDAE

Geryon maritae Manning & Holthuis, 1981

Synonyms : *Geryon quinquedens* (non S.I. Smith, 1879) [Monod, 19561.

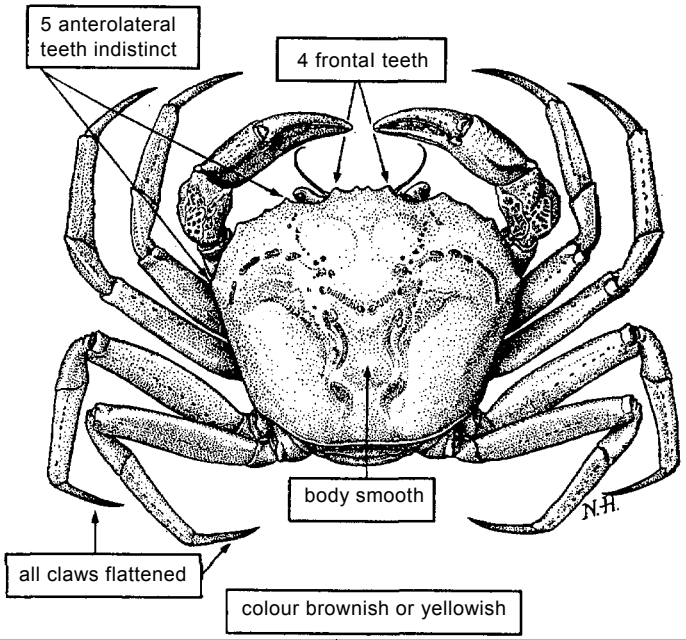
FAO names : **En** - West African geryon; **Fr** - Géryon ouest-africain; **Sp** - Gerio cangrejo de Guinea.

Size : 16 cm and 9.5 cm (carapace width of males and females, respectively).

Fishing gear : bottom trawls, crab pots.

Habitat : muddy bottoms from 100 to 940 m depth.

Loc. name(s) :



GRAPSIDAE

Goniopsis pelli (Herklots, 1851)

Synonyms : *Goniopsis cruentata* (non Latreille, 1802) [Monod, 1956].

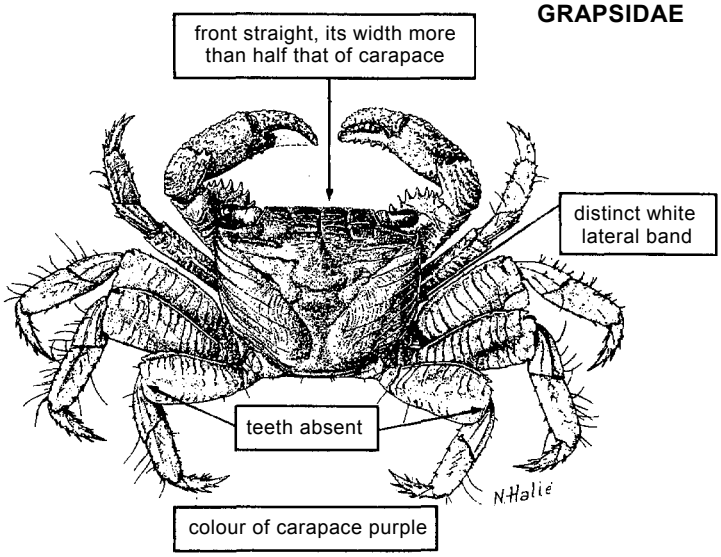
FAO names : **En** - Purple mangrove crab; **Fr** - Anglette de mangroves; **Sp** - Abuete real.

Size : 4.9 cm (width of carapace).

Fishing gear : various types of artisanal gear.

Habitat : brackish waters on muddy bottoms, often in mangroves.

Loc.name(s) :



TRUE CRABS

GRAPSIDAE

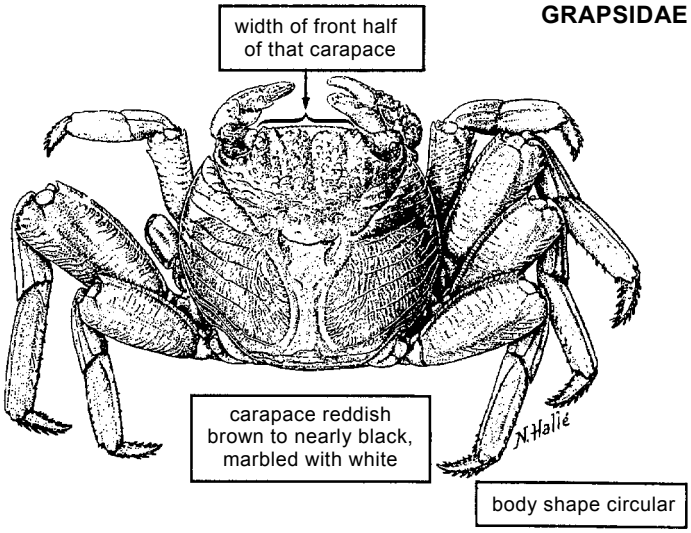
Grapsus grapsus (Linnaeus, 1758)

FAO names : **En** - Lightfoot crab; **Fr** - Anglette commune; **Sp** - Abuete negro.

Size: 8.7 cm (carapace width).
Fishing gear : cast nets.

Habitat : near the waterline on rocks; very active on land.

Loc.name(s) :



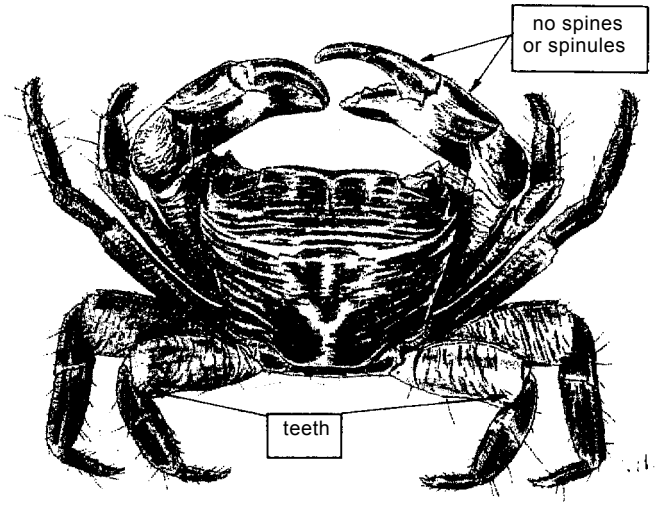
Pachygrapsus transversus (Gibbes, 1850)

FAO names : **En** - African matchbox crab; **Fr** - Anglette africaine; **Sp** - Abuete cajeta.

Size : 1.8 cm (carapace width).

Fishing gear : caught mainly by hand, cast nets.

Habitat : on rocks along the coast, just below the surface.
Loc.name(s) :



Sesarma angolense de Brito Capello, 1864

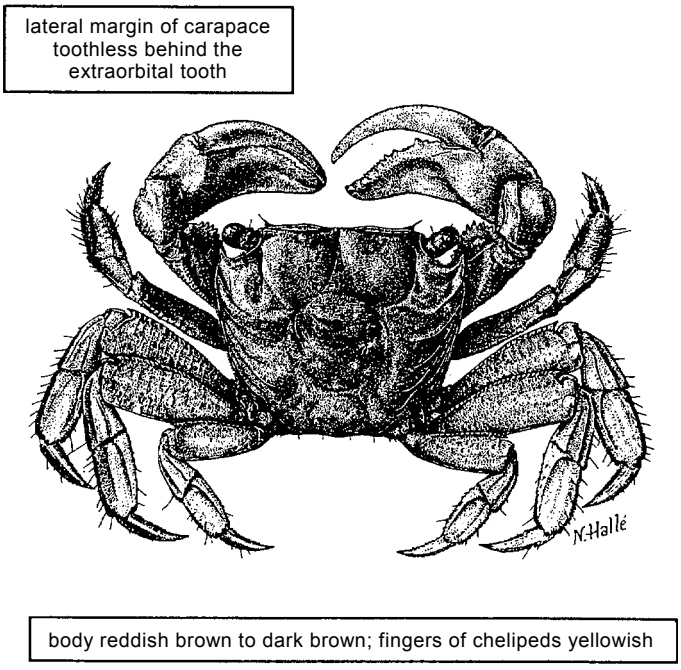
FAO names : **En** - Angola marsh crab; **Fr** - Anglette angolaise; **Sp** - Abuete de Angola.

Size : 4.2 cm (carapace width).

Fishing gear : caught by hand.

Habitat : swamps and mangroves, makes burrows in muddy ground.

Loc.name(s) :



TRUE CRABS

HOMOLIDAE

Paramola cuvieri (Risso, 1816)

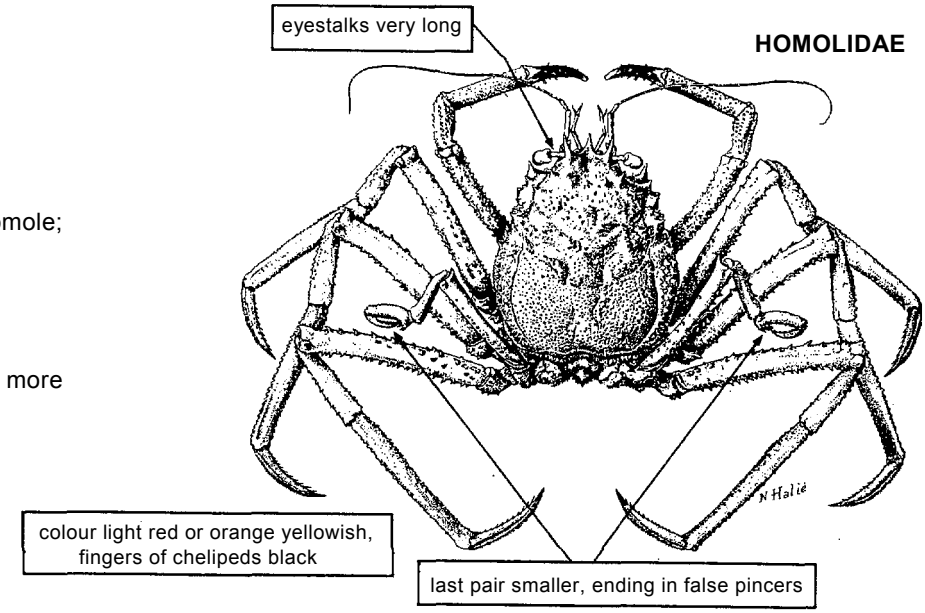
FAO names : **En** - Paromola; **Fr** - Paromole; **Sp** - Paromola.

Size : 21.5 cm (carapace length).

Fishing gear : bottom trawls (bycatch).

Habitat : from 10 to 1000 m depth, more common between 80 and 350 m.

Loc. name(s) :



MAJIDAE

Maja squinado (Herbst, 1788)

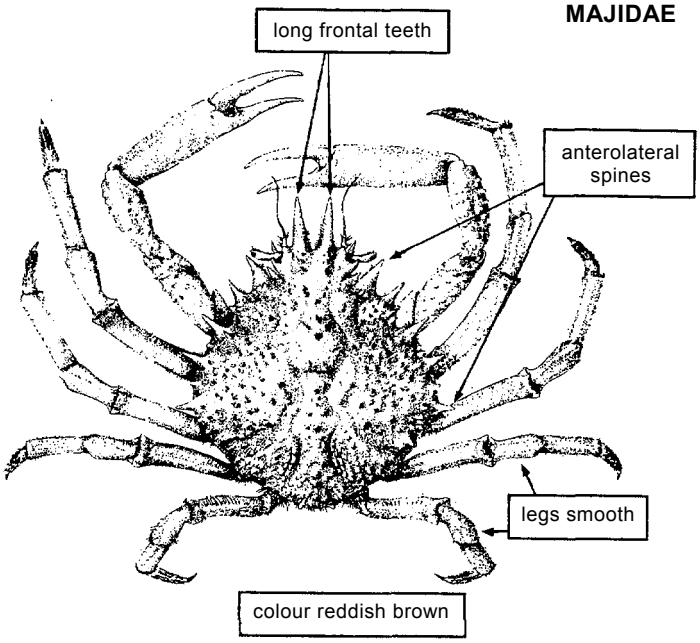
FAO names : **En** - Spinous spider crab; **Fr** - Araignée européenne; **Sp** - Centolla europea.

Size : 22 cm (carapace width).

Fishing gear : bottom trawls, trammelnets.

Habitat : shallow rocky bottoms to 75 m depth.

Loc.name(s) :



OCYPODIDAE

Ocypode africana De Man, 1881

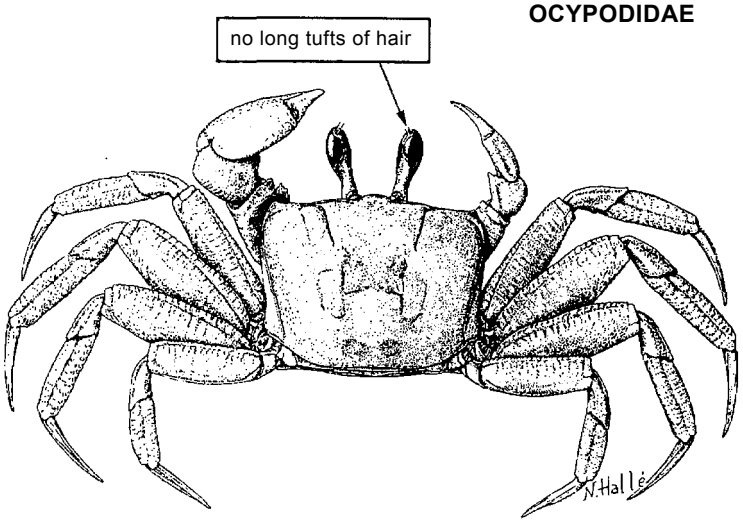
FAO names : **En** - African ghost crab; **Fr** - Ocypode africain; **Sp** - Capuco africano.

Size : 3.4 cm (carapace width).

Fishing gear : caught by hand, baited traps, cast nets, nooses.

Habitat : sandy beaches above the tide mark.

Loc.name(s) :



TRUE CRABS

OCYPODIDAE

Ocypode cursor (Linnaeus, 1758)

Synonyms : Ocypode (h)ippeus Olivier, 1807.

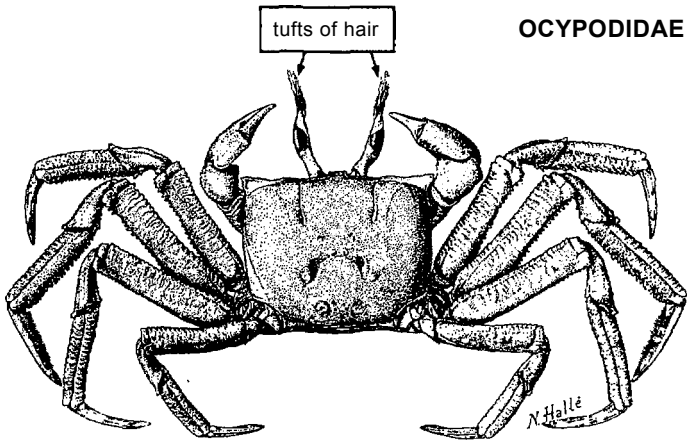
FAO names : **En** - Tufted ghost crab; **Fr** - Ocypode pénicillée; **Sp** - Capuco de mechón.

Size : 5.5 cm (carapace width).

Fishing gear : caught by hand, baited traps, cast nets, nooses.

Habitat : sandy beaches, burrowing above the water line.

Loc.name(s) :



Uca tangeri (Eydoux, 1835)

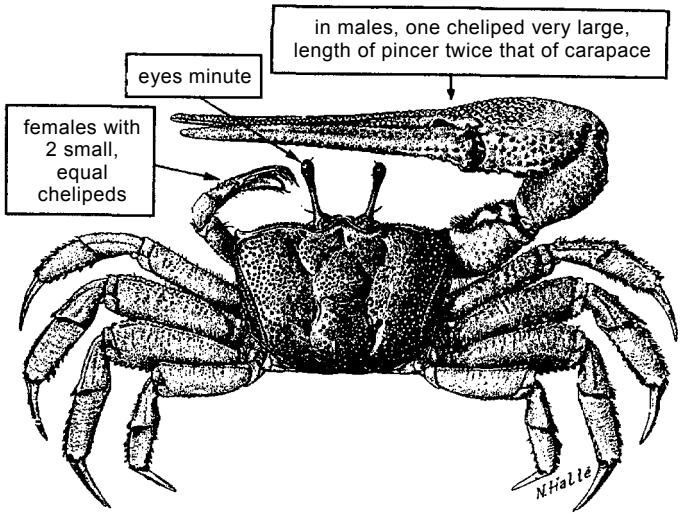
FAO names : **En** - West African fiddler crab; **Fr** - Gélasime africain; **Sp** - Violinista africano.

Size : 4.7 cm (carapace width).

Fishing gear : caught by hand.

Habitat : swamps and mud flats near river mouths

Loc.name(s) :



PORTUNIDAE

Callinectes amnicola (De Rocheburne, 1883)

Synonyms : *Callinectes latimanus* Rathbun, 1897.

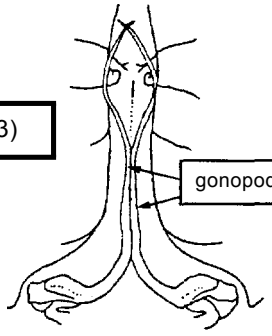
FAO names : **En** - Bigfisted swimcrab; **Fr** - Crabe bicorne; **Sp** - Cangrejo tijerón.

Size : 15 cm (carapace width)

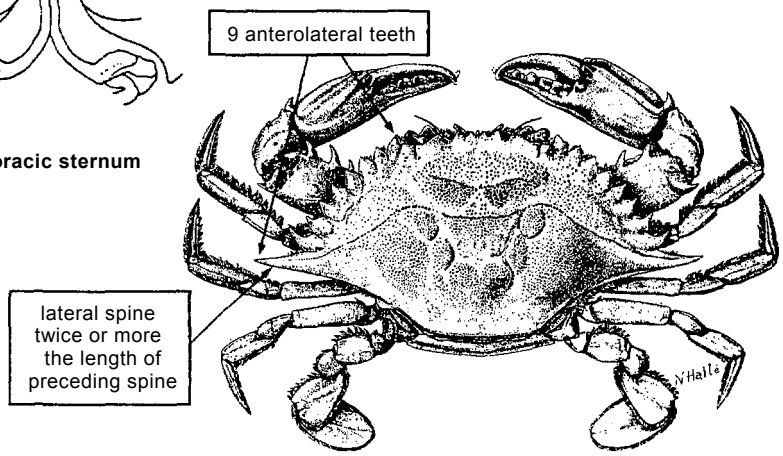
Fishing gear : hand nets, square nets, crab pots, hook-and-line.

Habitat : estuaries, lagoons and rivers.

Loc.name(s) :



thoracic sternum



next page

TRUE CRABS

PORTUNIDAE

Callinectes marginatus (A. Milne Edwards, 1861)

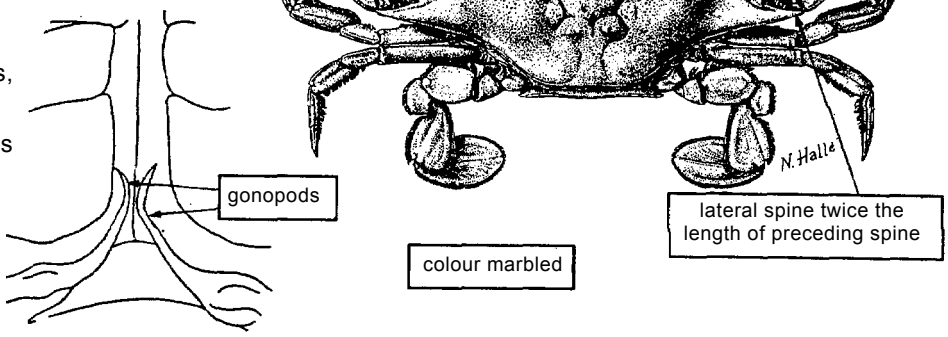
FAO names : **En** - Marbled swimcrab; **Fr** - Crabe marbré; **Sp** - Cangrejo jaspeado.

Size : 10 cm (carapace width).

Fishing gear : hand nets, square nets, crab pots, hook-and-line.

Habitat : brackish waters of estuaries and lagoons.

Loc.name(s) :



thoracic sternum

Callinectes pallidus (De Rocheburne, 1883)

Synonyms : *Callinectes gladiator* Benedict, 1893.

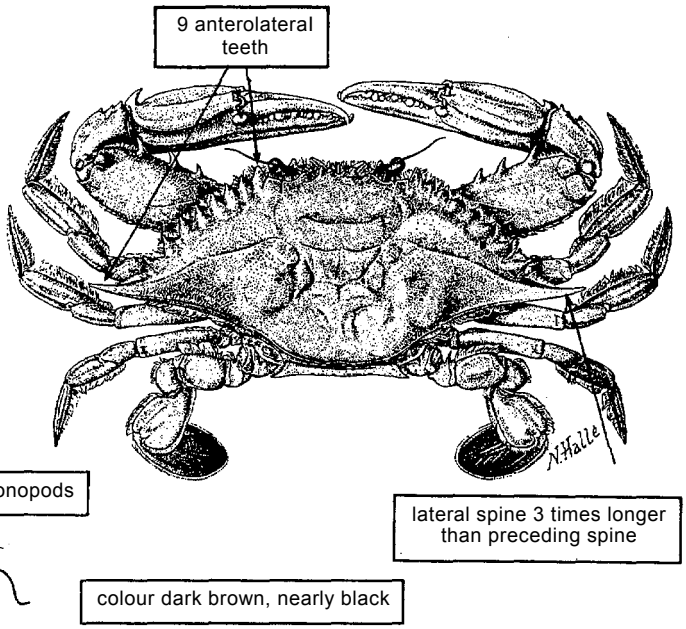
FAO names : **En** - Gladiator swimcrab; **Fr** - Crabe gladiateur; **Sp** - Cangrejo gladiador.

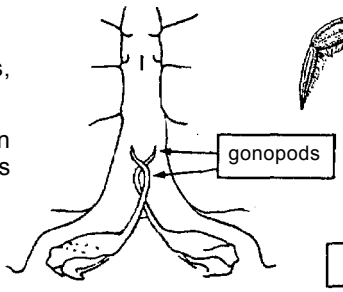
Size : 4.5 cm (carapace width).

Fishing gear : hand nets, square nets, crab pots, hook-and-line.

Habitat : sandy and muddy bottoms in brackish and marine waters at less than 30 m depth.

Loc:name(s) :





thoracic sternum

Cronius ruber (Lamarck, 1818)

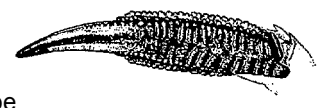
FAO names : **En** - Red swimcrab; **Fr** - Crabe rouge; **Sp** - Cangrejo colorado.

Size: 8.2 cm (carapace width).

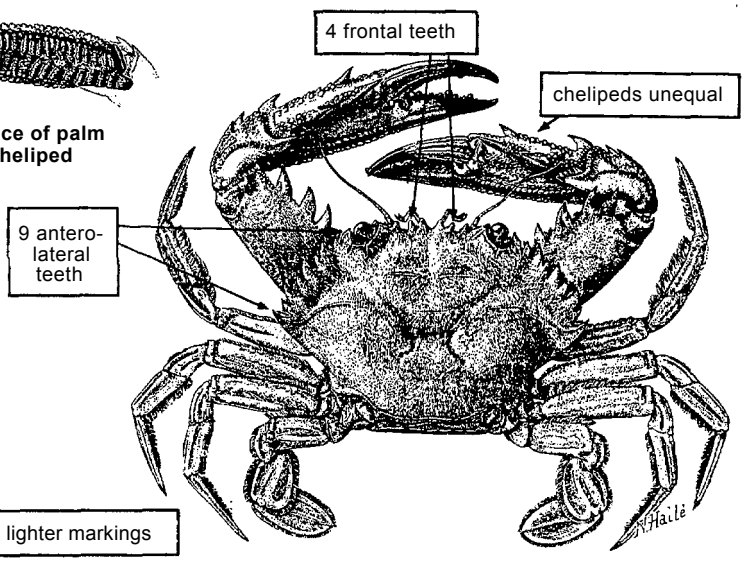
Fishing gear : hand nets, crab pots.

Habitat : intertidal zone to 38 m depth; on different types of bottoms, especially those with seaweeds, sea squirts, etc.

Loc.name(s) :



inner surface of palm of left cheliped



TRUE CRABS

PORTUNIDAE

Liocarcinus corrugatus (Pennant, 1777)

Synonyms : *Portunus corrugatus* (Pennant, 1777); *Macropipus corrugatus* (Pennant, 1777).

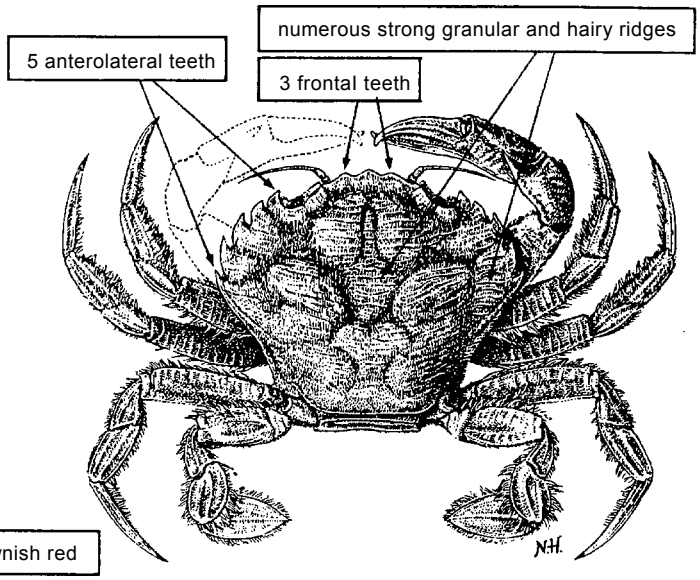
FAO names : **En** - Wrinkled swimcrab; **Fr** - Etrille ballant; **Sp** - Cangrejo de arrugas.

Size : 6 cm (carapace width), common to 2.5 cm.

Fishing gear : bottom trawls (bycatch), beach seines (bycatch).

Habitat : from the littoral zone to 60 m depth, on rough bottoms.

Loc.name(s) :



Portunus hastatus (Linnaeus, 1767)

Synonyms : *Neptunus hastatus* (Linnaeus, 1767).

FAO names : En - Lancer swimcrab; Fr - Etrille nageuse; Sp - Jaiba cornuda.

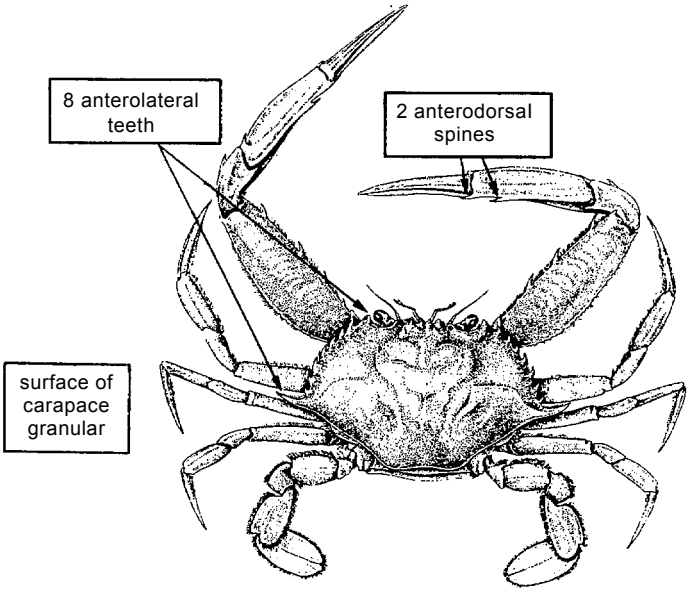
Size : 5.6 cm (carapace width).

Fishing gear : lobster pots, beach seines (bycatch).

Habitat : sandy and muddy bottoms, from the coastline to 55 m depth.

Remarks : presence in the Gulf of Guinea to be confirmed.

Loc.name(s) :



Portunus validus (Herklots, 1851)

Synonyms : *Neptunus validus* (Herklots, 1851).

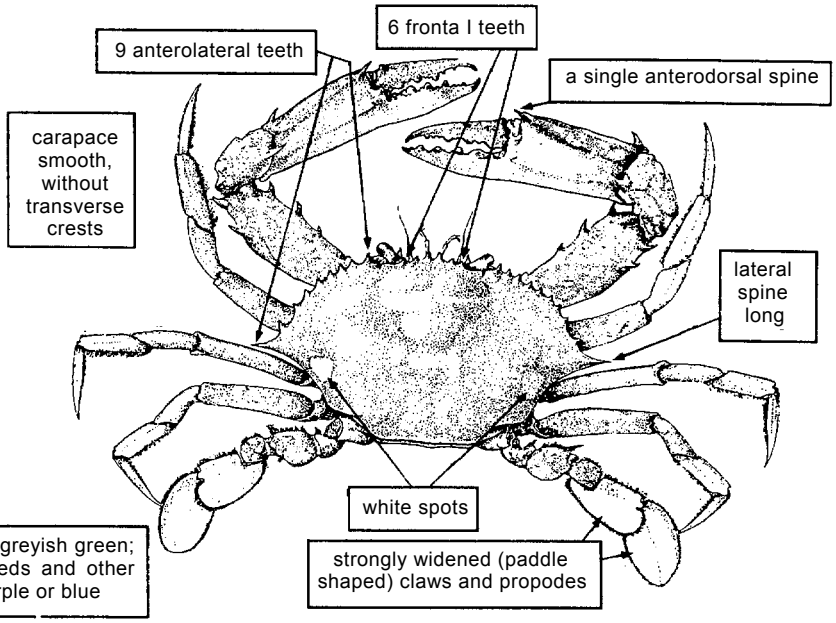
FAO names : **En** -Smooth swimcrab; **Fr** - Etrille lisse; **Sp** - Jaiba satinada.

Size : 1.9 cm (carapace width).

Fishing gear : beach seines, trammel nets, bottom trawls (bycatch).

Habitat : from the coastline to 50 m depth. More common in the warm season.

Loc.name(s) :



TRUE CRABS

XANTHIDAE

Menippe nodifrons Sti mpson, 1859

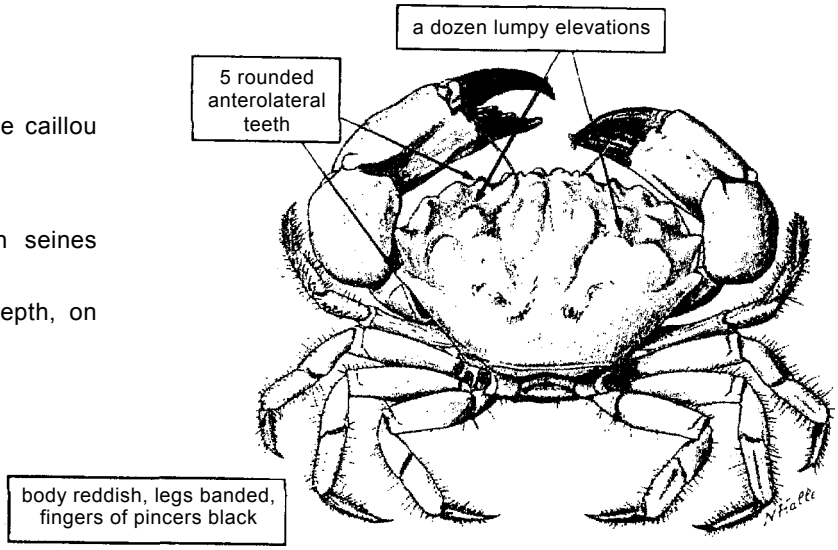
FAO names : **En** - Lumpy stone crab; **Fr** - Crabe caillou guinéen; **Sp** - Cangrejo jorobado.

Size : 6.5 cm (carapace width).

Fishing gear : bottom trawls (bycatch), beach seines (bycatch).

Habitat : littoral and sublittoral zone to 20 m depth, on rocky bottoms.

Loc.name(s) :



Panopeus africanus A. Mi lne Edwards, 1867

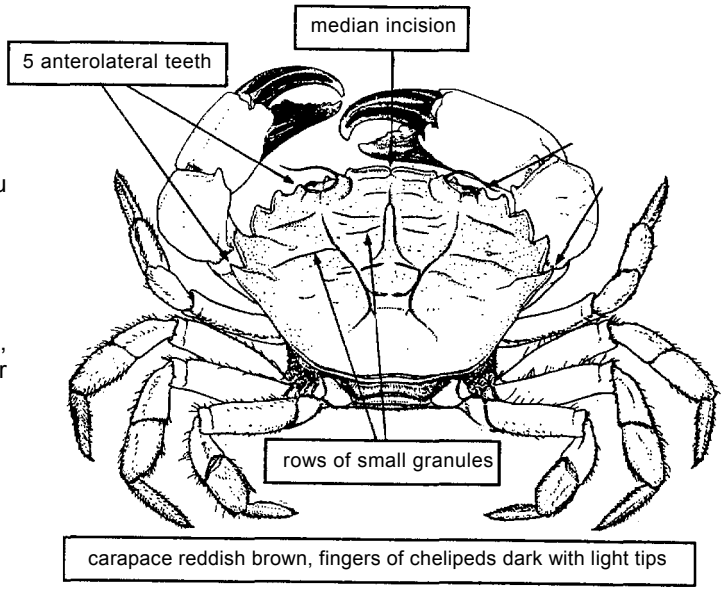
FAO names : **En** - African mud crab; **Fr** - Crabe caillou africain; **Sp** - Cangrejo de piedra africano.

Size : 5 cm (carapace width).

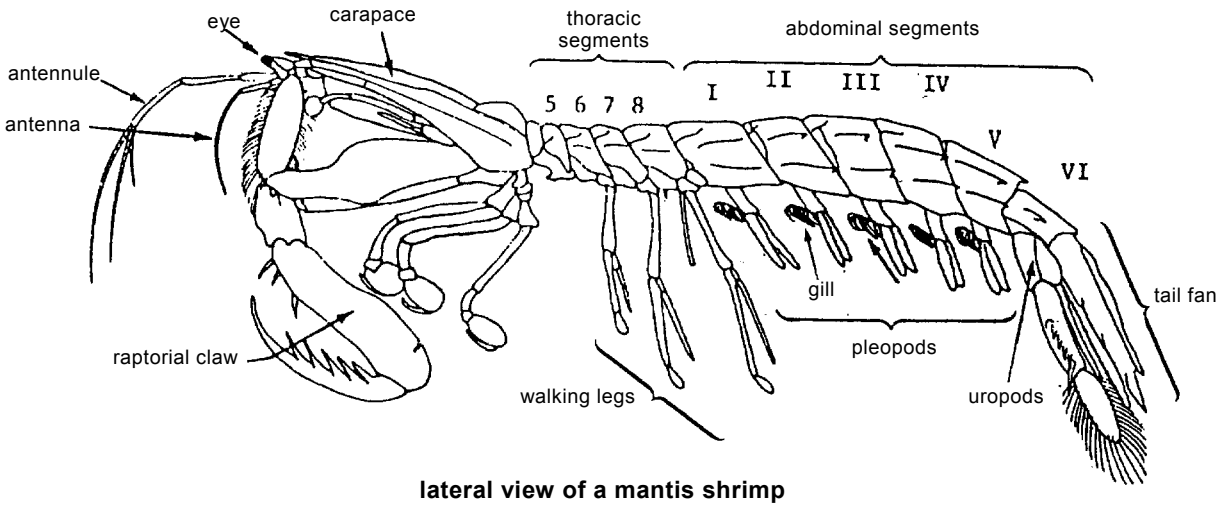
Fishing gear : collected by hand in the intertidal zone.

Habitat : intertidal and subtidal zone to 4 m depth, estuarine and marine, burrowing in mud or under stones.

