

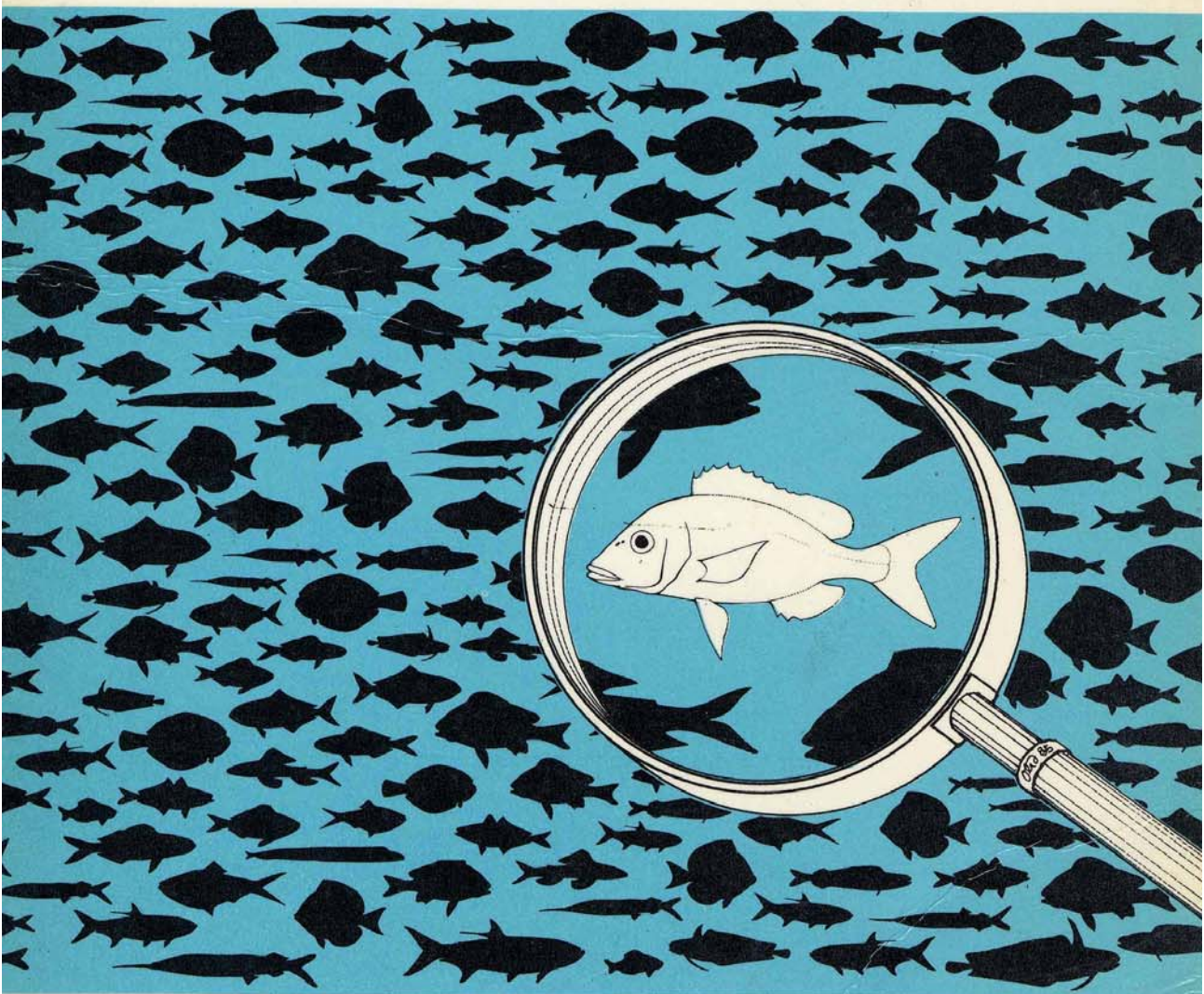


FAO SPECIES IDENTIFICATION SHEETS FOR FISHERY PURPOSES

PROJECT TCP/URT/4406

FIELD GUIDE

COMMERCIAL MARINE AND BRACKISH WATER SPECIES OF TANZANIA



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

FAO SPECIES IDENTIFICATION SHEETS
FOR FISHERY PURPOSES

FIELD GUIDE TO THE COMMERCIAL MARINE AND BRACKISH-WATER SPECIES OF TANZANIA

by

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PREPARATION OF DOCUMENT

This document was prepared under the FAO Technical Cooperation Programme as one of the activities of a Project on Assistance to Fisheries Statistics in Tanzania (TCP/URT/4406), in collaboration with the FAO Regular Programme.

The author travelled to Tanzania in July/August for the purpose of assessing, at landing places and in markets, present constraints in local routine work involving identification and denomination of commercial marine and brackish-water species, and to examine, in collaboration with national counterpart personnel, the species composition of catches at selected places along the coast, for the purpose of collecting data and information by species to be used for the preparation of this field guide.

The basic reference used during the mission was the recently published set of FAO Species Identification Sheets for Fishery Purposes - Western Indian Ocean (Fishing Area 51) which proved to be invaluable for this purpose. However, this document is somewhat cumbersome to use for the average data collector since it includes many species not landed in Tanzania. It also does not provide local species denominations used within the country.

The preparation of the actual field guide was carried out by using illustrations and taxonomic data from the above-mentioned set of Identification Sheets, as well as the notes and local species names collected during the field mission. The final document was prepared under the FAO Species Identification Programme, and the printing was funded jointly by the above-mentioned TCP project and the FAO Regular Programme.

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Summary

This field guide includes the marine and brackish-water species of bony fishes, sharks, batoid fishes, lobsters, shrimps, cephalopods and marine turtles believed to be of interest to fisheries in Tanzania. Each major resources group is introduced by a general section on technical terms, followed by an annotated and illustrated list of the more important species which includes FAO names, local names commonly used, maximum size, habitat and fishing gear. A composite index of scientific and vernacular family and species names is also provided.

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	xiii
BONY FISHES	
TECHNICAL TERMS	1
Families	
Megalopidae - Tarpons	3
Albulidae - Bonefishes	3
Elopidae - Tenpounders	3
Clupeidae - Sardinellas, sardines, herrings, shads, pellenas	4
Engraulidae - Anchovies, thryssas	8
Chirocentridae - Wolf-herrings	11
Congridae - Congers	12
Muraenesocidae - Pike congers	13
Muraenidae - Morays	13
Anguillidae - Eels	15
Ariidae - Sea catfishes	16
Plotosidae - Eel catfishes	17
Chanidae - Milkfishes	18
Synodontidae - Lizardfishes	18
Lophiidae - Anglers	20
Ophidiidae - Brotulas	21
Atherinidae - Silversides	21
Exocoetidae - Flyingfishes	23
Hemiramphidae - Halfbeaks	23
Belonidae - Needlefishes	24
Holocentridae - Squirrelfishes, soldierfishes	26
Aulostomidae - Trumpetfishes	27
Fistulariidae - Cornetfishes	27
Platycephalidae - Flatheads	28
Serranidae - Groupers, seabasses, hinds, coraltrouts, lyretails	29
Teraponidae - Terapons	38
Priacanthidae - Glasseyes, bullseyes	40
Apogonidae - Cardinal fishes	40
Sillaginidae - Sillagos	41
Lactariidae - False trevallies	42
Pomatomidae - Bluefishes	42
Rachycentridae - Cobias	42
Echeneidae - Shark suckers	43
Carangidae - Pompanos, threadfishes, scads, trevallies, runners, pilotfishes, black pomfrets, queenfishes, jacks, darts	43
Coryphaenidae - Dolphinfishes	57
Menidae - Moonfishes	57
Leiognathidae - Toothponies, ponyfishes	58
Gerreidae - Silver-biddies	60
Lutjanidae - Jobfishes, snappers	61
Caesionidae - Fusiliers	71
Nemipteridae - Threadfin breams, monocle breams	72
Lobotidae - Tripletails	75
Haemulidae - Sweetlips, rubberlips, hotlips, grunters, piggies	75
Lethrinidae - Large-eye breams, emperors	81
Sparidae - Seabreams, soldierbreams	86
Sciaenidae - Croakers, drums	89
Mullidae - Goatfishes	91
Monodactylidae - Moonies	95
Kyphosidae - Sea chubs	95
Ephippidae - Spadefishes	96
Drepanidae - Sicklefishes	96
Chaetodontidae - Butterfly fishes	96
Pomacanthidae - Angelfishes	97
Pomacentridae - Sergeants, damselfishes	97
Platacidae - Batfishes	98
Mugilidae - Mulletts, kandas	98
Sphyrnidae - Barracudas	101
Polynemidae - Threadfins	103
Labridae - Hogfishes, wrasses, thicklips, tuskfishes, coris	104
Scaridae - Parrotfishes	110
Acanthuridae - Surgeonfishes, unicornfishes	112
Siganidae - Spinefoots	115
Scombridae - Wahoos, frigate tunas, mackerels, tunas, bonitos, Spanish mackerels, kingfishes, albacores, etc..	116
Trichiuridae - Hairtails	121

	Page
Xiphiidae - Swordfishes	121
Istiophoridae - Sailfishes, marlins, spearfishes	122
Psettodidae - Spiny turbot	123
Bothidae - Flounders	124
Soleidae - Soles	125
Cynoglossidae - Tonguesoles	125
Tetraodontidae - Pufferfishes, blowfishes, tobies	126
Balistidae - Triggerfishes	127
Monacanthidae - Leatherjackets	128
Diodontidae - Burrfishes, balloonfishes	128
SHARKS	
TECHNICAL TERMS	129
Families	
Alopiidae - Thresher sharks	130
Carcharhinidae - Sharks	130
Ginglymostomatidae - Nurse sharks	133
Hemigaleidae - Snaggletooth sharks	134
Lamnidae - Makos	134
Sphyrnidae - Hammerheads	134
Squalidae - Gulper sharks, kitefin sharks	135
Squatinae - Angelsharks	136
Stegostomatidae - Zebra sharks	136
Triakidae - Topes	137
BATOID FISHES	
TECHNICAL TERMS	139
Families	
Dasyatidae - Stingrays	140
Gymnuridae - Butterfly rays	141
Mobulidae - Mantas, devilrays	142
Myliobatidae - Eaglerays	142
Pristidae - Sawfishes	143
Rajidae - Skates	144
Rhinobatidae - Guitarfishes	144
Rhinopteridae - Cownose rays	144
Rhynchobatidae - Wedgefishes	145
Torpedinidae - Electric rays	145
LOBSTERS	
TECHNICAL TERMS	147
Families	
Nephropidae - Lobsters	148
Palinuridae - Spiny lobsters	149
Scyllaridae - Locust lobsters	151
SHRIMPS AND PRAWNS	
TECHNICAL TERMS	153
Families	
Hippolytidae - Hunter shrimps	154
Palaemonidae - River prawns, spider prawns	154
Penaeidae - Shrimps, prawns	155
CEPHALOPODS	
TECHNICAL TERMS	159
Families	
Sepiidae - Cuttlefishes	161
Loliginidae - Squids	162
Onychoteutidae - Clubhook squids	163
Ommastrephidae - Flying squids	164
Thysanoteuthidae - Diamondback squids	165
Octopodidae - Octopuses	165
SEA TURTLES	
TECHNICAL TERMS	169
Families	
Chelonidae - Sea turtles	170
Dermochelidae - Leatherback turtles	171
INDEX OF SCIENTIFIC AND VERNACULAR NAMES	173

COLOUR PLATES

PLATE I

MEGALOPIDAE	1	<u>Megalops cyprinoides</u> 580 mm TL, Madagascar	Photo: G. Bianchi
CLUPEIDAE	2	<u>Hilsa kelee</u> 228 mm TL, Madagascar	Photo: G. Bianchi
	3	<u>Sardinella albella</u> 148 mm TL, Madagascar	Photo: G. Bianchi
SYNODONTIDAE	4	<u>Saurida undosquamis</u> 363 mm TL, Bahrain	Photo: J.E. Randall
HEMIRAMPHIDAE	5	<u>Hemiramphus far</u> 355 mm TL, Madagascar	Photo: G. Bianchi
SERRANIDAE	6	<u>Aethaloperca rogea</u> 276 mm SL, Red Sea	Photo: J.E. Randall

PLATE II

	7	<u>Anyperodon leucogrammicus</u> 242 mm SL, Palau Islands	Photo: J.E. Randall
	8	<u>Cephalopholis argus</u> 212 mm SL, Red Sea	Photo: J.E. Randall
	9	<u>Cephalopholis aurantia</u> 235 mm SL, Mauritius	Photo: J.E. Randall
	10	<u>Cephalopholis formosa</u> 108 mm SL, Phuket, Thailand	Photo: J.E. Randall
	11	<u>Cephalopholis miniata</u> 254 mm SL, Ryukyu Islands	Photo: J.E. Randall
	12	<u>Cephalopholis sexmaculata</u> 200 mm SL, Red Sea	Photo: J.E. Randall

PLATE III

	13	<u>Cephalopholis sonnerati</u> 330 mm SL, Mauritius	Photo: J.E. Randall
	14	<u>Epinephelus areolatus</u> 218 mm SL, Red Sea	Photo: J.E. Randall
	15	<u>Epinephelus caeruleopunctatus</u> 237 mm SL, Solomon Islands	Photo: J.E. Randall
	16	<u>Epinephelus chlorostigma</u> 327 mm SL, Red Sea	Photo: J.E. Randall
	17	<u>Epinephelus epistictus</u> 326 mm SL, Cochin, India	Photo: J.E. Randall
	18	<u>Epinephelus fasciatus</u> 153 mm SL, Mauritius	Photo: J.E. Randall

PLATE IV

	19	<u>Epinephelus fuscoguttatus</u> 90 mm SL, Red Sea	Photo: J.E. Randall
	20	<u>Epinephelus malabaricus</u> 584 mm SL, Red Sea	Photo: J.E. Randall
	21	<u>Epinephelus merra</u> 176 mm SL, Tahiti	Photo: J.E. Randall
	22	<u>Epinephelus microdon</u> 408 mm SL, Red Sea	Photo: J.E. Randall
	23	<u>Epinephelus morrhua</u> 345 mm SL, Red Sea	Photo: J.E. Randall
	24	<u>Epinephelus ongus</u> 222 mm SL, Ponape	Photo: J.E. Randall

PLATE V

	25	<u>Epinephelus rivulatus</u> 221 mm SL, Natal	Photo: J.E. Randall
	26	<u>Epinephelus spilotoceps</u> 182 mm SL, Marshall Islands	Photo: J.E. Randall
	27	<u>Epinephelus tauvina</u> 310 mm SL, Red Sea	Photo: J.E. Randall
	28	<u>Epinephelus undulosus</u> 158 mm SL, the Philippines	Photo: J.E. Randall
	29	<u>Plectropomus laevis</u> 492 mm SL, Marshall Islands	Photo: J.E. Randall
	30	<u>Plectropomus maculatus</u> 380 mm SL, Red Sea	Photo: J.E. Randall

PLATE VI

	31	<u>Plectropomus punctatus</u> 440 mm SL, Seychelles	Photo: J.E. Randall
	32	<u>Variola albimarginata</u> 254 mm SL, Reunion Islands	Photo: J.E. Randall
	33	<u>Variola louti</u> 273 mm SL, Marshall Islands	Photo: J.E. Randall
TERAPONIDAE	34	<u>Terapon jarbua</u> 138 mm TL, Madagascar	Photo: G. Bianchi
	35	<u>Terapon puta</u> 105 mm SL, Bahrain	Photo: J.E. Randall
CARANGIDAE	36	<u>Alectis indicus</u> 265 mm TL, Madagascar	Photo: G. Bianchi