Loc.name(s) :



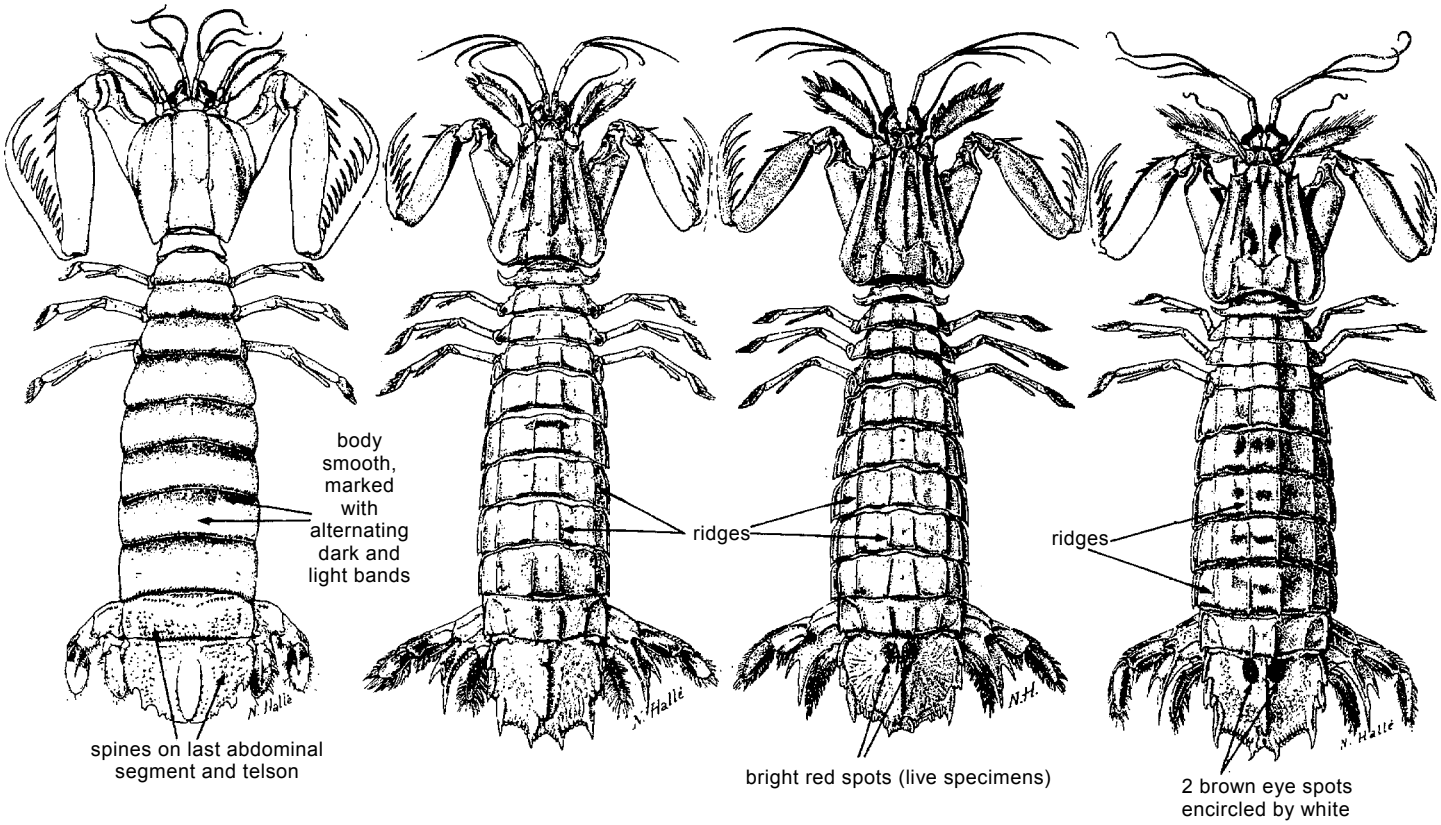
STOMATOPODS
TECHNICAL TERMS AND GENERAL REMARKS



lateral view of a mantis shrimp

FAO names : **En** - Mantis shrimps; **Fr** - Squilles; **Sp** - Galeras.
Size : to 27 cm.
Fishing gear : bycatch in the trawl fisheries for shrimp and the trap fisheries for lobsters.
Habitat : coastal (sometimes estuarine) waters to 300 m depth.
Loc.name(s) :

MOST COMMON SPECIES



Lysiosquilla hoevenii
(Herklots, 1851)

En - Lizard mantis

Fr - Squille-lézard géante
Sp - Galera gigante
Size : 27 cm
Loc.name(s) :

Squilla aculeata calmani
Holthuis, 1959

En - Guinean mantis shrimp

Fr - Squille de Guinée
Sp - Galera de Guinea
Size : 15 cm
Loc.name(s) :

Squilla cadenati
Manning, 1970

En - Angolan mantis shrimp

Fr - Squille angolaise
Sp - Galera de Angola
Size : 17 cm
Loc.name(s) :

Squilla mantis
(Linnaeus, 1758)

En - Spottail mantis shrimp

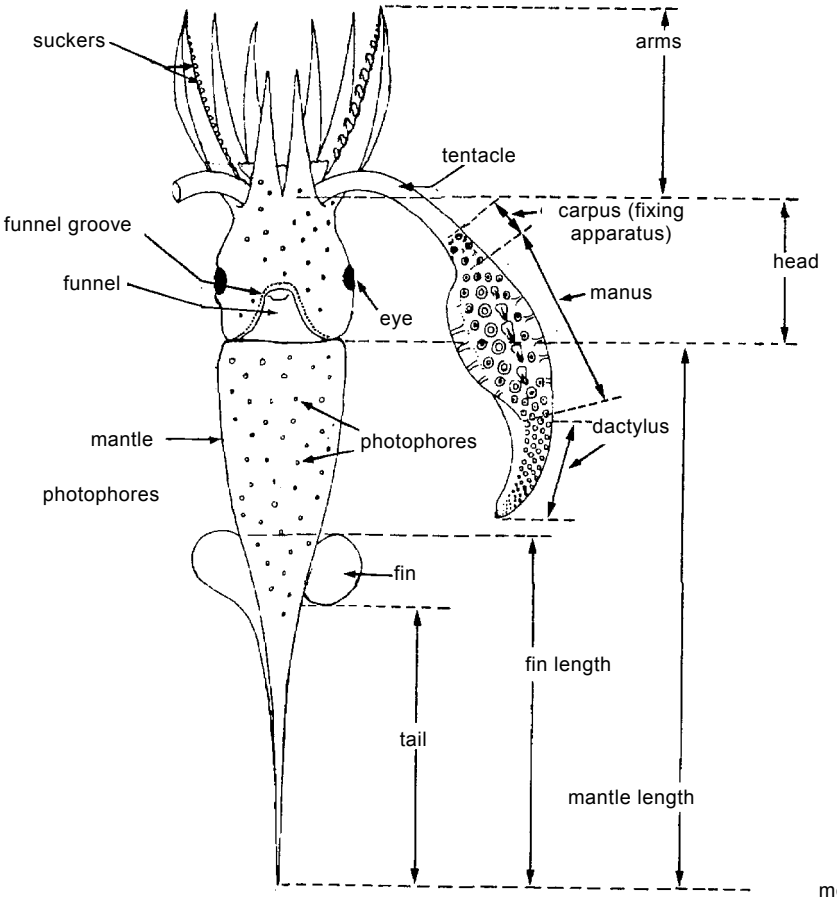
Fr - Squille ocellée
Sp - Galera ocelada
Size : 15 cm
Loc.name(s) :

CEPHALOPODS

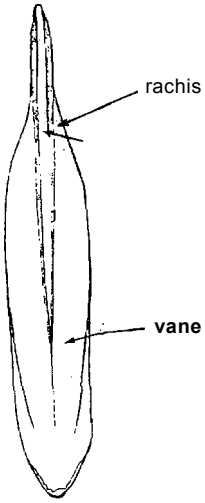
TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS AND GUIDE TO MAJOR TAXONOMIC GROUPS

SQUIDS (Teuthoidea)

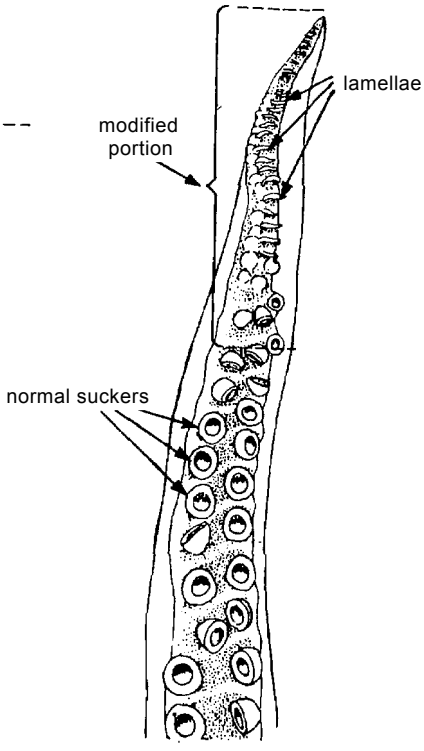
Gladius (or internal shell) chitinous, flexible, pen-shaped; 8 arms and 2 non-retractile tentacles.



composite diagram illustrating basic squid (teuthoid) features



gladius of squid



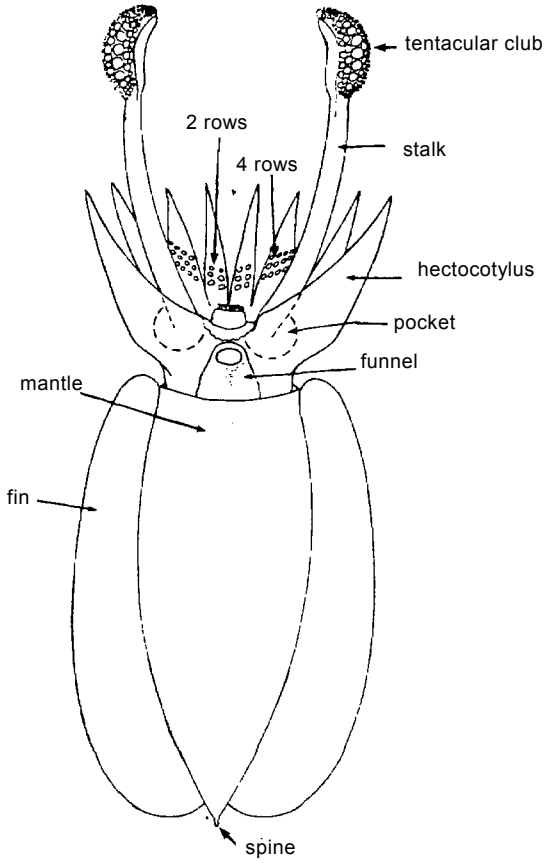
example of hectocotylized arm in male (Illex)

arm I (dorsal)

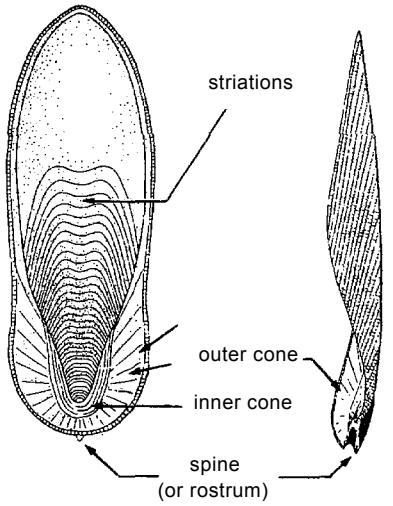
CEPHALOPODS

CUTTLEFISHES (Sepioidea)

Sepion (internal shelf) large, chalky, rigid; 8 arms and 2 retractile tentacles.



ventral view
diagram of basic cuttlefish features



ventral view **dorsal view**

OCTOPUSES (Octopoda)

Internal shell reduced or absent; 8 arms, no tentacles.

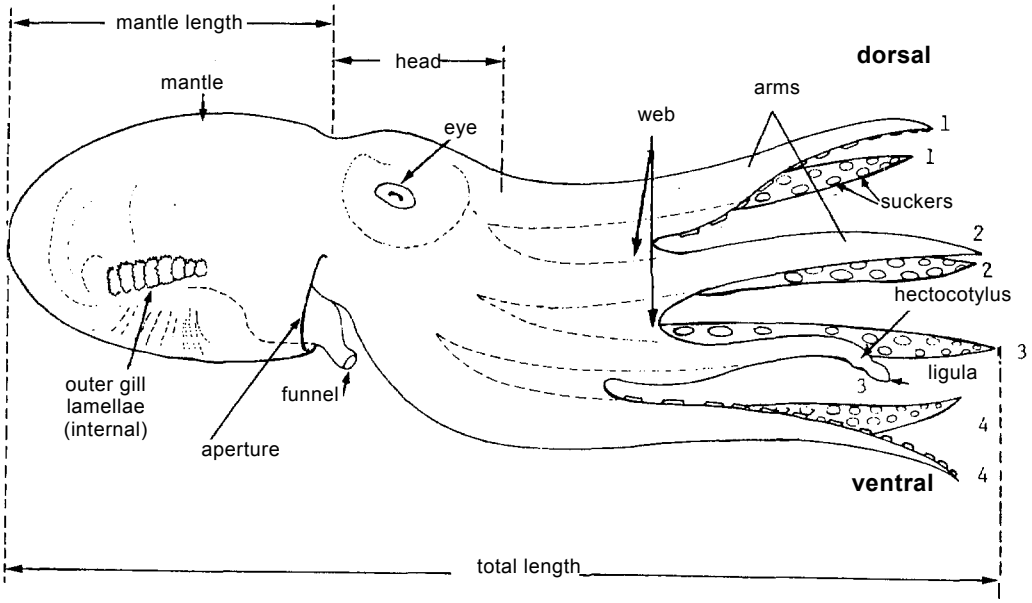


diagram of basic octopus features (lateral view)

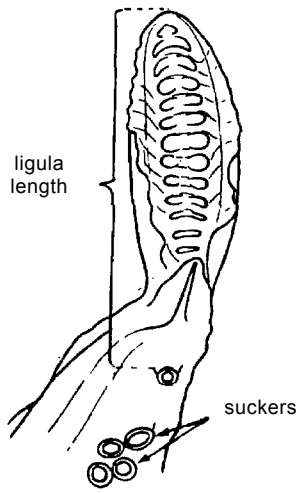


diagram of hectocotylus showing ligula measurement

CEPHALOPODS

SEPIOIDEA - CUTTLEFISHES

Sepion (internal shell) large, chalky, rigid; 8 arms and 2 retractile tentacles.

SEPIIDAE

Sepia bertheloti Orbigny, 1838

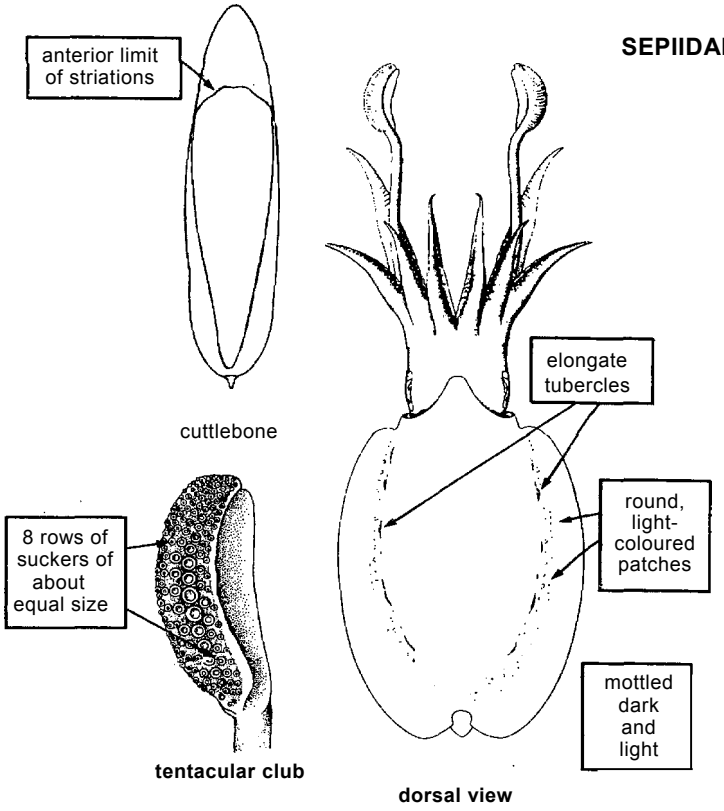
FAO names : **En** - African cuttlefish ; **Fr** - Seiche africaine; **Sp** - Jibia africana.

Size : females 13 cm, males 17.5 cm (mantle length).

Fishing gear : bottom trawls.

Habitat : benthic; captured from 20 to 140 m depth.

Loc.name(s) :



Sepia elegans Blainville, 1827

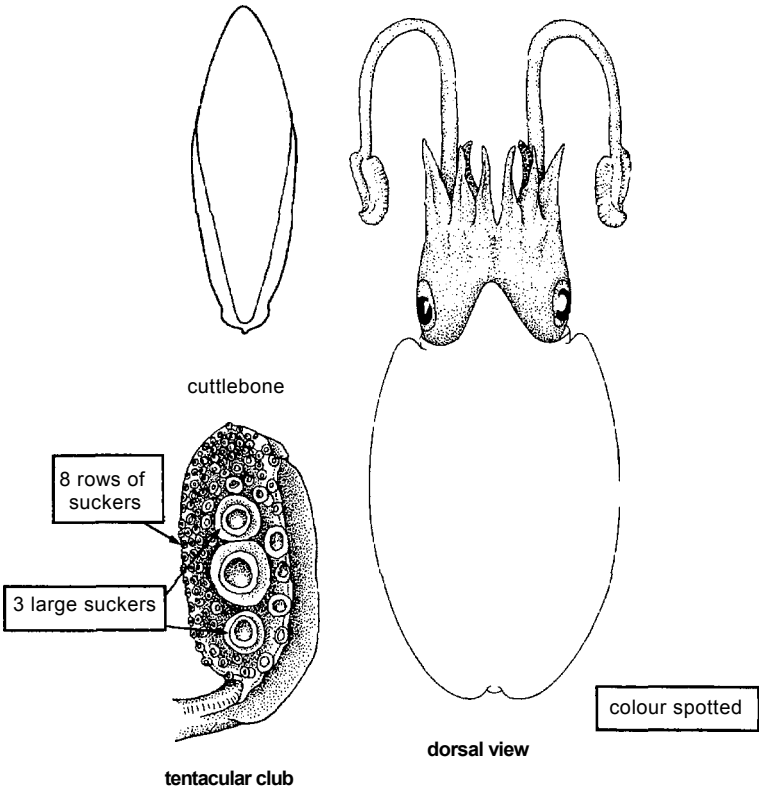
FAO names : **En** - Elegant cuttlefish; **Fr** - Seiche élégante; **Sp** - Castaño.

Size : 9 cm (mantle length).

Fishing gear : bottom trawls.

Habitat : demersal, from 30 to 430 m depth; spawns in shallow inshore waters throughout the year.

Loc.name(s) :



CEPHALOPODS

SEPIIDAE

Sepia elobyana Adam, 1941

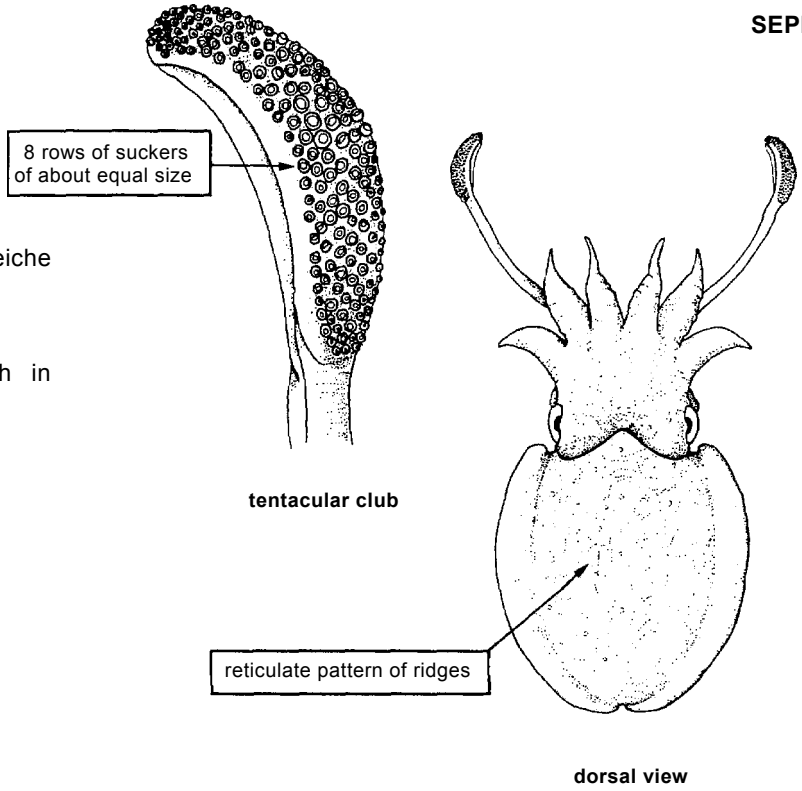
FAO names : **En** - Guinean cuttlefish; **Fr** - Seiche de Guinée; **Sp** -Sepia guineana.

Size : 6 cm (mantle length).

Fishing gear : probably taken as bycatch in bottom trawls, together with other cuttlefish.

Habitat : unknown.

Loc.name(s) :



Sepia officinalis hierredda Rong, 1837

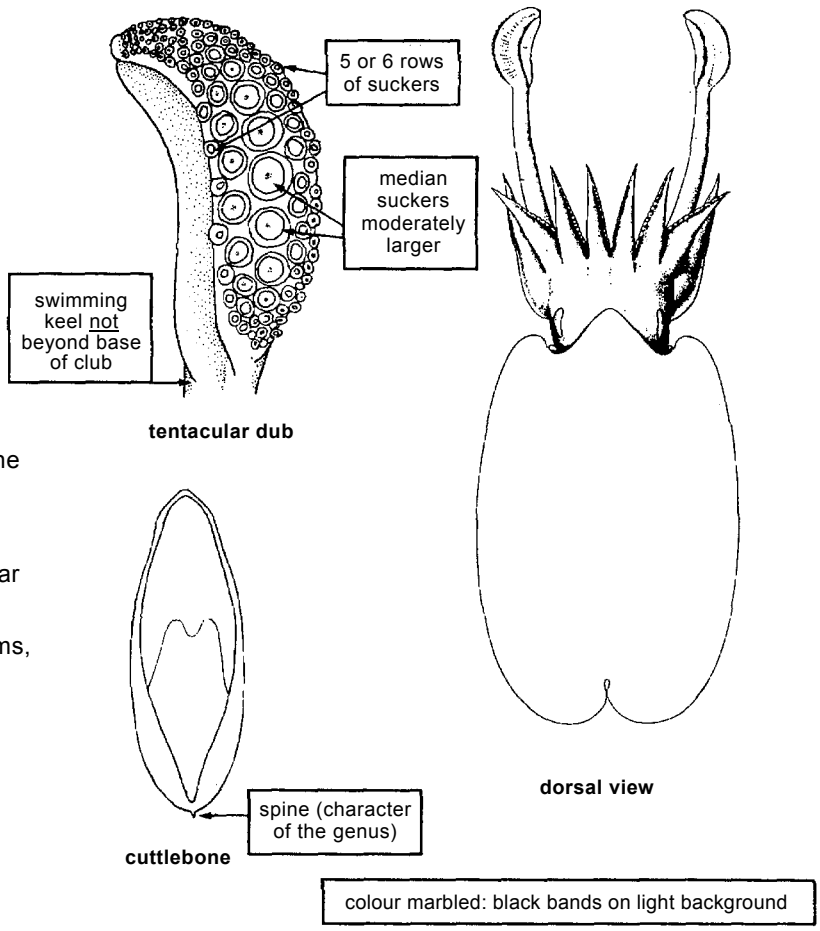
FAO names : **En** - Common cuttlefish; **Fr** - Seiche commune; **Sp** - jibia.

Size : 40 cm mantle length, 3.5 kg.

Fishing gear : bottom trawls; artisanal gear (spears, pots, traps), often with the use of light.

Habitat : demersal, on sandy to muddy bottoms, from the surface to 200 m depth.

Loc.name(s) :



Sepia orbignyana Ferussac, 1826

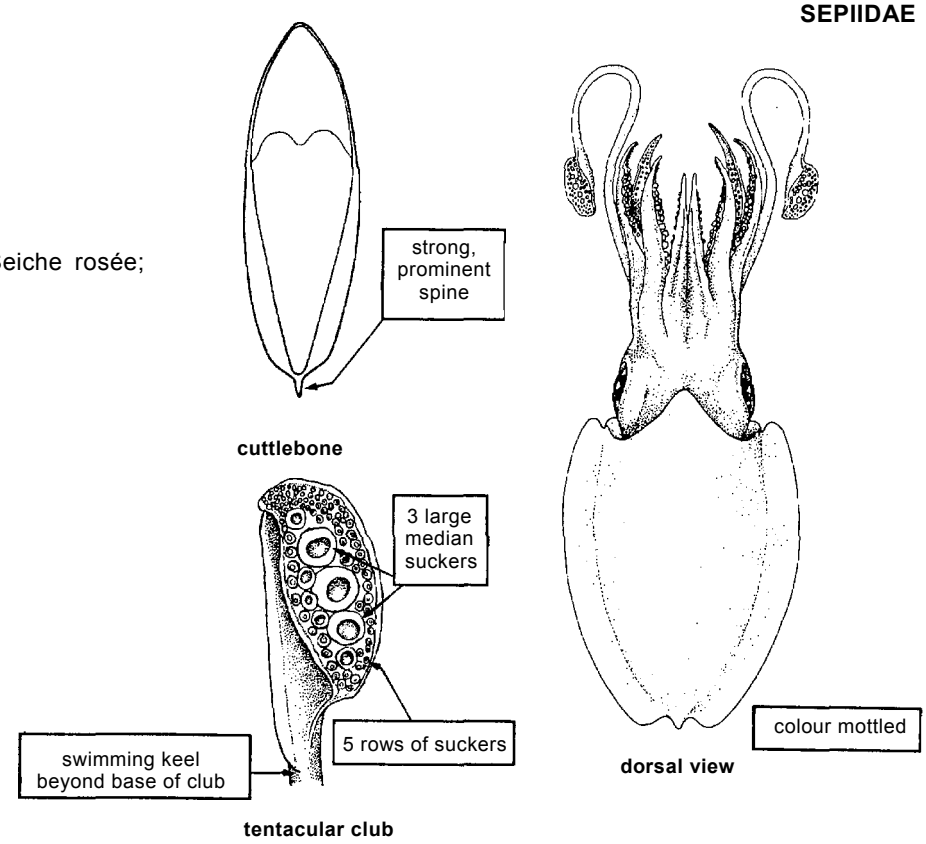
FAO names : **En** - Pink cuttlefish; **Fr** - Seiche rosée; **Sp** - Jibia rosada.

Size : 12 cm (mantle length).

Fishing gear : bottom trawls.

Habitat : coastal, from 50 to 450 m depth.

Loc.name(s) :



Sepiella ornata (Rang, 1837)

Synonyms : Sepia ornata Rang, 1837.

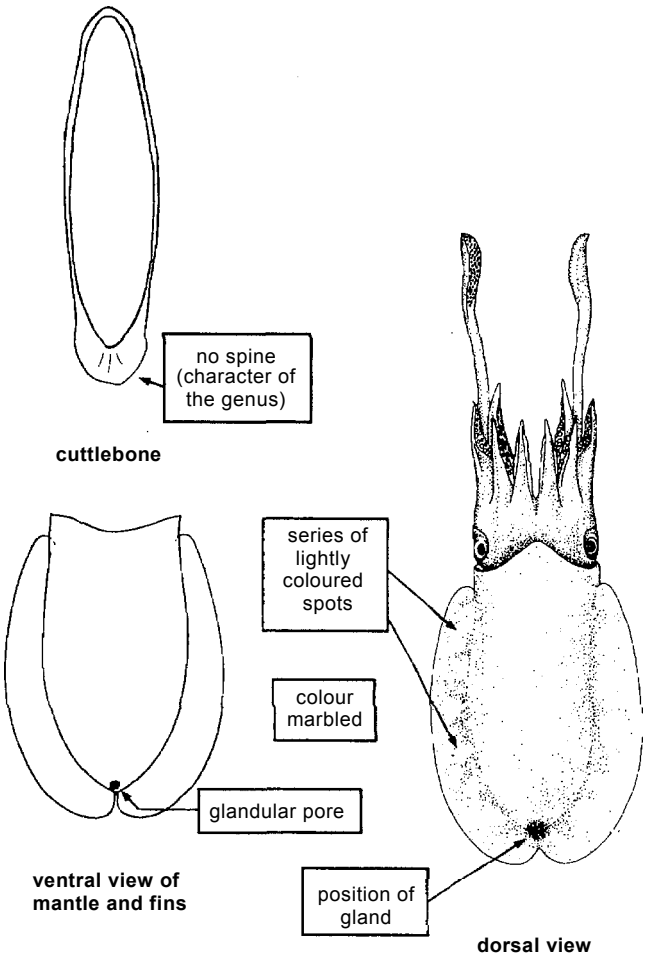
FAO names : **En** - Ornate cuttlefish; **Fr** - Sepia ornée; **Sp** - Sepita manchada.

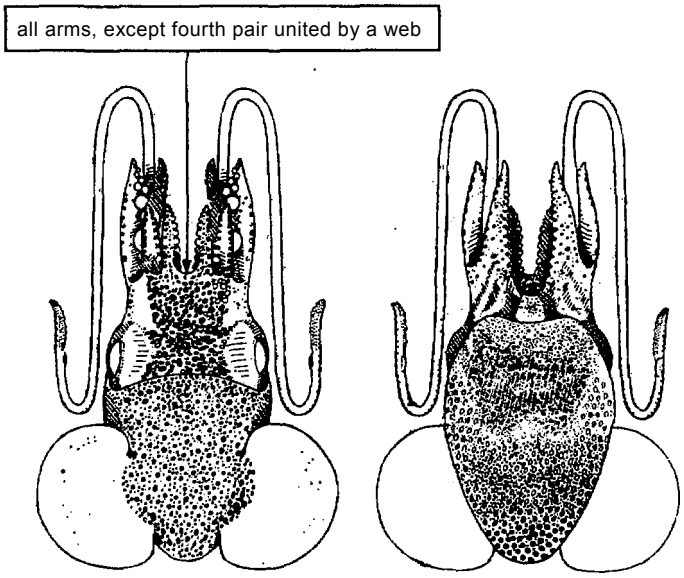
Size : 10 cm (mantle length).

Fishing gear : bottom trawls (bycatch).

Habitat : demersal, ranging from 20 to 150 m depth.

Loc.name(s) :





Heteroteutis dispar (Rüppell, 1845)

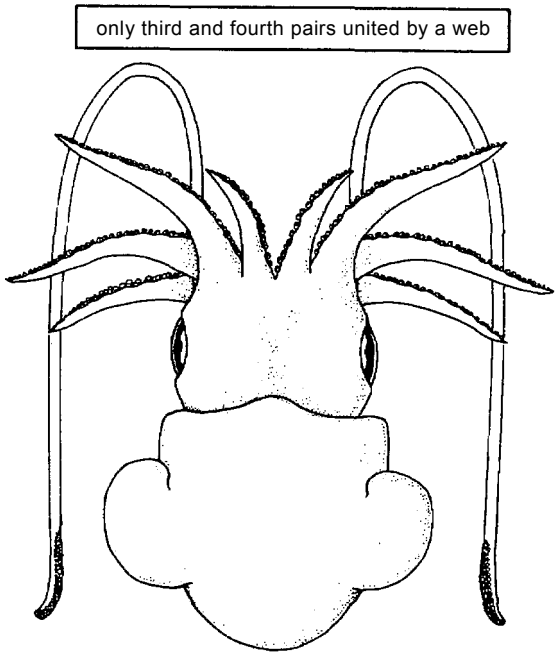
FAO names : En - Odd bobtail; **Fr** - Sépiole différente; **Sp** - Globito aberante.

Size: 2 cm.

Fishing gear : pelagic trawls (bycatch).

Habitat : exact information not available.

Loc.name(s) :



Neorossia caroli (Joubin, 1902)

Synonyms : *Rossia caroli* Joubin, 1902.

FAO names : En - Carol bobtail; **Fr** - Sépiole carolette; **Sp** - Globito carolino.

Size : 5.5 cm.

Fishing gear : bottom trawls.

Habitat : demersal, from 300 to 1000 m depth.

Loc.name(s) :

CEPHALOPODS

TEUTHOIDEA - SQUIDS

Gladius (or internal shell) chitinous, flexible, pen-shaped; 8 arms and 2 non-retractile tentacles.

LOLIGINIDAE

Alloteuthis africana Adam, 1950

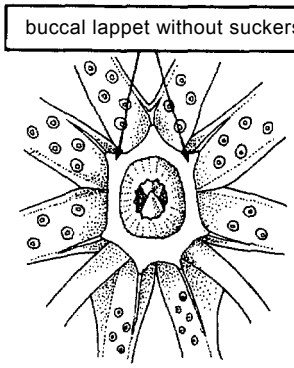
FAO names : **En** - African squid; **Fr** - Casseron africain; **Sp** - Calamarín africano.

Size : males 19 cm, females 9 cm (mantle length).

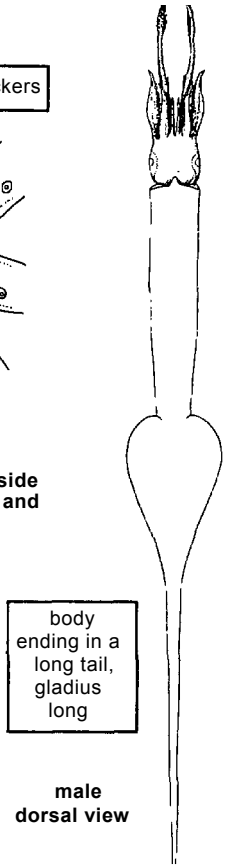
Fishing gear : trawls (bycatch).

Habitat : continental shelf; spawning on the bottom.

Loc.name(s) :



schematic view of oral side showing bases of arms and buccal membrane



male dorsal view

female dorsal view

Loligo vulgaris Lamarck, 1798

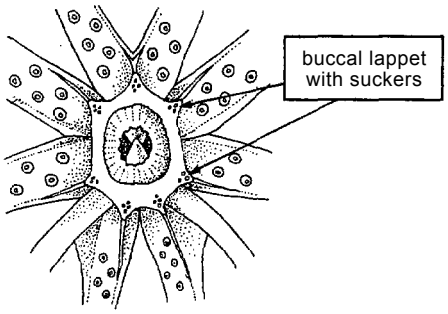
FAO names : **En** - European squid; **Fr** - Encornet; **Sp** - Calamar.

Size : males 42 cm, females 32 cm (mantle length).

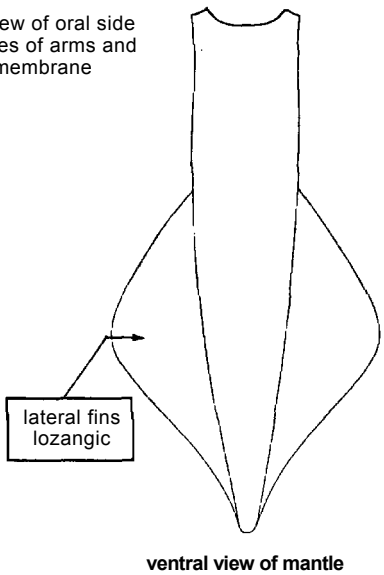
Fishing gear : bottom trawls.

Habitat : benthopelagic, between 20 and 250 m depth, migrating toward the coast for spawning.

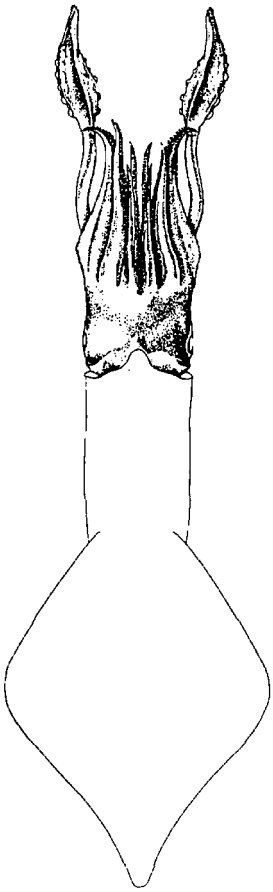
Loc.name(s) :



schematic view of oral side showing bases of arms and buccal membrane



ventral view of mantle



dorsal view

CEPHALOPODS

LOLIGINIDAE

Lolliguncula mercatoris Adam, 1941

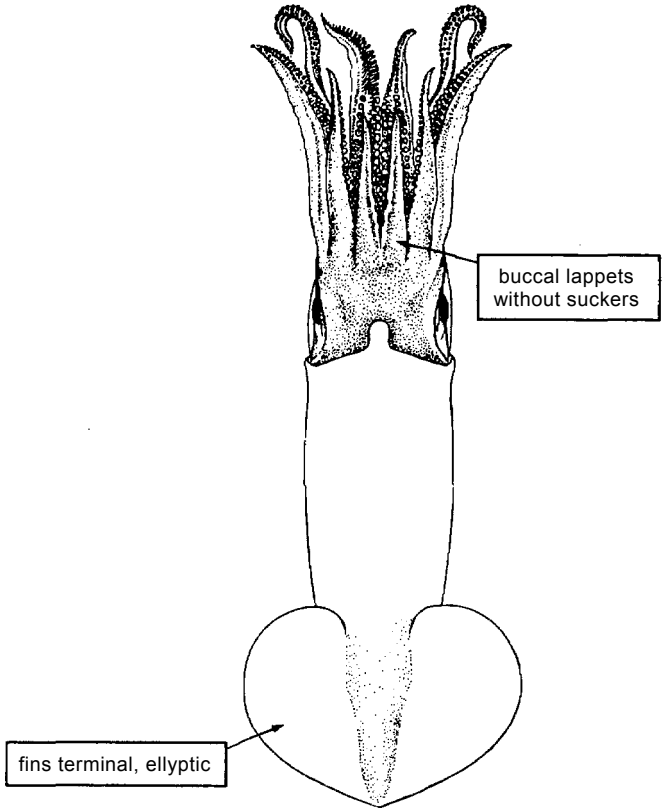
FAO names : **En** - Guinean thumbstall; **Fr** - Calmar doigtier de Guinée; **Sp** - Calamar dedal de Guinea.

Size : males 3.5 cm, females 5 cm (mantle length).

Fishing gear : bottom trawls.

Habitat : coastal waters, on sandy and muddy bottoms, at less than 50 m depth.

Loc.name(s) :



OMMASTREPHIDAE

Illex coindetii (Verany, 1837)

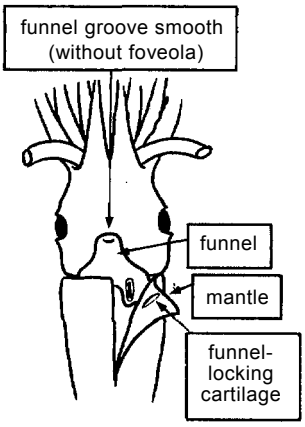
FAO names : **En** - Shortfin squid; **Fr** - Encornet rouge; **Sp** - Pota voladora.

Size : males 22 cm, females 26 cm (mantle length).

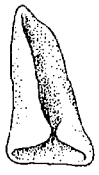
Fishing gear: bottom trawls.

Habitat : mostly on sandy bottoms in coastal waters, but may also descend to 1000 m depth.

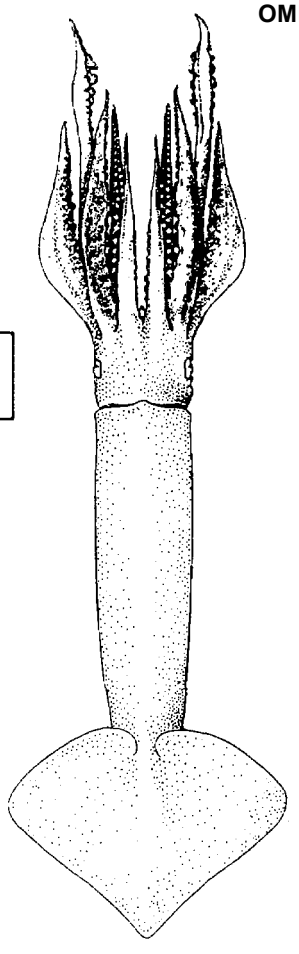
Loc.name(s) :



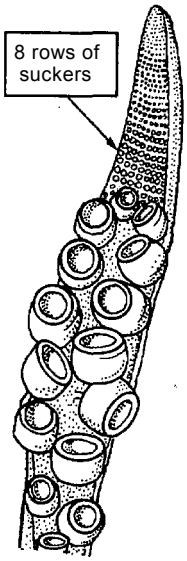
ventral view of head



funnel-locking ⊥ - shaped (family character)



female (dorsal view)



distal end of tentacular club

next page

CEPHALOPODS

OMMASTREPHIDAE

Ommastrephes bartrami (Le Sueur, 1821)

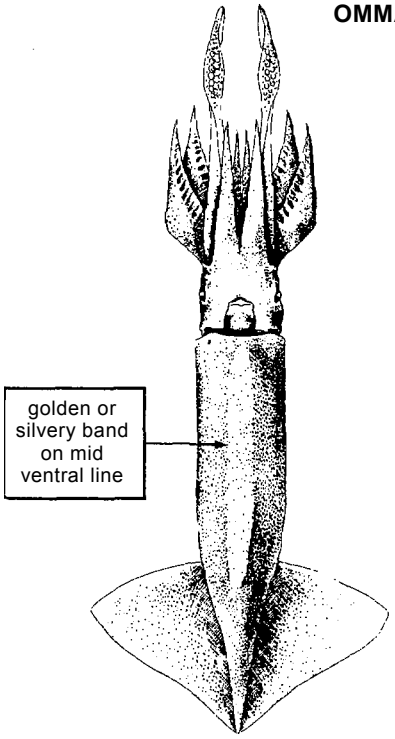
FAO names : **En** - Flying squid; **Fr** - Encornet volant; **Sp** - Pota saltadora.

Size : females 50 cm (mantle length), males somewhat smaller.

Fishing gear : of potential value; caught elsewhere with squid jigs and dipnets (use of light).

Habitat : oceanic, near the surface at night.

Loc.name(s) :



ventral view

Ommastrephes pteropus Steenstrup, 1855

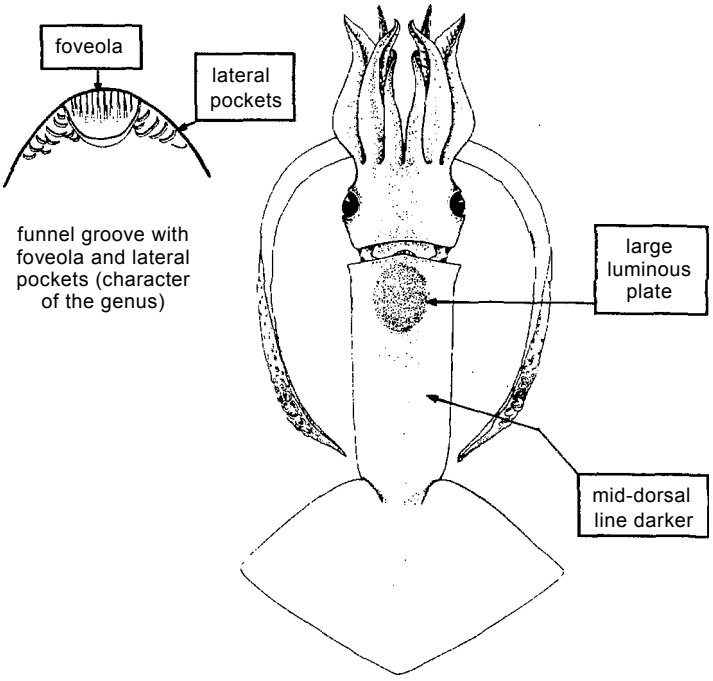
FAO naives : **En** - Orangeback squid; **Fr** - Encornet dos orange; **Sp** - Pota naranja.

Size : females 37 cm (mantle length), males smaller.

Fishing gear : of potential value; caught elsewhere with squid jigs and dipnets (use of light).

Habitat : oceanic.

Loc.name(s) :



dorsal view

Ornithoteuthis antillarum Adam, 1957

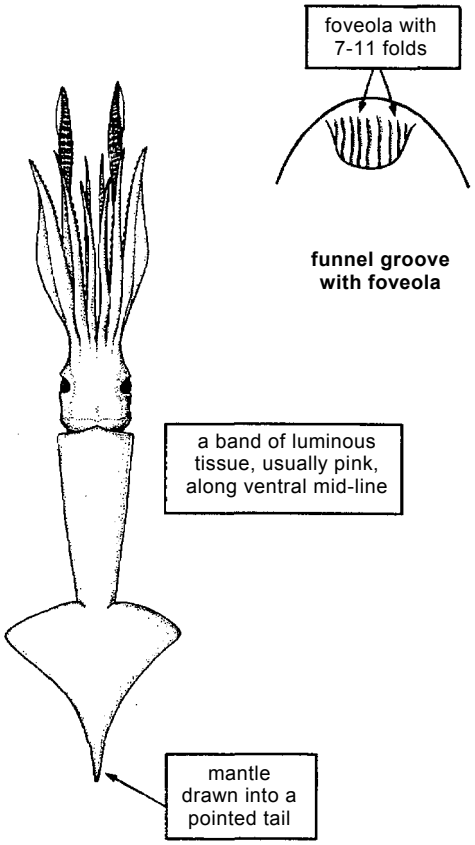
FAO names : **En** - Bird squid ; **Fr** - Encornet oiseau; **Sp** - Pota pajarito.

Size : 20 cm mantle length.

Fishing gear : squid jigs, dipnets, bottom trawls (during the day), midwater trawls (at night).

Habitat : oceanic, from the surface to about 1100 m depth.

Loc.name(s) :



dorsal view

Todarodes sagittatus sagittatus (Lamarck, 1799)

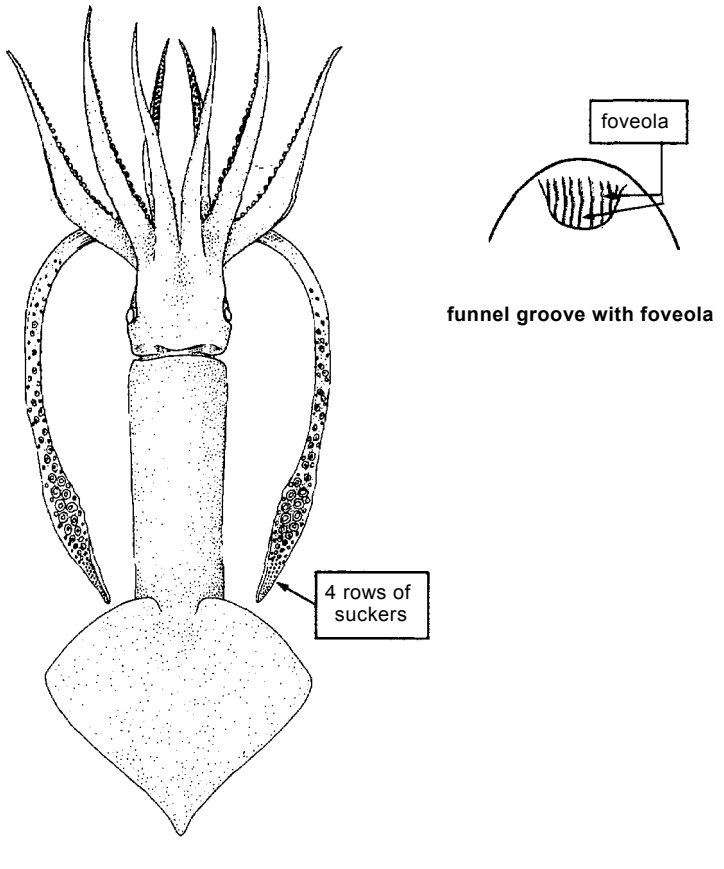
FAO names : **En** - European flying squid; **Fr** - Toutenon commun; **Sp** - Pota europea.

Size : males 75 cm, females 49 cm (mantle length).

Fishing gear : bottom trawls.

Habitat : from the surface to 1000 m depth, migrates towards the coast in large schools.

Loc.name(s) :



dorsal view

CEPHALOPODS

OMMASTREPHIDAE

Todaropsis eblanae (Ball, 1841)

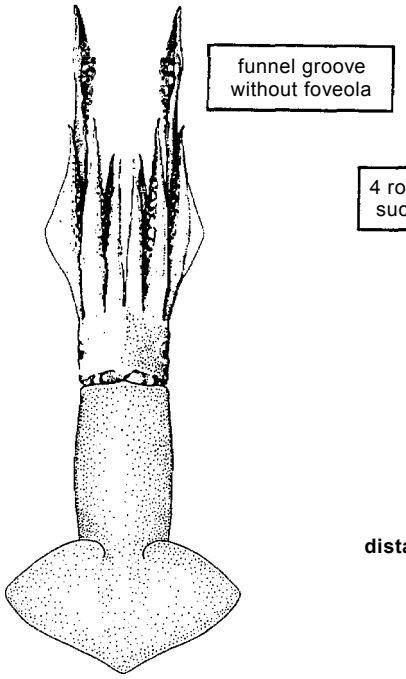
FAO names : **En** - Lesser flying squid; **Fr** - Encornet souffleur; **Sp** - Pota costera.

Size : males 16 cm, females 24 cm (mantle length).

Fishing gear : bottom trawls (bycatch).

Habitat : coastal waters, near sandy and muddy bottoms, from 20 to 650 m depth (at temperatures ranging from 9 to 18°C).

Loc.name(s) :



distal end of tentacular club

dorsal view

ONYCHOTEUTHIDAE

Ancistroteuthis lichtensteini (Orbigny, 1839)

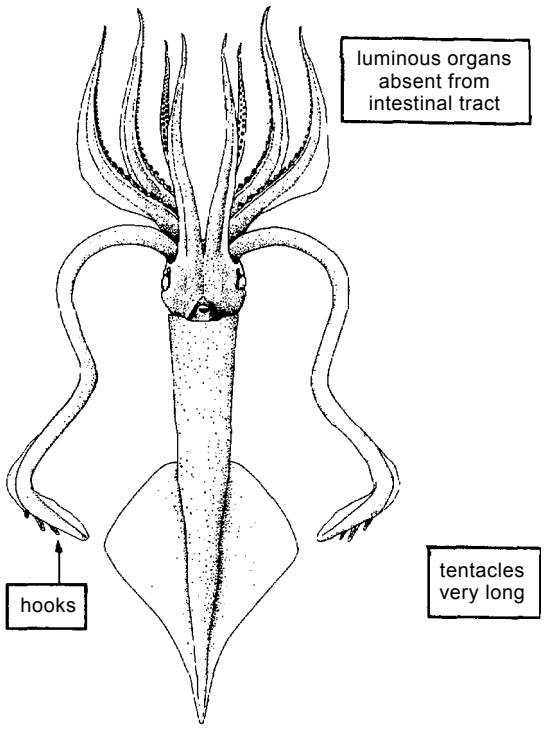
FAO names : **En** - Angel squid; **Fr** - Cornet archange; **Sp** - Luria paloma.

Size : 30 cm mantle length.

Fishing gear: pelagic trawls (bycatch).

Habitat : pelagic, from the surface to about 250 m depth.

Loc.name(s) :



ventral view

ONYCHOTEUTHIDAE

Onychoteuthis banksi (Leach, 1817)

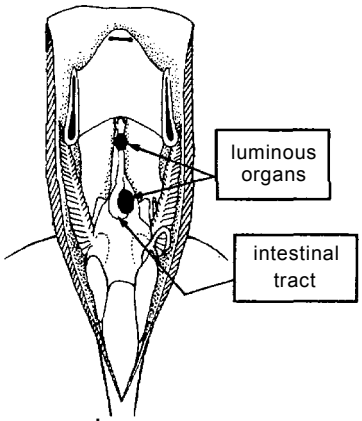
FAO names : **En** - Hooked squid ; **Fr** - Cornet crochu ; **Sp** - Luria ganchuda.

Size : 29 cm mantle length.

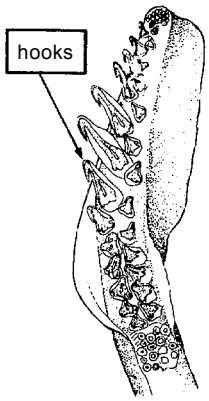
Fishing gear : of potential value; could be caught with jigs and liftnets (use of light)).

Habitat : oceanic, from 150 to 800 m depth.

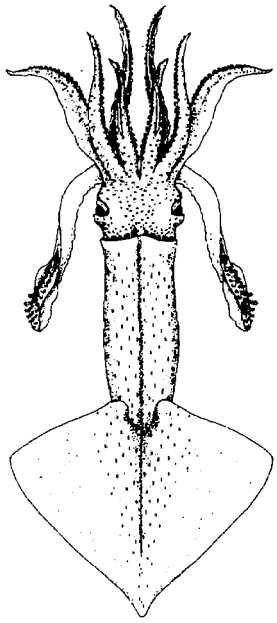
Loc.name(s) :



viscera (after removal of ventral portion of mantle)



rachis of gladius with a strong crest shining through the mantle along ventral midline



dorsal view

THYSANOTEUTHIDAE

Thysanoteuthis rhombus Troschel, 1857

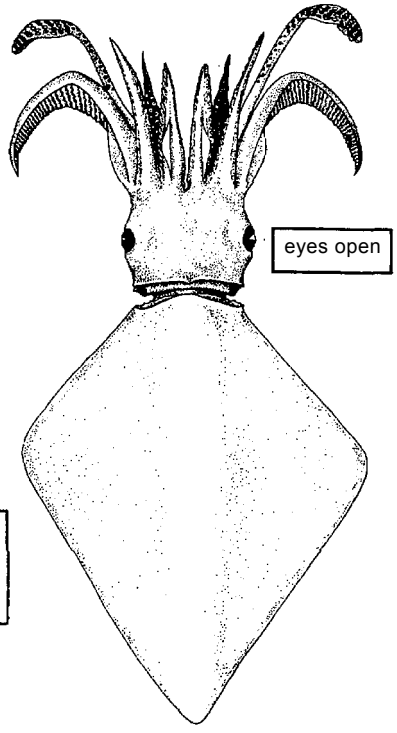
FAO names : **En** - Rhomboid squid; **Fr** - Chipiloua commun; **Sp** - Chipirón volantín.

Size : 100 cm, common to 60 cm mantle length.

Fishing gear : of potential value; could be caught with set nets and drifting jigs.

Habitat : pelagic, often seen in small schools in surface waters; lower limits of its depth distribution unknown.

Loc.name(s) :



mantle thick, muscular, fins broad and lozangic, occupying entire length of mantle

dorsal view

CEPHALOPODS

OCTOPODA - OCTOPUSES

Internal shell reduced or absent; 8 arms, no tentacles.

OCTOPODIDAE

Octopus defilippi Verany, 1851

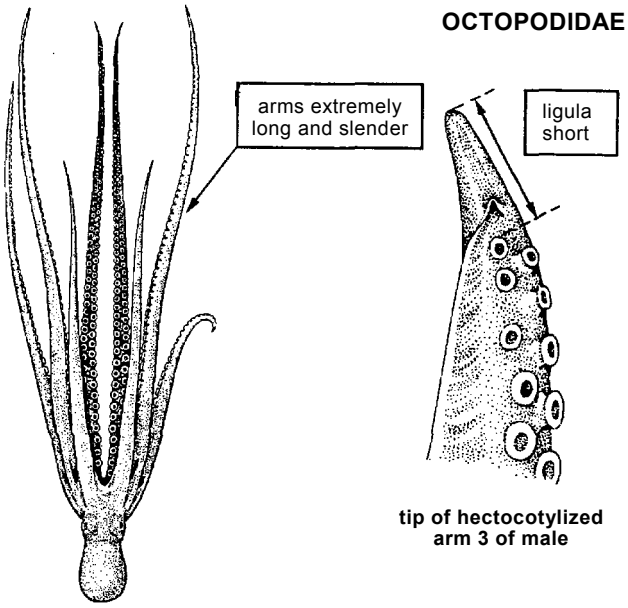
FAO names : **En** - Lilliput longarm octopus; **Fr** - Poulpe à longs bras; **Sp** - Pulpito patilago.

Size : 9 cm mantle length.

Fishing gear : bottom trawls (bycatch).

Habitat : benthic, on sandy to muddy bottoms from 6 to 60 m depth.

Loc.name(s) :



Octopus macropus Risson, 1826

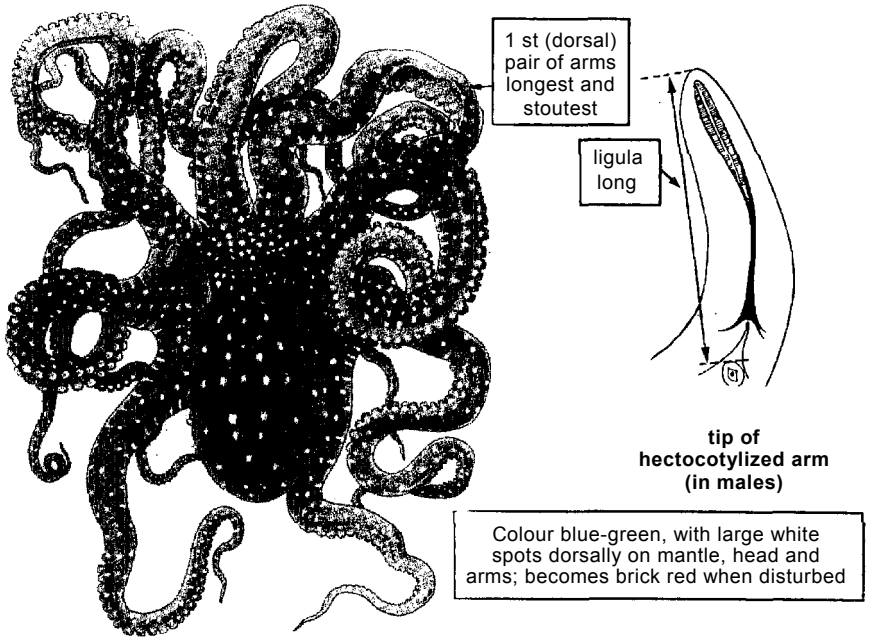
FAO names : **En** - White-spotted octopus; **Fr** - Poulpe tacheté; **Sp** - Pulpo patudo.

Size : 100 cm total length, common to 80 cm.

Fishing gear : bottom trawls, artisanal fishing gear (spears, hooks, lures, traps).

Habitat : rocky and coralline bottoms from 1 to 20 m depth.

Loc.name(s) :



Octopus vulgaris Cuvier, 1797

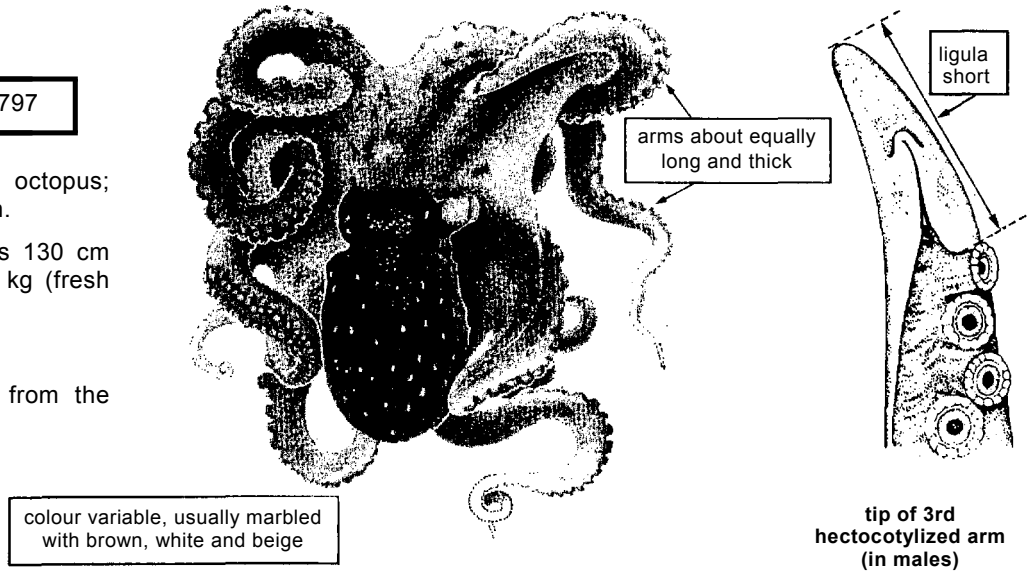
FAO names : **En** - Common octopus; **Fr** - Pieuvre; **Sp** - Pulpo común.

Size : females 115 cm, males 130 cm (total length), common to 2.5 kg (fresh weight).

Fishing gear : bottom trawls.

Habitat : indifferent habitats from the coastline to 200 m depth.

Loc.name(s) :

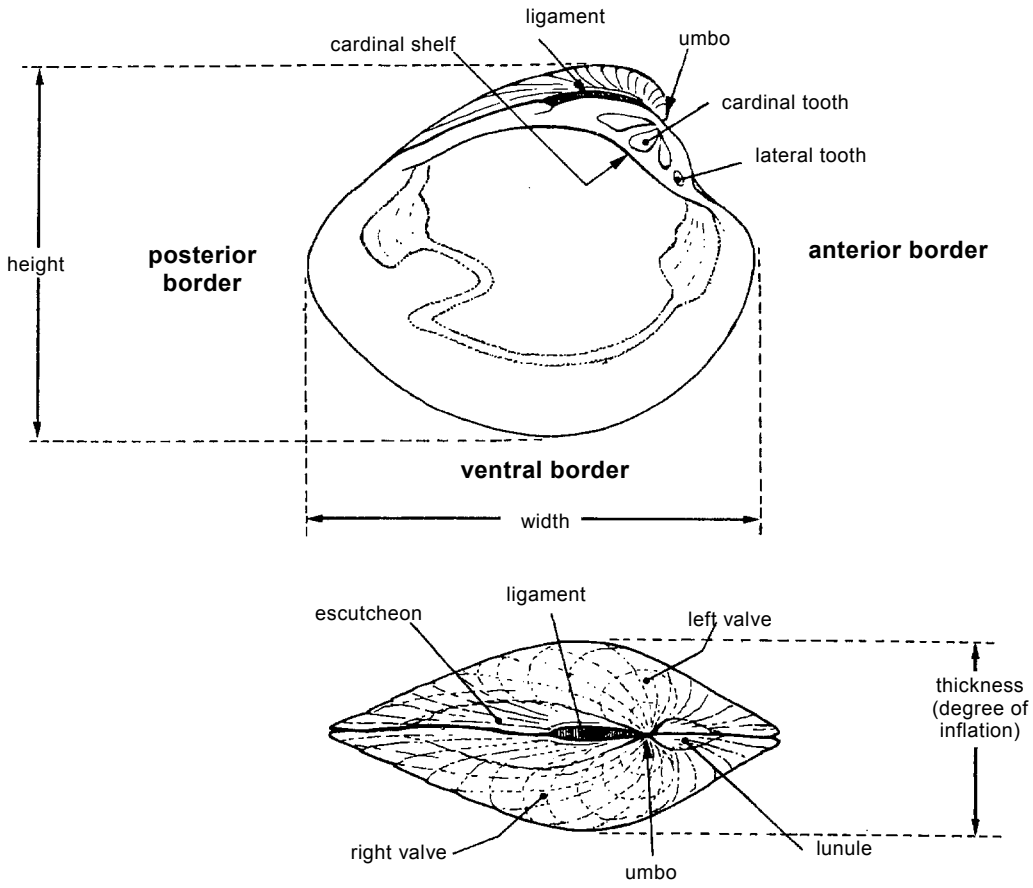


BIVALVES

(Class Bivalvia - pelecypods, clams, oysters, etc.)

TECHNICAL TERMS AND GENERAL REMARKS

Bivalve Features



Glossary of Bivalve Terms

Beak (or umbo - plural: umbos or umbones) : the first formed part of a valve, usually above the hinge.

Bifid : split in two (as in the tooth in the hinge).

Byssus : clump of horny threads spun by the foot and attached to the hard bottom.

Cardinal tooth : hinge tooth situated near the umbo.

Concentric : sculpturing running parallel to the growth margin of the valves.

Escutcheon : a smooth, long surface on the upper margin of the valve behind the horny ligament.

Gape : opening or gap at either end of the closed valves.

Hinge : top interlocking margin of the valves, usually with teeth.

Lateral tooth : hinge tooth situated before or behind the cardinal teeth and at greater distance from the umbo.

Ligament : an external or internal horny band, usually behind the beaks, holding the valves together or ajar.

Lunule : an arrow-shaped or heart-shaped impression on the valves just in front of the beaks.

Pallial sinus : an embayment or U-shaped curve in the pallial line.

Periostracum : an outer layer of thin or thick chitinous material covering the outer shell.

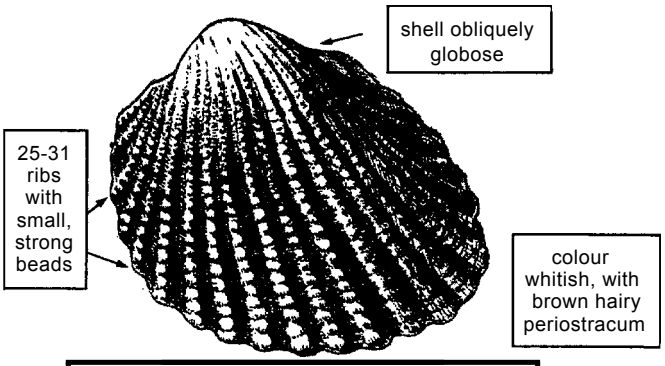
Radial : sculpture or colour rays running from the beaks to the lower margins of the valves, crossing the concentric sculpturing one of the main shelly halves of a bivalve.

Siphon : slits allowing the enterance of water (inhalant, ventral siphon) or its exit (exhalant, dorsal siphon).

Valve : one of the main shelly halves of a bivalve.

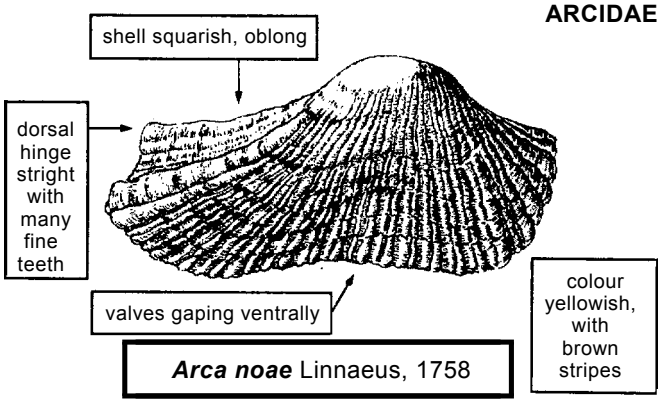
BIVALVES

ARCIDAE



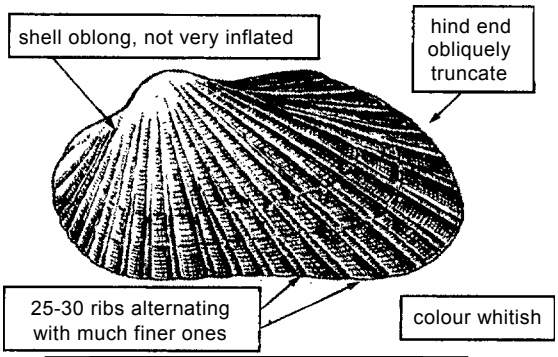
Anadara senegalensis (Gmelin, 1791)

FAO names : **En** - Senegal ark; **Fr** - Arche du Sénégal ; **Sp** - Arca de Senegal.
Size : 2.5 cm.
Habitat : intertidal.
Loc.name(s) :



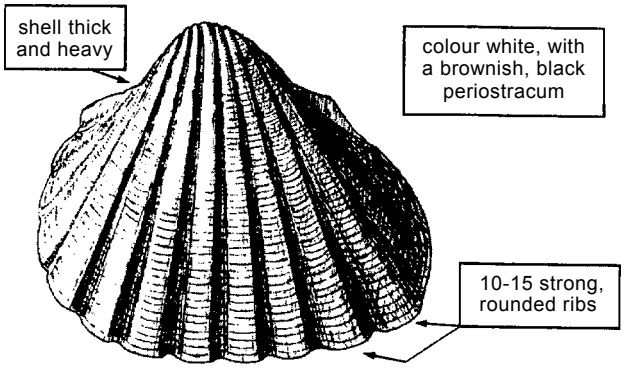
Arca noae Linnaeus, 1758

FAO names : **En** - Noah's ark; **Fr** - Arche de Noé ; **Sp** : Arca de Noé.
Size : 10 cm.
Habitat : offshore.
Loc.name(s) :



Noetia gambiensis (Reeve, 1844)

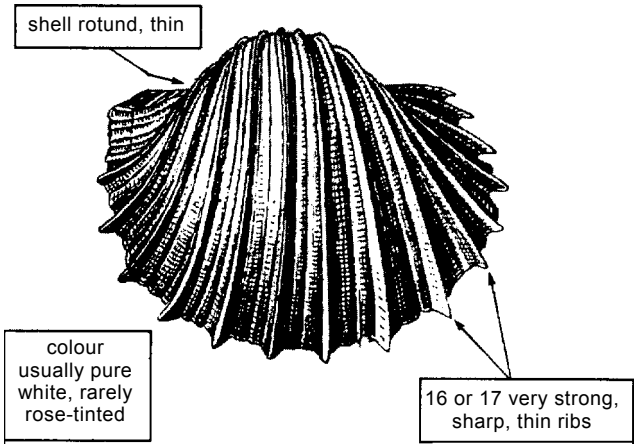
FAO names : **En** - Gambia ark; **Fr** - Arche de Gambie; **Sp** - Arca de Gambia.
Size : 4 cm.
Habitat : intertidal.
Loc.name(s) :



Senilia senilis (Linnaeus, 1758)

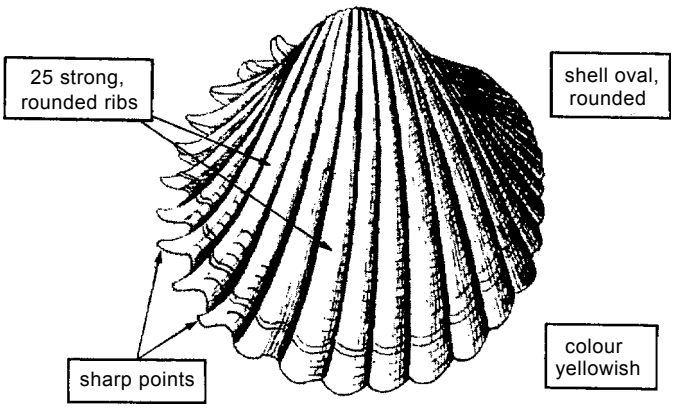
FAO names : **En** - Heavy African ark; **Fr** - Arche épaisse d'Afrique; **Sp** - Arca gruesa africana.
Size : 10 cm.
Habitat : intertidal.
Loc.name(s) :