PLATE VII

	37	<u>Alepes djedaba</u> 185 mm TL, Madagascar	Photo: G. Bianchi
	38	<u>Carangoides armatus</u> 215 mm TL, Madagascar	Photo: G. Bianchi
	39	<u>Carangoides bajad</u> 430 mm SL, Bahrain	Photo: J.E. Randall
	40	<u>Carangoides ferdau</u> 243 mm SL, Bahrain	Photo: J.E. Randall
	41	<u>Carangoides malabaricus</u> 272 mm SL, Bahrain	Photo: J.E. Randall
	42	<u>Caranx ignobilis</u> 215 mm TL, Madagascar	Photo: G. Bianchi

PLATE VIII

43	<u>Caranx papuensis</u> 245 mm TL, Madagascar	Photo: G. Bianchi
44	<u>Caranx sem</u> 685 mm SL, Bahrain	Photo: J.E. Randall
45	<u>Caranx sexfasciatus</u> 705 mm TL, Madagascar	Photo: G. Bianchi
46	<u>Megalaspis cordyla</u> 372 mm TL, Madagascar	Photo: G. Bianchi
47	<u>Scomberoides lysan</u> 202 mm TL, Madagascar	Photo: G. Bianchi
48	<u>Scomberoides tol</u> 365 mm TL, Madagascar	Photo: G. Bianchi

PLATE IX

MENIDAE LEIOGNATHIDAE	49	<u>Trachinotus blochii</u> 687 mm TL, Bahrain	Photo: J.E. Randall
	50	<u>Mene maculata</u> 175 mm TL, Madagascar	Photo: G. Bianchi
	51	<u>Gazza minuta</u> 127 mm TL	Drawing prov. by P.S.B.R. James
	52	<u>Leiognathus berbis</u> 93 mm TL	Drawing prov. by P.S.B.R. James
	53	<u>Leiognathus elongatus</u> 56 mm TL	Drawing prov. by P.S.B.R. James
	54	<u>Leiognathus equulus</u> 156 mm TL	Drawing prov. by P.S.B.R. James

PLATE X

LUTJANIDAE	55	<u>Leiognathus fasciatus</u> 90 mm TL	Drawing prov. by P.S.B.R. James
	56	<u>Leiognathus leuciscus</u> 125 mm TL	Drawing prov. by P.S.B.R. James
	57	<u>Leiognathus splendens</u> 120 mm TL	Drawing prov. by P.S.B.R. James
	58	<u>Secutor insidiator</u> 107 mm TL	Drawing prov. by P.S.B.R. James
	59	<u>Aphareus furcatus</u>	Drawing: M. Thompson
	60	<u>Aphareus rutilans</u>	Drawing: R. Swainston

PLATE XI

61	<u>Aprion virescens</u>	Drawing: R. Swainston
62	<u>Apsilus fuscus</u>	Drawing: R. Swainston
63	<u>Etelis carbunculus</u>	Drawing: M. Thompson
64	<u>Etelis coruscans</u>	Drawing: M. Thompson
65	<u>Lutjanus argentimaculatus</u>	Drawing: R. Swainston
66	<u>Lutjanus bengalensis</u>	Drawing: M. Thompson

PLATE XII

67	<u>Lutjanus bohar</u>	Drawing: M. Thompson
68	<u>Lutjanus ehrenbergi</u>	Drawing: M. Thompson
69	<u>Lutjanus erythropterus</u>	Drawing: R. Swainston
70	<u>Lutjanus fulviflamma</u>	Drawing: R. Swainston
71	<u>Lutjanus fulvus</u>	Drawing: M. Thompson
72	<u>Lutjanus gibbus</u>	Drawing: R. Swainston

PLATE XIII

73	<u>Lutjanus johnii</u>	Drawing: R. Swainston
74	<u>Lutjanus kasmira</u>	Drawing: M. Thompson
75	<u>Lutjanus lunulatus</u>	Drawing: M. Thompson
76	<u>Lutjanus lutjanus</u>	Drawing: R. Swainston
77	<u>Lutjanus malabaricus</u>	Drawing: R. Swainston
78	<u>Lutjanus monostigma</u>	Drawing: M. Thompson

PLATE XIV

79	<u>Lutjanus rivulatus</u>	Drawing: M. Thompson
80	<u>Lutjanus russelli</u>	Drawing: R. Swainston
81	<u>Lutjanus sanguineus</u>	Drawing: M. Thompson
82	<u>Lutjanus sebae</u>	Drawing: R. Swainston
83	<u>Lutjanus vitta</u>	Drawing: R. Swainston
84	<u>Macolor niger</u>	Drawing: R. Swainston

PLATE XV

CAESIONIDAE	85	<u>Paracaesio xanthurus</u>	Drawing: R. Swainston
	86	<u>Pinjalo pinjalo</u>	Drawing: P. Lastrico
	87	<u>Pristipomoides filamentosus</u>	Drawing: R. Swainston
	88	<u>Pristipomoides typus</u>	Drawing provided by F. Talbot
	89	<u>Pristipomoides zonatus</u>	Drawing: M. Thompson
	90	<u>Caesio caerulaureus</u> 208 mm SL, Solomon Islands	Photo: J.E. Randall

PLATE XVI

- | | | |
|----|---|---------------------|
| 91 | <u>Caesio xanthonotus</u> 139 mm SL, Maldive Islands | Photo: J.E. Randall |
| 92 | <u>Caesio lunaris</u> , Red Sea (underwater ph.) | Photo: J.E. Randall |
| 93 | <u>Pterocaesio chrysozona</u> 99 mm SL, Red Sea | Photo: J.E. Randall |
| 94 | <u>Pterocaesio diagramma</u> 230 mm TL, the Philippines | Photo: J.E. Randall |
| 95 | <u>Pterocaesio pisang</u> 107 mm SL, Solomon Islands | Photo: J.E. Randall |
| 96 | <u>Pterocaesio tile</u> 175 mm SL, Marshall Islands | Photo: J.E. Randall |

PLATE XVII

- | | | | |
|--------------|-----|---|-----------------------|
| NEMIPTERIDAE | 97 | <u>Nemipterus bleekeri</u> | Drawing: D. Eggleston |
| | 98 | <u>Nemipterus japonicus</u> 186 mm SL, Madras, India | Photo: J.E. Randall |
| | 99 | <u>Nemipterus metopias</u> | Drawing: D. Eggleston |
| | 100 | <u>Parascopis eriomma</u> 198 mm SL, Ryukyu Islands | Photo: J.E. Randall |
| | 101 | <u>Scolopsis vosmeri</u> 159 mm SL, Sri Lanka | Photo: J.E. Randall |
| | 102 | <u>Scolopsis bimaculatus</u> 90 mm SL, Mulloor Point, India | Photo: J.E. Randall |

PLATE XVIII

- | | | | |
|-------------------------|-----|---|---------------------|
| LOBOTIDAE
HAEMULIDAE | 103 | <u>Scolopsis ghanam</u> 150 mm SL, Red Sea | Photo: J.E. Randall |
| | 104 | <u>Lobotes surinamensis</u> 480 mm TL, Madagascar | Photo: G. Bianchi |
| | 105 | <u>Diagramma pictum</u> 504 mm SL, Red Sea | Photo: J.E. Randall |
| | 106 | <u>Plectorhinchus chubbii</u> 298 mm SL, Sri Lanka | Photo: J.E. Randall |
| | 107 | <u>Plectorhinchus flavomaculatus</u> 164 mm SL, Kenya | Photo: J.E. Randall |
| | 108 | <u>Plectorhinchus gaterinus</u> 134 mm SL, Mafia Island, Tanzania | Photo: J.E. Randall |

PLATE XIX

- | | | |
|-----|--|---------------------|
| 109 | <u>Plectorhinchus gibbosus</u> 277 mm SL, Seychelles | Photo: J.E. Randall |
| 110 | <u>Plectorhinchus orientalis</u> 216 mm SL, Sri Lanka | Photo: J.E. Randall |
| 111 | <u>Plectorhinchus playfairi</u> 372 mm SL, Natal | Photo: J.E. Randall |
| 112 | <u>Plectorhinchus schotaf</u> 255 mm SL, Red Sea | Photo: J.E. Randall |
| 113 | <u>Plectorhinchus sordidus</u> 237 mm SL, Gulf of Oman | Photo: J.E. Randall |
| 114 | <u>Pomadasys furcatus</u> 230 mm TL, Madagascar | Photo: G. Bianchi |

PLATE XX

- | | | | |
|-------------|-----|--|---------------------|
| LETHRINIDAE | 115 | <u>Pomadasys kaakan</u> 212 mm TL Madagascar | Photo: G. Bianchi |
| | 116 | <u>Gnathodentex aurolineatus</u> 147 mm SL, Fanning Island | Photo: J.E. Randall |
| | 117 | <u>Gymnocranius robinsoni</u> 375 mm SL, Mauritius | Photo: J.E. Randall |
| | 118 | <u>Lethrinus conchiliatus</u> 500 mm SL, Madagascar | Photo: G. Bianchi |
| | 119 | <u>Lethrinus elongatus</u> 430 mm SL, Marshall Islands | Photo: J.E. Randall |
| | 120 | <u>Lethrinus harak</u> 207 mm SL, Sudan | Photo: J.E. Randall |

PLATE XXI

- | | | |
|-----|---|---------------------|
| 121 | <u>Lethrinus kallopterus</u> 189 mm SL, Solomon Islands | Photo: J.E. Randall |
| 122 | <u>Lethrinus lentjan</u> 175 mm SL, India | Photo: J.E. Randall |
| 123 | <u>Lethrinus mahsena</u> 198 mm SL, Red Sea | Photo: J.E. Randall |
| 124 | <u>Lethrinus mahsena</u> 252 mm SL, Mauritius | Photo: J.E. Randall |
| 125 | <u>Lethrinus mahsenoides</u> 224 mm SL, Mauritius | Photo: J.E. Randall |
| 126 | <u>Lethrinus microdon</u> 122 mm SL, New Britain | Photo: J.E. Randall |

PLATE XXII

- | | | |
|-----|--|---------------------|
| 127 | <u>Lethrinus nebulosus</u> 234 mm SL, India | Photo: J.E. Randall |
| 128 | <u>Lethrinus ramak</u> 295 mm SL, Marshall Islands | Photo: J.E. Randall |
| 129 | <u>Lethrinus rubrioperculatus</u> 131 mm SL, Mauritius | Photo: J.E. Randall |
| 130 | <u>Lethrinus variegatus</u> 135 mm SL, Red Sea | Photo: J.E. Randall |
| 131 | <u>Lethrinus xanthochilus</u> 194 mm SL, Red Sea | Photo: J.E. Randall |
| 132 | <u>Monotaxis grandoculis</u> 220 mm SL, Marshall Islands | Photo: J.E. Randall |

PLATE XXIII

- | | | | |
|----------|-----|---|---------------------|
| SPARIDAE | 133 | <u>Acanthopagrus berda</u> 185 mm TL, Madagascar | Photo: G. Bianchi |
| | 134 | <u>Crenidens crenidens</u> 198 mm TL, Madagascar | Photo: G. Bianchi |
| MULLIDAE | 135 | <u>Mulloidens flavolineatus</u> 158 mm SL, Mauritius | Photo: J.E. Randall |
| | 136 | <u>Mulloidens vanicolensis</u> 150 mm SL, Tanzania | Photo: J.E. Randall |
| | 137 | <u>Parupeneus barberinus</u> 243 mm SL, Fanning Islands | Photo: J.E. Randall |
| | 138 | <u>Parupeneus bifasciatus</u> 198 mm SL, Oahu, Hawaii | Photo: J.E. Randall |

PLATE XXIV

- | | | |
|-----|---|---------------------|
| 139 | <u>Parupeneus cinnabarinus</u> 234 mm SL, Lord Howe Islands | Photo: J.E. Randall |
| 140 | <u>Parupeneus cyclostomus</u> 159 mm SL, Marshall Islands | Photo: J.E. Randall |
| 141 | <u>Parupeneus cyclostomus</u> 222 mm SL, Kona, India | Photo: J.E. Randall |
| 142 | <u>Parupeneus indicus</u> 164 mm SL, Tuticorin, India | Photo: J.E. Randall |
| 143 | <u>Parupeneus macronema</u> 151 mm SL, Red Sea | Photo: J.E. Randall |
| 144 | <u>Parupeneus pleurostigma</u> 160 mm SL, Marshall Islands | Photo: J.E. Randall |

PLATE XXV

- | | | |
|-----|--|---------------------|
| 145 | <u>Upeneus bensasi</u> 115 mm SL, Madras, India | Photo: J.E. Randall |
| 146 | <u>Upeneus moluccensis</u> 136 mm SL, Ambon, Indonesia | Photo: J.E. Randall |
| 147 | <u>Upeneus sulphureus</u> 160 mm SL, Madras, India | Photo: J.E. Randall |
| 148 | <u>Upeneus taeniopterus</u> 120 mm SL, Madras, India | Photo: J.E. Randall |
| 149 | <u>Upeneus tragula</u> 116 mm SL, Bahrain | Photo: J.E. Randall |
| 150 | <u>Upeneus vittatus</u> 155 mm SL, Mauritius | Photo: J.E. Randall |

PLATE XXVI

- | | | | |
|----------------|-----|---|---------------------|
| MONODACTYLIDAE | 151 | <u>Monodactylus argenteus</u> 130 mm TL, Madagascar | Photo: G. Bianchi |
| POLYNEMIDAE | 152 | <u>Polynemus sextarius</u> 186 mm TL, Madagascar | Photo: G. Bianchi |
| LABRIDAE | 153 | <u>Bodianus bilunulatus</u> 188 mm SL, Mauritius | Photo: J.E. Randall |
| | 154 | <u>Cheilinus chlorurus</u> 147 mm SL, Andrew Islands, Australia | Photo: J.E. Randall |
| | 155 | <u>Cheilinus diagrammus</u> male, 217 mm SL, Samoa | Photo: J.E. Randall |
| | 156 | <u>Cheilinus fasciatus</u> 150 mm SL, Red Sea | Photo: J.E. Randall |

PLATE XXVII

- | | | |
|-----|--|---------------------|
| 157 | <u>Cheilinus trilobatus</u> 205 mm SL, Palmyra Island E.C. Pacific | Photo: J.E. Randall |
| 158 | <u>Cheilinus undulatus</u> 915 mm SL, Marshall Islands | Photo: J.E. Randall |
| 159 | <u>Cheilio inermis</u> male, 206 mm SL, the Philippines | Photo: J.E. Randall |
| 160 | <u>Coris aygula</u> 115 mm SL, Marcus Islands | Photo: J.E. Randall |
| 161 | <u>Coris aygula</u> 465 mm SL, Marcus Islands | Photo: J.E. Randall |
| 162 | <u>Coris formosa</u> female, 225 mm SL, Sri Lanka | Photo: J.E. Randall |

PLATE XXVIII

- | | | |
|-----|--|---------------------|
| 163 | <u>Coris gaimard africana</u> 280 mm SL, Mauritius | Photo: J.E. Randall |
| 164 | <u>Gomphosus coeruleus</u> 132 mm SL, Red Sea | Photo: J.E. Randall |
| 165 | <u>Halichoeres hortulanus centiquadrus</u> 158 mm SL, Mauritius | Photo: J.E. Randall |
| 166 | <u>Thalassoma fuscum</u> initial phase, 153 mm SL, Pitcairn Islands | Photo: J.E. Randall |
| 167 | <u>Thalassoma fuscum</u> terminal phase, 162 mm SL, Johnston Islands | Photo: J.E. Randall |
| 168 | <u>Thalassoma purpureum</u> female, 150 mm SL, Marshall Islands | Photo: J.E. Randall |

PLATE XXIX

- | | | | |
|----------|-----|--|---------------------|
| SCARIDAE | 169 | <u>Thalassoma purpureum</u> male, 310 mm SL, Marcus Islands | Photo: J.E. Randall |
| | 170 | <u>Bolbometopon muricatum</u> 570 mm SL, Aki Sinoto | Photo: J.E. Randall |
| | 171 | <u>Calotomus carolinus</u> initial phase female, 235 mm SL, Hawaii | Photo: J.E. Randall |
| | 172 | <u>Calotomus carolinus</u> terminal phase male, 318 mm SL, Hawaii | Photo: J.E. Randall |
| | 173 | <u>Cetoscarus bicolor</u> juvenile, 123 mm SL, Red Sea | Photo: J.E. Randall |
| | 174 | <u>Cetoscarus bicolor</u> initial phase female, 348 mm SL, Red Sea | Photo: J.E. Randall |

PLATE XXX

- | | | |
|-----|--|---------------------|
| 175 | <u>Cetoscarus bicolor</u> terminal phase male, 365 mm SL, Red Sea | Photo: J.E. Randall |
| 176 | <u>Hipposcarus harid</u> initial phase female, 328 mm SL, Red Sea | Photo: J.E. Randall |
| 177 | <u>Hipposcarus harid</u> terminal phase male, 335 mm SL, Red Sea | Photo: J.E. Randall |
| 178 | <u>Leptoscarus vaigiensis</u> init. phase female, 159 mm SL, Mauritius | Photo: J.E. Randall |
| 179 | <u>Leptoscarus vaigiensis</u> term. phase male, 179 mm SL, Mauritius | Photo: J.E. Randall |
| 180 | <u>Scarus ghobban</u> initial phase female, 228 mm SL, Ponape | Photo: J.E. Randall |

PLATE XXXI

- | | | | |
|-----------|-----|---|----------------------|
| SIGANIDAE | 181 | <u>Scarus ghobban</u> terminal phase male, 450 mm SL, Bahrain | Photo: J.E. Randall |
| | 182 | <u>Siganus argenteus</u> | Drawing: A. Meschini |
| | 183 | <u>Siganus canaliculatus</u> | Drawing: A. Meschini |
| | 184 | <u>Siganus luridus</u> | Drawing: A. Meschini |
| | 185 | <u>Siganus stellatus</u> | Drawing: A. Meschini |
| | 186 | <u>Siganus sutor</u> | Drawing: A. Meschini |

PLATE XXXII

SCOMBRIDAE	187	<u>Auxis thazard</u> 401 mm FL, Bahrain	Photo: J.E. Randall
	188	<u>Rastrelliger kanagurta</u> 238 mm FL, Cochin, India	Photo: J.E. Randall
	189	<u>Scomberomorus commerson</u> 658 mm FL, Bahrain	Photo: J.E. Randall
PSETTODIDAE	190	<u>Psettodes erumei</u> Madagascar	Photo: G. Bianchi
BOTHIDAE	191	<u>Bothus pantherinus</u> 124 mm SL, Bahrain	Photo: J.E. Randall
BALISTIDAE	192	<u>Abalistes stellatus</u> 280 mm SL, Bahrain	Photo: J.E. Randall

INTRODUCTION

This guide is designed as a practical tool for all fisheries workers within Tanzania, particularly those who are confronted with the daily task of collecting fisheries statistics and other data by species on landing places and in fish markets. It includes those marine and brackish water species of bony fishes, sharks, batoid fishes, lobsters, shrimps, cephalopods and marine turtles considered as regular components of the catches along the Tanzanian coast.

Correct identification of species entering the catches is of significant importance for the improvement of the quality of statistical data utilized by the Fisheries Division and other relevant units in the Tanzanian administration, in order to facilitate an adequate planning of fisheries development and management of the country's living marine and brackish-water resources. Because of the great species diversity characteristic of this tropical area, the considerable difficulties in separating similar species, in establishing meaningful groupings of species, and the unavailability of proper taxonomic literature, it is essential to provide national fishery workers with practical and reliable guidance in this field. Our leading idea was to achieve a compact and easily manageable booklet that would be at the reach of fishery workers at all levels. Consequently, the guide had to be based largely on illustrations, while the text was kept as succinct as possible. This obviously implies certain limitations of the guide as a means of scientific identification of all species. It is therefore strongly recommended, in case of doubt, to consult the regional set of FAO Species Identification Sheets for the Western Indian Ocean, which is more comprehensive in species coverage and gives a much more detailed account of the diagnostic characters of each species.

Presentation and Format

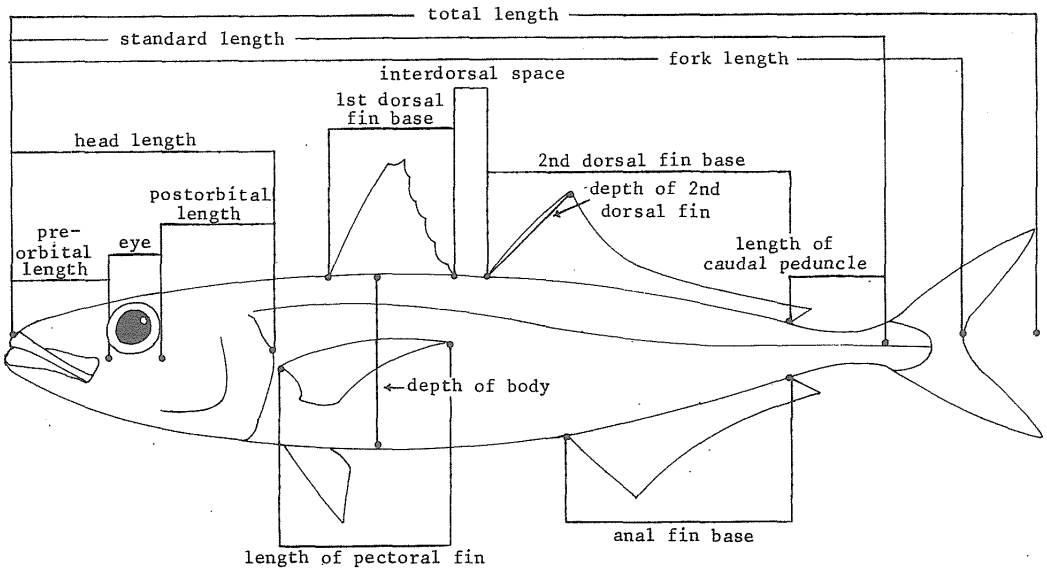
Each one of the major commercial groups is introduced by a schematic illustration showing the main parts of a typical representative and some measurements and technical terms of general use to fishery workers.

Families (block letters in boxes at upper right corner of the sheets) are arranged by similarity for the three largest groups (bony fishes, sharks and batoid fishes) and in alphabetical order for the smaller groups (lobsters, shrimps, cephalopods and marine turtles). Species are arranged in alphabetical order (by scientific names) within each family.

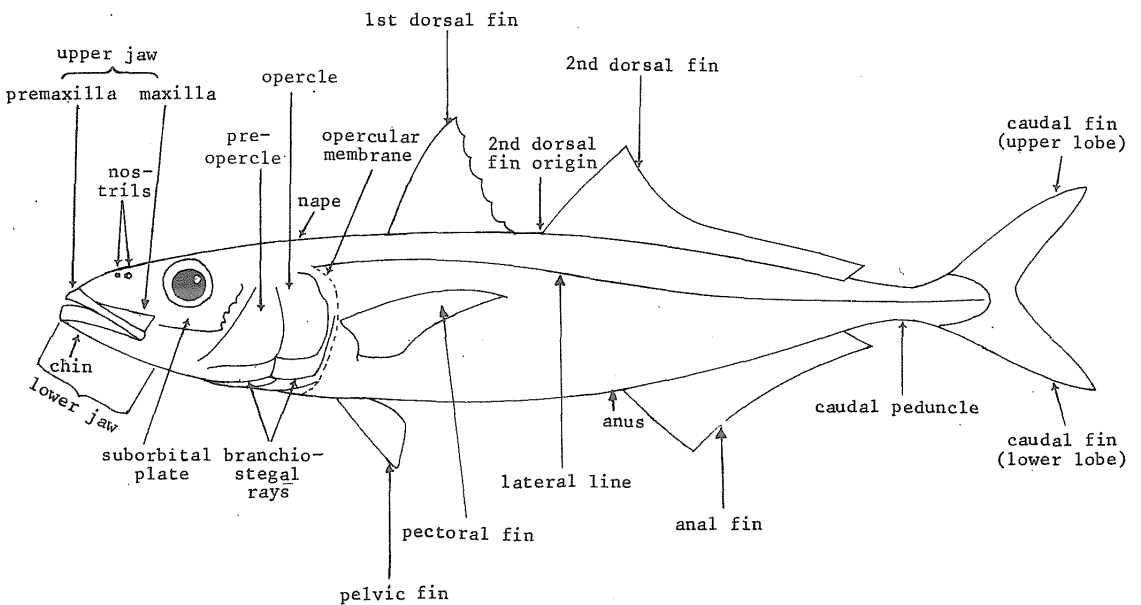
Texts for each species are restricted to information on names (scientific, regional and local) size, fishing gear and habitat. The words in brackets following local names indicate the localities from where the name has been obtained: Dar-es-Salaam (D); Mafia (M); Mtwara (Mt); Tanga (T); Zanzibar (Z). Localities are not provided for names more widespread in use. The local names included are those collected in the course of the field work of this project. It is hoped that other local names will be added directly on the sheets by users and made available to FAO. All information on species identification is presented in the form of captions and arrows directly on the species illustrations.

BONY FISHES

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS

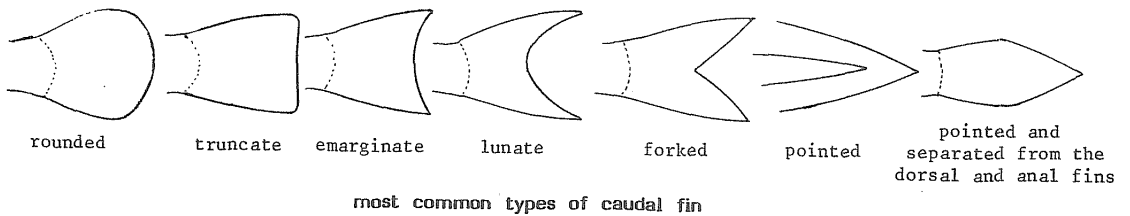
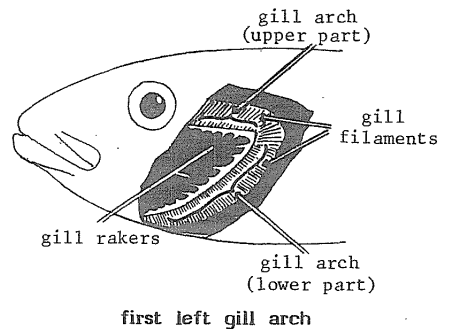
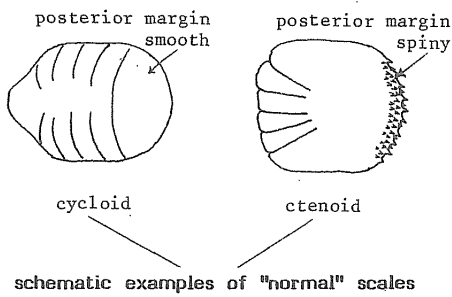
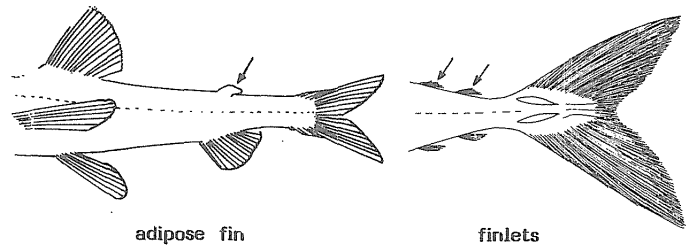
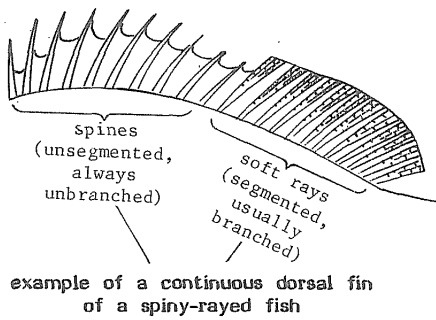
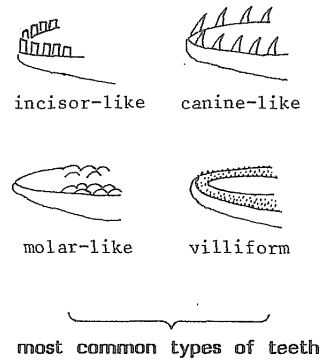
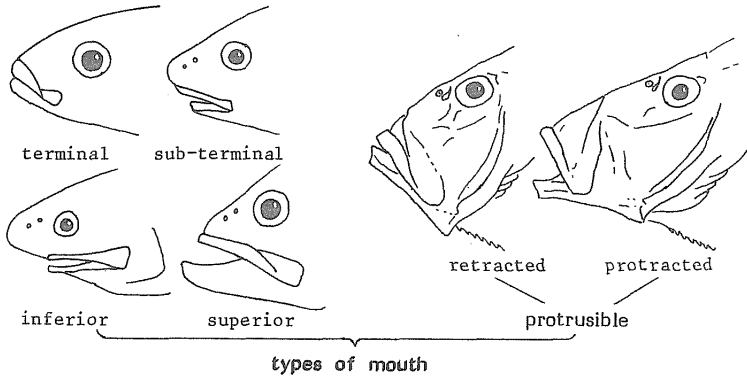


General Nomenclature of the External Morphology



BONY FISHES

Details
(all schematic examples)



BONY FISHES

Megalops cyprinoides (Broussonet, 1782)

MEGALOPIDAE

Synonyms : None

Loc. names : Cheche (D),(M)

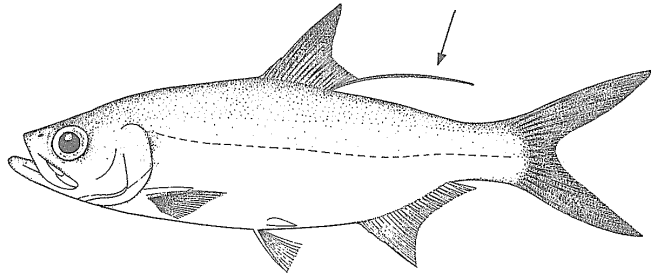
FAO names : En - Indo-Pacific tarpon
Fr - Tarpon indo-pacifique
Sp - Tarpon indo-pacífico

Size : Max.: 55 cm; common to 30 cm

Fishing gear : Gillnets, seines, trawls

Habitat : Coastal pelagic, entering lagoons and estuaries

PLATE I, 1



Albula vulpes (Linnaeus, 1758)

ALBULIDAE

Synonyms : Recent research has shown that the genus Albula includes two species: Albula glossodonta (Forsskal, 1775) and A. neoguinaica Cuvier & Valenciennes, 1846

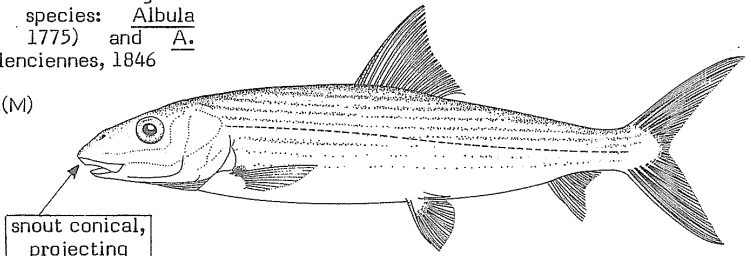
Loc. names : Chache (T); Mnyimbi (D),(M)
Panya (T); Kifimbo (Z)

FAO names : En - Bonefish
Fr - Banane
Sp - Macabí

Size : Max.: at least 50 cm

Fishing gear : Gillnets, angling and castnets

Habitat : Inshore, shallow waters on sandy and muddy bottoms



Elops machnata (Forsskal, 1775)

ELOPIDAE

Synonyms : Elops saurus (misidentification)

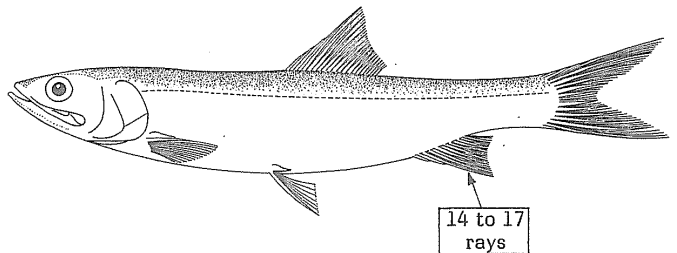
Loc. names : Hanisi (D); Kihanisi (M); Hanithi