CARDIIDAE



Cardium costatum Linnaeus, 1758

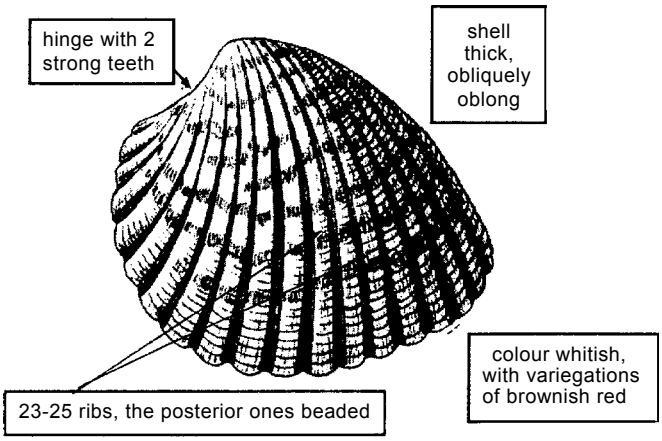
FAO names : **En** - Costate cockle; **Fr** - Bucarde à côtes; **Sp** - Berberecho acostillado.
Size : 11 cm.
Habitat : offshore waters.
Loc.name(s) :



Cardium ringens Bruguière, 1789

FAO names : **En** - Gaping cockle; **Fr** - Bucarde baillante; **Sp** - Arca boquiabierta.
Size : 4 cm.
Habitat : mostly offshore, but also in inshore waters.
Loc.name(s) :

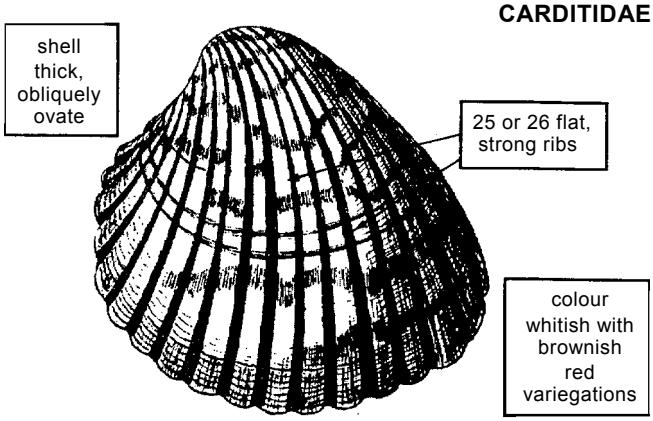
BIVALVES



Cardita ajar Bruguière, 1792

FAO names : **En** - Ajar cardita; **Fr** - Cardite ajar; **Sp** - Cardita ajar.
Size : 4 cm.
Habitat : intertidal
Loc.name(s) :

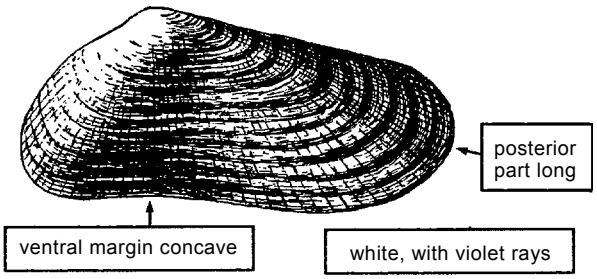
CARDITIDAE



Cardita tankervillei Wood, 1828

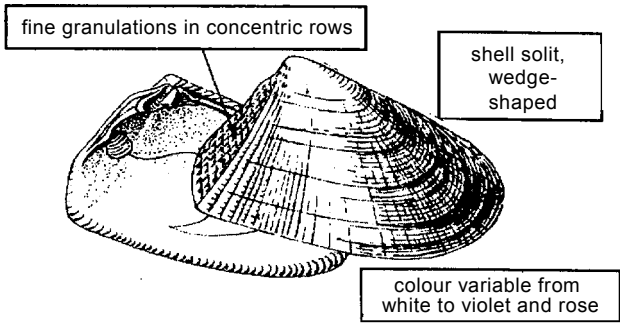
FAO names : **En** - Tankerville's cardita; **Fr** - Cardite de Tankerville; **Sp** - Cardita de Tankerville.
Size : 5.5 cm.
Habitat : intertidal.
Loc.name(s) :

DONACIDAE



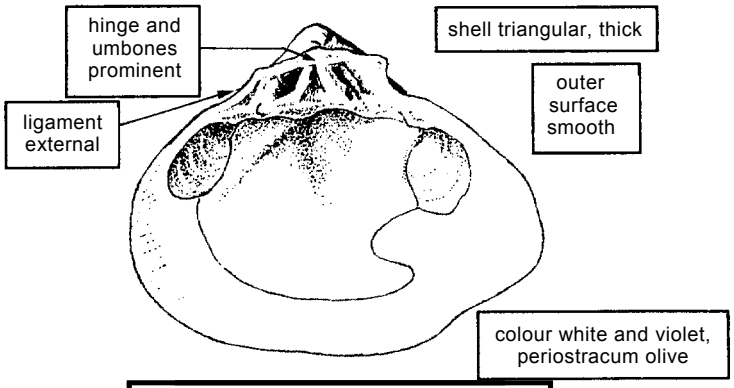
Donax pukhellus Hanley, 1843

FAO names : **En** - Beautiful donax; **Fr** - Flion mignonnet; **Sp** - Coquina bonita.
Size : 1.5 cm.
Habitat : found on beaches
Loc.name(s) :



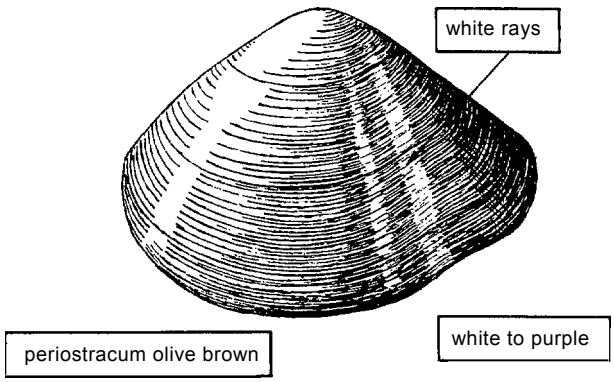
Donax rugosus Linnaeus, 1758

FAO names : **En** - Rugose donax; **Fr** - Flion rugueux; **Sp** - Coquina rugosa.
Size : 6 cm.
Habitat : abundant on beaches.
Loc.name(s) :



Galatea paradoxa (Born, 1778)

FAO names : **En** - Common galatea clam; **Fr** - Donace peigne; **Sp** - Almeja galatea.
Size : 9 cm.
Habitat : common in estuaries.
Loc.name(s) :

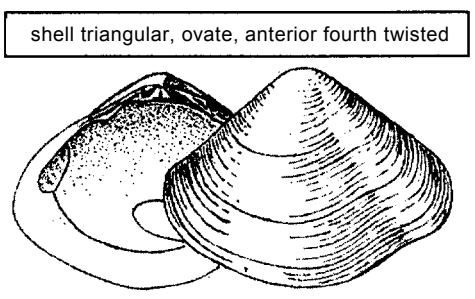


Iphigenia delesserti (Berbardi, 1860)

FAO names : **En** - Delessert's false donax; **Fr** - Flion de Delessert; **Sp** - Coquina de Delessert.
Size : 3 cm.
Habitat : common in infralittoral sandy bottoms.
Loc.name(s) :

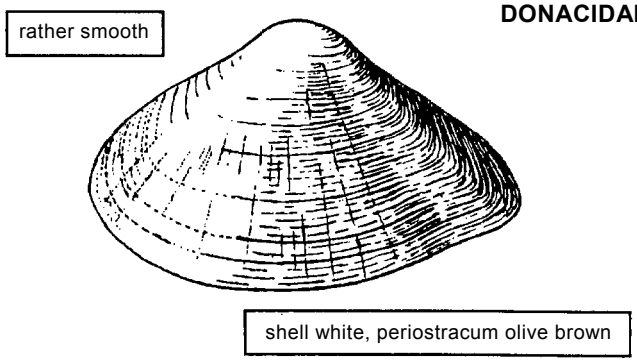
BIVALVES

DONACIDAE



Iphigenia laevigata (Gmelin, 1791)

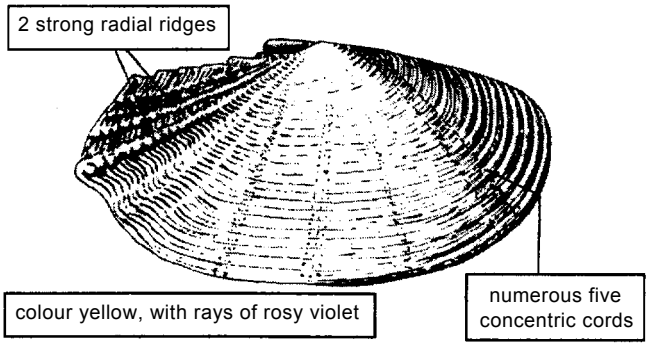
FAO names : **En** - Smooth false donax; **Fr** - Flion lisse; **Sp** - Coquina lisa.
Size: 7 cm.
Habitat : offshore, in sandy bottoms.
Loc.name(s) :



Iphigenia rostrata Römer, 1869

FAO names : **En** - Rostrate false donax; **Fr** - Donace à rostre; **Sp** - Coquina rostrata.
Size : 8 cm.
Habitat : offshore, in sandy bottoms
Loc.name(s) :

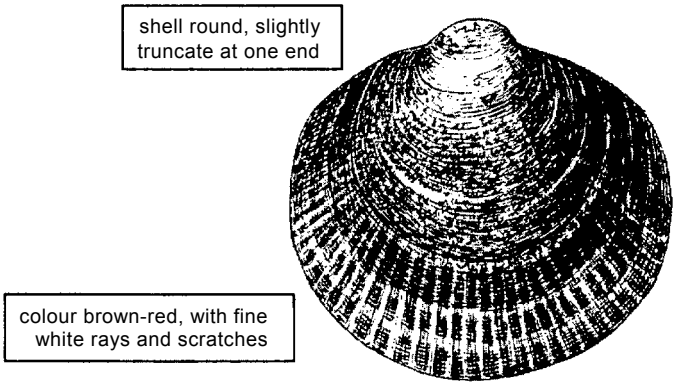
GARIDAE



Gari bornii (Gmelin, 1791)

FAO names : **En** - Faeroe gary; **Fr** - Psammobie boréale; **Sp** - Gario boreal.
Size : 6 cm
Habitat : in infralittoral sandy or muddy bottoms.
Loc.name(s) :

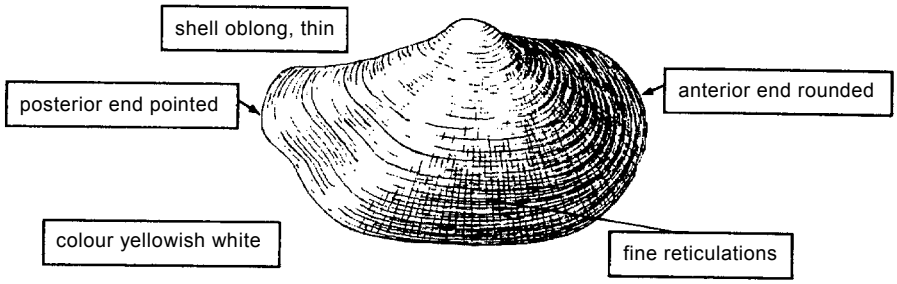
GLYCYMERIDAE



Glycymeris vovan Lamy, 1912

FAO names : **En** - : Vovan bittersweet; **Fr** - Amande vovan; **Sp** - Almendra vovania.
Size : 7 cm
Habitat : subtidal, in mud.
Loc. name(s) :

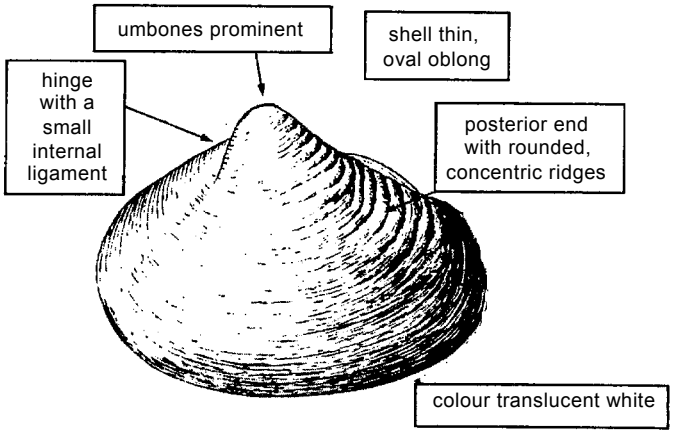
HIATELLIDAE



Panopea cancellata Swerby, 1873

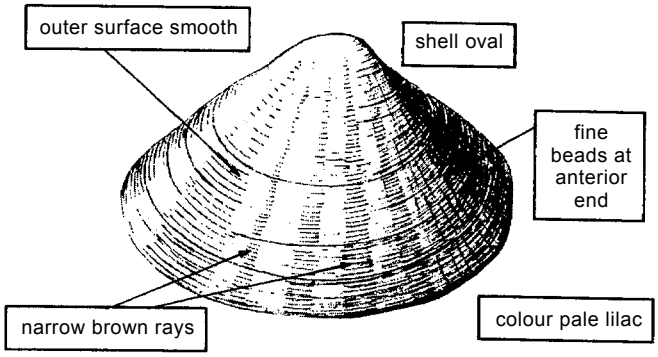
FAO names: **En** - Cancellate panope; **Fr** - Panopée quadrilée; **Sp** - Panopea cuadrilla.
Size : 12 cm.
Habitat : offshore, in sand.
Loc.name(s) :

MACTRIDAE



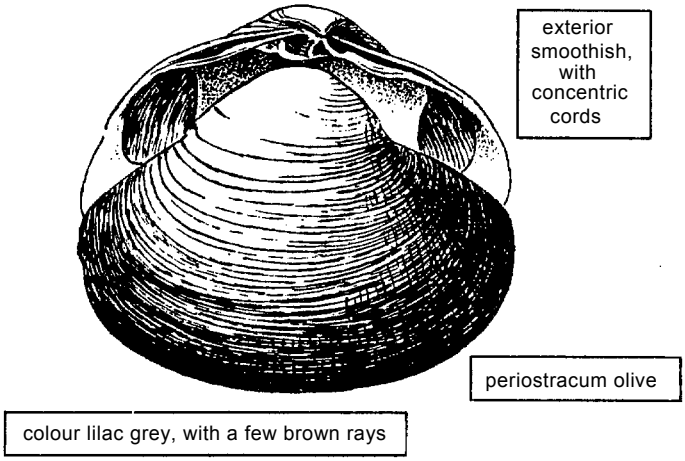
Labiosa vitrea Gray, 1837

FAO names : **En** - Glassy mactra; **Fr** - Mactre vitreuse; **Sp** - Mactra vítrea.
Size : 5 cm.
Habitat : offshore, in sand.
Loc.name(s) :



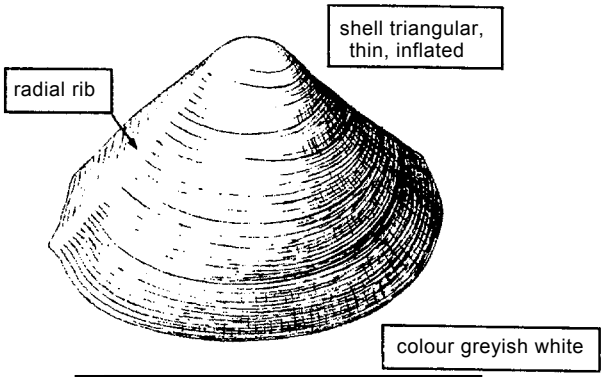
Mactra glabrata (Linnaeus, 1758)

FAO names : **En** - Smooth mactra; **Fr** - Mactre lisse; **Sp** - Mactra lisa.
Size : 5 cm.
Habitat : intertidal, in sandy bottoms.
Loc. name(s) :



Mactra largillierti Philippi, 1849

FAO names : **En** - Largilliert's mactra ; **Fr** - Mactre de Largilliert; **Sp** - Mactra de Largilliert.
Size : 8 cm.
Habitat : offshore waters, in sandy bottoms.
Loc.name(s) :



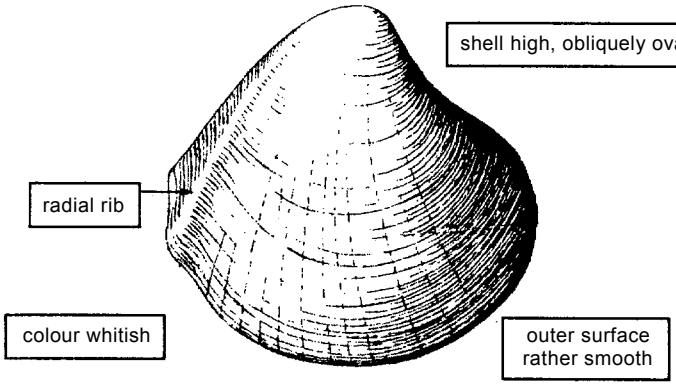
Mactra nitida Gmelin, 1791

FAO names : **En** - Polished mactra; **Fr** - Mactre polie; **Sp** - Mactra pulida.
Size : 4 cm.
Habitat : intertidal, in sandy bottoms.
Loc.name(s) :

next page

BIVALVES

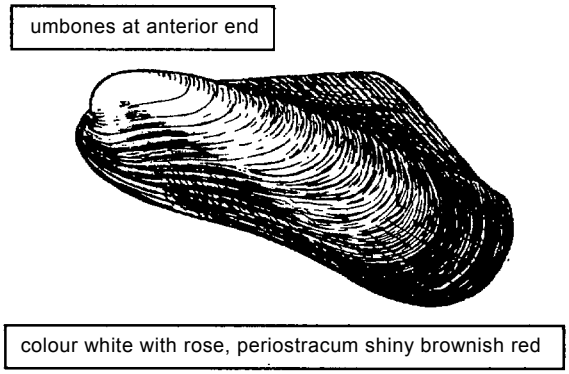
MACTRIDAE



Mactra rostrata Spengler, 1802

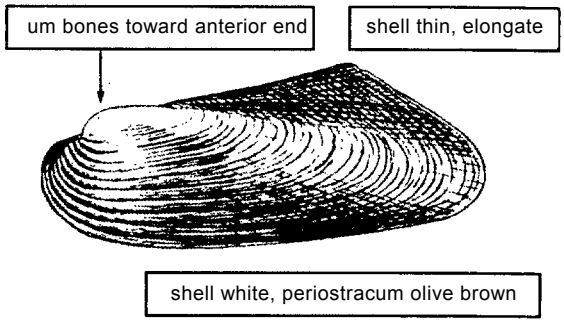
FAO names : **En** - Rostrate mactra; **Fr** - Mactre à rostre; **Sp** - Mactra puntiaguda.
Size : 6 cm.
Habitat : offshore waters, in sandy bottoms.
Loc.name(s) :

MYTILIDAE



Modilus nitens Carpenter, 1857

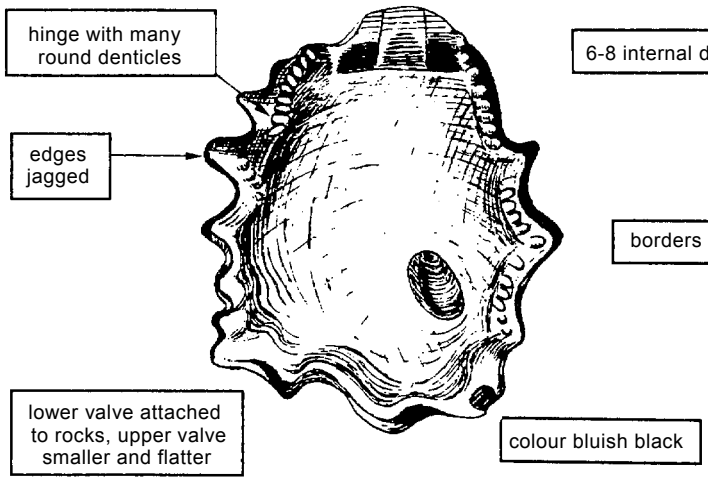
FAO names : **En** - Shiny mussel; **Fr** - Modiole lisse; **Sp** - Mejillón liso.
Size: 8 cm.
Habitat : shallow waters.
Loc.name(s) :



Modiolus rhomboideus Reeve, 1857

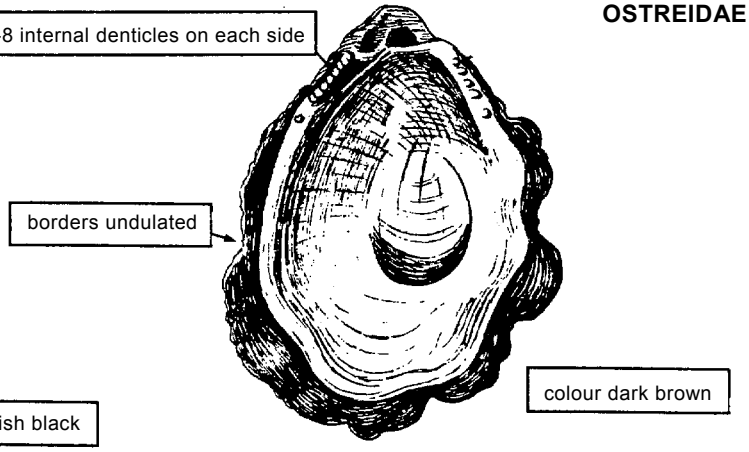
FAO names : **En** - Rhomboid mussel; **Fr** - Modiole losangique; **Sp** - Mejillón romboidal.
Size : 5 cm.
Habitat : offshore waters.
Loc.name(s) :

OSTREIDAE



Ostrea cucullata Born, 1778

FAO names : **En** - Cuculate rock oyster; **Fr** - Huître plate de l'Angola; **Sp** - Ostión cucullado.
Size : 8 cm.
Habitat : intertidal zone, attached to rocks.
Loc.name(s) :

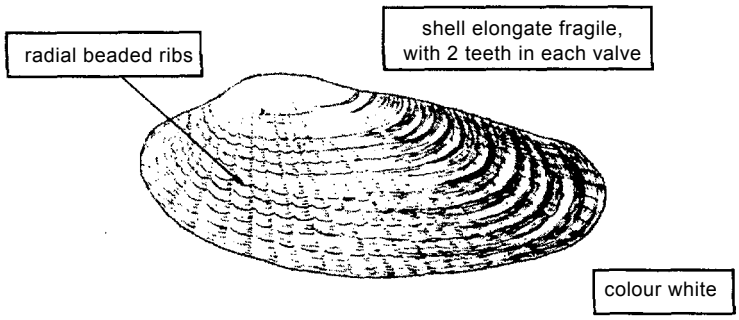


Ostrea denticulata Born, 1778

FAO names : **En** - Denticulate rock oyster; **Fr** - Huître plate de Guinée; **Sp** - Ostión denticulado.
Size : 20 cm.
Habitat : intertidal zone, fixed to rocks.
Loc.name(s) :

BIVALVES

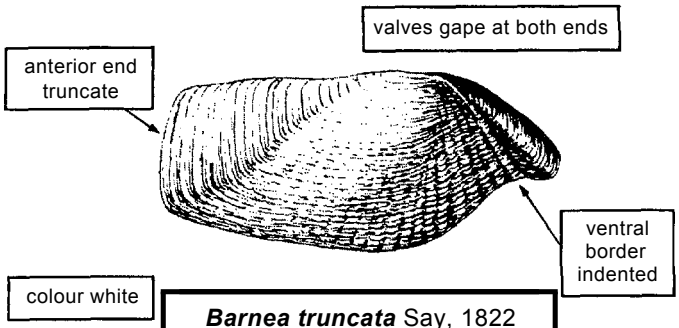
PETRICOLIDAE



Petricola pholadiformis Lamarck, 1818

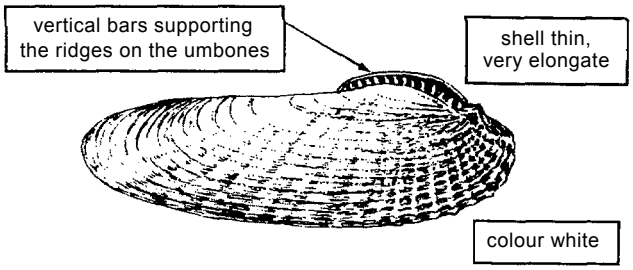
FAO names : **En** - False angel wing; **Fr** - Fausse aile d'ange; **Sp** - Falso ala de ange
Size : 4 cm
Habitat : intertidal zone
Loc.name(s) :

PHOLADIDAE



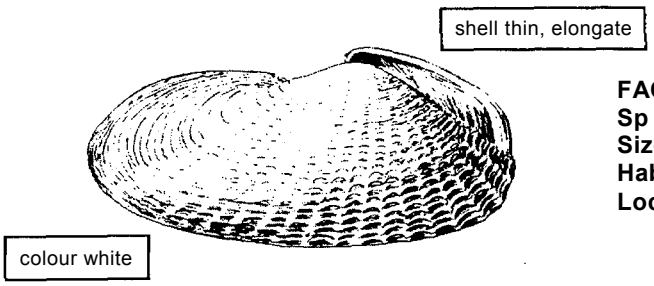
Barnea truncata Say, 1822

FAO names : **En** - Truncate barnea; **Fr** - Pholade tronquée; **Sp** - Barnea troncada.
Size : 5 cm.
Habitat : intertidal zone, common in peat and clay bottoms.
Loc.name(s) :



Pholas campechiensis (Gmelin, 1791)

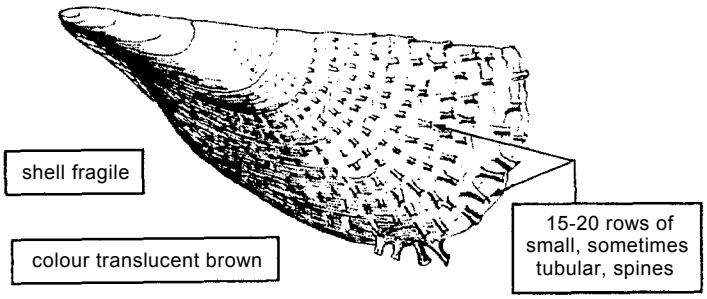
FAO names : **En** - Campechee pholad; **Fr** - Pholade de Campeche; **Sp** - Ala de angel campechano.
Size : 9 cm
Habitat : infralittoral zone, burrows in mud bottoms.
Loc.name(s) :



Talona explanata (Spengler, 1792)

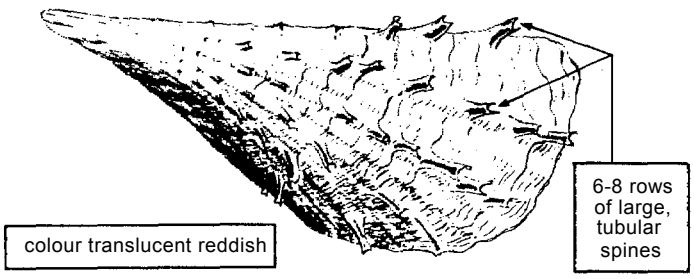
FAO names : **En** - Talona pholad; **Fr** - Pholade taloné; **Sp** -Talona.
Size : 6 cm.
Habitat : subtidal zone, in mud bottoms.
Loc.name(s) :

PINNIDAE



Atrina chautardi Nicklés, 1953

FAO names : **En** - Chautard's pen shell ; **Fr** -Jambonneau de Chautard ; **Sp** - Pina de Chautard.
Size : 20 cm.
Habitat : in sandy bottoms.
Loc.name(s) :

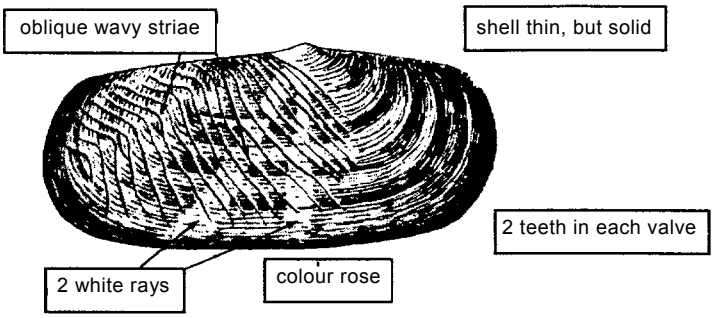


Pinna rudis (Linnaeus, 1758)

FAO names : **En** - Rough pen shell; **Fr** - Jambonneau rude; **Sp** - Pina áspera.
Size : 40 cm.
Habitat : infralittoral zone, buried in sand.
Loc.name(s) :

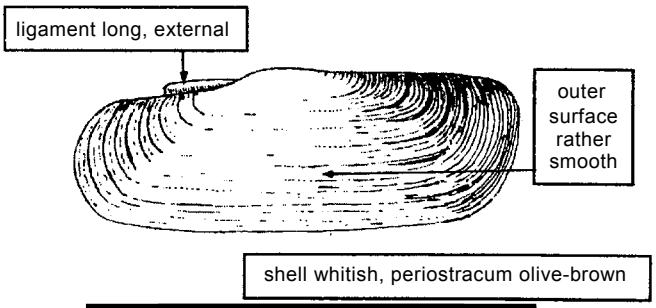
BIVALVES

SOLECURTIDAE



Solecurtus strigilatus (Linnaeus, 1758)

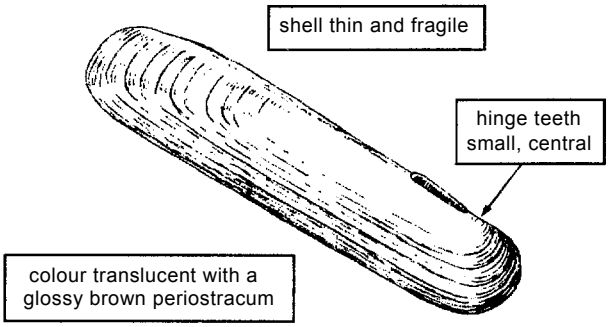
FAO names : **En** - Rasp tagelus; **Fr** - Solecurte rosé; **Sp** - Mango de cuchillo.
Size : 8 cm.
Habitat : infralittoral zone, in sandy bottoms.
Loc.name(s) :



Tagelus adansonii (Sosc, 1801)

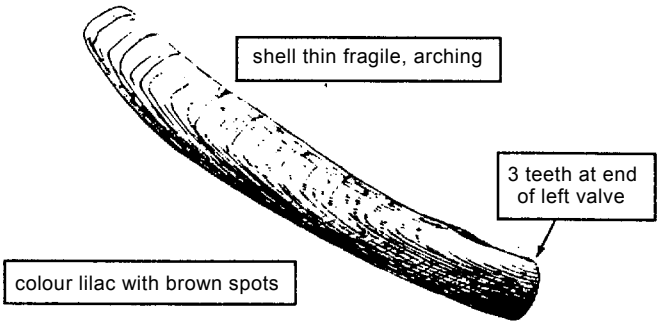
FAO names : **En** - Adanson's tagelus ; **Fr** - Tagelus d'Adanson; **Sp** - Tagelo de Adanson.
Size : 7 cm.
Habitat : estuaries, in muddy bottoms.
Loc.name(s) :

SOLENIDAE



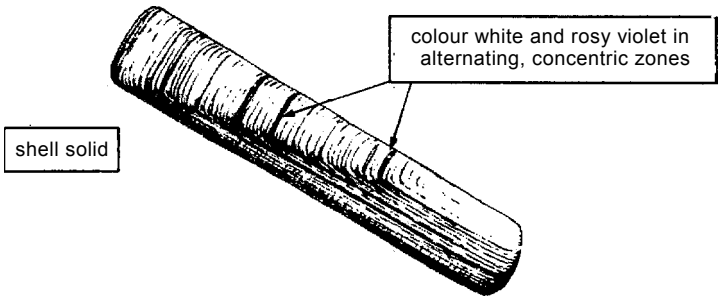
Cultellus tenuis Griffith & Pidgeon, 1834

FAO names : **En** - African knife shell; **Fr** - Petit couteau africain; **Sp** - Navaja africana.
Size: 7 cm.
Habitat : offshore waters, in sandy bottoms.
Loc.name(s) :



Ensis goreensis Clessin, 1888

FAO names : **En** - Goree razor clam; **Fr** - Couteau de Gorée; **Sp** - Navaja de Gorea.
Size : 7 cm.
Habitat : subtidal, in sandy bottoms.
Loc.name(s) :

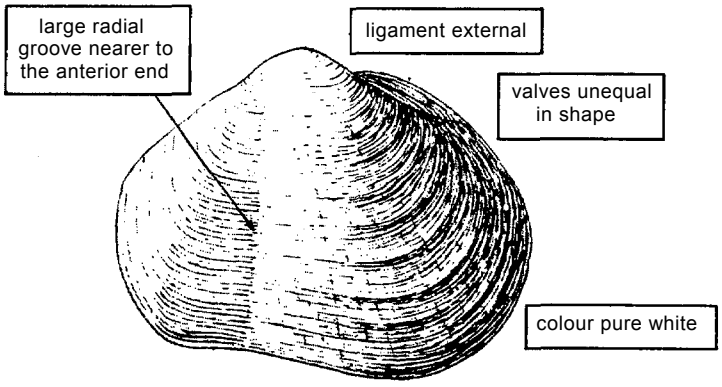


Solen guinensis Hanley, 1842

FAO names : **En** - Guinea razor shell; **Fr** - Couteau de Guinée; **Sp** - Longueirón de Guinea.
Size : 8 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :

next page

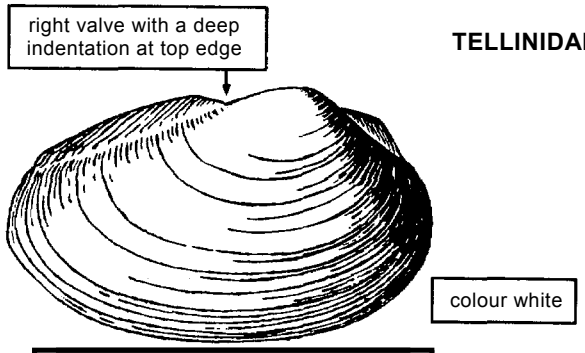
BIVALVES



Apolymetis papyracea (Gmelin, 1791)

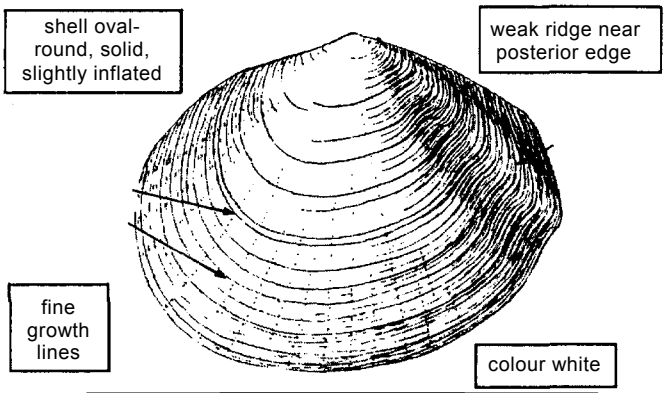
FAO names : **En** - Paper tellin; **Fr** - Tel line papier; **Sp** - Telina papírácea.
Size : 9 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :

TELLINIDAE



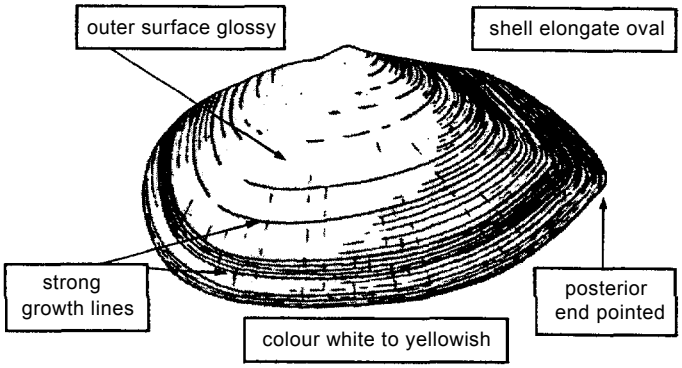
Tellina hyalina Gmelin, 1791 *

FAO names : **En** - Hyalinetellin; **Fr** - Telline hyaline; **Sp** - Telina hialina.
Size : 7 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :



Tellina senegambiensis Salisbury, 1934

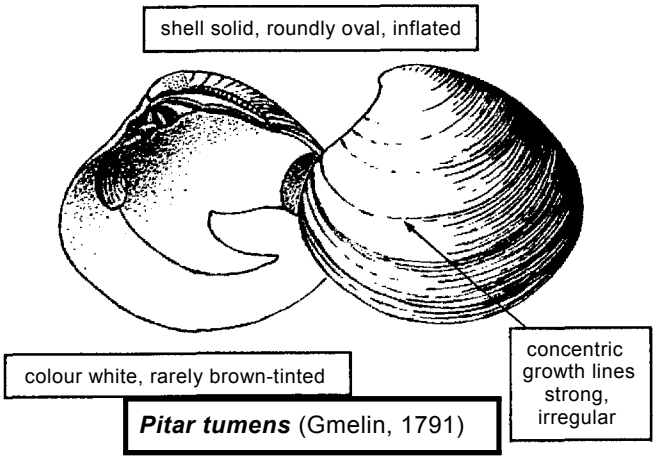
FAO names : **En** - Senegambian tellin; **Fr** - Telline de Sénégambie ; **Sp** - Telina de Senegambia.
Size : 7 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :



Tellina strigosa Gmelin, 1791 *

FAO names : **En** - Thin tellin; **Fr** - Telline jaunâtre; **Sp** - Telina delgada.
Size : 7 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :

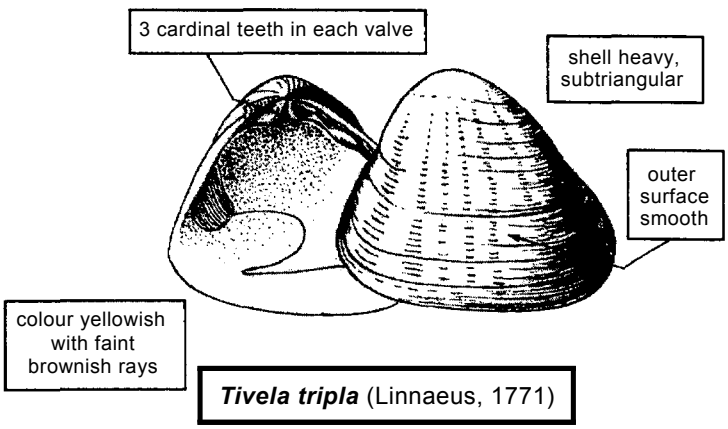
* A similar species, *Tellina madagascariensis* Gmelin, 1791, found from Congo to Angola, may also occur in the southern part of the Gulf of Guinea. It is distinguished from T. hyalina and T. strigosa by its rose colour and greater length (9 cm).



Pitar tumens (Gmelin, 1791)

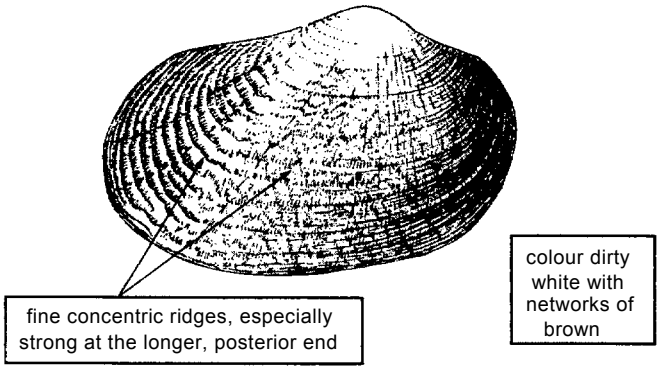
FAO names : **En** - Swollen venus; **Fr** - Venus bombée; **Sp** - Almeja bombacha.
Size : 6 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :

VENERIDAE



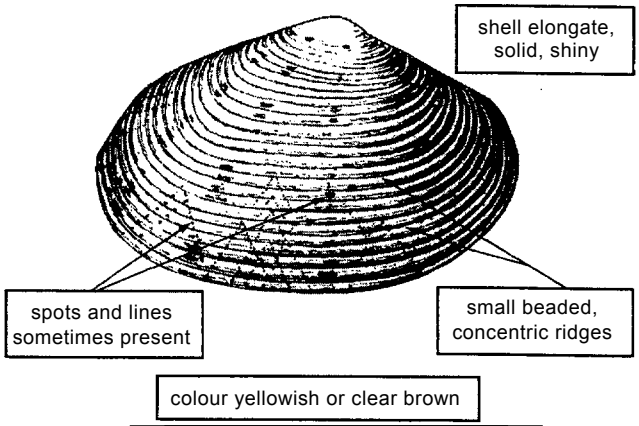
Tivela tripla (Linnaeus, 1771)

FAO names : **En** - Triple venus; **Fr** - Vénus triple; **Sp** - Tivela triple.
Size : 3 cm.
Habitat : offshore waters, in sandy bottoms.
Loc.name(s) :



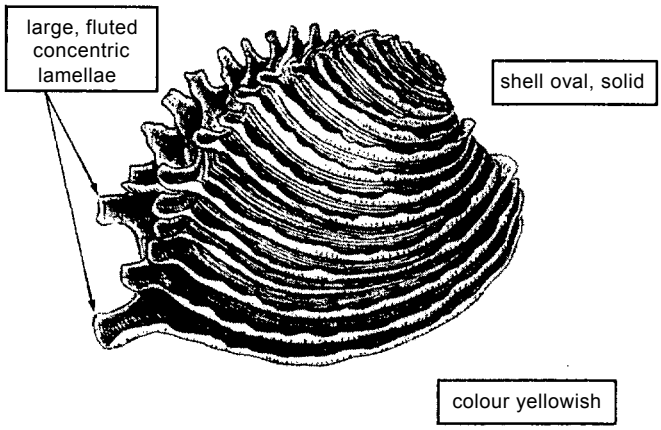
Venerupis corrugata (Gmelin, 1791)

FAO names : **En** - Corrugated venus; **Fr** - Clovisse ridée; **Sp** - Margarita arrugada.
Size : 4 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :



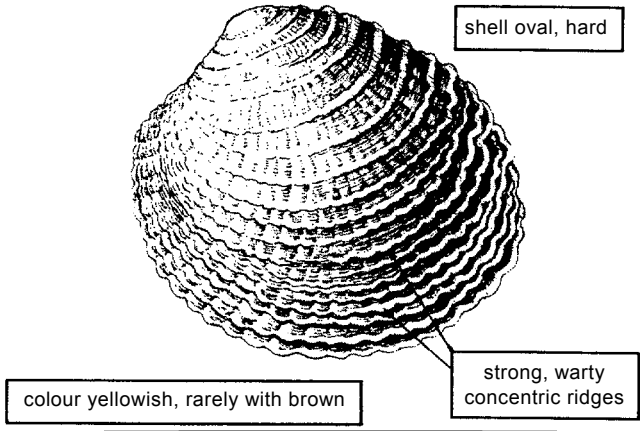
Venerupis dura (Gmelin, 1791)

FAO names : **En** - Durable venus; **Fr** - Clovisse durable; **Sp** - Margarita dura.
Size : 7 cm.
Habitat : offshore to 40 m depth, in sandy bottoms.
Loc.name(s) :



Venus foliaceolamellosa Ramer, 1865

FAO names : **En** - Plicate venus; **Fr** - Praire ondulée; **Sp** - Venus plegada.
Size : 7 cm.
Habitat : in sandy bottoms.
Loc.name(s) :



Venus verrucosa Linnaeus, 1758

FAO names : **En** - Warty venus; **Fr** - Praire commune; **Sp** - Escupiña grabada.
Size : 5 cm.
Habitat : intertidal zone, in sandy bottoms.
Loc.name(s) :

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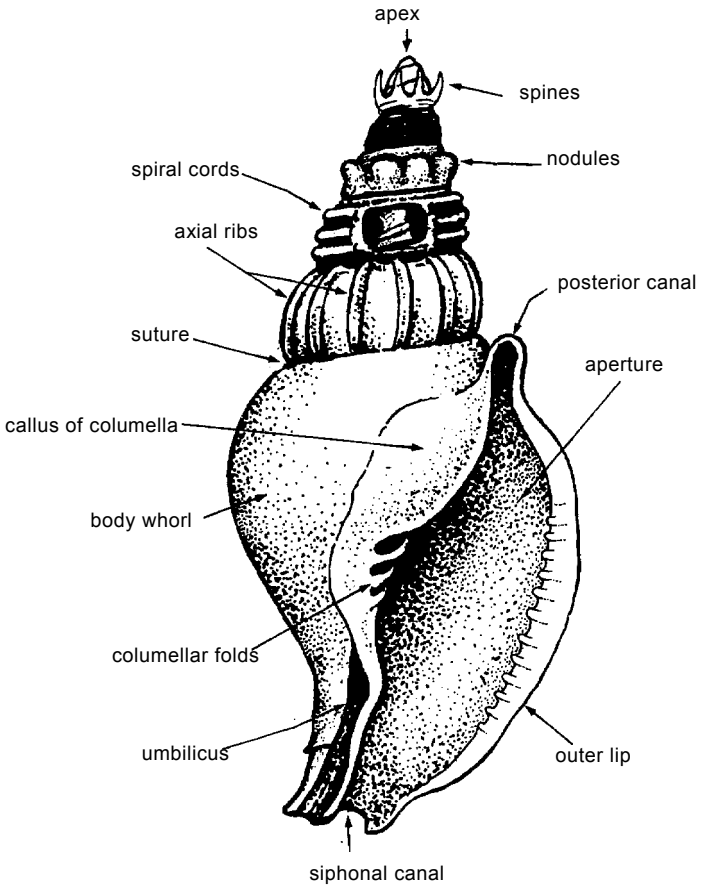
GASTROPODS

(Class Gastropoda - univalves, conches, whelks, etc.)

TECHNICAL TERMS AND GENERAL REMARKS

Gastropod Features



Glossary of Gastropod Terms

Aperture : the opening in the last whorl, providing an outlet for the head and foot.

Axial sculpture : ribs or growth lines that run parallel to the outer lip.

Operculum : a "trapdoor" grown on the posterior upper part of the foot of a snail. It may be hard and shelly or pliable and made of chitinous, or horny, material.

Periostracum : an outer layer of thin or thick chitinous material covering the outer shell. Sometimes with bristles or hairs.

Radula (plural - radulae) : microscopic hard teeth on a moveable ribbon in the mouth of molluscs, other than bivalves.

Spiral sculpture : cords or threads that encircle the whorls parallel to the sutures.

Spire : the whorls at the top, narrow end, where growth began.

Suture : continuous line on shell surface where the whorls join.

Umbilicus : a central cavity at the base or bottom of the shell.

Whorl : a turn or coil of a snail shell. The body whorl is the last and largest.

GASTROPODS

Even though the gastropod. fauna taken in the various fishing operations is highly diversified, the present guide shows only edible species that are known to be found in markets, or those that may be considered of definity potential interest to fisheries.

CASSIDAE

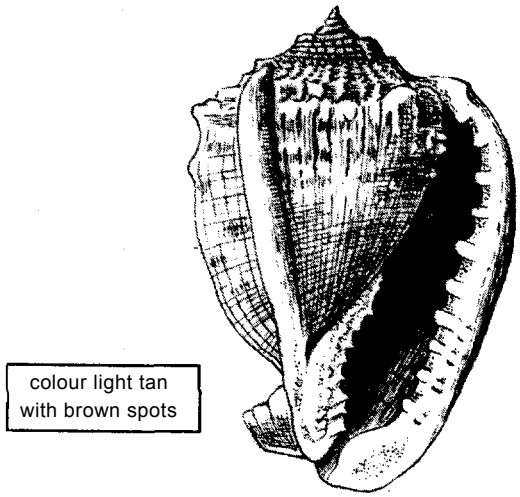
Cassis tessellata (Gmelin, 1791)

FAO names : **En** - Tessellate helmet**; Fr** - Casque à damier; **Sp** - Casco teselado.

Size : 26 cm

Habitat : in sandy bottoms from 1 to 50 m depth; rather common

Loc.name(s) :



CREPIDULIDAE

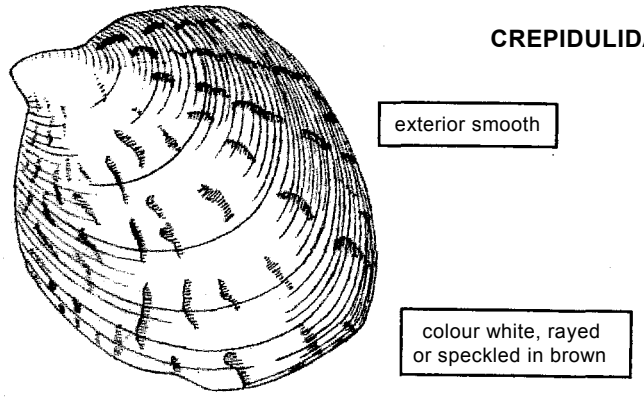
Crepidula goreensis (Gmelin, 1791)

FAO names : **En** - Goree slipper shell; **Fr** - Crépidule sandale; **Sp** - Concha sandalia.

Size : 4 cm.

Habitat : attached to other shells.

Loc.name(s) :



CYMATIIDAE

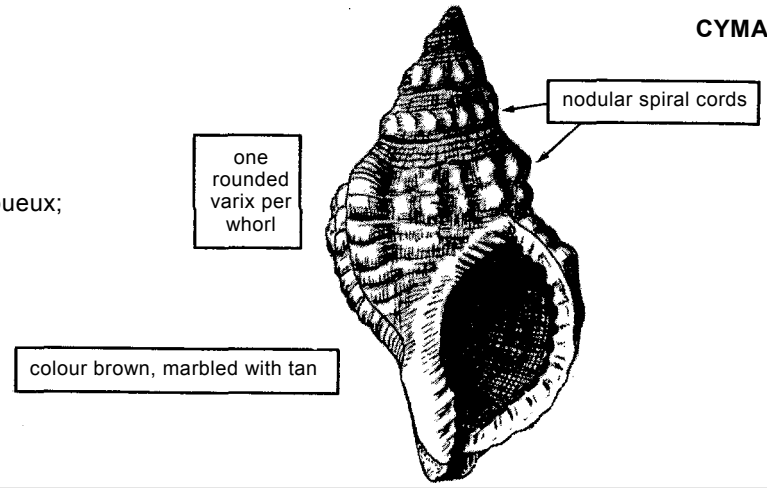
Charonia nodifera (Lamarck, 1816)

FAO names : **En** - Knobby triton; **Fr** - Triton noueux; **Sp** - Tritón buido.

Size : 30 cm

Habitat : coastal waters to 20 m depth.

Loc.name(s) :



FISSURELLIDAE

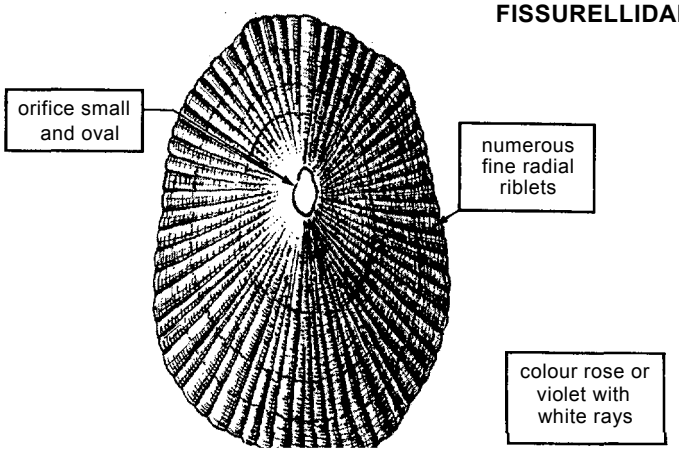
Fissurela nubecula (Linnaeus, 1758)

FAO names : **En** - Cloudy keyhole limpet; **Fr** - Fissurelle nuageuse; **Sp** - Fisurela nebulosa.

Size : 2.5 cm.

Habitat : on rocks exposed by the low tide.

Loc.name(s) :



GASTROPODS

HALIOTIDAE

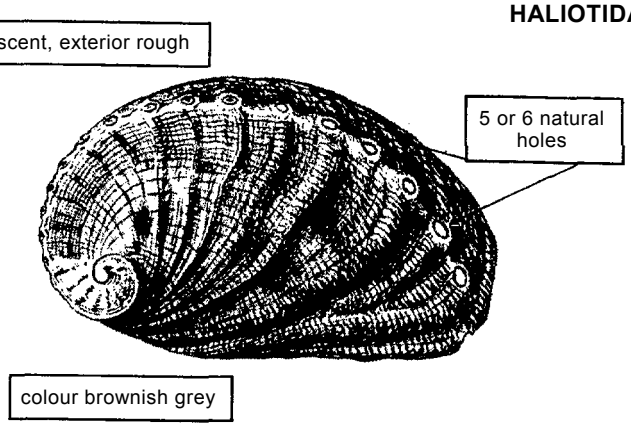
Haliotis tuberculata Linnaeus, 1758

FAO names : **En** - Tuberculate abalone; **Fr** - Ormeau tuberculeux; **Sp** - Oreja de mar.

Size : 8 cm.

Habitat : on rocks offshore.

Loc.name(s) :



MELONGENIDAE

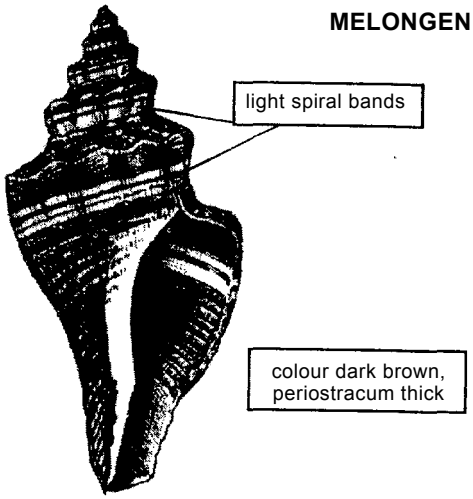
Pugilina morio (Linnaeus, 1758)

FAO names : **En** - Giant hairy melongena; **Fr** - Mélongène noire; **Sp** - Melongena negra.

Size : 15 cm.

Habitat : in mangrove areas.

Loc.name(s) :



MURICIDAE

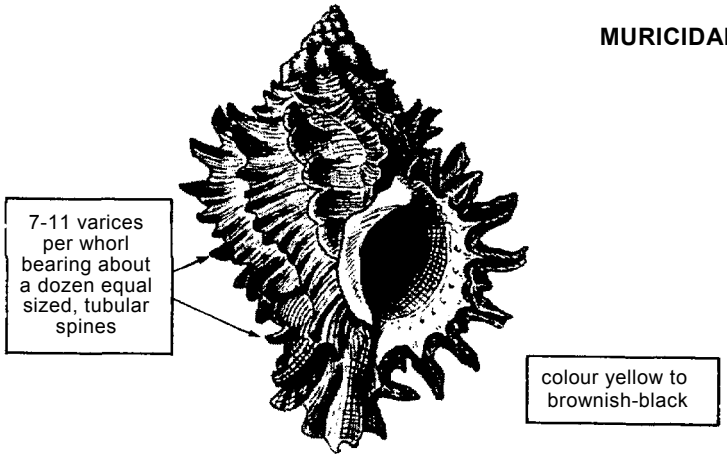
Murex angularis Lamarck, 1822

FAO names : **En** - Angular murex; **Fr** - Rocher anguleux; **Sp** - Cañailla africana.

Size : 5 cm.

Habitat : common among offshore rocks.

Loc.name(s) :



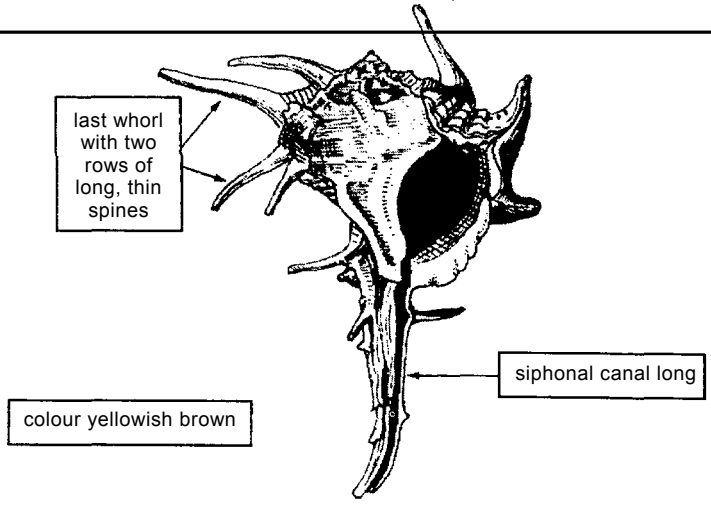
Murex cornutus Linnaeus, 1758

FAO names : **En** - Horned murex; **Fr** - Rocher cornu; **Sp** - Cañailla cornuda.

Size : 15 cm.

Habitat : among offshore rocks.

Loc.name(s) :



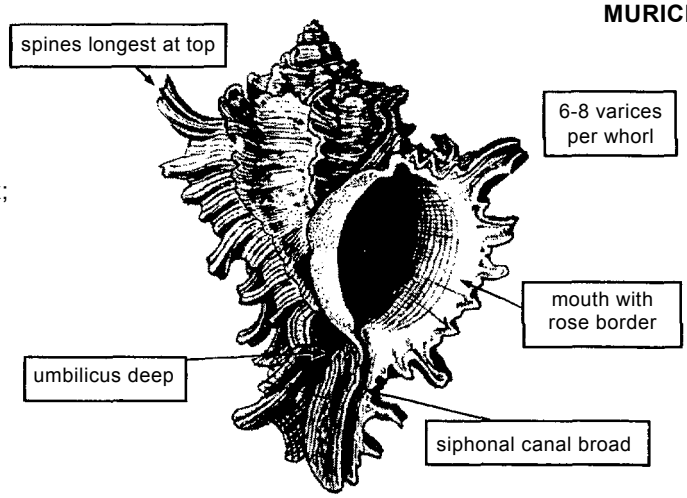
Murex duplex Röding, 1789

FAO names : **En** - Duplex murex; **Fr** - Rocher duplex; **Sp** - Cañailla espinuda.

Size : 20 cm.

Habitat : offshore, among rocks.

Loc.name(s) :



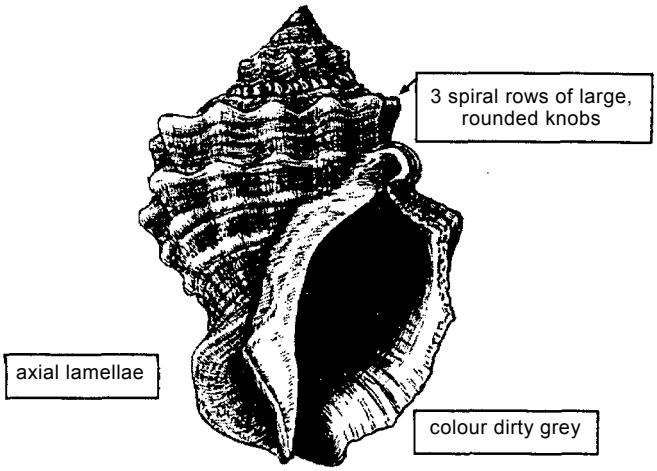
Thais coronata (Lamark, 1816)

FAO names : **En** - Crowned rock shell; **Fr** - Ovarque couronnée; **Sp** - Púrpura coronada .

Size : 4 cm.

Habitat : common in mangrove areas.

Loc.name(s) :



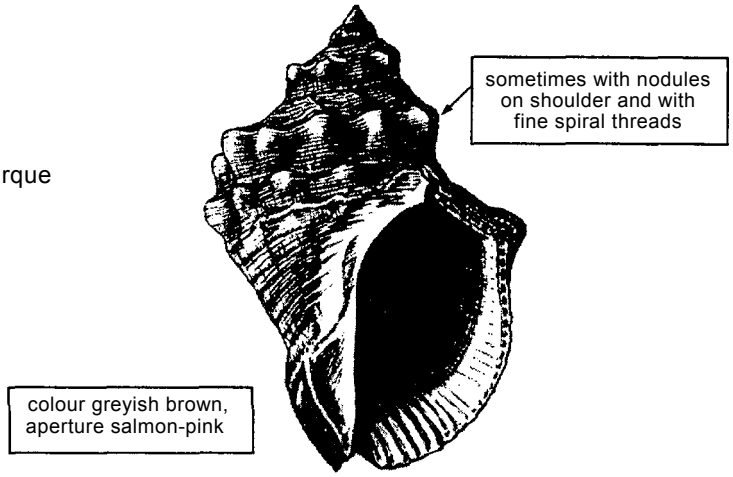
Thais haemastoma (Lama rck, 1822)

FAO names : **En** - Red-mouthed rock shell; **Fr** - Ovarque bouche de sang; **Sp** - Boca roja.

Size : 6 cm.

Habitat : subtidal zone, on rocks.

Loc.name(s) :



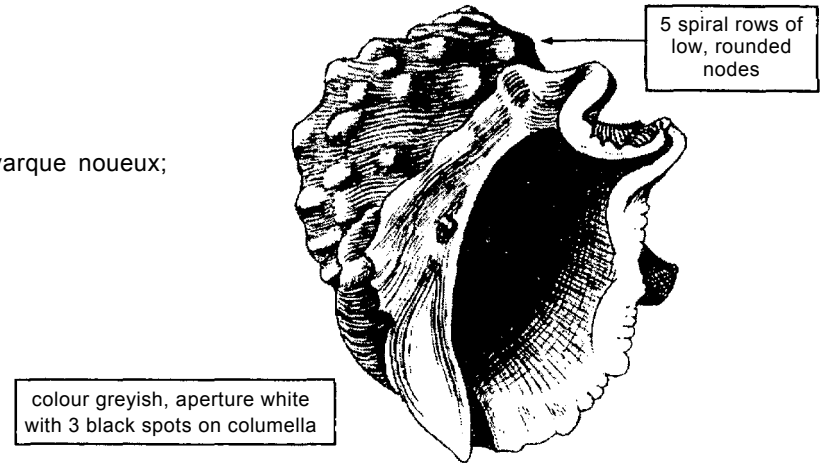
Thais nodosa (Linnaeus, 1758)

FAO names : **En** - Nodose rock shell; **Fr** - Ovarque noueux; **Sp** - Púrpura nudosa.

Size : 5 cm.

Habitat : below the intertidal zone, on rocks.

Loc.name(s) :



GASTROPODS

NASSARIIDAE

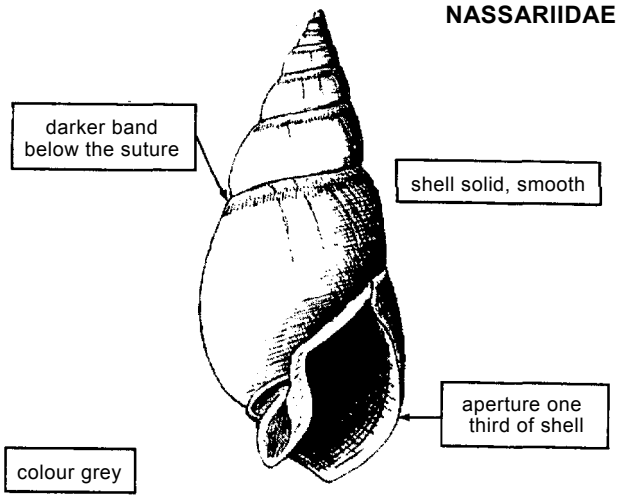
Bullia miran (Bruguière, 1789)

FAO names : **En** - Miran bullia; **Fr** - Bullie de miran; **Sp** - Bulia de Mirán.

Size : 2.5 cm.

Habitat : intertidal zone, in sandy mud bottoms.

Loc.name(s) :



NATICIDAE

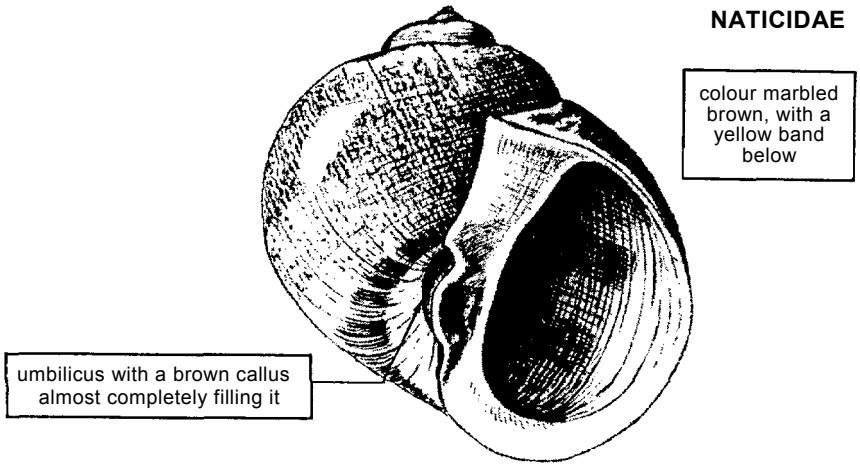
Natica adansoni Blainville, 1825

FAO names : **En** - Adanson's moon snail; **Fr** - Natice d'Adanson; **Sp** - Nática de Adanson.

Size : 3 cm.

Habitat : intertidal zone, on sand.

Loc.name(s) :



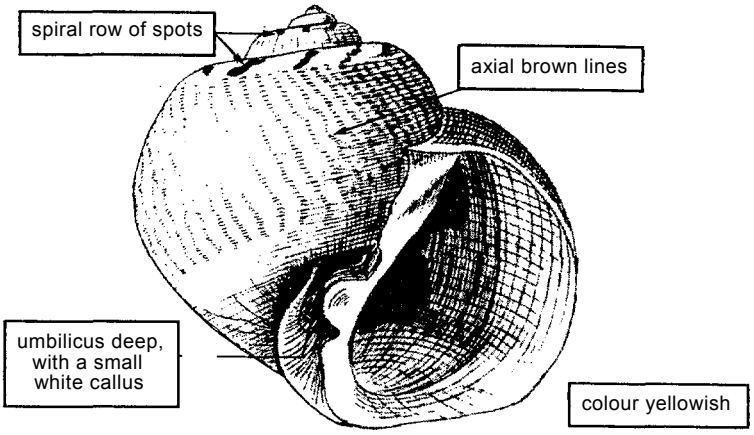
Natica collaris Link, 1807

FAO names : **En** - Collar moon snail; **Fr** - Natice à collet; **Sp** - Nática engolada.

Size : 3 cm.

Habitat : below the intertidal zone, on sand.

Loc.name(s) :



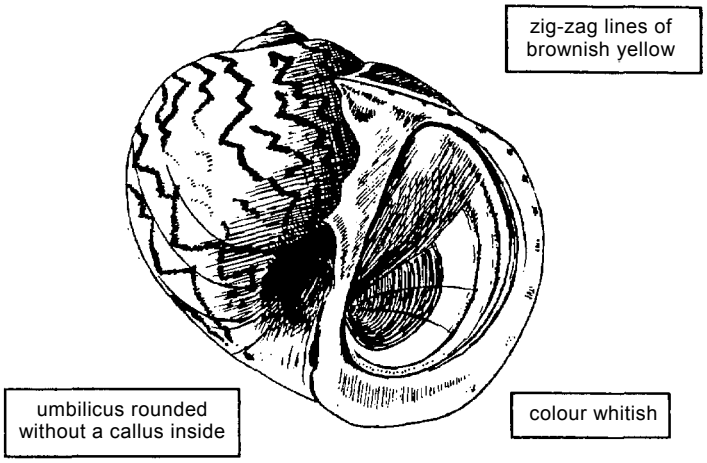
Natica fulminea (Gmelin, 1791)

FAO names : **En** - Flamed moon snail; **Fr** - Natice flammée; **Sp** - Nática flamante.

Size : 3.5 cm.

Habitat : intertidal zone, on sand.

Loc.name(s) :



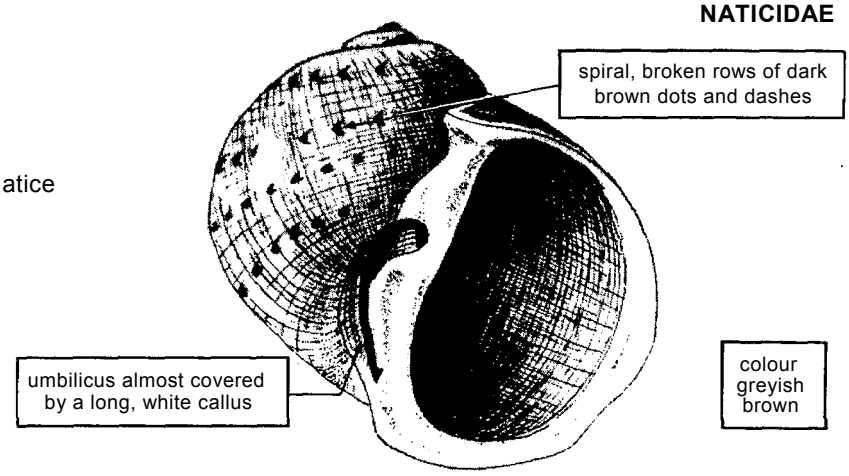
Natica marochiensis (Gmelin, 1791)

FAO names : **En** - Morocco moon snail; **Fr** - Natice du Maroc; **Sp** - Nática marroquí.

Size : 2.5 cm.

Habitat : intertial zone, on sand.

Loc.name(s) :



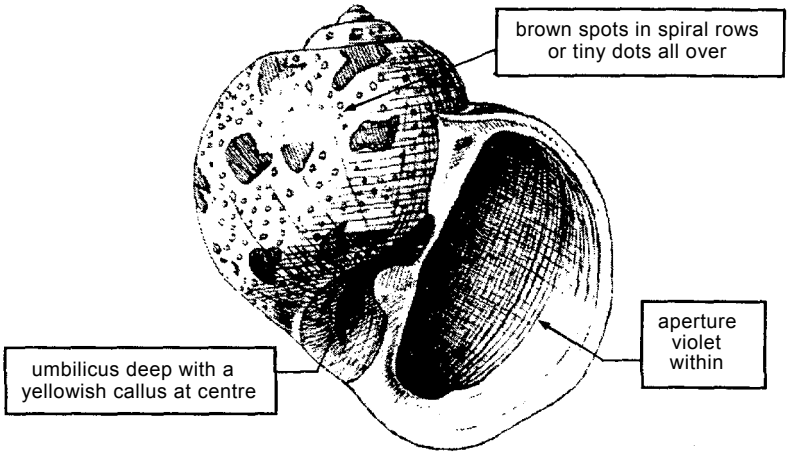
Natica tigrina (Röding, 1798)

FAO names : **En** - Tiger moon snail; **Fr** - Natice tigrée; **Sp** - Nática atigrada.

Size : 3.5 cm.

Habitat : intertidal zone, on sand.

Loc.name(s) :



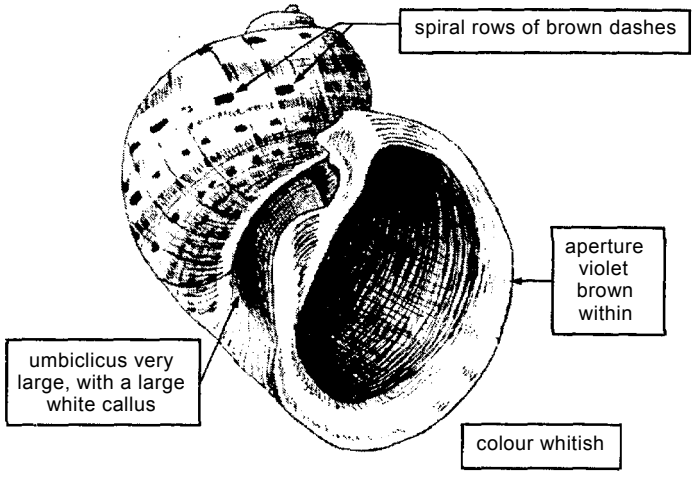
Natica turtoni E.A. Smith, 1890

FAO names : **En** - Turton's moon snail; **Fr** - Natice de Turton; **Sp** - Nática de Turton.

Size : 3 cm

Habitat : .intertidal zone, on sand.