FAO names : En - Tenpounder
Fr - Guinée saumon
Sp - Malacho salmón

Size : Max.: 90 cm; common to 50 cm

Fishing gear : Seines, gillnets, and handlines

Habitat : Pelagic in coastal waters, entering lagoons and estuaries



BONY FISHES

CLUPEIDAE

Amblygaster leiogaster (Valenciennes, 1847)

Synonyms : Sardinella leiogaster (Valenciennes, 1847)

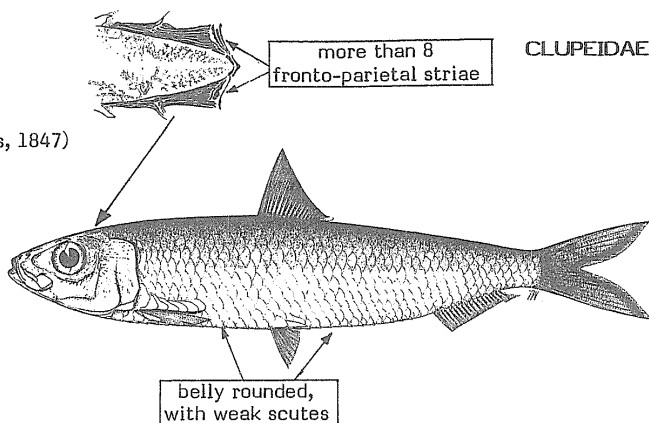
Loc. names : Dagaa-papa

FAO names : En - Smoothbelly sardinella
Fr - Sardinella daniva
Sp - Sardinella daniva

Size : Max.: 23 cm; common to 20 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in coastal waters



body subcylindrical

Amblygaster sirm (Walbaum, 1792)

Synonyms : Sardinella sirm (Walbaum, 1792)

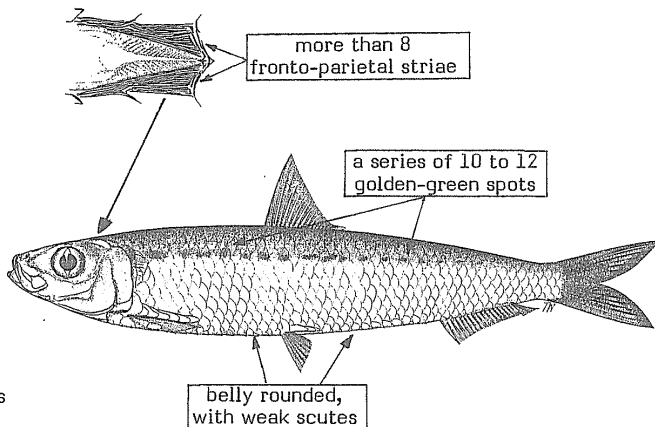
Loc. names : Dagaa-papa
Dagaa-suli (D)
Dagaa-damu (T)

FAO names : En - Spotted sardinella
Fr - Sardinelle tachetée
Sp - Sardinella manchada

Size : Max.: 23 cm; common to 20 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in coastal waters



body subcylindrical

Dussumieria acuta Valenciennes, 1847

Synonyms : None

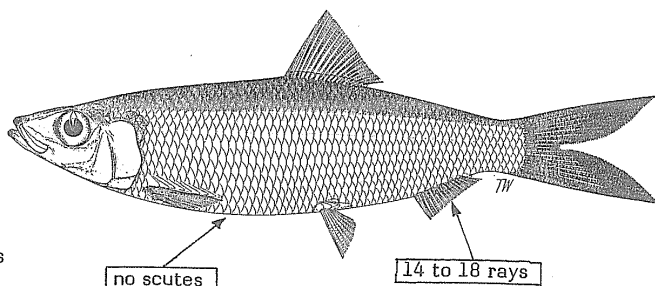
Loc. names : Dagaa-la-papa/Dagaa simu

FAO names : En - Rainbow sardine
Fr - Sardine arc-en-ciel
Sp - Sardina arco iris

Size : Max.: 20 cm; common to 15 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in coastal waters



BONY FISHES

Etrumeus teres (De Kay, 1840)

CLUPEIDAE

Synonyms : None

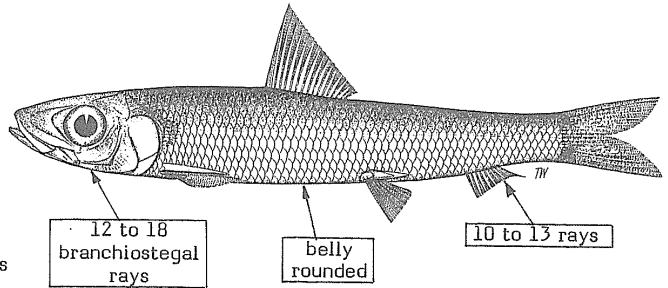
Loc. names : Dagaa

FAO names : En - Round herring
Fr - Shadine ronde
Sp - Sardineta canalera

Size : Max.: 20 cm; common to 14 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in inshore waters



Herklotsichthys punctatus (Rüppell, 1837)

Synonyms : Harengula punctata auct.
Harengula ovalis Fowler, 1941

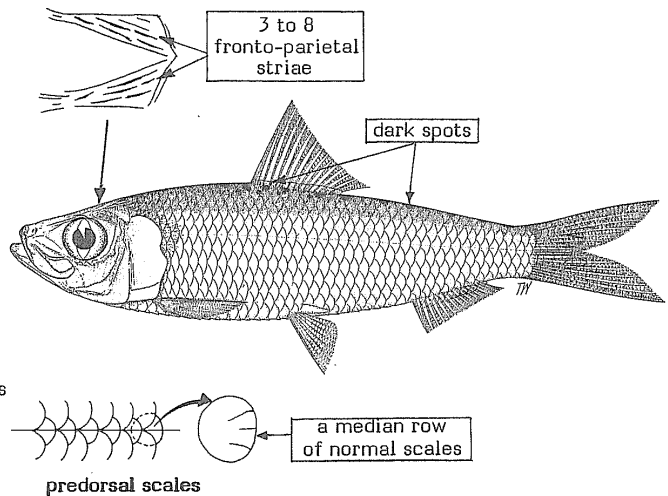
Loc. names : Dagaa papa

FAO names : En - Spotted herring
Fr - Hareng tacheté
Sp - Arenque manchado

Size : Max.: 8.5 cm; common to 7 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in coastal waters



Herklotsichthys quadrimaculatus (Rüppell, 1837)

Synonyms : Herklotsichthys punctatus (misidentification)
Herklotsichthys punctatus Form B, Whitehead, 1973

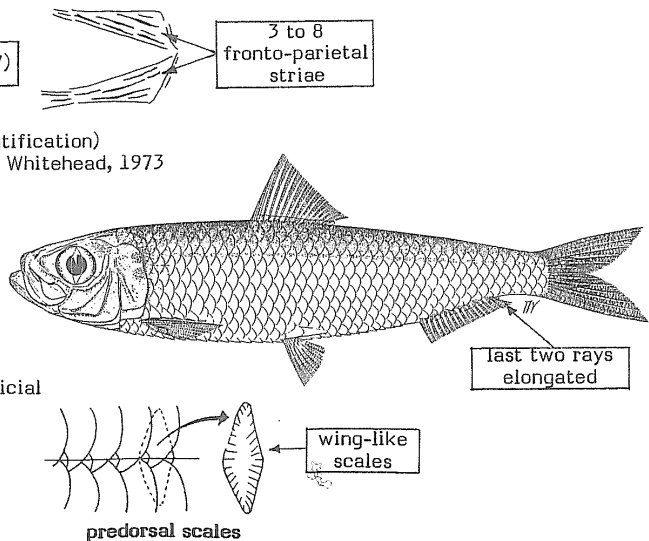
Loc. names : Dagaa-papa

FAO names : En - Bluestripe herring
Fr - Hareng à bande bleue
Sp - Aranque banda azul

Size : Max.: 14 cm; common to 10 cm

Fishing gear : Purse seines, ringnets (using artificial light) and dipnets

Habitat : Pelagic in coastal waters



BONY FISHES

CLUPEIDAE

Hiisa kelee (Cuvier, 1829)

Synonyms : Macrura kelee Fowler, 1941
Hiisa kanagurta (Bleeker, 1852)

Loc. names : Pata (D); Pawali; Dagaa; Mbarata

FAO names : En - Kelee shad
Fr - Aloose palli
Sp - Sábalo chandano

Size : Max.: 25 cm; common to 20 cm

Fishing gear : Purse seines, ringnets (using artificial light), dipnets and trawls

Habitat : Pelagic in coastal waters

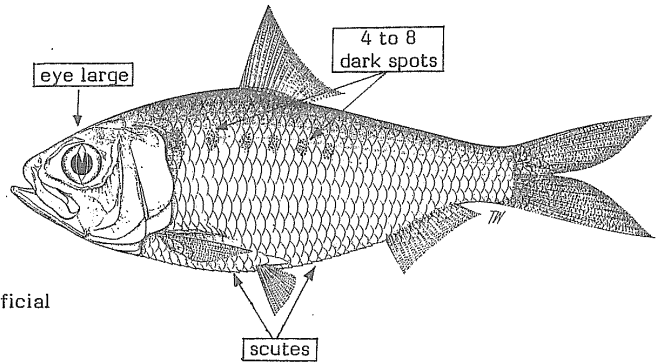


PLATE I, 2

Pellona ditchela Valenciennes, 1847

Synonyms : Pellona hoevenii Bleeker, 1852

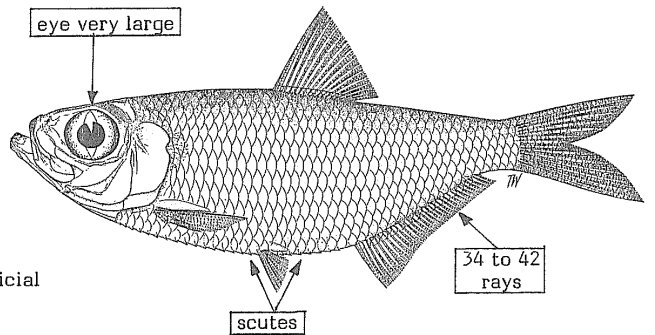
Loc. names : Dagaa (D)
Dagaa-papa (T)

FAO names : En - Indian pellona
Fr - Aloose-écaille indienne
Sp - Sardinata indica

Size : Max.: 16 cm; common to 13 cm

Fishing gear : Purse seines, ringnets (using artificial light), dipnets and trawls

Habitat : Pelagic in coastal waters and in estuaries, lagoons and rivers



Sardinella melanura (Cuvier, 1829)

Synonyms : None

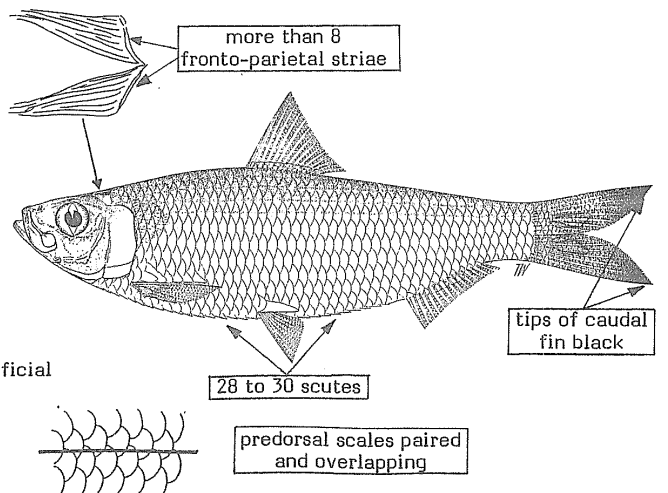
Loc. names : Dagaa-parata (T)
Dagaa la papa (D)
Pata

FAO names : En - Blacktip sardinella
Fr - Sardinelle queue noir
Sp - Sardinela rabo negro

Size : Max.: 12 cm; common to 10cm

Fishing gear : Purse seines, ringnets (using artificial light), dipnets

Habitat : Pelagic in coastal waters



BONY FISHES

CLUPEIDAE

Sardinella albella (Valenciennes, 1847)

Synonyms : Sardinella bualan (Bleeker, 1849)
Sardinella perforata (Cantor, 1850)
Harengula dollfusi Chabanaud, 1933

Loc. names : Dagaa-papa

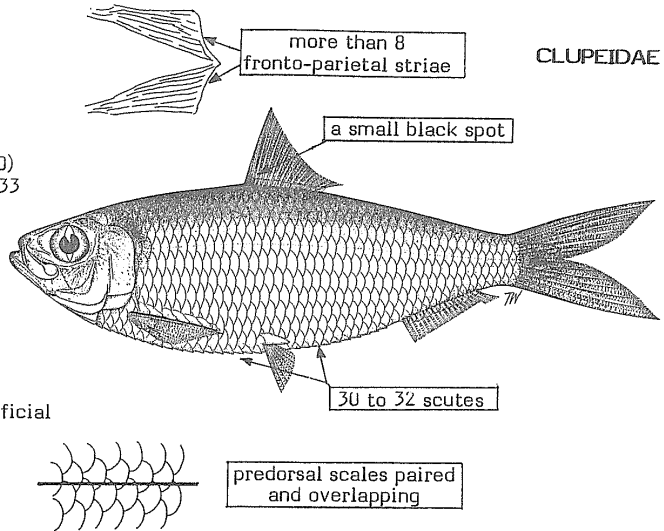
FAO names : En - White sardinella
 Fr - Sardine blanche
 Sp - Sardinela blanca

Size : Max.: 14 cm; common to 10 cm

Fishing gear : Purse seines, ringnets (with artificial light), dipnets

Habitat : Pelagic in coastal waters

PLATE 1, 3



Sardinella gibbosa (Bleeker, 1849)

Synonyms : Sardinella jussieu (Lacepède, 1803) (nomen dubium)
Sardinella tembang (Bleeker, 1851)
Sardinella taiwanensis Raja & Hiyama, 1969

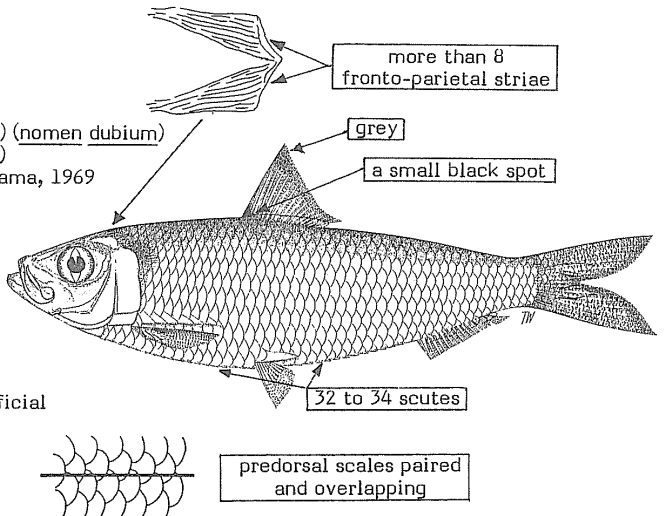
Loc. names : Dagaa-papa

FAO names : En - Goldstripe sardinella
 Fr - Sardine dorée
 Sp - Sardinela dorada