Loc.name(s) :



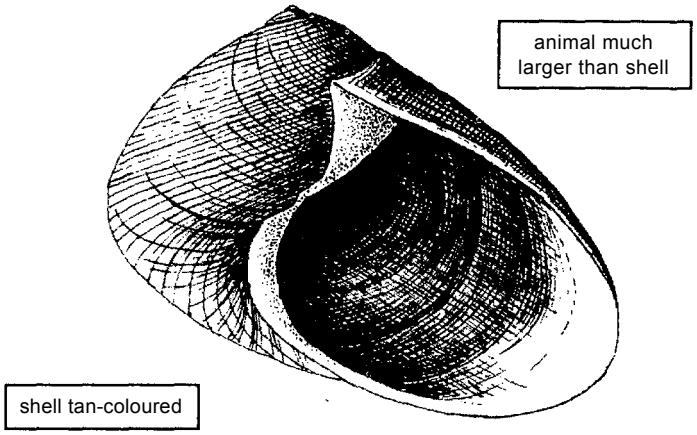
Sinum concavum (Lamarck, 1822)

FAO names : **En** - Concave baby's car; **Fr** - Natice concave; **Sp** - Sigarita cóncava.

Size : 4.5 cm.

Habitat : intertidal zone, in sandy bottoms.

Loc.name(s) :



GASTROPODS

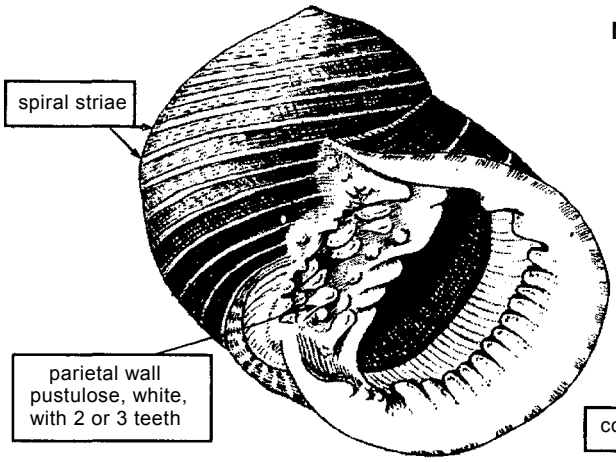
NERITIDAE

Nerita senegalensis (Gmelin, 1791)

FAO names : **En** - Senegal nerite; **Fr** - Nérite du Sénégal; **Sp** - Nerita senegalesa.

Size : 5 cm.

Habitat : intertidal zone, on rocks.
Loc.name(s) :



PATELLIDAE

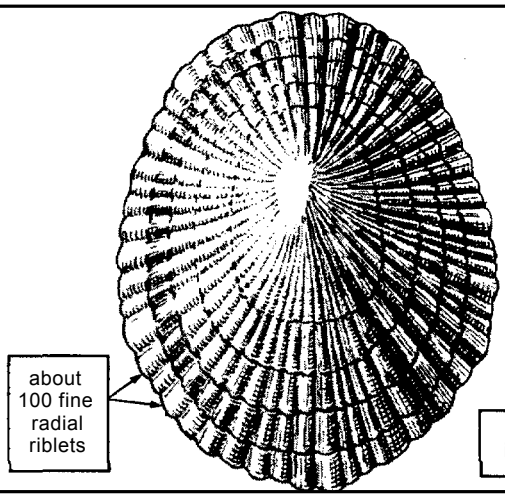
Patella safiana Lamarck, 1819

FAO names : **En** - Safian limpet; **Fr** - Patelle safian; **Sp** - Lepada safiana.

Size : 11 cm.

Habitat : intertidal zone, fixed to rocks.

Loc.name(s) :



STROMBIDAE

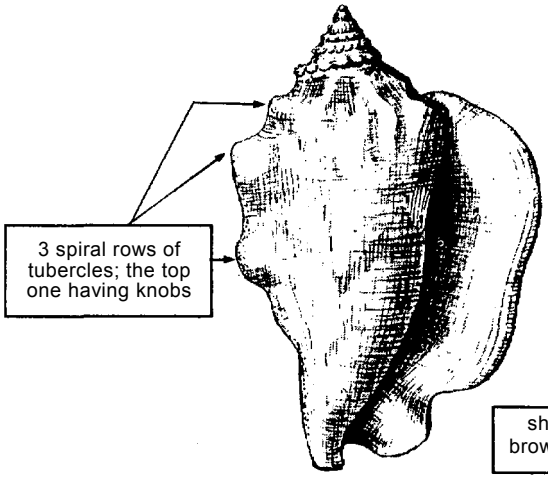
Strombus latus Gmelin, 1791

FAO names : **En** - West African stromb; **Fr** - Strombe d'Afrique occidentale; **Sp** - Cobo de Africa occidental.

Size : 14 cm.

Habitat : coastal waters to 10 m depth.

Loc.name(s) :



VOLUTIDAE

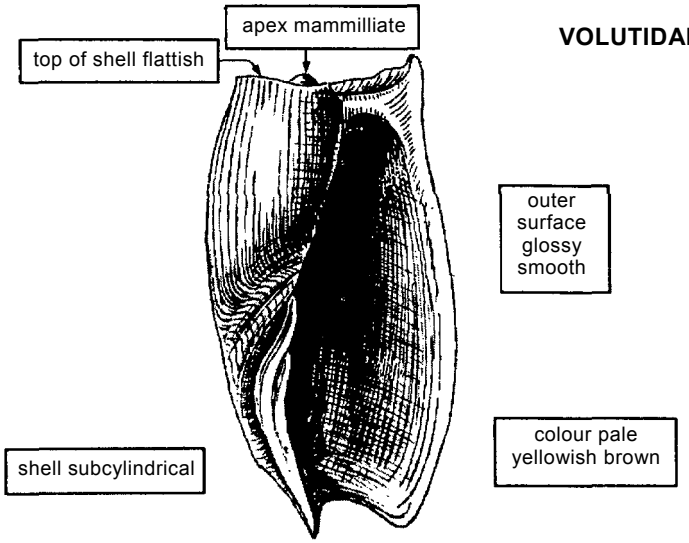
Cymbium cymbium (Linnaeus, 1758)

FAO names : **En** - Pig's snout volute; **Fr** - Volute trompe de cochon; **Sp** - Voluta trompa de cerdo.

Size : 15 cm.

Habitat : offshore waters, on sand.

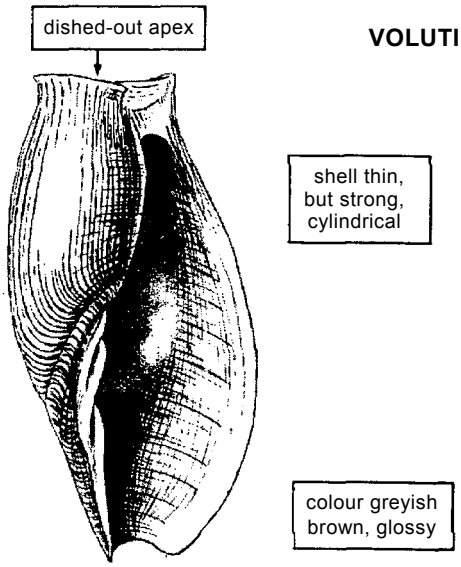
Loc.name(s) :



GASTROPODS

VOLUTIIDAE

Cymbium glans (Gmelin, 1791)



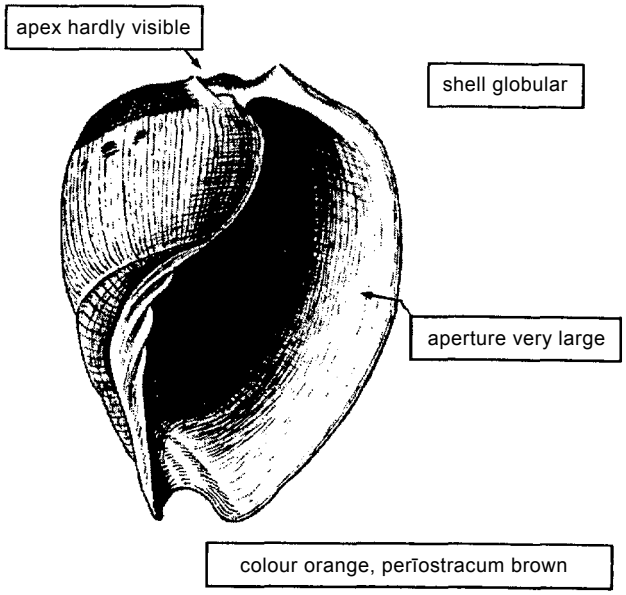
FAO names : **En** - Elephant's snout volute; **Fr** -Volute trompe d'éléphant; **Sp** - Voluta trompa de elefante.

Size : 35 cm.

Habitat : offshore waters, on sand.

Loc.name(s) :

Cymbium pepo (Lightfood, 1786)



FAO names : **En** - Neptune's volute; **Fr** - Volute Neptune; **Sp** - Voluta de Neptuno.

Size : 27 cm.

Habitat : offshore waters, on sand.

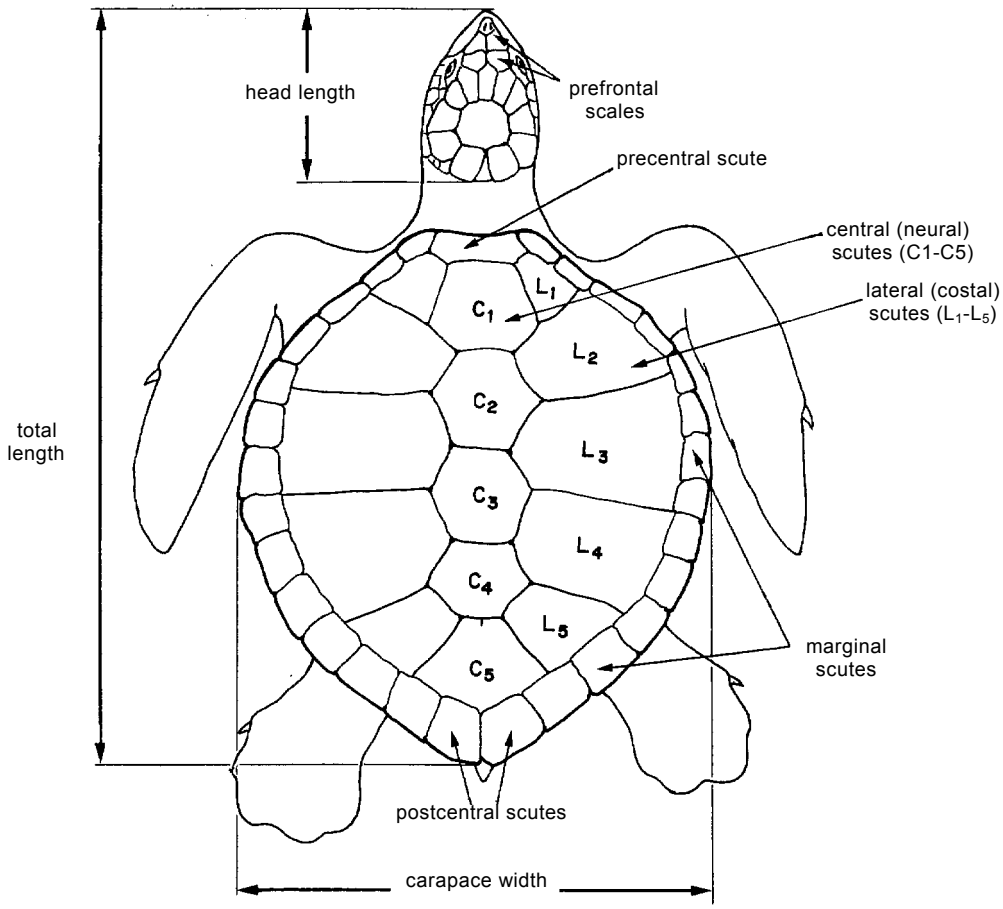
Loc.name(s) :

next page

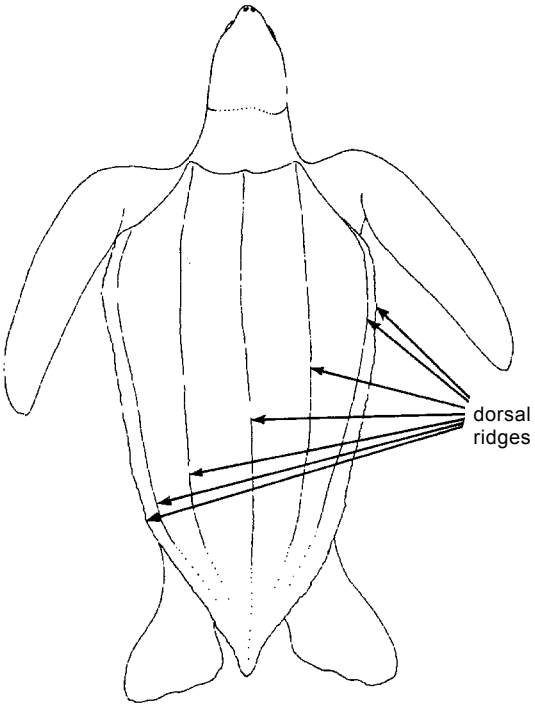
SEA TURTLES

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS

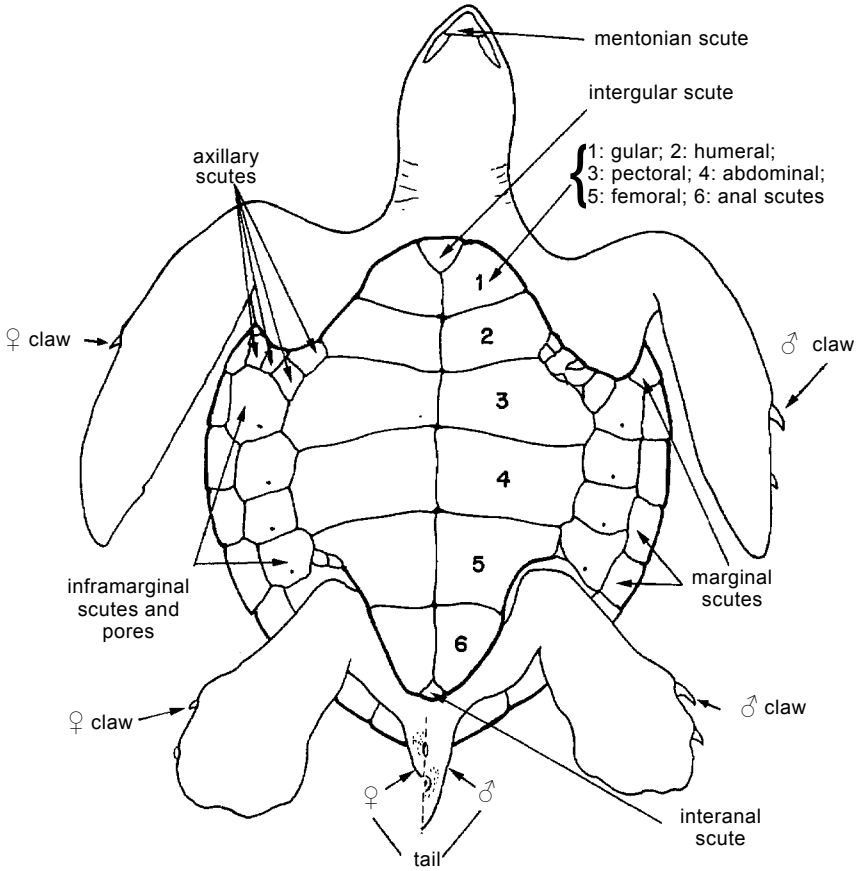
(Straight-line distances)



dorsal view of a juvenile sea turtle (Family CHELONIIDAE)



dorsal view of a sea turtle (Family DERMOCHELYIDAE)



ventral view of a juvenile sea turtle (Family CHELONIIDAE)

SEA TURTLES

CHELONIIDAE

Caretta caretta (Linnaeus, 1758)

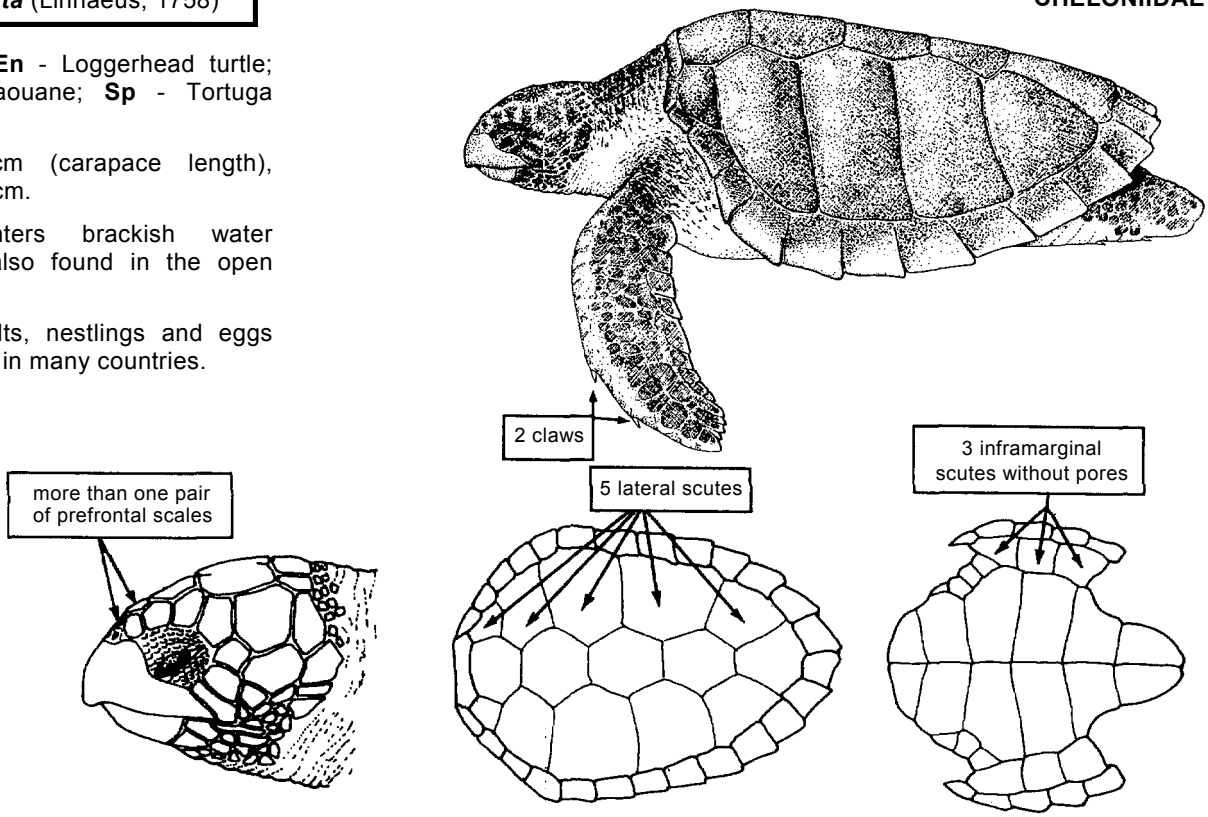
FAO names : **En** - Loggerhead turtle; **Fr** - Tortue caouane; **Sp** - Tortuga cahuama.

Size : 125 cm (carapace length), common to 110 cm.

Habitat : enters brackish water estuaries, but also found in the open sea; migratory.

Remarks : adults, nestlings and eggs protected by law in many countries.

Loc.name(s) :



Chelonia mydas (Linnaeus, 1758)

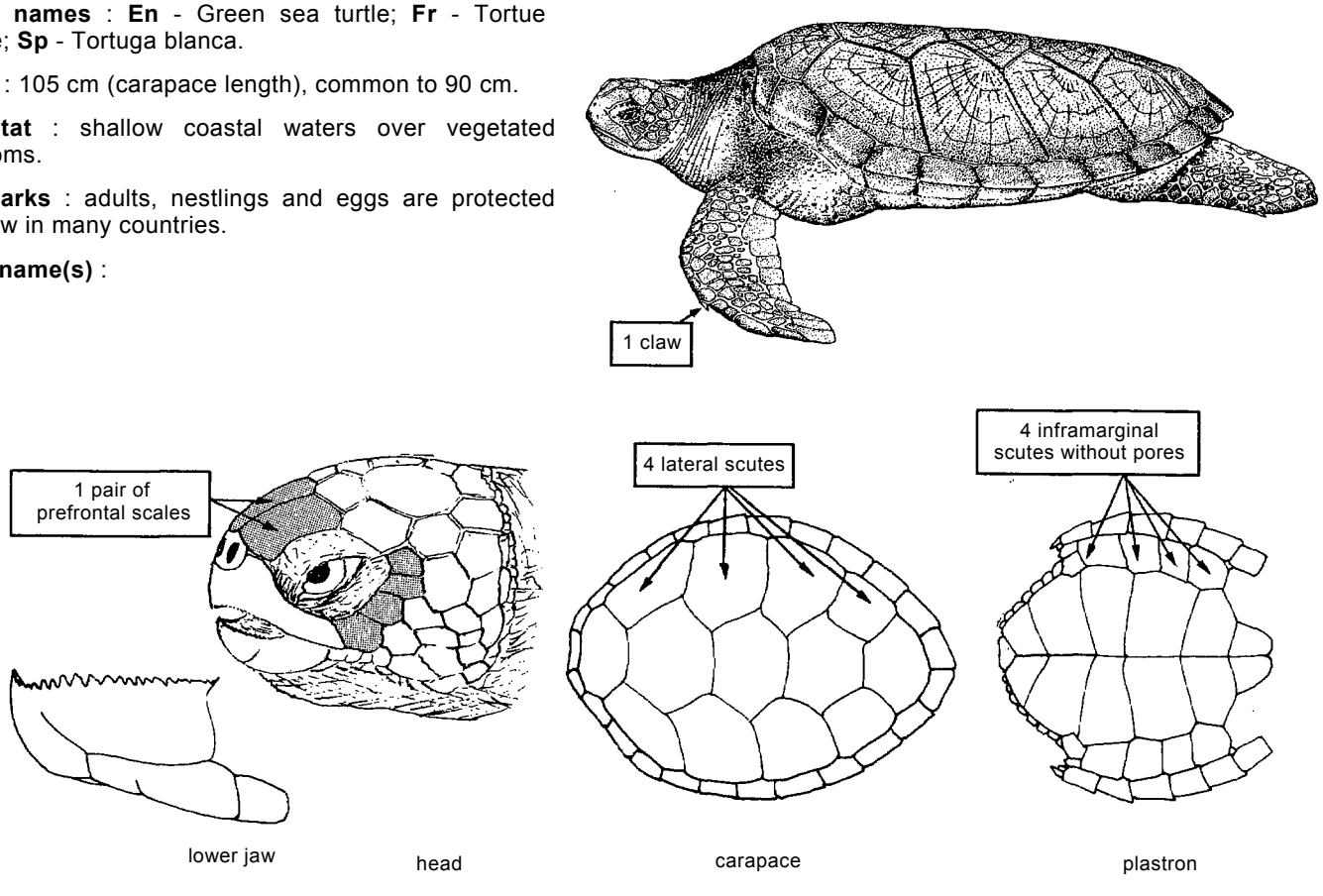
FAO names : **En** - Green sea turtle; **Fr** - Tortue verte; **Sp** - Tortuga blanca.

Size : 105 cm (carapace length), common to 90 cm.

Habitat : shallow coastal waters over vegetated bottoms.

Remarks : adults, nestlings and eggs are protected by law in many countries.

Loc.name(s) :



SEA TURTLES

CHELONIIDAE

Eretmochelys imbricata (Linnaeus, 1758)

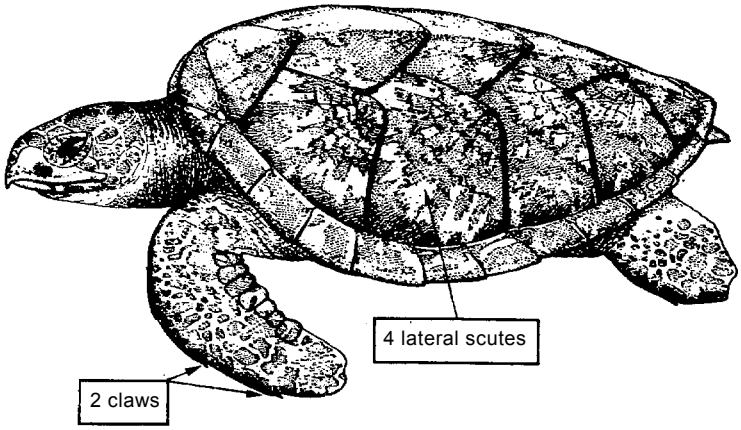
FAO names : **En** - Hawksbill turtle; **Fr** - Tortue caret; **Sp** - Tortuga de carey.

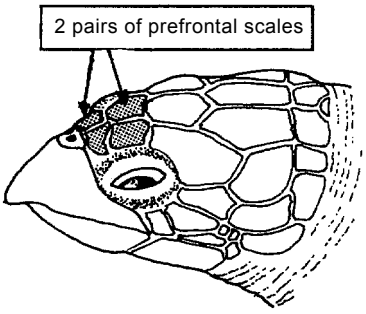
Size : 90 cm (carapace length), common to 80 cm.

Habitat : coastal waters, including shallow vegetated bottoms as well as bays and lagoons with muddy and coralline bottoms lacking extensive beds of submarine vegetation.

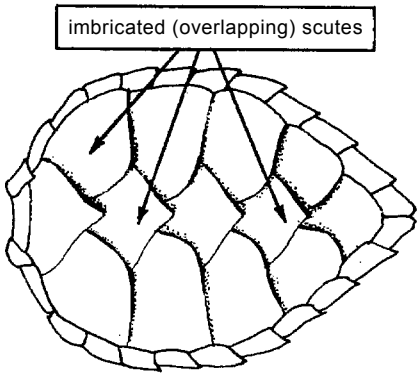
Remarks : adults, nestlings and eggs are protected by law in some countries.

Loc.name(s) :

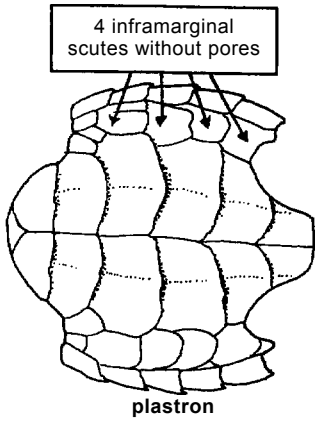




head



carapace



plastron

Lepidochelys olivacea (Eschscholtz, 1829)

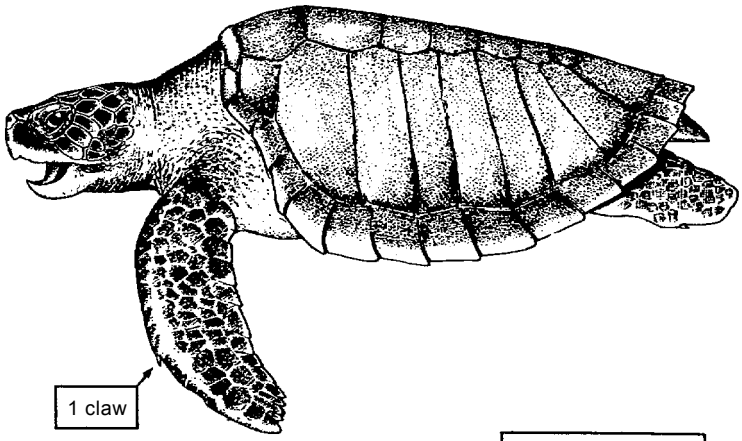
FAO names : **En** - Olive ridley turtle; **Fr** - Tortue olivâtre; **Sp** - Tortuga golfina.

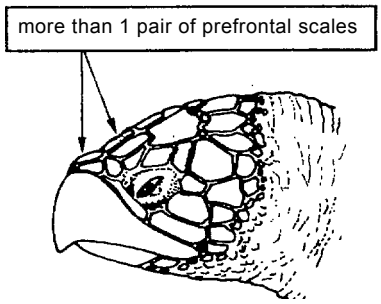
Size : 75 cm (carapace length).

Habitat : shallow coastal waters as well as in the open sea forming schools.

Remarks : adults, nestlings and eggs are protected by law in many countries.

Loc.name(s) :





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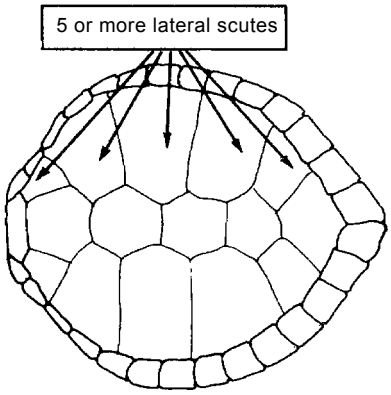
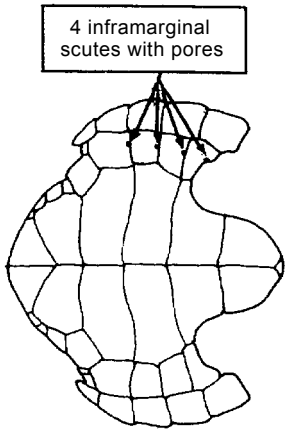


carapace

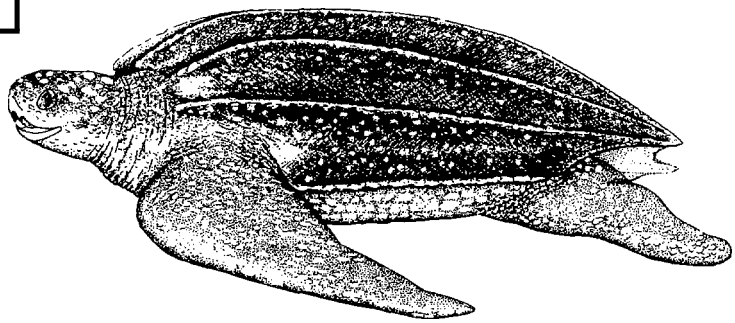


plastron

SEA TURTLES

DERMOCHELYIDAE

Dermochelys coriacea coriacea (Linnaeus, 1758)



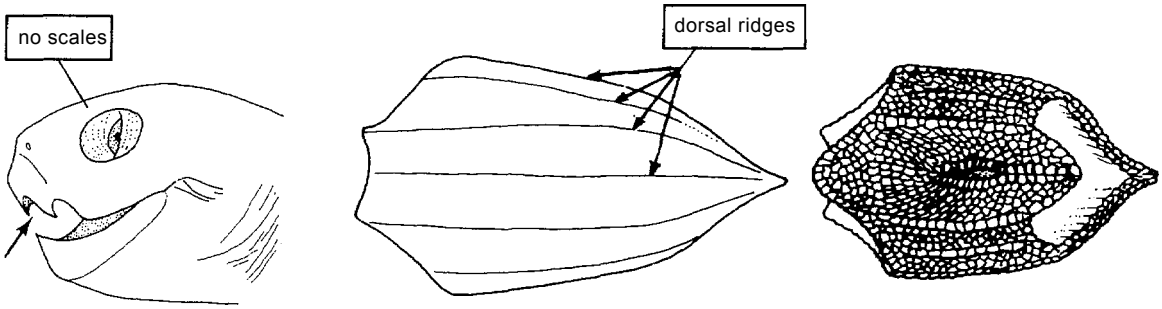
FAO names : **En** - Leatherback turtle; **Fr** - Tortue luth; **Sp** - Tortuga laúd.

Size : ca 260 cm (carapace length), common to 180 cm.

Habitat : pelagic and highly migratory.

Remarks : adults, hatchlings and eggs are protected in some countries.