Size : Max.: 17 cm; common to 15 cm

Fishing gear : Purse seines, ringnets (with artificial light) and dipnets

Habitat : Pelagic in coastal waters



Sardinella neglecta Wongratana, 1983

Synonyms : Sardinella longiceps of authors

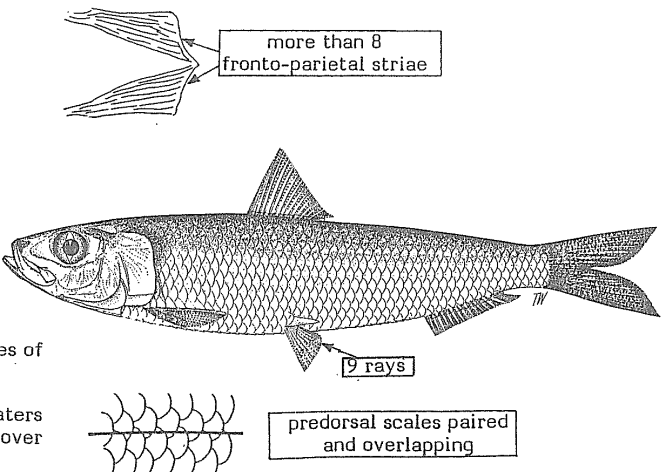
Loc. names : Dagaa-papa

FAO names : En - East African sardinella
 Fr - Sardine est africaine
 Sp - Sardinela africana oriental

Size : Max.: 13 cm

Fishing gear : Purse seines, dipnet and other types of artisanal gear

Habitat : Coastal pelagic, schooling; in waters of 1 to 60 m depth, in bays and over shallow banks



BONY FISHES

Spratelloides delicatulus (Bennett, 1831)

CLUPEIDAE

Synonyms : Stolephorus delicatulus: Fowler, 1941

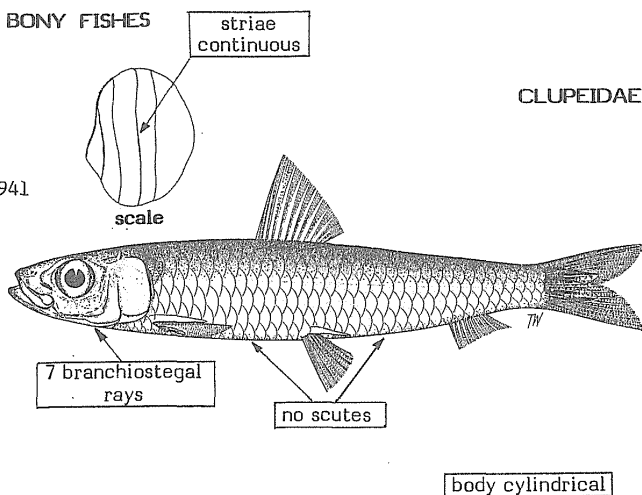
Loc. names : Dagaa

FAO names : En - Delicate round herring
Fr - Hareng rond
Sp - Arenquillo fino

Size : Max.: 7 cm; common to 6 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in coastal waters



Spratelloides gracilis (Schlegel, 1846)

Synonyms : Stolephorus japonicus: Fowler, 1941

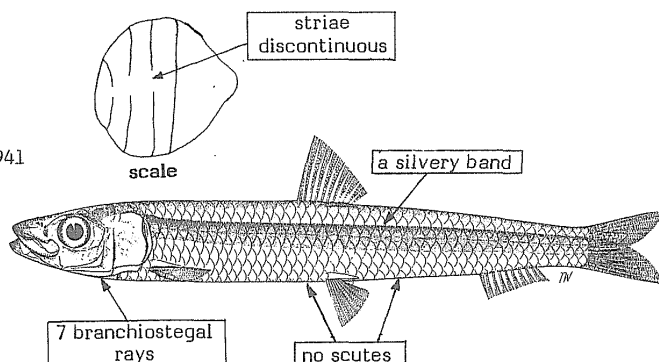
Loc. names : Dagaa

FAO names : En - Striped round herring
Fr - Hareng gracile
Sp - Arenquillo de banda

Size : Max.: 9.5 cm; common to 7 cm

Fishing gear : Purse seines, ringnets and dipnets

Habitat : Pelagic in coastal waters



Engraulis japonicus Schlegel, 1846

ENGRAULIDAE

Synonyms : Engraulis capensis Gilchrist, 1913

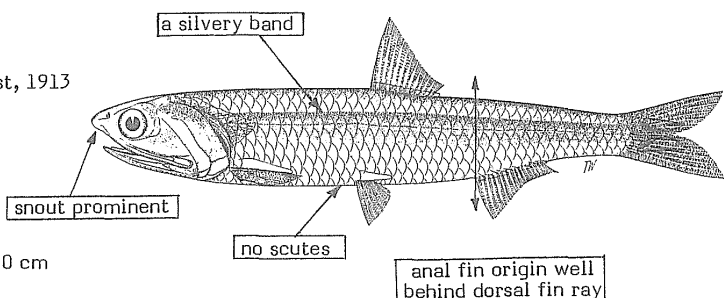
Loc. names :

FAO names : En - Japanese anchovy
Fr - Anchois japonais
Sp - Anchoita japonesa

Size : Max.: 12 cm; common to 10 cm

Fishing gear :

Habitat : Mainly pelagic in coastal waters; also down to about 400 m depth



BONY FISHES

Stolephorus heterolobus (Rüppell, 1837)

ENGRAULIDAE

Synonyms : Anchoviella heterolobus: Fowler, 1941

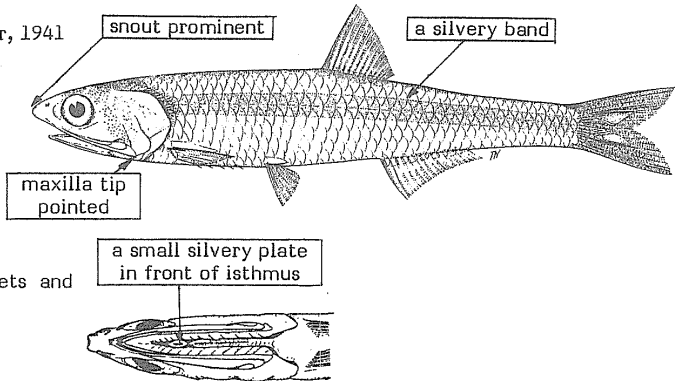
Loc. names : Dagaa-mcheli (D)
Uono (T)

FAO names : En - Shorthead anchovy
Fr - Anchois douanier
Sp - Boquerón aduanero

Size : Max.: 8 cm; common to 7 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



underside of head

Stolephorus punctifer (Fowler, 1938)

Synonyms : Stolephorus buccaneeri Strasburg, 1960

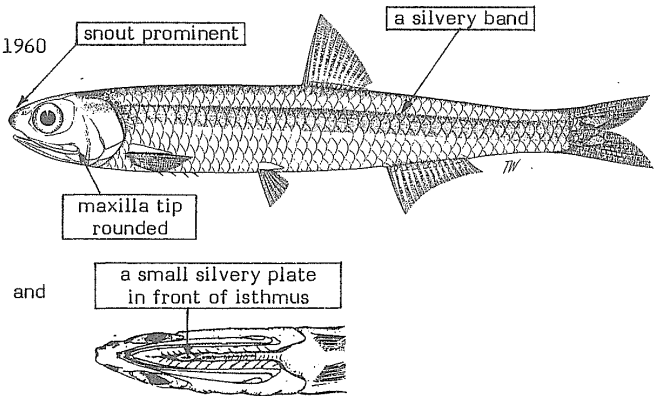
Loc. names : Dagaa-mcheli (D)
Uono (T)

FAO names : En - Buccaneer anchovy
Fr - Anchois boucanier
Sp - Boquerón bucanero

Size : Max.: 9 cm; common to 7 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



underside of head

Stolephorus indicus (van Hasselt, 1823)

Synonyms : Anchoviella indica Fowler, 1941

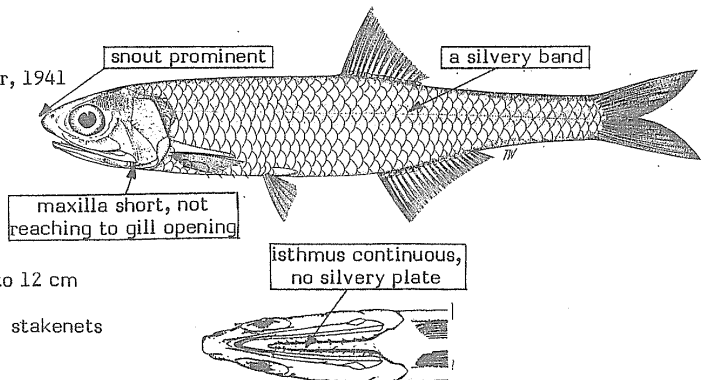
Loc. names : Dagaa-mcheli (D)
Uono (T)

FAO names : En - Indian anchovy
Fr - Anchois indien
Sp - Boquerón indio

Size : Max.: 15.5 cm; common to 12 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



underside of head

BONY FISHES

ENGRAULIDAE

Stolephorus commersonii Lacepède, 1803

Synonyms : Anchoviella commersonii: Fowler, 1941

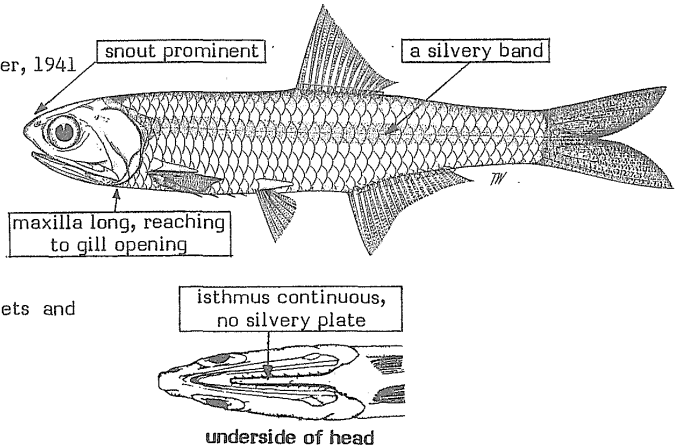
Loc. names : Dagaa-mcheli (D)
Uono (T)

FAO names : En - Commerson's anchovy
Fr - Anchois bombra
Sp - Boquerón bombra

Size : Max.: 10 cm; common to 8 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



Stolephorus devisi (Whitley, 1940)

Synonyms : Stolephorus species A of Ronguillo: Whitehead 1973

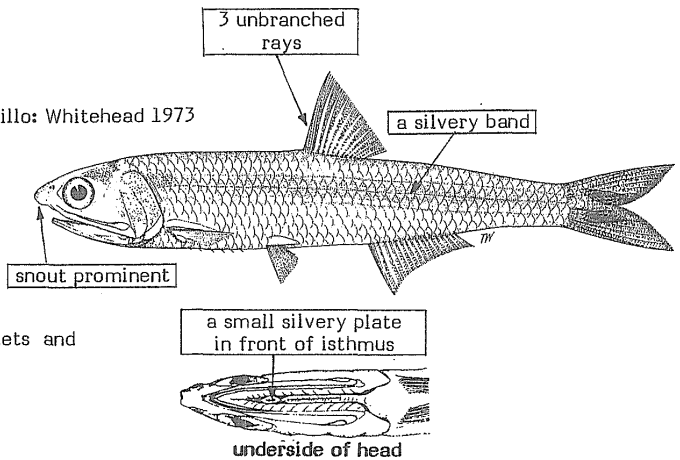
Loc. names : Dagaa-mcheli (D); Uono (T)

FAO names : En - Devis' anchovy
Fr - Anchois devis
Sp - Boquerón de Devis

Size : Max.: 8 cm; common to 7 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



Thryssa baelama (Forsskal, 1775)

Synonyms : Thrissocles baelama: Fowler, 1941
Thrissina baelama: Whitehead, 1973

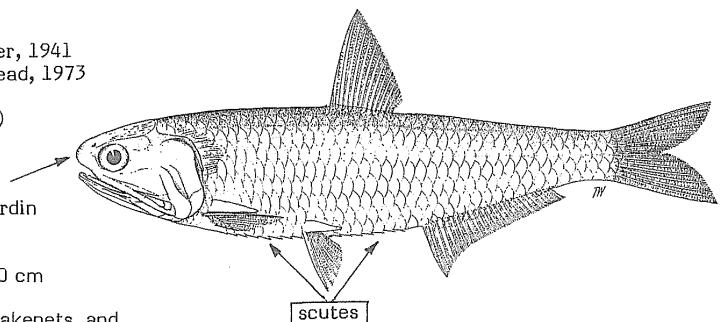
Loc. names : Dagaa (D); Dagaa-papa (T)
Shembea; Pata

FAO names : En - Baelama anchovy
Fr - Anchois-moustache sardin
Sp - Bocarte belama

Size : Max.: 11 cm; common to 10 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



BONY FISHES

Thryssa setirostris (Broussonet, 1782)

ENGRAULIDAE

Synonyms : Thrissocles setirostris: Fowler, 1941

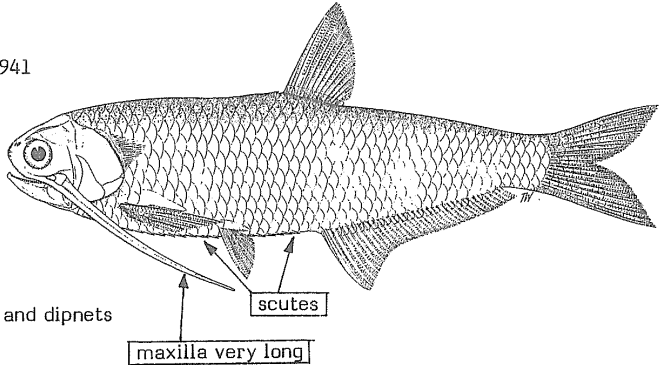
Loc. names : Dagaa-papa (T); Dagaa (D)
Shembea

FAO names : En - Longjaw thryssa
Fr - Anchois-moustache cornu
Sp - Bocarte de cuernos

Size : Max.: 15 cm; common to 12 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters



Thryssa vitirostris (Gilchrist & Thompson, 1908)

Synonyms : Thrissocles vitirostris: Fowler, 1941

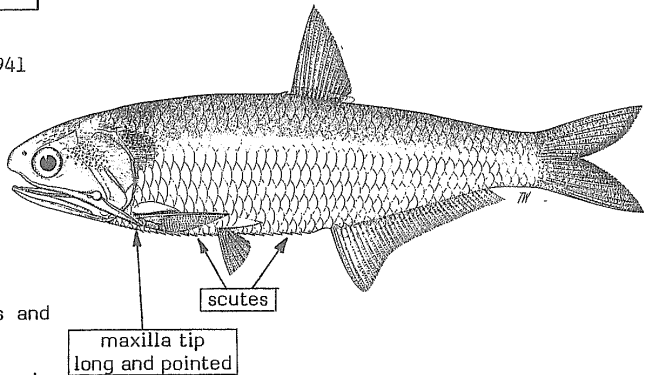
Loc. names : Dagaa papa (T)
Shembea; Dagaa (D); Pata

FAO names : En - Orangemouth anchovy
Fr - Anchois-moustache cristal
Sp - Bocarte cristal

Size : Max.: 18 cm; common to 15 cm

Fishing gear : Purse seines, ringnets, stakenets and dipnets

Habitat : Pelagic in coastal waters; also in estuaries



Chirocentrus dorab (Forsskal, 1775)

CHIROCENTRIDAE

Synonyms : None

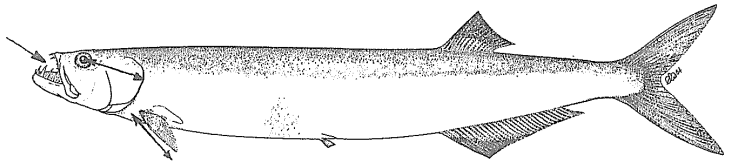
Loc. names : Mkonge

FAO names : En - Dorab wolf-herring
Fr - Chirocentre dorab
Sp - Arencon dorab

Size : Max.: 100 cm; common to 60 cm

Fishing gear : Traps, gillnets, seines and shallow-water trawls

Habitat : Pelagic, from the shore to about 120 m depth



pectoral fin shorter than distance between eye centre and hind border of gill cover

BONY FISHES

Chirocentrus nudus Swainson, 1839

CHIROCENTRIDAE

Synonyms : Chirocentrus dorab (misidentification)

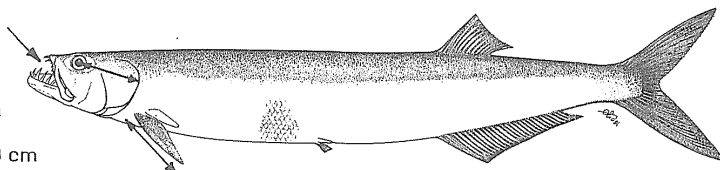
Loc. names : Mkonge

FAO names : En - Whitefin wolf-herring
Fr - Chirocentre sabre
Sp - Arencon de aleta blanca

Size : Max.: 100 cm; common to 60 cm

Fishing gear : Traps, gillnets, seines and shallow-water trawls

Habitat : Pelagic, from the shore to about 150 m depth



pectoral fin longer than distance between eye centre and hind border of gill cover

Conger cinereus cinereus Rüppell, 1828

CONGRIDAE

Synonyms : Conger cinereus Rüppell, 1828

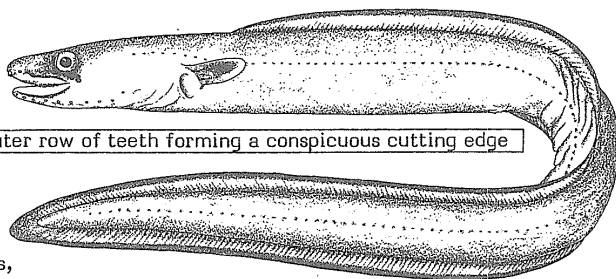
Loc. names : Mkunga

FAO names : En - Longfin African conger
Fr - Congre oiro
Sp - Congrio de aleta larga (Africa)

Size : Max.: 80 cm; common to about 50 cm

Fishing gear : Handlines, various types of nets, trawls

Habitat : Reef areas



outer row of teeth forming a conspicuous cutting edge

Uroconger lepturus (Richardson, 1848)

Synonyms : None

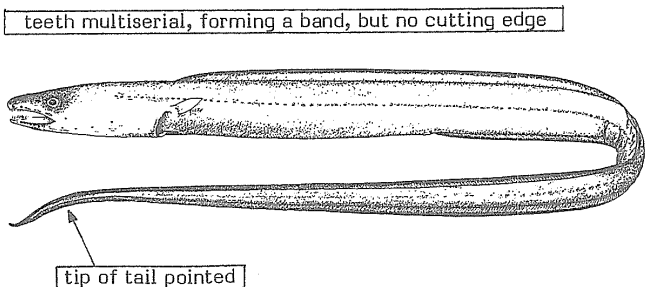
Loc. names : Mkunga

FAO names : En - Slender conger
Fr - Congre gracile
Sp - Congrio coludo

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Fine-meshed nets

Habitat : Offshore soft muddy grounds



teeth multiserial, forming a band, but no cutting edge

tip of tail pointed

BONY FISHES

Muraenesox bagio (Hamilton-Buchanan, 1822)

MURAENESOCIDAE

Synonyms : Muraenesox yamaguchiensis
Katayama & Takai, 1954

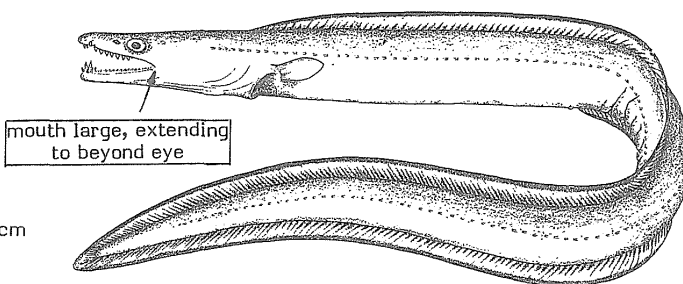
Loc. names : Mkunga, Koe (T)

FAO names : En - Common pike conger
Fr - Morénésoc commun
Sp - Morenocio común

Size : Max.: 180 cm; common to 150 cm

Fishing gear : Longlines and trawls

Habitat : From shore (including estuaries) to
about 100 m depth, on soft bottoms



Echidna nebulosa (Ahl, 1789)

MURAENIDAE

Synonyms : None

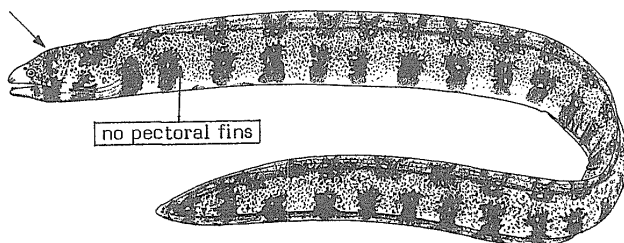
Loc. names : Mkunga
Mkunga-chui (M)

FAO names : En - Starry moray
Fr - Murène étoilée
Sp - Morena estrellada

Size : Max.: 80 cm; common to 50 cm

Fishing gear : Lines, traps and spears

Habitat : Mainly reef areas



Echidna zebra (Shaw, 1797)

Synonyms : Arndha zebra (Shaw, 1797)

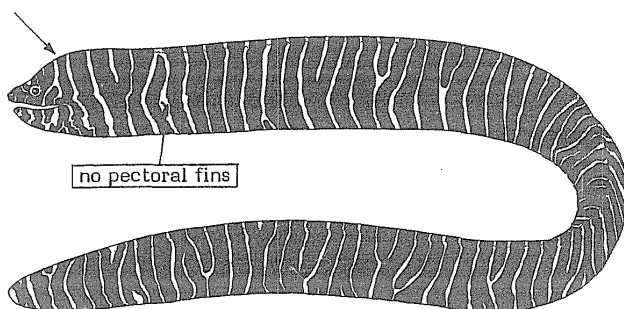
Loc. names : Mkunga
Mkunga-chui (M)

FAO names : En - Zebra moray
Fr - Murène zébrée
Sp - Murena zebra

Size : Max.: 120 cm; common to 50 cm

Fishing gear : Lines, traps and spears

Habitat : Shallow reef areas



BONY FISHES

Lycodontis meleagris (Shaw & Nodder, 1795)

MURAENIDAE

Synonyms : Gymnothorax meleagris
(Shaw & Nodder, 1795)

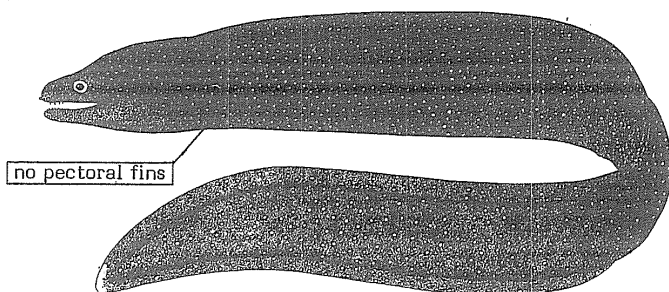
Loc. names : Mkunga
Mkunga-chui (M)

FAO names : En - Turkey moray
Fr - Murène voie lactée
Sp - Morena via láctea

Size : Max.: 120 cm; common to 80 cm

Fishing gear : Various types of nets and traps, spears

Habitat : Deep reef areas



colour: dark brown with yellow small spots

Siderea picta (Ahl, 1789)

Synonyms : Gymnothorax pictus (Ahl, 1789)
Lycodontis pictus (Ahl, 1789)

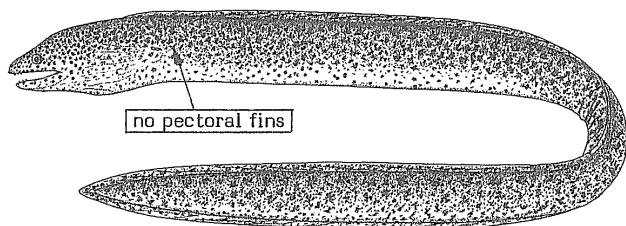
Loc. names : Mkunga
Mkunga-chui (M)

FAO names : En - Speckled siderial moray
Fr - Murène sidérale
Sp - Morena sideral

Size : Max.: 140 cm, but usually much smaller

Fishing gear : Various types of nets, traps and spears

Habitat : Over open reef flats



adults greyish or whitish, with irregular dark spots



young yellow, with dark blotches

Thyrsoidea macrura (Bleeker, 1854)

Synonyms : Evenchelys macrurus (Bleeker, 1854)

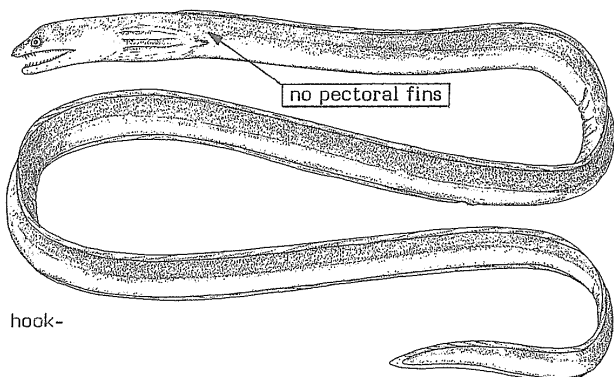
Loc. names : Mkunga

FAO names : En - Giant slender moray
Fr - Murène fil géante
Sp - Morenilla gigante

Size : Max.: 400 cm; common to 70 cm

Fishing gear : Various types of nets, traps and by hook-and-line

Habitat : Estuaries, river mouths and turbid waters



BONY FISHES

ANGUILLIDAE

Anguilla bengalensis labiata Peters, 1852

Synonyms : Anguilla nebulosa labiata (Peters, 1852)

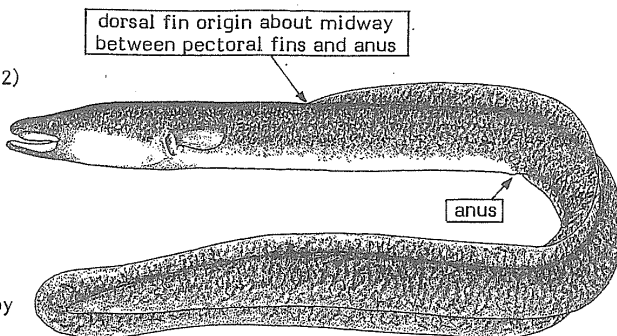
Loc. names : Mkunga

FAO names : En - African mottled eel
Fr - Anguille marbrée (d'Afrique)
Sp - Anguila moteada (de Africa)

Size : Max.: 100 cm; common to 60 cm

Fishing gear : Various types of nets, traps and by hook-and-line

Habitat : Mainly a freshwater species found in estuaries and in the sea at a very early life and near maturity



colour: yellow-olive to brown, mottled with dark brown

Anguilla bicolor bicolor McClelland, 1844

Synonyms : Anguilla bicolor McClelland, 1844

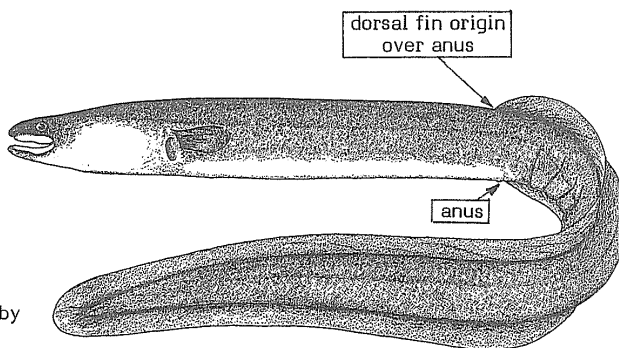
Loc. names : Mkunga

FAO names : En - Shortfin eel
Fr - Anguille à nageoire courte
Sp - Anguila de aleta corta

Size : Max.: 80 cm; common to 65 cm

Fishing gear : Various types of nets, traps and by hook-and-line

Habitat : Mainly a freshwater species found in estuaries and in the sea at very early life stages and near maturity



Anguilla mossambica (Peters, 1852)

Synonyms : Muraena mossambica Peters, 1852

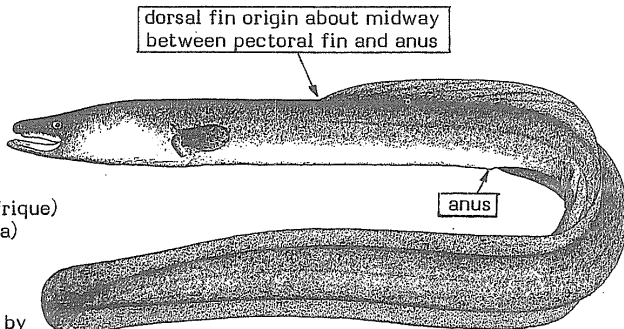
Loc. names : Mkunga

FAO names : En - African longfin eel
Fr - Anguille à longue nageoire (d'Afrique)
Sp - Anguila de aleta larga (de Africa)

Size : Max.: 120 cm; common to 80 cm

Fishing gear : Various types of nets, traps and by hook-and-line

Habitat : Mainly fresh water but found in estuaries and at sea during very early life and near maturity



BONY FISHES

Arius africanus Günther & Playfair, 1866

Synonyms : Tachysurus africanus (Günther & Playfair, 1866)

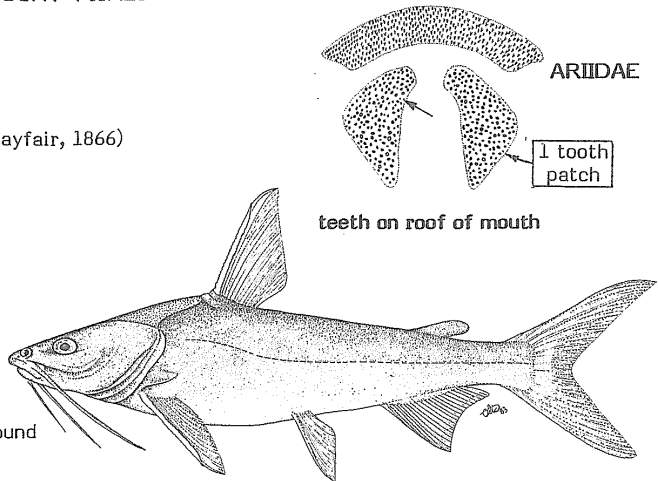
Loc. names : Hongwe (D)
Fumi (T)

FAO names : En - African sea catfish
Fr - Mâchoiron africain
Sp - Bagre africano

Size : Maximum: 25 cm

Fishing gear : Stake traps, hook-and-line

Habitat : Mainly fresh water, sometimes found
in estuaries



Arius madagascariensis Vaillant, 1894

Synonyms : Tachysurus madagascariensis (Vaillant, 1894)

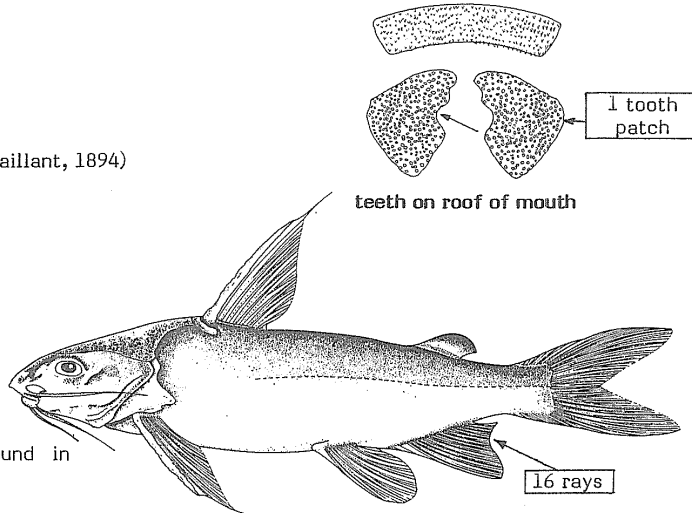
Loc. names : Hongwe (D)
Fumi (T)

FAO names : En - Madagascar sea catfish
Fr - Mâchoiron malgache
Sp - Bagre malgache