Loc.name(s) :



head **carapace** **plastron**

next page

INDEX OF SCIENTIFIC AND VERNACULAR NAMES

EXPLANATION OF THE SYSTEM

Type faces used:

Italics : Valid scientific names (genera and species)

Italics : Synonyms

* *Italics* : Misidentifications (preceded by an asterisk)

ROMAN (saps) : Family names

Roman : International (FAO) names of species

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* SL = Standard length

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PLATE X

SCOMBRIDAE	72	*Scomber japonicus*	Photo: M. Bellemans
	73	*Scomberomorus tritor* 420 mm SL	Photo: G. Bianchi
SCORPAENIDAE	74	*Pontinus kuhlii*	Photo: M. Bellemans
	75	*Scorpaena angolensis*	Photo: M. Bellemans
SERRANIDAE	76	*Anthias anthias,* male	Photo: W. Schneider
	77	*Cephalopholis taeniops*	Photo: M. Bellemans
SERRANIDAE	78	*Epinephelus aeneus* 450 mm SL	Photo: G. Bianchi
	79	*Epinephelus costae*	Photo: M. Bellemans

* TL = Total length
** FL = Fork length

PLATE XI

SERRANIDAE	80	*Epinephelus goreensis*	Photo: M. Bellemans
	81	*Epinephelus haifensis*	Photo: W. Schneider
	82	*Epinephelus marginatus*	Photo: M. Bellemans
	83	*Mycteroperca rubra*	Photo: M. Bellemans
	84	*Serranus cabrilla*	Photo: M. Bellemans
SOLEIDAE	85	*Dicologoglossa hexophthalma*	Photo: W. Schneider
	86	*Pegusa lascaris*	Photo: W. Schneider

PLATE XII

SPARIDAE	87	*Bop bop* 180 mm SL	Photo: G. Bianchi
	88	*Dentex angolensis* 175 mm SL	Photo: G. Bianchi
	89	*Dentex canariensis*	Photo: G. Bianchi
	90	*Dentex congoensis*	Photo: M. Bellemans
	91	*Dentex gibbosus* 250 mm SL	Photo: G. Bianchi
	92	*Dentex macrophthalmus* 305 mm SL	Photo: M. Bellemans

PLATE XIII

SPARIDAE	93	*Dentex maroccanus* 215 mm SL	Photo: G. Bianchi
	94	*Diplodus bellottii*	Watercolour: P. Lastrico
	95	*Diplodus cervinus cervinus* 300 mm SL	Photo: G. Bianchi
	96	*Diplodus puntazzo* 360 mm SL	Photo: G. Bianchi
	97	*Diplodus sargus cadenati* 265 mm SL	Photo: G. Bianchi

PLATE XIV

SPARIDAE	98	*Diplodus vulgaris* 260 mm SL	Photo: G. Bianchi
	99	*Lithognathus mormyrus* 205 mm SL	Photo: G. Bianchi
	100	*Oblada melanura* 155 mm SL	Photo: G. Bianchi
	101	*Pagellus acarne* 120 mm SL	Photo: G. Bianchi
	102	*Pagellus bellottii* 230 mm SL	Photo: G. Bianchi

PLATE XV

SPARIDAE	103	*Pagrus auriga* 235 mm SL	Photo: G. Bianchi
	104	*Pagrus caeruleostictus* 570 mm SL	Photo: G. Bianchi
	105	*Sarpa salpa*	Photo: M. Bellemans
	106	*Spondyliosoma cantharus*	Photo: M. Bellemans
STROMATEIDAE	107	*Stromateus fiatola*	Photo: M. Bellemans
SYNODONTIDAE	108	*Trachinocephalus myops*	Photo: M. Bellemans

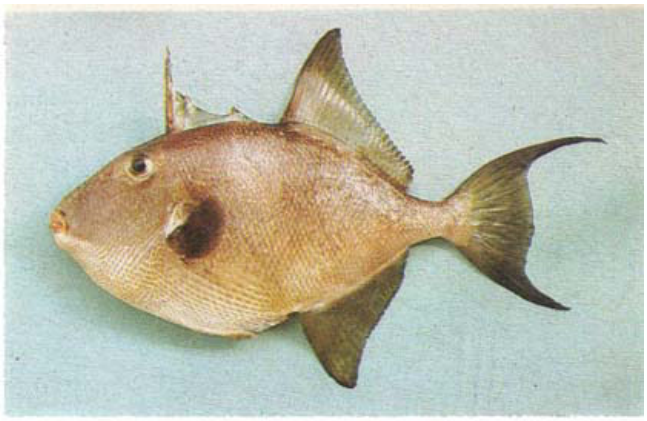
PLATE XVI

TETRAODONTIDAE	109	*Lagocephalus laevigatus* 150 mm SL	Photo: G. Bianchi
TRACHINIDAE	110	*Trachinus armatus*	Photo: W. Schneider
	111	*Trachinus pellegrini*	Photo: M. Bellemans
TRIGLIDAE	112	*Chelidonichthys lastoviza*	Photo: M. Bellemans
ZEIDAE	113	*Zenopsis conchifer*	Photo: G. Bianchi
	114	*Zeus faber*	Photo: M. Bellemans

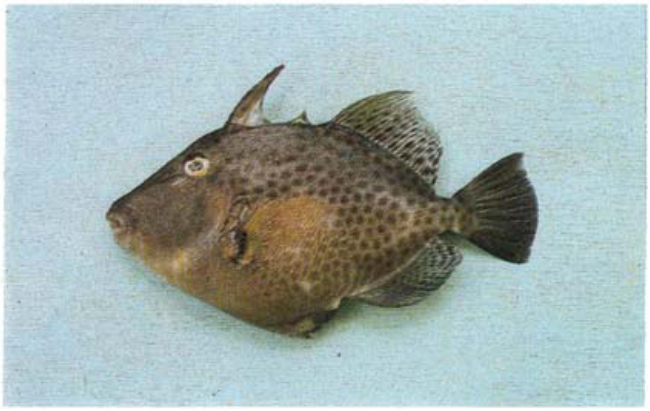
next page

PLATE I

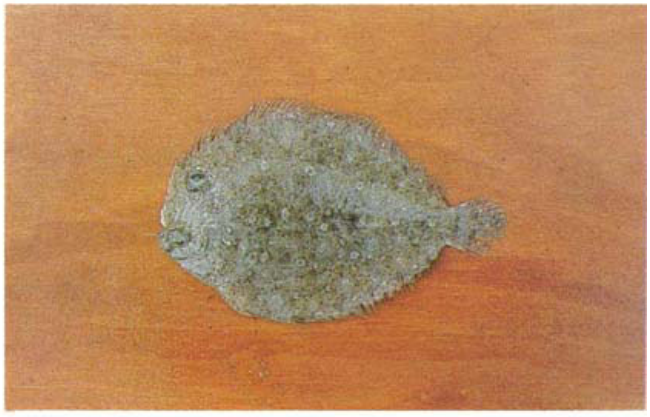
(1) ACANTHURIDAE: ***Acanthurus monroviae*** 230 mm SL
(Ph.: Bianchi)



(2) BALISTIDAE: ***Balistes capriscus***
(Ph.: Bellemans)



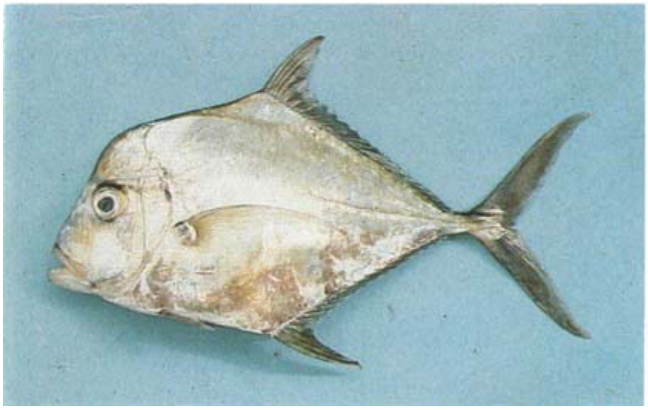
(3) BALISTIDAE: ***Balistes punctatus***
(Ph.: Bellemans)



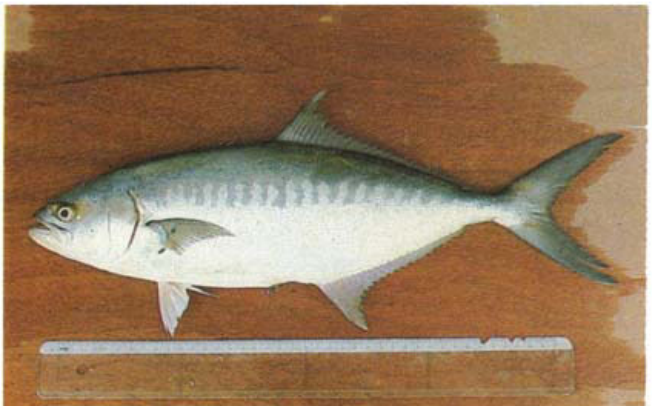
(4) BOTHIDAE: ***Bothus podas africanus***
(Ph.: Bellemans)

(5) BRANCHIOSTEGIDAE: ***Branchiostegus semifasciatus***
(Ph.: Bellemans)

(6) CARANGIDAE: ***Alectis alexandrinus*** (juvenile)
230 mm SL (Ph.: Bianchi)

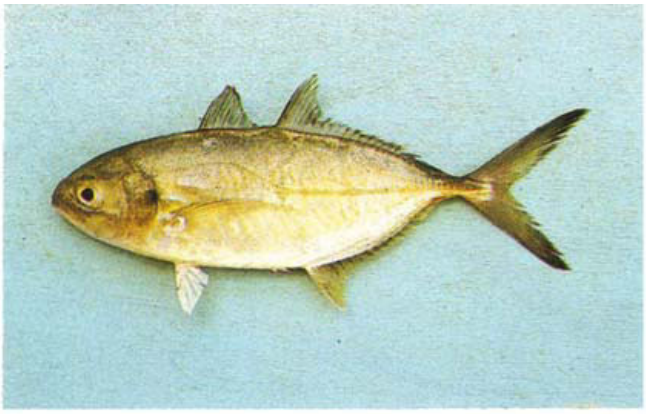


(7) CARANGIDAE: ***Alectis alexandrinus*** (adult)
(Ph.: Bellemans)

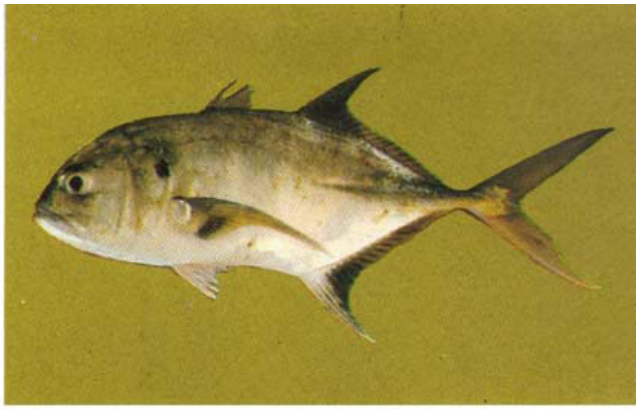


(8) CARANGIDAE: ***Campogramma glaycos***
(Ph.: Bellemans)

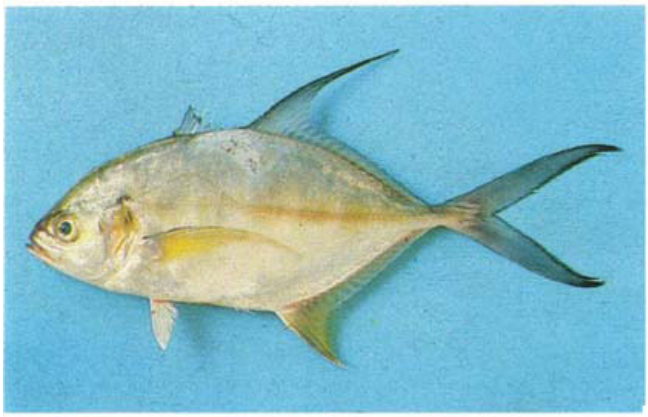
PLATE II



(9) CARANGIDAE: ***Caranx crysos***
(Ph.: Bellemans)



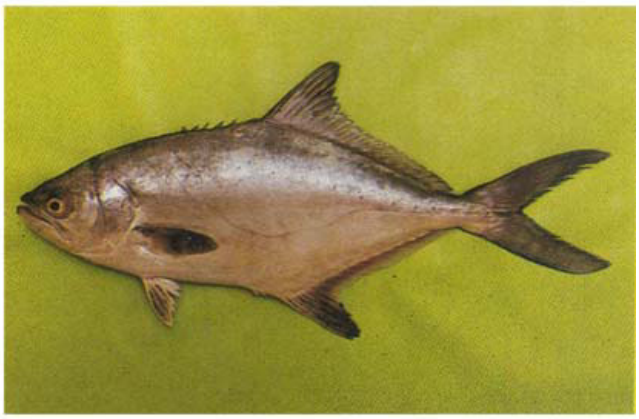
(10) CARANGIDAE: ***Caranx hippos***
(Ph.: Bianchi)



(11) CARANGIDAE: ***Caranx senegallus***
(Ph : Bellemans)

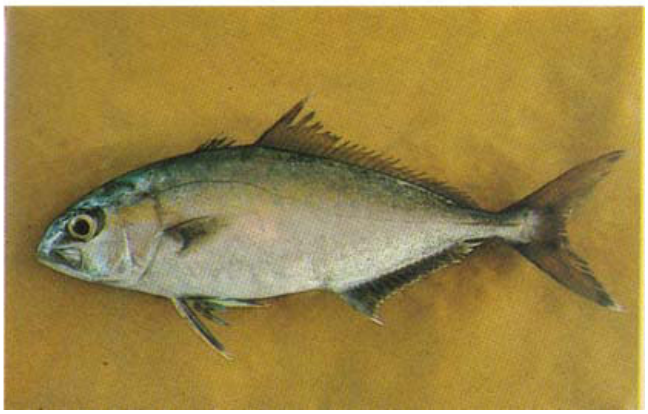
(12) CARANGIDAE: ***Decapterus punctatus*** 125 mm SL
(Ph.: Bianchi)

(13) CARANGIDAE: ***Decapterus rhonchus*** 305 mm SL
(Ph.: Bianchi)



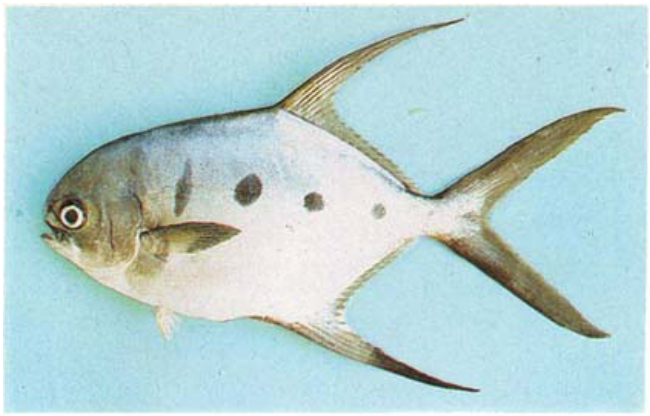
(14) CARANGIDAE: ***Lichia amia***
(Ph.: Bellemans)

(15) CARANGIDAE: ***Selene dorsalis*** 160 mm SL
(Ph.: Bianchi)

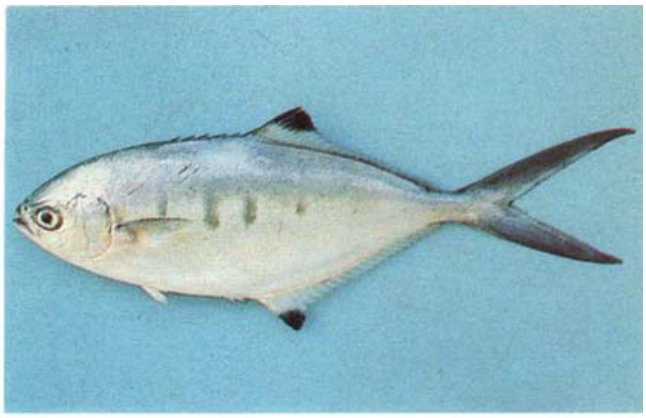


(16) CARANGIDAE: ***Seriola carpenteri*** 325 mm SL
(Ph.: Bianchi)

PLATE III

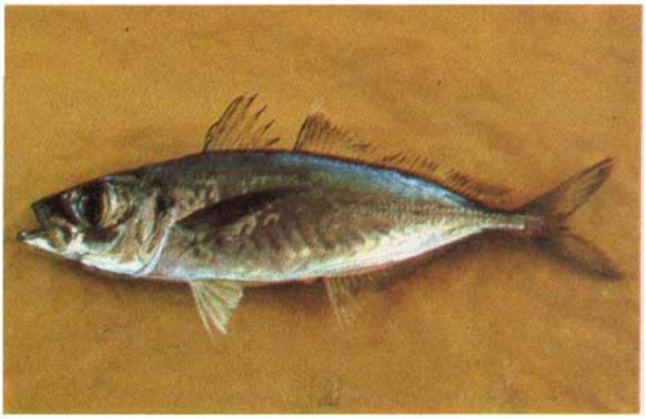


(17) CARANGIDAE: ***Trachinotus goreensis***
(Ph.: Bellemans)

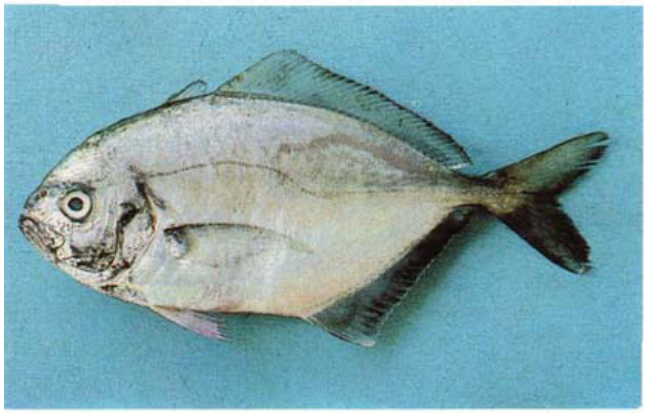


(18) CARANGIDAE: ***Trachinotus ovatus***
(Ph.: Bellemans)

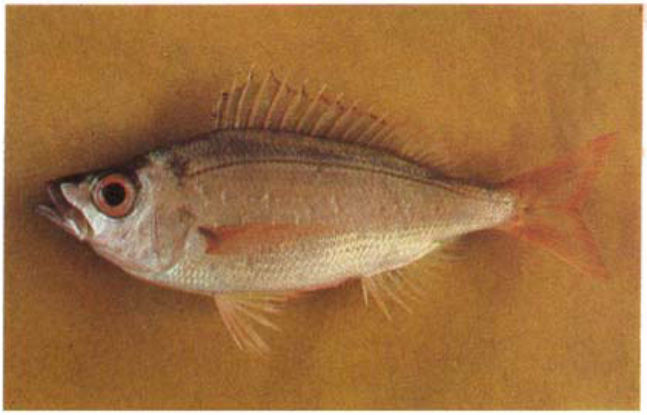
(19) CARANGIDAE: ***Trachinotus teraia*** 300 mm SL
(Ph: Bianchi)



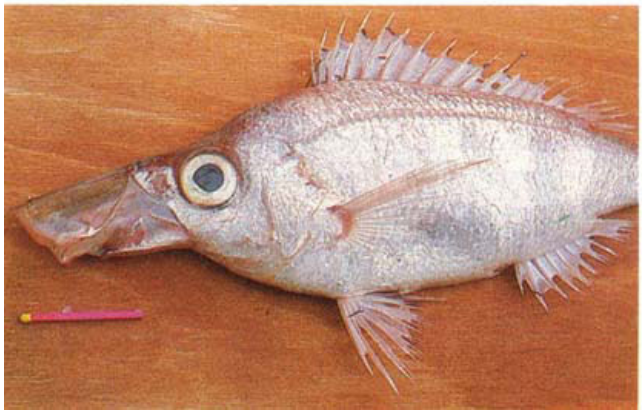
(20) CARANGIDAE ***Trachurus trecae*** 150 mm SL
(Ph : Bianchi)



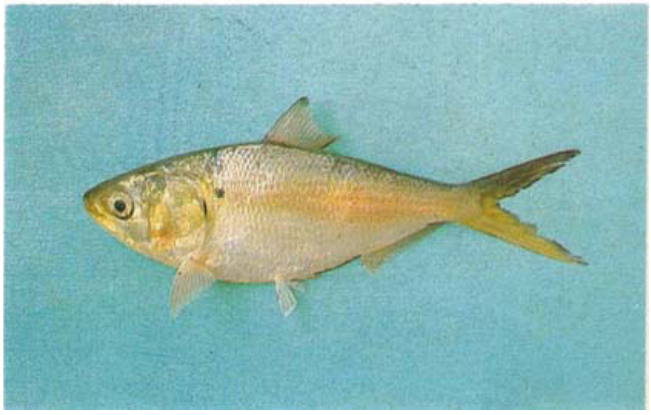
(21) CARANGIDAE: ***Uraspis helvola***
(Ph.: Bellemans)



(22) CENTRACANTHIDAE: ***Spicara alta*** 210 mm SL
(Ph.: Bianchi)



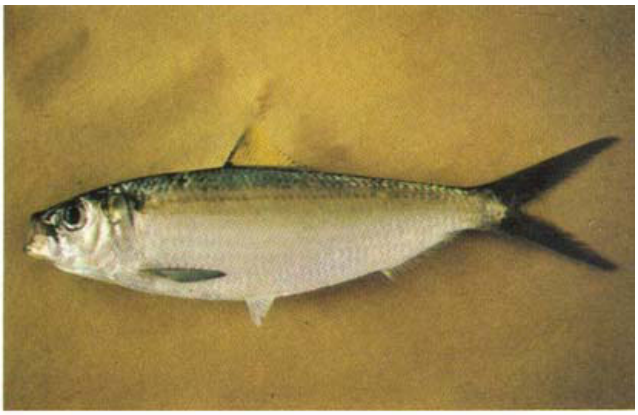
(23) CENTRACANTHIDAE: ***Spicara alta*** (protracted mouth)
(Ph.: Bellemans)



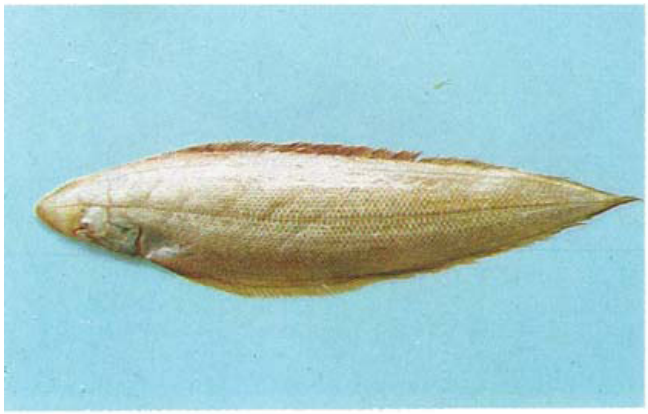
(24) CLUPEIDAE: ***Ethmalosa fimbriata***
(Ph.: Bellemans)

PLATE IV

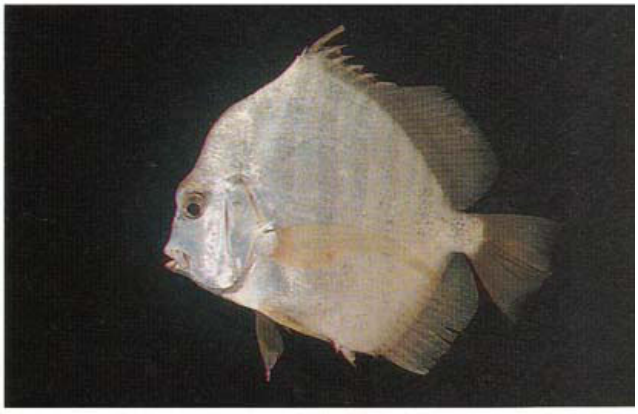
(25) CLUPEIDAE: ***Sardinella aurita*** 125 mm SL
(Ph.: Bianchi)



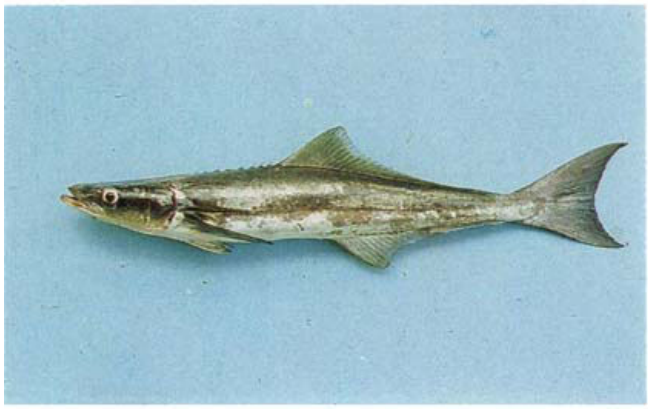
(26) CLUPEIDAE: ***Sardinella maderensis*** 190 mm SL
(Ph.: Bianchi)



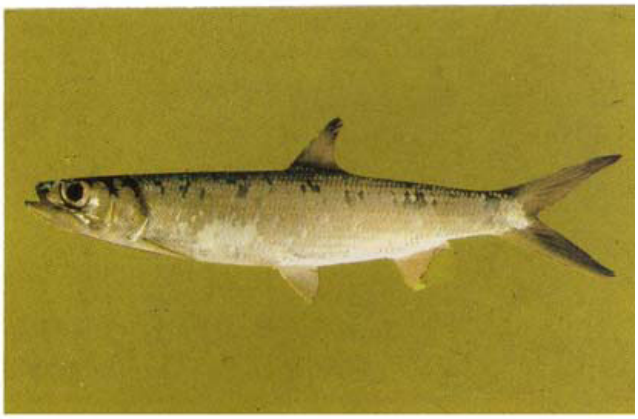
(27) CYNOGLOSSIDAE***: Cynoglossus monodi***
(Ph.: Bellemans)



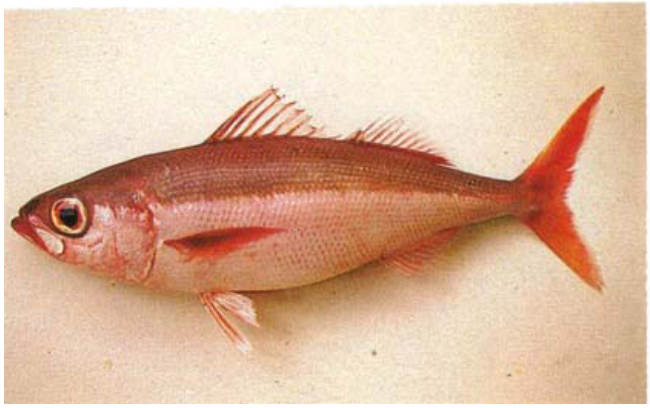
(28) DREPANIDAE: ***Drepane africana***
(Ph.: W. Schneider)



(29) ECHENEIDAE : ***Echeneis naucrates***
(Ph.: Bellemans)



(30) ELOPIDAE: ***Elops lacerta*** 300 mm SL
(Ph.: Bianchi)

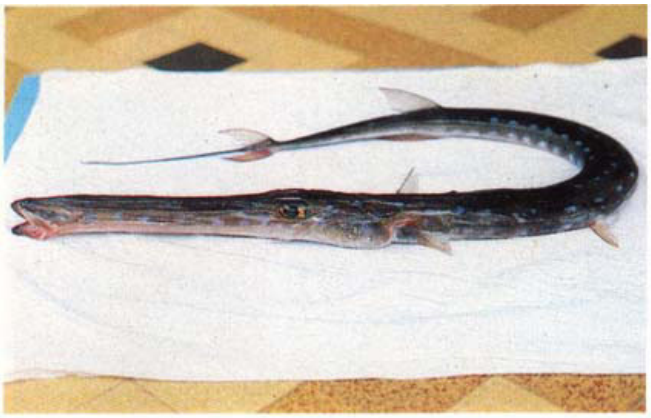


(31) EMMELICHTHYIDAE: ***Erythrocles monodi***
(Ph.: Bellemans)

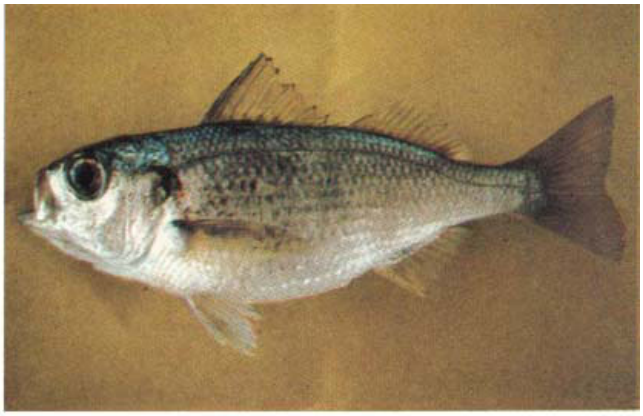
(32) EPHIPPIDAE: ***Chaetodipterus goreensis*** 120 mm SL
(Ph.: Bianchi)

next page

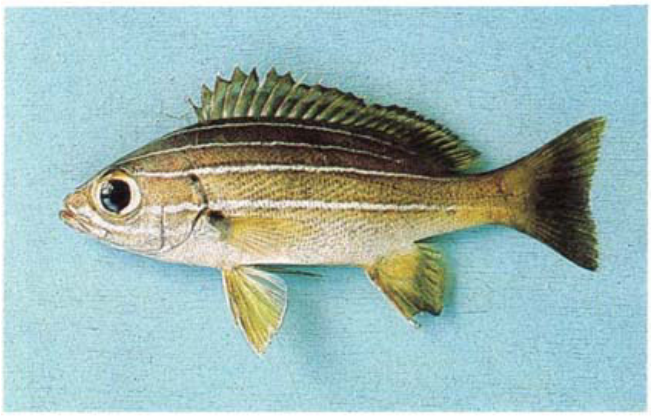
PLATE V



(33) FISTULARIIDAE: ***Fistularia tabacaria***
(Ph.: Bellemans)

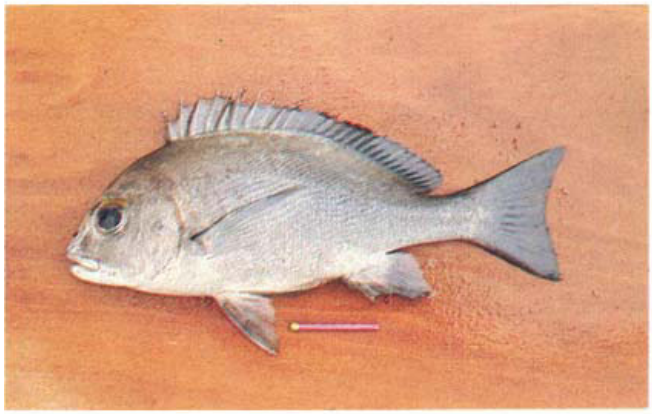


(34) HAEMULIDAE: ***Brachydeuterus auritus*** 125 mm SL
(Ph.: Bianchi)



(35) HAEMULIDAE: ***Parapristipoma octolineatum***
(Ph.: Bellemans)

(36) HAEMULIDAE: ***Plectorhynchus macrolepis***
(Ph.: Bellemans)



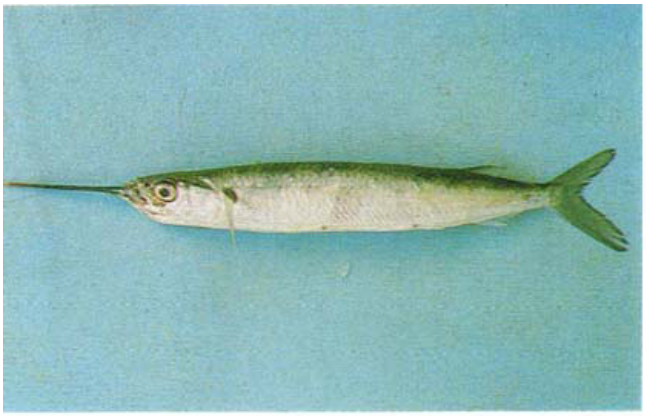
(37) HAEMULIDAE: ***Plectorhynchus mediterraneus***
(Ph.: Bellemans)

(38) HAEMULIDAE: ***Pomadasys incisus*** 240 mm SL
(Ph.: Bianchi)

(39) HAEMULIDAE: ***Pomadasys jubelini*** 275 mm SL
(Ph.: Bianchi)

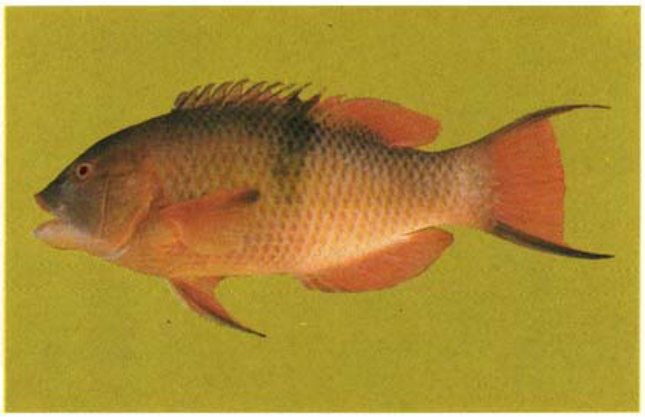
(40) HAEMULIDAE: ***Pomadasys rogerii*** 175 mm SL
(Ph.: Bianchi)

PLATE VI



(41) HEMIRAMPHIDAE: ***Hemiramphus brasiliensis***
(Ph.: Bellemans)

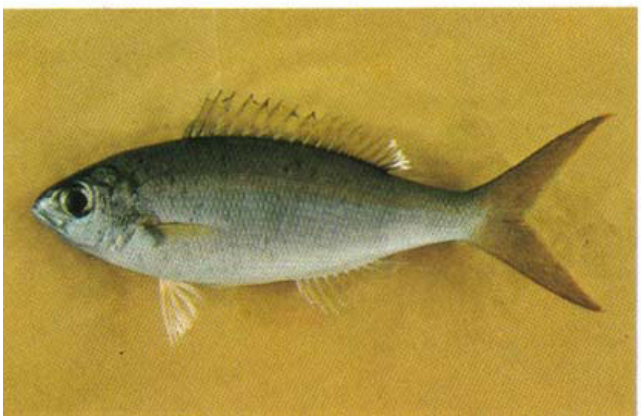
(42) HOLOCENTRIDAE: ***Sargocentron hastatus***
(Ph.: Bellemans)



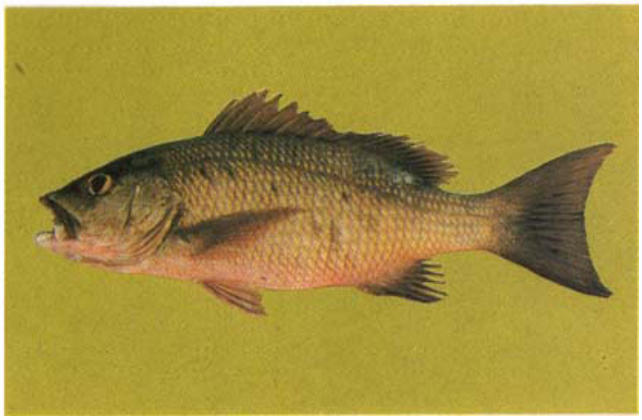
(43) LABRIDAE: ***Bodianus speciosus*** 360 mm SL
(Ph.: Bianchi)

(44) LABRIDAE: ***Coris julis***
(Ph.: Bellemans)

(45) LOBOTIDAE: ***Lobotes surinamensis*** 480 mm TL
(Ph.: Bianchi)



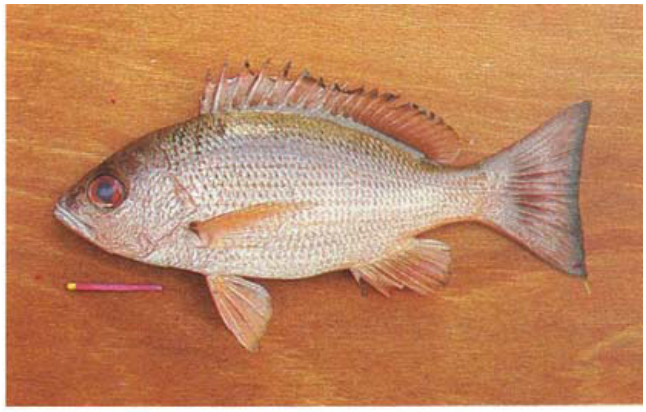
(46) LUTJANIDAE: ***Apsilus fuscus*** 180 mm SL
(Ph.: Bianchi)



(47) LUTJANIDAE***: Lutjanus agennes*** 340 mm SL
(Ph.: Bianchi)

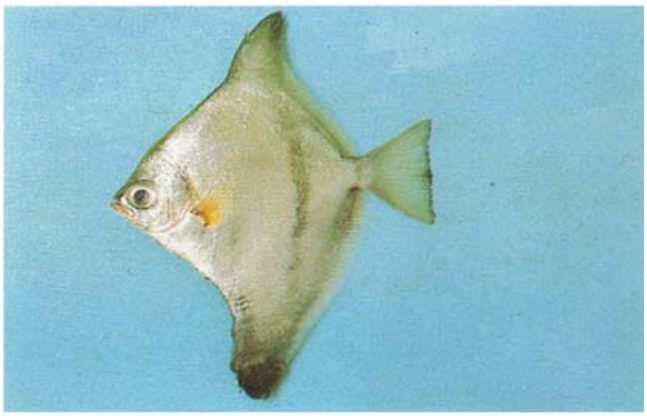
PLATE VII

(48) LUTJANIDAE: ***Lutjanus dentatus***
(Ph.: Bellemans)

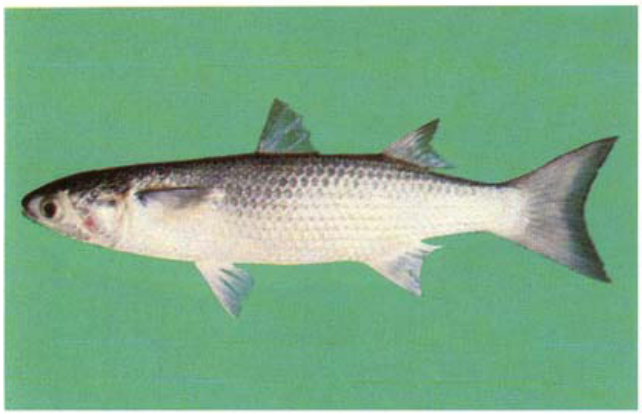


(49) LUTJANIDAE: ***Lutjanus fulgens***
(Ph.: Bellemans)

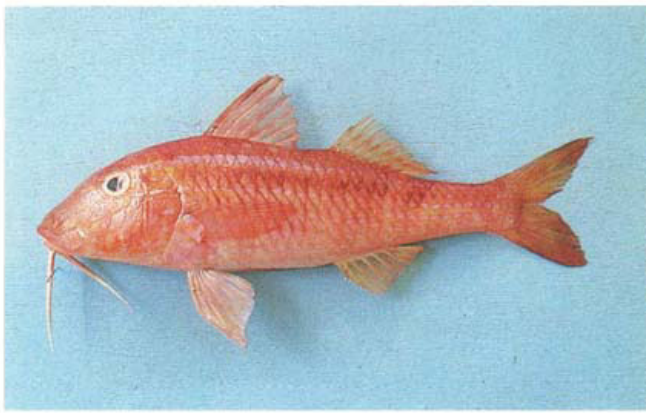
(50) LUTJANIDAE: ***Lutjanus goreensis***
(Ph.: Bianchi)



(51) MONODACTYLIDAE: ***Psettias sebae***
(Ph.: Bellemans)



(52) MUGILIGAE: ***Mugil cephalus*** 254 mm SL
(Ph.: Randall)



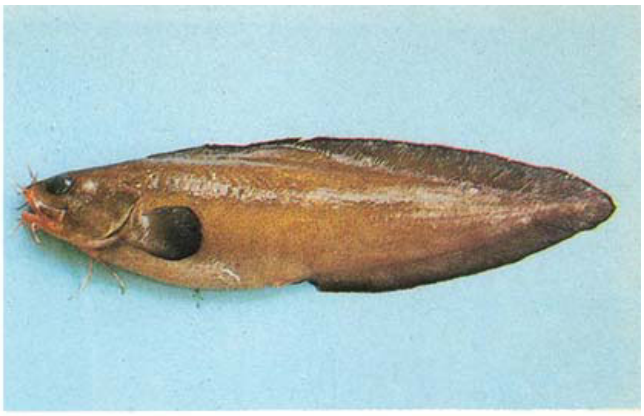
(53) MULLIDAE: ***Pseudupeneus prayensis***
(Ph.: Bellemans)