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Stake traps, hook-and-line

Habitat : Mainly fresh water; also found in
estuaries and river mouths



Arius polystaphylodon Bleeker, 1846

Synonyms : Tachysurus polystaphylodon (Bleeker, 1846)

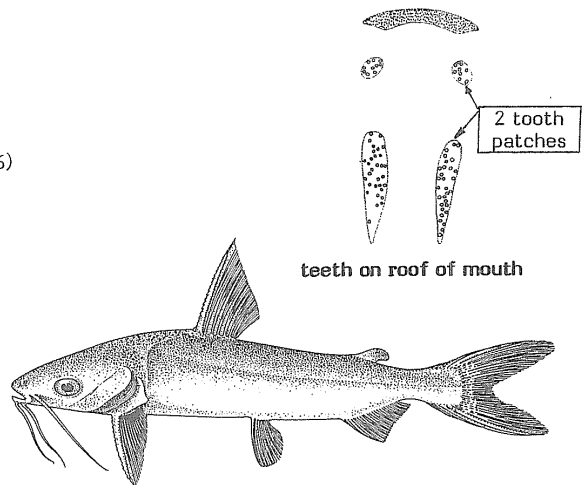
Loc. names : Hongwe (D)
Fumi (T)

FAO names : En - Mozambican sea catfish
Fr - Mâchoiron barbarin
Sp - Bagre mozambiqueño

Size : Max.: 34 cm

Fishing gear : Stake traps, shore seines and hook-
and-line

Habitat : Coastal marine waters; estuaries and
rivers



BONY FISHES

Arius thalassinus (Rüppell, 1837)

Synonyms : Arius serratus Day, 1877
Netuma thalassinus (Rüppell, 1837)
Tachysurus serratus (Day, 1877)
Tachysurus thalassinus (Rüppell, 1837)

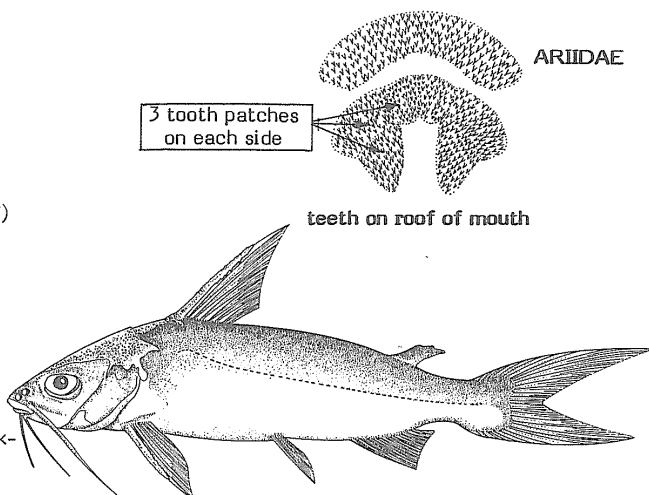
Loc. names : Hongwe (D); Fumi (T)

FAO names : En - Giant catfish
Fr - Mâchoiron titan
Sp - Bagre titán

Size : Max.: 185 cm; common to 70 cm

Fishing gear : Stake traps, shore seines and on hook-and-line

Habitat : Marine, often found in estuaries



Arius venosus (Valenciennes, 1840)

Synonyms : Tachysurus venosus Valenciennes, 1840

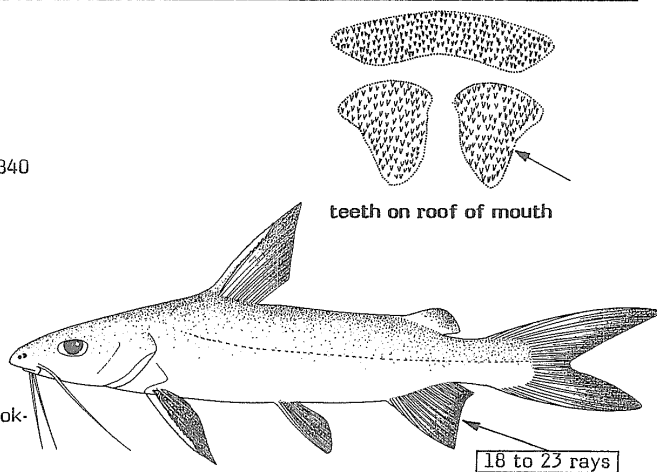
Loc. names : Hongwe (D)
Fumi (T)

FAO names : En - Veined catfish
Fr - Mâchoiron veiné
Sp - Bagre veteadó

Size : Max.: 30 cm; common to 23 cm

Fishing gear : Stake traps, shore seines and on hook-and-line

Habitat : Coastal waters throughout its range



Plotosus limbatus Valenciennes, 1840

Synonyms : None

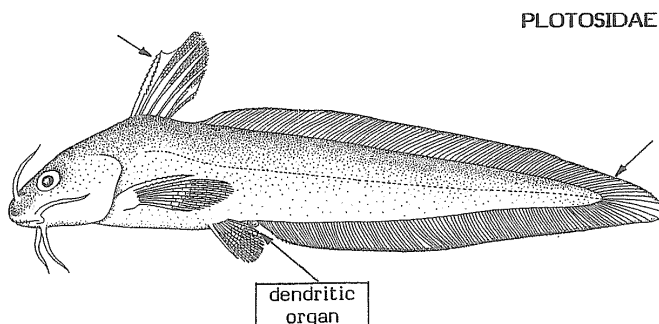
Loc. names : Ngogo

FAO names : En - Darkfin eel catfish
Fr - Balibot aile noire
Sp - Patuna aleta negra

Size : Max.: 41 cm; common to 30 cm

Fishing gear : Seines, hook-and-line, trawls

Habitat : Coastal marine waters and estuaries



BONY FISHES

Plotosus lineatus (Thunberg, 1787)

PLOTOSIDAE

Synonyms : Plotosus anguillaris (Bloch, 1794)
Plotosus arab Bleeker, 1862

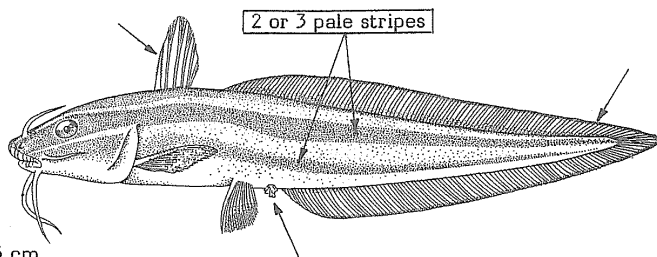
Loc. names : Ngogo

FAO names : En - Striped eel catfish
Fr - Balibot rayé
Sp - Patuna rayada

Size : Max.: about 30 cm; common to 25 cm

Fishing gear : Seines, hook-and-line, trawls

Habitat : Reefs, open coast, estuaries and tidal pools



Chanos chanos (Forsskal, 1775)

CHANIDAE

Synonyms : None

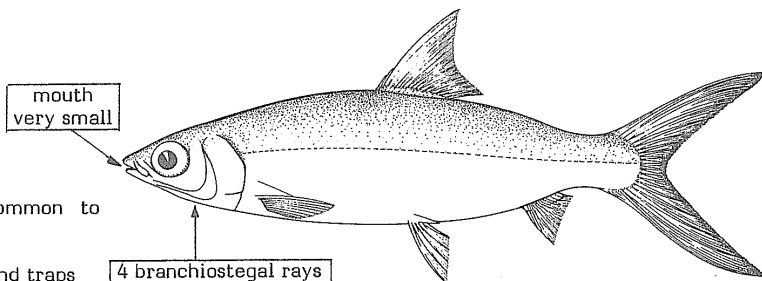
Loc. names : Mwatiko

FAO names : En - Milkfish
Fr - Chanos
Sp - Chano

Size : Maximum: 180 cm; common to 100 cm

Fishing gear : Various types of nets and traps

Habitat : A coastal pelagic species, entering estuaries, rivers and lakes



Saurida gracilis (Quoy & Gaimard, 1824)

SYNODONTIDAE

Synonyms : None

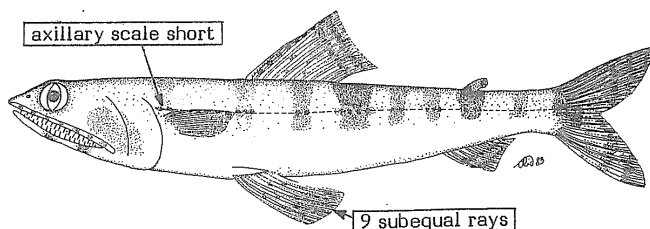
Loc. names :

FAO names : En - Gracile lizardfish
Fr - Anoli grêle
Sp - Lagarto grácil

Size : Max.: about 30 cm

Fishing gear : Various types of artisanal gear

Habitat : Shallow sandy areas, adjacent to coral



all fins with spots and stripes

BONY FISHES

Saurida tumbil (Bloch, 1795)

SYNODONTIDAE

Synonyms : Saurida argyrophanes (Richardson, 1846)

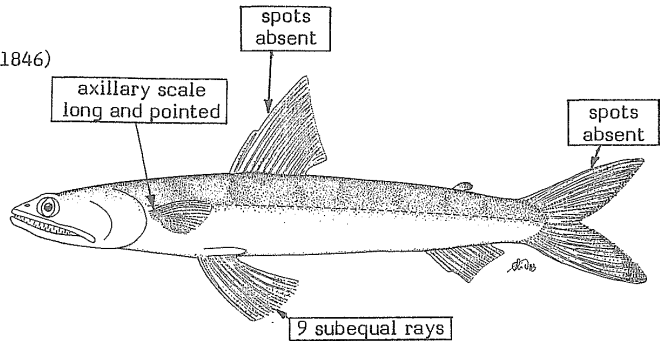
Loc. names : Mbumbura (D)
Goromwe (T)
Bumbo (Z)

FAO names : En - Greater lizardfish
Fr - Anoli tumbil
Sp - Lagarto tumbil

Size : Max.: 40 cm

Fishing gear : Gillnets, trawls

Habitat : Muddy bottoms between 20 and 60 m depth



Saurida undosquamis (Richardson, 1848)

Synonyms : Saurida grandisquamis Günther, 1864

Loc. names : Mbumbura (D),(M)
Bumbo (Z)
Goromwe (T)

FAO names : En - Brushtooth lizardfish
Fr - Anoli à grandes écailles
Sp - Lagarto escamoso

Size : Max.: 45 cm

Fishing gear : Gillnets, trawls

Habitat : Found on muddy bottoms from 20 to 200 m depth

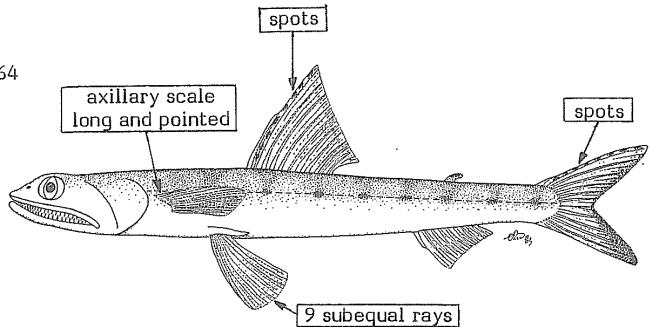


PLATE I, 4

Synodus englemani Schultz, 1953

Synonyms : None

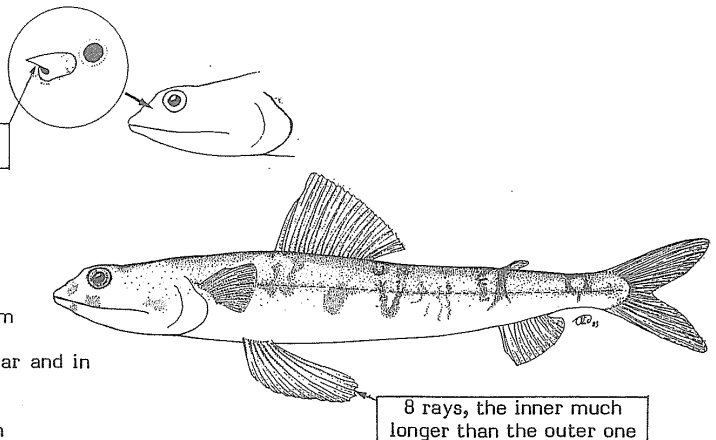
Loc. names :

FAO names : En - Engleman's lizardfish
Fr - Anoli d'Engleman
Sp - Lagarto de Engleman

Size : Max.: 30 cm; common to 15 cm

Fishing gear : Various types of artisanal gear and in trawls

Habitat : Shallow waters, to 40 m depth



BONY FISHES

Synodus variegatus (Lacepède, 1803)

Synonyms : Synodus varius Steindacher, 1901
Synodus dermatogenys Fowler, 1912
Synodus boulti McCulloch, 1921

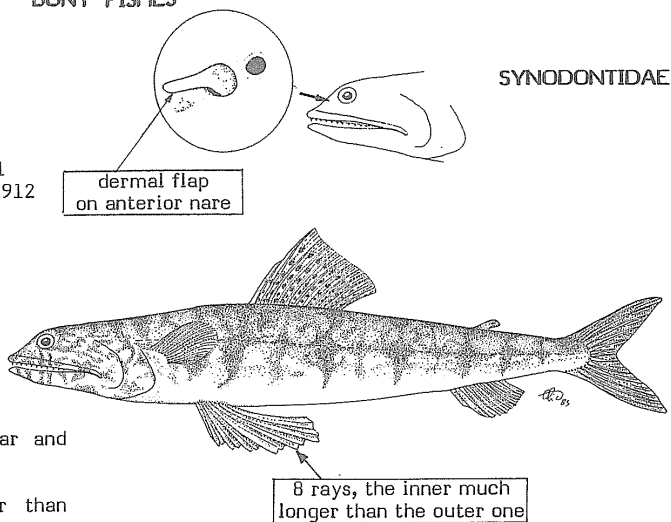
Loc. names :

FAO names : En - Variegated lizardfish
Fr - Anolie bigarre
Sp - Lagarto jaspeado

Size : Max.: 20 cm; common to 14 cm

Fishing gear : Various types of artisanal gear and trawls

Habitat : Shallow waters, never deeper than 20 m



Trachinocephalus myops (Forster, 1801)

Synonyms : Trachinocephalus hypozona (Ogilby, 1897)

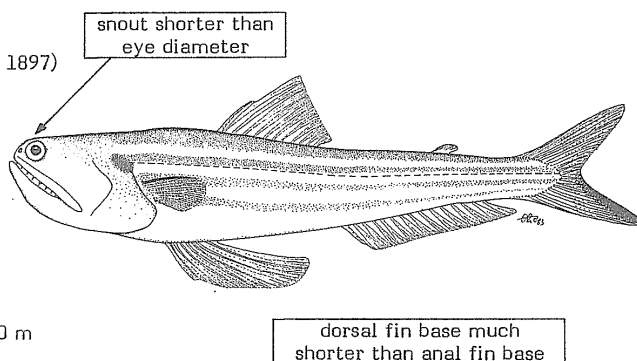
Loc. names :

FAO names : En - Bluntnose lizardfish
Fr - Anoli serpent
Sp - Lagarto ñato

Size : Max.: 40 cm

Fishing gear : Mainly trawls

Habitat : Sandy bottoms, to at least 100 m depth



Lophiodes mutilus (Alcock, 1893)

Synonyms : None

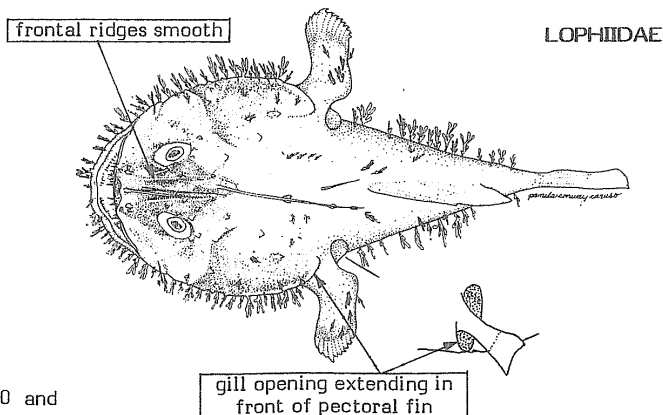
Loc. names :