(54) MURAENIDAE: ***Muraena helena***
(Ph.: Bellemans)

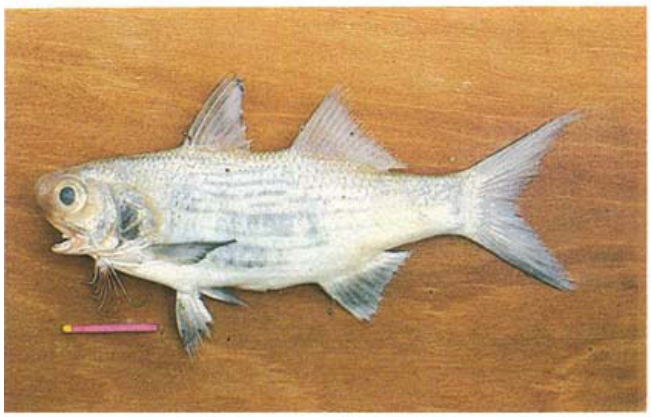
(55) MURAENIDAE: ***Muraena melanotis***
(Ph.: Bellemans)

PLATE VIII

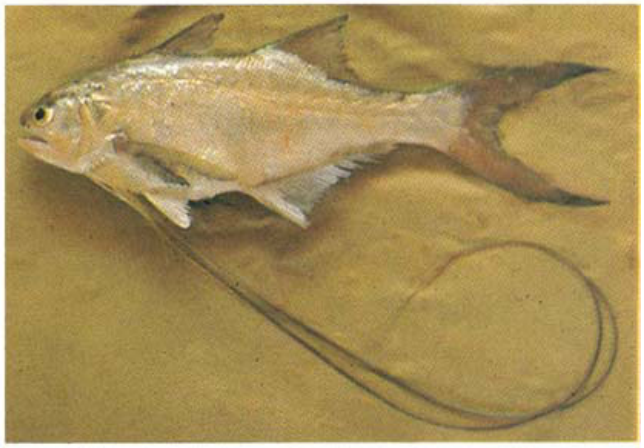
(56) MURAENIDAE: ***Muraena robusta***
(Ph.: Bellemans)



(57) OPHIDIIDAE: ***Brotula barbata*** (Ph.: Bellemans)



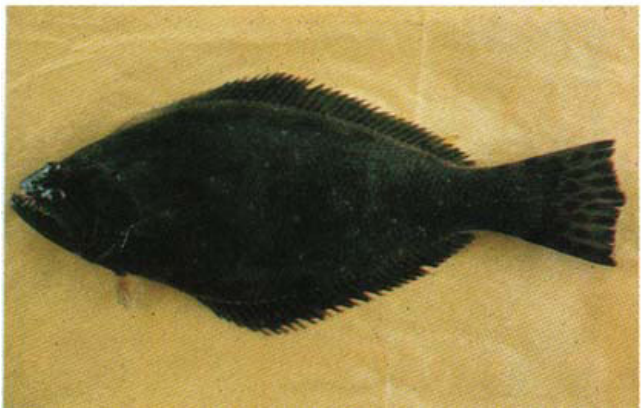
(58) POLYNEMIDAE: ***Galeoides decadactylus***
(Ph.: Bellemans)



(59) POLYNEMIDAE: ***Pentanemus quinquarius*** 195 mm SL
(Ph.: Bianchi)

(60) POMATOMIDAE: ***Pomatomus saltatrix***
(Ph.: Bellemans)

(61) PRIACANTHIDAE: ***Priacanthus arenatus***
(Ph.: Bellemans)



(62) PSETTODIDAE: ***Psettodes belcheri*** 250 mm SL
(Ph.: Bianchi)

(63) SCARIDAE: ***Scarus hoefleri***
(Ph.: Bellemans)

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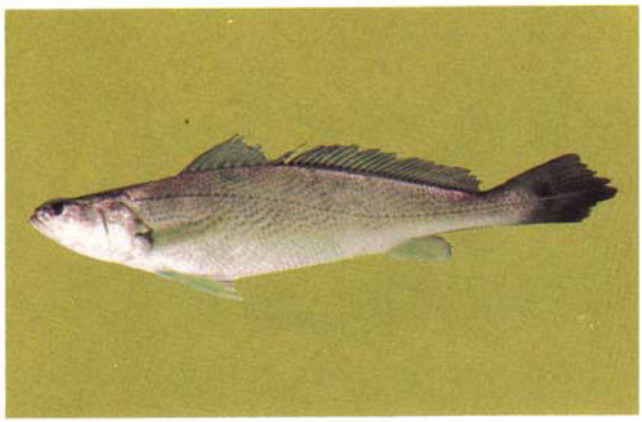
PLATE IX

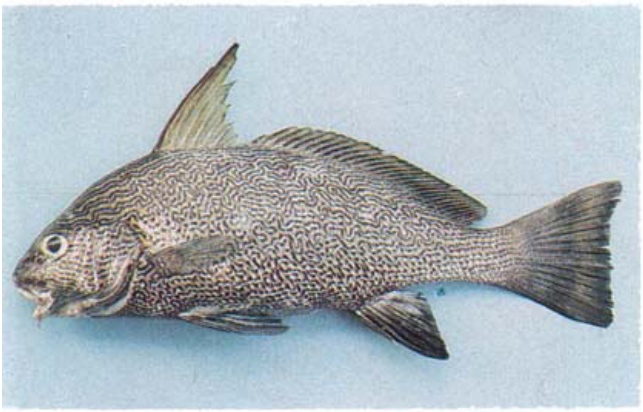
(64) SCIAENIDAE: ***Pseudotolithus elongatus***
335 mm SL (Ph.: Bianchi)

(65) SCIAENIDAE: ***Pseudotolithus senegalensis***
335 mm SL (Ph.: Bianchi)

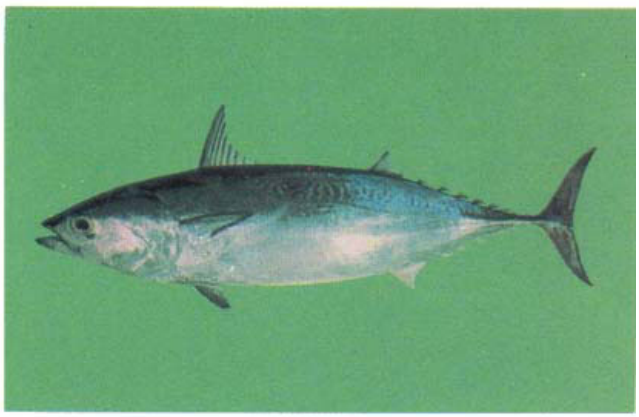


(66) SCIAENIDAE: ***Pseudotolithus typus*** 285 mm SL
(Ph.: Bianchi)

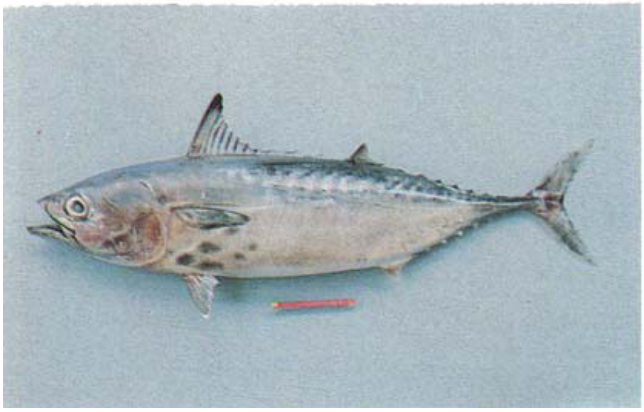
(67) SCIAENIDAE: ***Umbrina canariensis***
(Ph.: Bianchi)



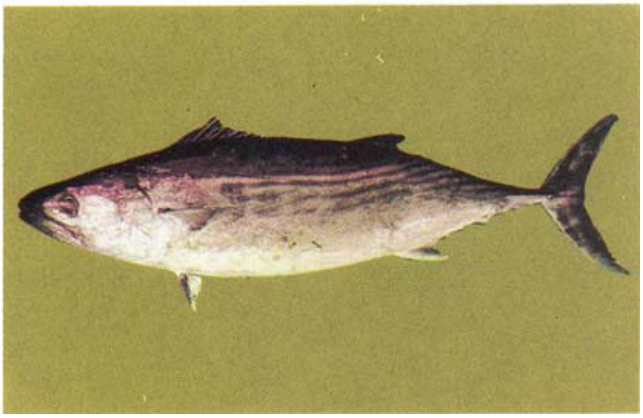
(68) SCIAENIDAE: ***Umbrina steindachneri***
(Ph.: Bellemans)



(69) SCOMBRIDAE: ***Auxis thazard*** 401 mm FL
(Ph.: Randall)

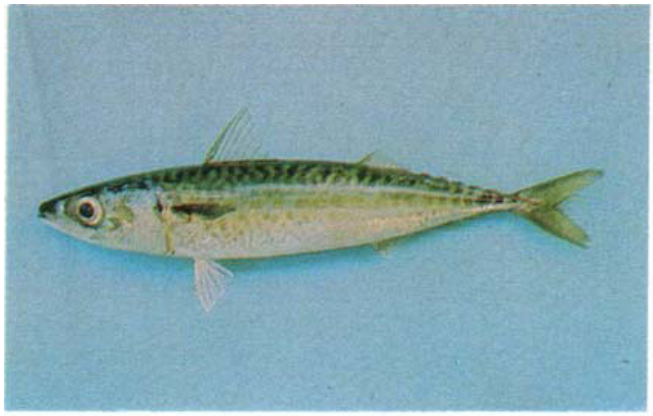


(70) SCOMBRIDAE: ***Euthynnus alletteratus***
(Ph.: Bellemans)

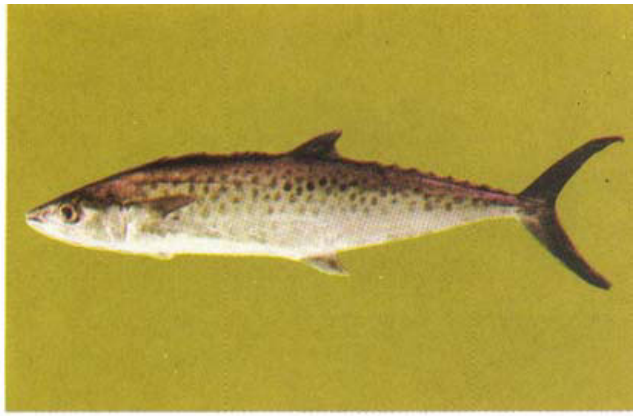


(71) SCOMBRIDAE: ***Sarda sarda*** 550 mm SL
(Ph.: Bianchi)

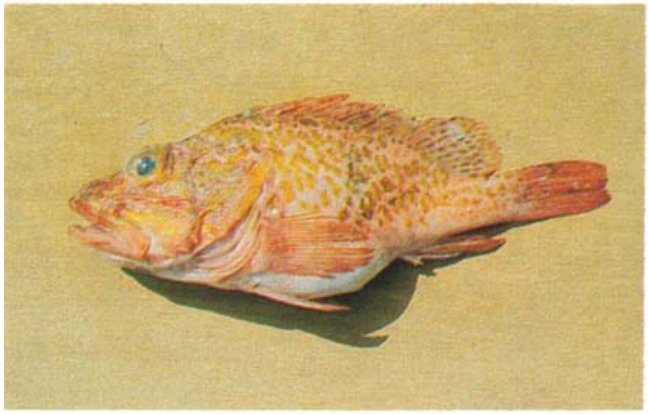
PLATE X



(72) SCOMBRIDAE: ***Scomber japonicus***
(Ph.: Bellemans)

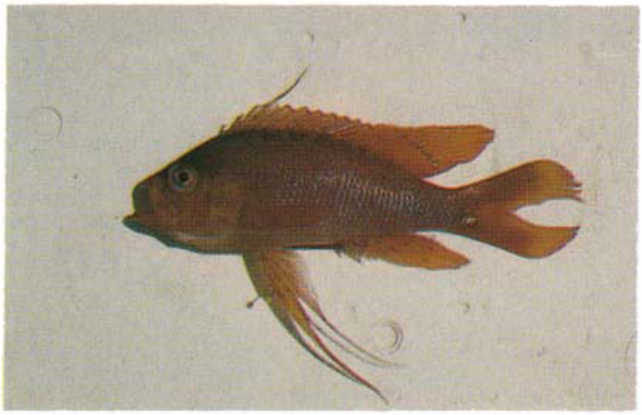


(73) SCOMBRIDAE***: Scomberomorus tritor*** 420 mm SL
(Ph.: Bianchi)



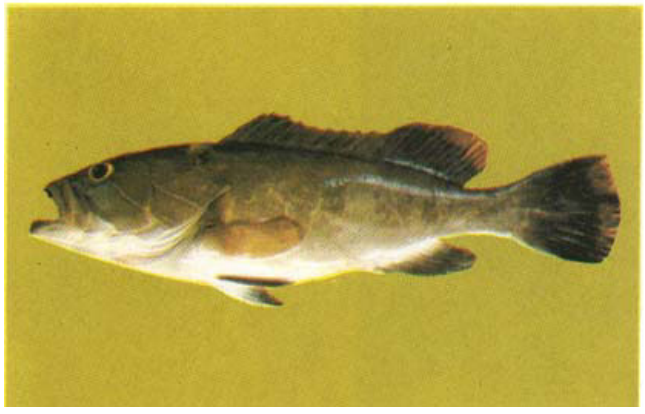
(74) SCORPAENIDAE: ***Pontinus kuhlii***
(Ph.: Bellemans)

(75) SCORPAENIDAE: ***Scorpaena angolensis***
(Ph.: Bellemans)

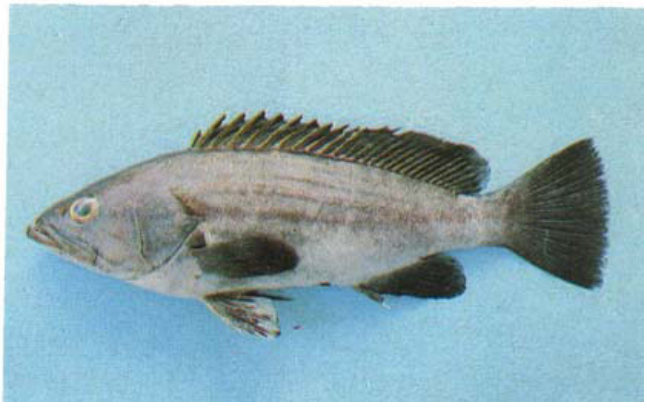


(76) SERRANIDAE: ***Anthias anthias***, male
(Ph.: W. Schneider)

(77) SERRANIDAE: ***Cephalopholis taeniops***
(Ph.: Bellemans)



(78) SERRANIDAE: ***Epinephelus aeneus*** 450 mm SL
(Ph.: Bianchi)



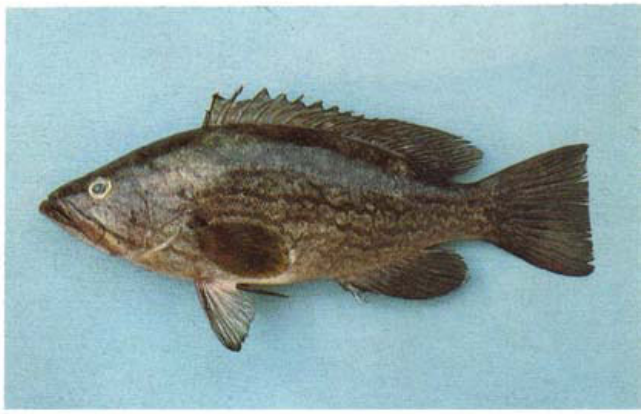
(79) SERRANIDAE: ***Epinephelus costae***
(Ph.: Bellemans)

PLATE XI

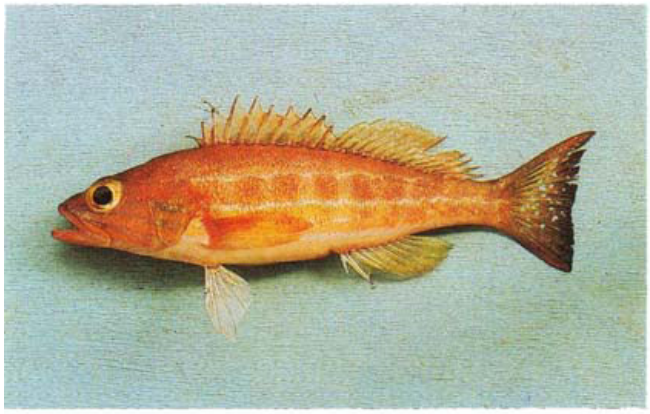
(80) SERRANIDAE: ***Epinepheuls goreensis***
(Ph.: Bellemans)

(81) SERRANIDAE: ***Epinephelus haifensis***
(Ph.: W. Schneider)

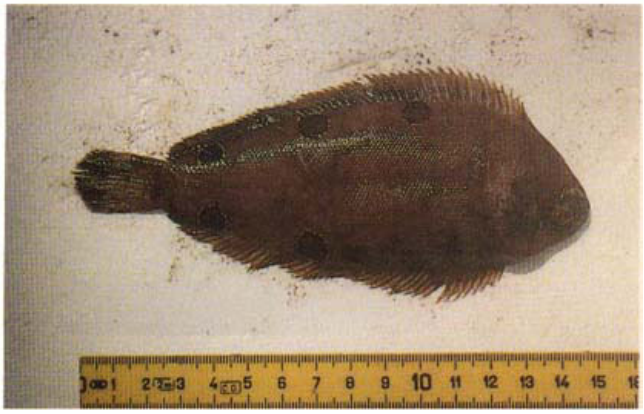
(82) SERRANIDAE: ***Epinephelus marginatus***
(Ph.: Bellemans)



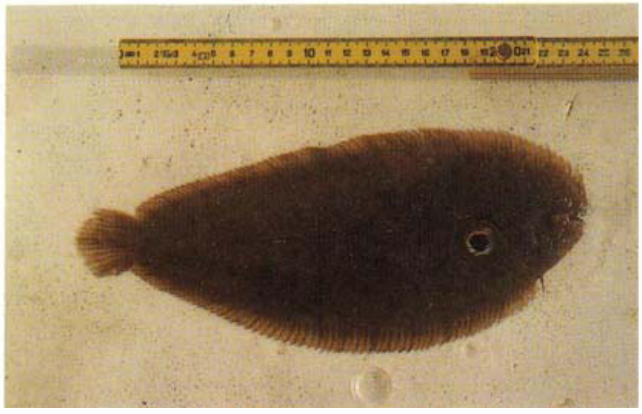
(83) SERRANIDAE: ***Mycteroperca rubra***
(Ph.: Bellemans)



(84) SERRANIDAE: ***Serranus cabrilla***
(Ph.: Bellemans)



(85) SOLEIDAE: ***Dicologoglossa hexophthalma***
(Ph.: W. Schneider)

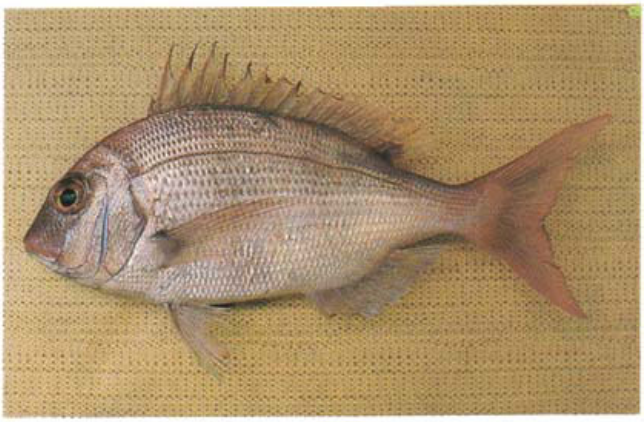


(86) SOLEIDAE: ***Pegusa lascaris***
(Ph.: W. Schneider)

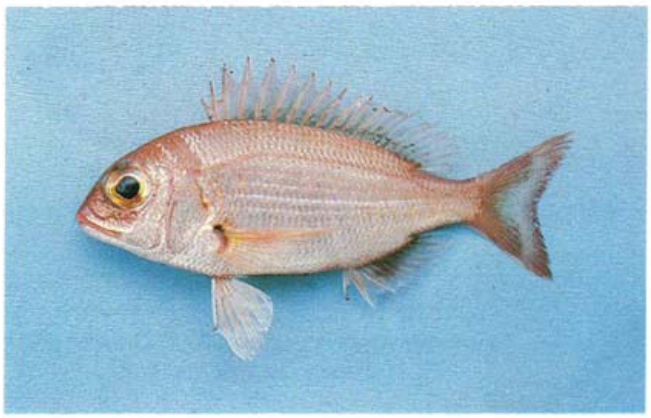
PLATE XII

(87) SPARIDAE: ***Boops boops*** 180 mm SL
(Ph.: Bianchi)

(88) SPARIDAE: ***Dentex angolensis*** 175 mm SL
(Ph.: Bianchi)



(89) SPARIDAE: ***Dentex canariensis***
(Ph.: Bianchi)



(90) SPARIDAE: ***Dentex congoensis***
(Ph.: Bellemans)

(91) SPARIDAE: ***Dentex gibbosus*** 250 mm SL
(Ph.: Bianchi)

(92) SPARIDAE: ***Dentex macrophthalmus*** 305 mm SL
(Ph.: Bellemans)

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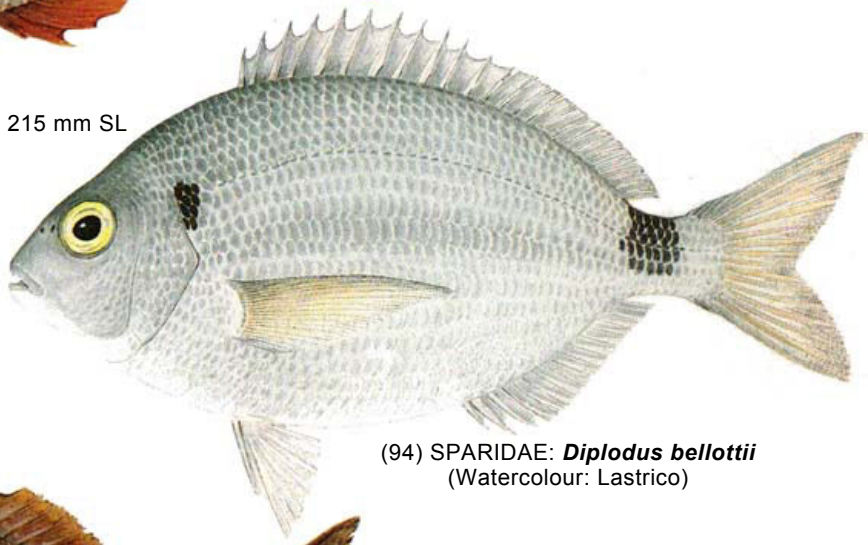
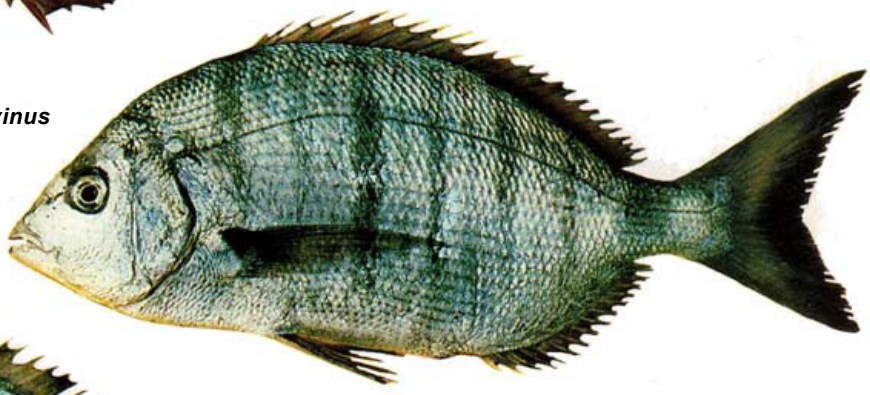
PLATE XIII

(93) SPARIDAE: ***Dentex maroccanus*** 215 mm SL
(Ph.: Bianchi)



(94) SPARIDAE: ***Diplodus bellottii***
(Watercolour: Lastrico)

(95) SPARIDAE: ***Diplodus cervinus cervinus***
300 mm SL (Ph.: Bianchi)



(96) SPARIDAE: ***Diplodus puntazzo***
360 mm SL (Ph.: Bianchi)

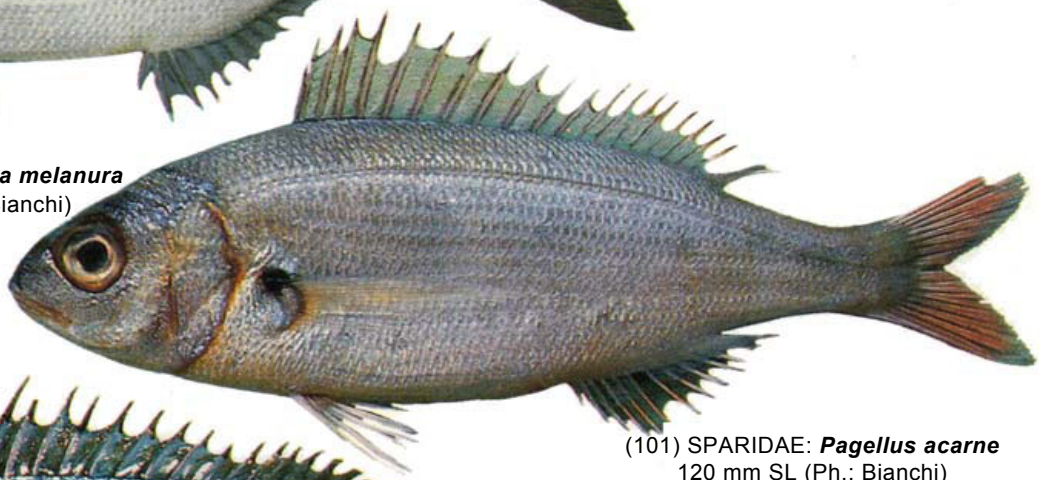
(97) SPARIDAE: ***Diplodus sargus cadenati*** 265 mm SL
(Ph.: Bianchi)

PLATE XIV

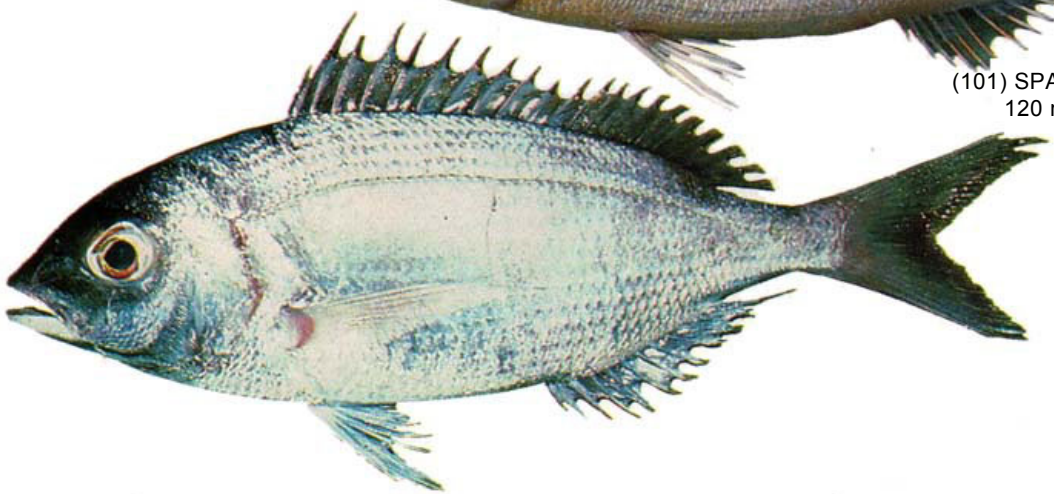
(98) SPARIDAE: ***Diplodus vulgaris*** 260 mm SL
(Ph.: Bianchi)

(99) SPARIDAE: ***Lithognathus mormyrus***
205 mm SL (Ph.: Bianchi)

(100) SPARIDAE: ***Oblada melanura***
155 mm SL (Ph.: Bianchi)



(101) SPARIDAE: ***Pagellus acarne***
120 mm SL (Ph.: Bianchi)



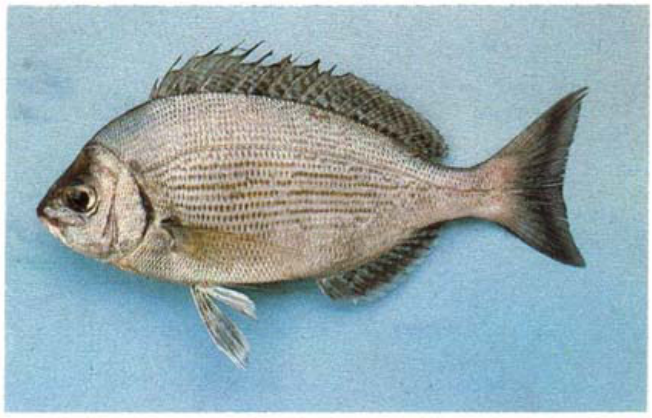
(102) SPARIDAE: ***Pagulus bellottii*** 230 mm SL
(Ph.: Bianchi)

PLATE XV

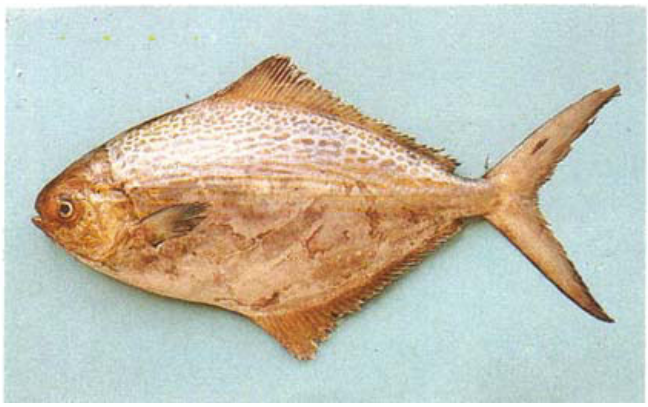
(103) SPARIDAE: ***Pagrus auriga*** 235 mm SL
(Ph.: Bianchi)

(104) SPARIDAE: ***Pagrus caeruleostictus*** 570 mm SL
(Ph.: Bianchi)

(105) SPARIDAE: ***Sarpa salpa***
(Ph.: Bellemans)



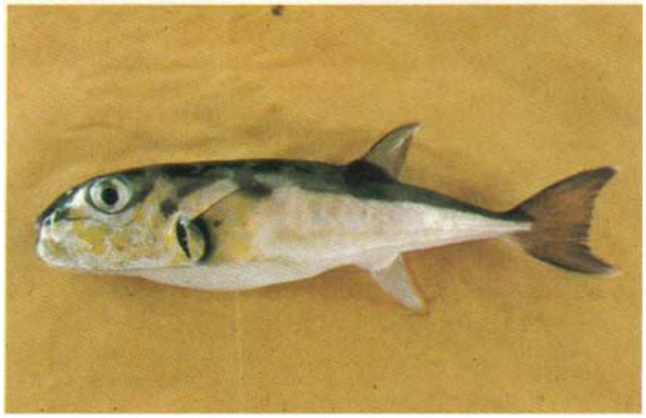
(106) SPARIDAE: ***Spondyliosoma cantharus***
(Ph.: Bellemans)



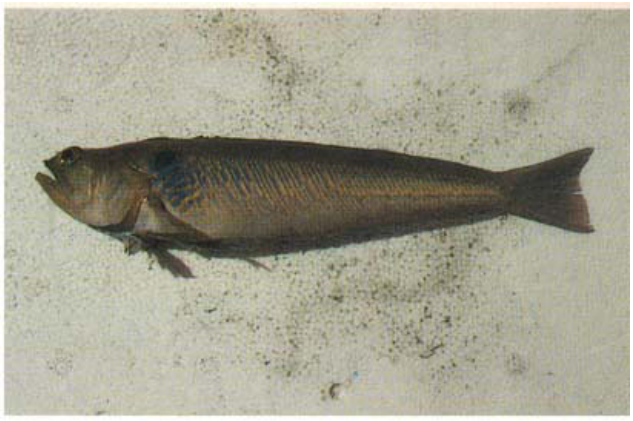
(107) STROMATEIDAE: ***Stromateus fiatola***
(Ph.: Bellemans)

(108) SYNODONTIDAE: ***Trachinocephalus myops***
(Ph.: Bellemans)

PLATE XVI

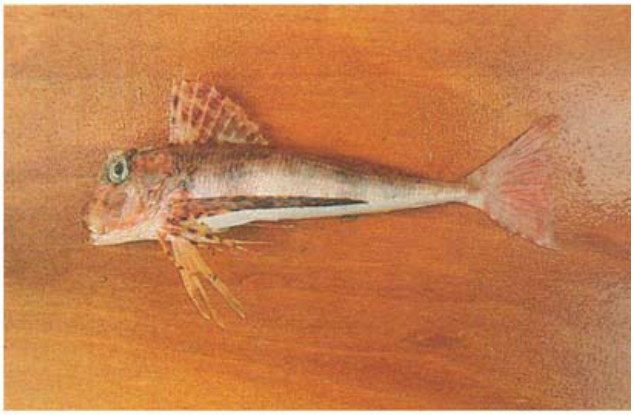


(109) TETRAODONTIDAE: ***Lagocephalus laevigatus***
150 mm SL (Ph.: Bianchi)

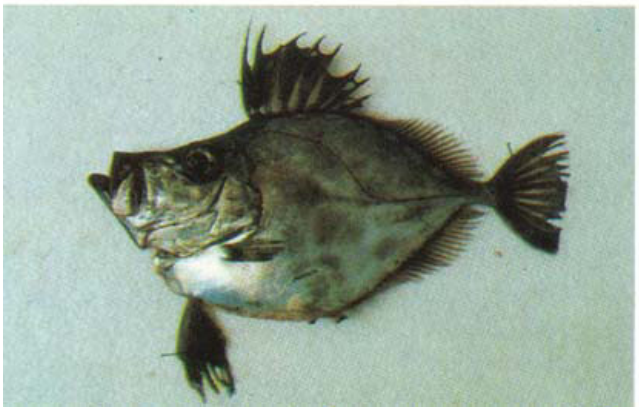


(110) TRACHINIDAE: ***Trachinus armatus***
(Ph.: W. Schneider)

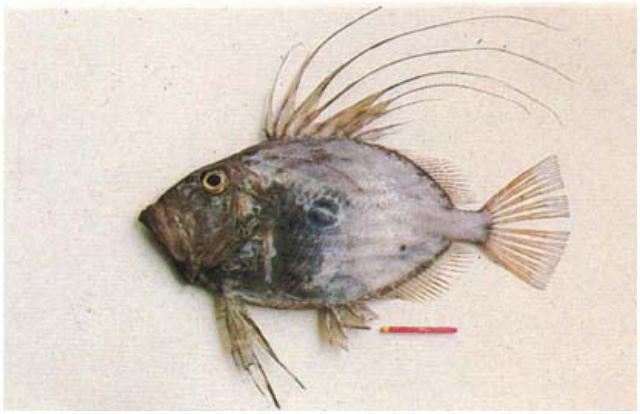
(111) TRACHINIDAE: ***Trachinus pellegrini***
(Ph.: Bellemans)



(112) TRIGLIDAE: ***Chelidonichthys lastoviza***
(Ph.: Bellemans)



(113) ZEIDAE: ***Zenopsis conchifer***
(Ph.: Bianchi)



(114) ZEIDAE: ***Zeus faber***
(Ph.: Bellemans)