FAO names : En - Smooth angler
Fr - Baudroie marache
Sp - Rape liso

Size : Max.: 45 cm; common to 30 cm

Fishing gear : Not exploited at present

Habitat : A benthic species, between 300 and 500 m depth



BONY FISHES

Lophiomus setigerus (Vahl, 1792)

LOPHIIDAE

Synonyms : None

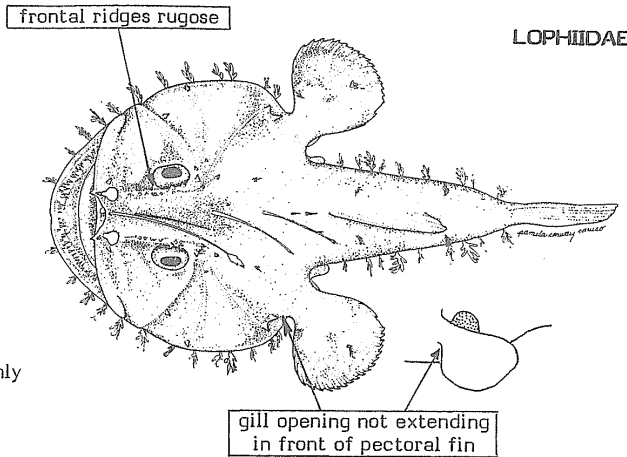
Loc. names :

FAO names : En - Blackmouth angler
Fr - Baudroie bouche noire
Sp - Rape boca negra

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Bottom trawls

Habitat : A benthic species, found mainly between 70 and 250 m depth



Brotula multibarbata (Temminck & Schlegel, 1846)

OPHIIDAE

Synonyms : None

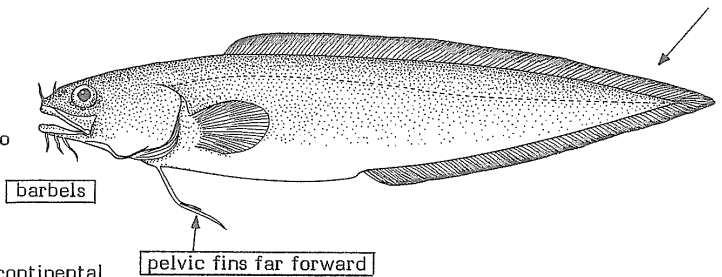
Loc. names :

FAO names : En - Goatsbeard brotula
Fr - Brotule barbe-de-boue
Sp - Brotula barba de carnero

Size : Max.: 50 cm

Fishing gear : Not exploited at present

Habitat : Bottom-dwelling, on the continental shelf and slope to about 650 m depth



Atherinomorus lacunosus (Forster, 1801)

ATHERINIDAE

Synonyms : Pranesus pinguis (Lacepède, 1803)
Atherina forskalii Rüppell, 1838
Pranesus pinguis rüppelli Smith, 1965

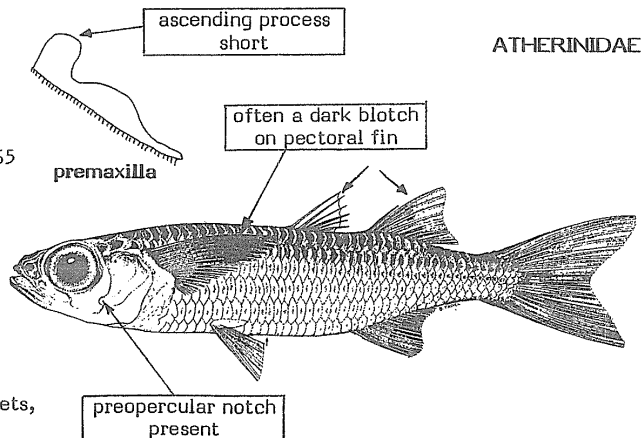
Loc. names : Dagaa (D); Kuzi (D),(M)
Mambangumu (T)

FAO names : En - Hardyhead silverside
Fr - Athérine tête
Sp - Pejerrey cabezón

Size : Max.: 15 cm

Fishing gear : Beach seines, purse seines, ringnets, dipnets

Habitat : Shallow waters, aggregating in large, inactive schools which lie close to shore



BONY FISHES

ATHERINIDAE

Atherion africanus Smith, 1965

Synonyms : None

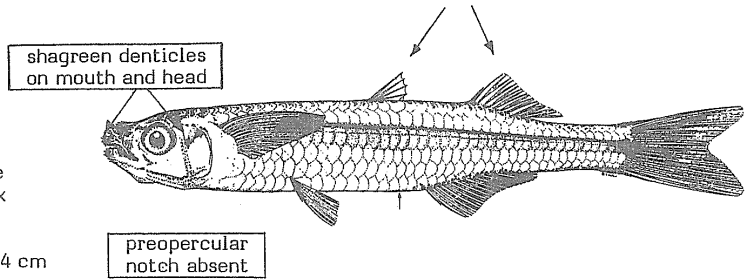
Loc. names : Dagaa (D)
Kuzi (D),(M)
Mambangumu (T)

FAO names : En - Pricklenose silverside
Fr - Athérine à nez râpeux
Sp - Pejerrey lijador

Size : Max.: 5.5 cm; common to 4 cm

Fishing gear : Seines

Habitat : Very shallow coastal waters



Hypoatherina barnesi Schultz, 1953

Synonyms : Allanetta klunzingeri Smith, 1965

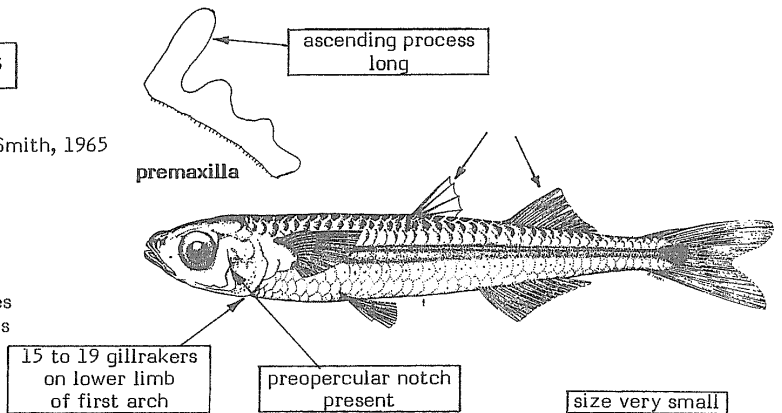
Loc. names : Dagaa (D)
Kuzi (D),(M)
Mambangumu (T)

FAO names : En - Barnes' silverside
Fr - Athérine de Barnes
Sp - Pejerrey de Barnes

Size : Max.: 6.5 cm

Fishing gear : Seines

Habitat : Coastal waters, lagoons



Hypoatherina temminckii (Bleeker, 1853)

Synonyms : Allanetta afra (Peters, 1855)
Hypoatherina uisila (Jordan & Seale, 1906)
Hypoatherina gobio (Klunzinger, 1884)

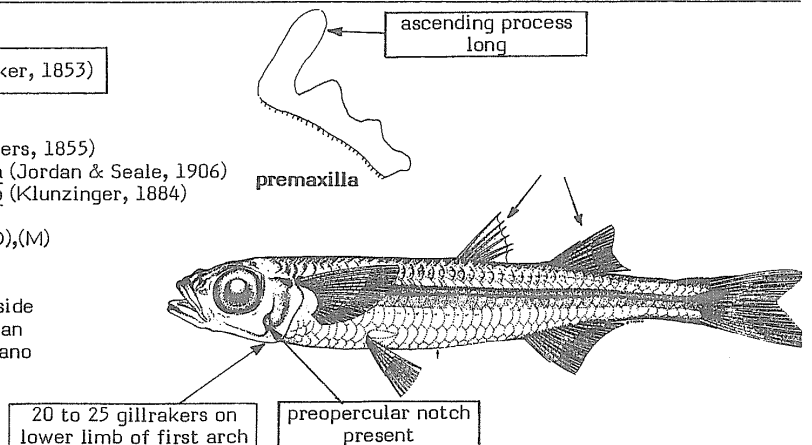
Loc. names : Dagaa (D); Kuzi (D),(M)
Mambangumu (T)

FAO names : En - Samoan silverside
Fr - Athérine samoan
Sp - Pejerrey samoano

Size : Max.: 11 cm

Fishing gear : Seines

Habitat : Coastal waters and harbours



BONY FISHES

EXOCHOETIDAE

Several species

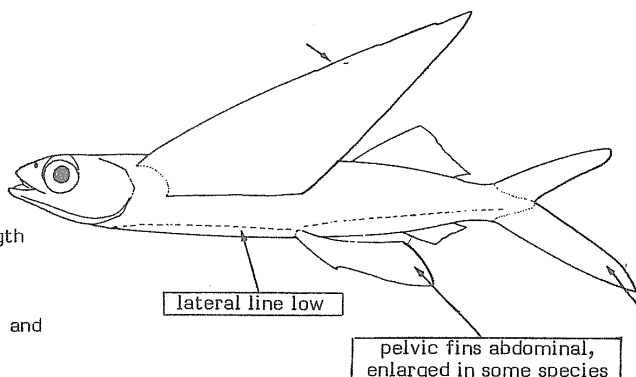
Loc. names : Panzi bahari
Ndegemaji

FAO names : En - Flyingfishes
Fr - Exocets
Sp - Voladores

Size : Max.: to about 30 cm standard length

Fishing gear : Not exploited at present

Habitat : In surface waters of both neritic and oceanic areas



Hemiramphus far (Forsskal, 1775)

HEMIRAMPHIDAE

Synonyms : Hemiramphus commersoni Cuvier, 1829

Loc. names : Chuchunge (D)(Z)(M); Kidau (T)(D)
Chuchunge tili (M), Mususa

FAO names : En - Black-barred halfbeak
Fr - Demi-bec bagnard
Sp - Agujeta manchada

Size : Max.: about 44 cm (from tip of upper jaw); common to 27 cm

Fishing gear : Gillnets and shore seines

Habitat : Found in the proximity of the coast, chiefly in areas of rich submerged vegetation

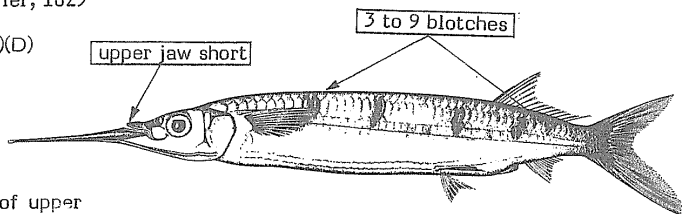


PLATE I, 5

Hemiramphus lutkei (Valenciennes, 1846)

Synonyms : None

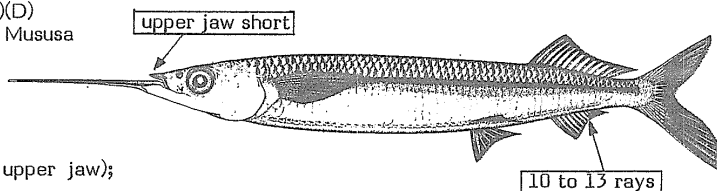
Loc. names : Chuchunge (D)(Z); Kidau (T)(D)
Chuchunge tili (M), Tili(M), Mususa

FAO names : En - Lutke's halfbeak
Fr - Demi-bec de Lutke
Sp - Agujeta de Lutke

Size : Max.: 40 cm (from tip of upper jaw); common to 25 cm

Fishing gear : Gillnets and shore seines

Habitat : Offshore waters



BONY FISHES

Hyporhamphus dussumieri (Valenciennes, 1846)

HEMIRAMPHIDAE

Synonyms : None

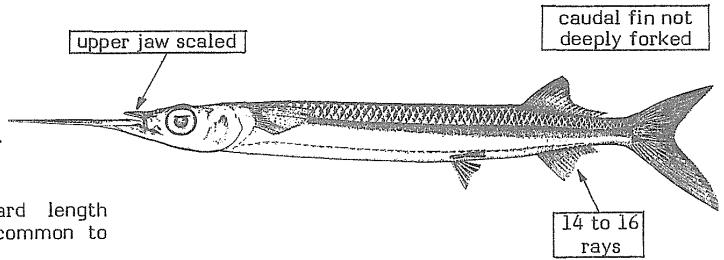
Loc. names : Kidau, Morani

FAO names : En - Dussumier's halfbeak
Fr - Demi-bec de Dussumier
Sp - Agujeta de Dussumier

Size : Max.: about 30 cm standard length
(from tip of upper jaw); common to 19 cm

Fishing gear : Shore seines

Habitat : Around islands and coral reefs



Ablennes hians (Valenciennes, 1846)

BELONIDAE

Synonyms : None

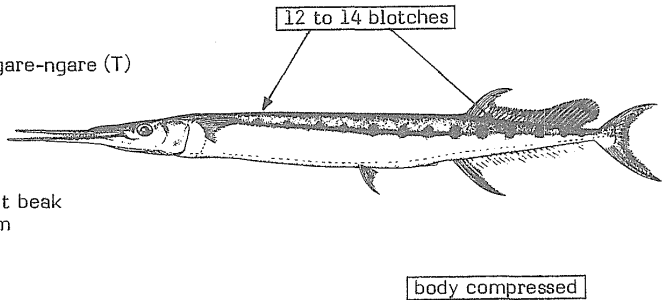
Loc. names : Mkule (D)(Z)(M); Ngarara (M); Ngare-ngare (T)

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

Size : Max.: 90 cm body length (without beak and caudal fin); common to 70 cm

Fishing gear : Seines, handlines, gillnets

Habitat : A pelagic species inhabiting offshore surface waters; inshore occurrences seem to be more frequent around islands than along the mainland coast



Platybelone argalus platyura (Bennett, 1837)

Synonyms : Belone platyura Bennett, 1832
Belone platura Rüppell, 1897

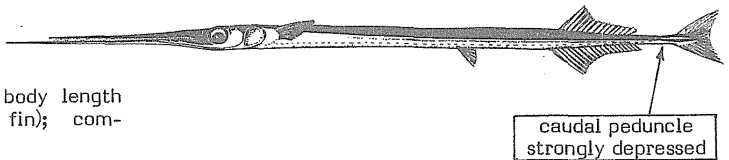
Loc. names : Ngare-ngare (T); Ngarara (M); Mkule (D)(Z)

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

Size : Max.: at least to 25 cm body length
(without beak and caudal fin); common to 20 cm

Fishing gear : Seines, handlines, gillnets

Habitat : A pelagic species inhabiting offshore surface waters but particularly abundant about islands



BONY FISHES

Strongylura leiura (Bleeker, 1850)

BELONIDAE

Synonyms : Belone ciconia Richardson, 1846
Belone leiurus Bleeker, 1850

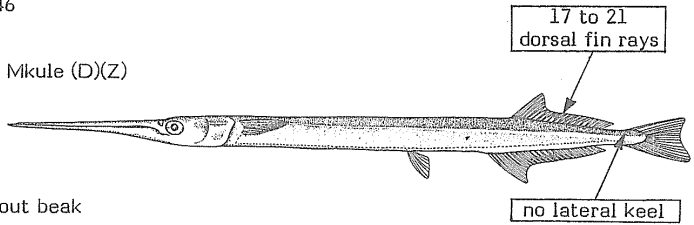
Loc. names : Ngare-ngare (T); Ngarara (M); Mkule (D)(Z)

FAO names : En - Banded needlefish
Fr - Aiguillette ruban
Sp - Agujón cintado

Size : Max.: 46 cm body length (without beak and caudal fin); common to 35 cm

Fishing gear : Seines, handlines, gillnets

Habitat : Coastal areas, also entering estuaries



body almost rectangular in cross section

Tylosurus acus melanotus (Bleeker, 1850)

Synonyms : None

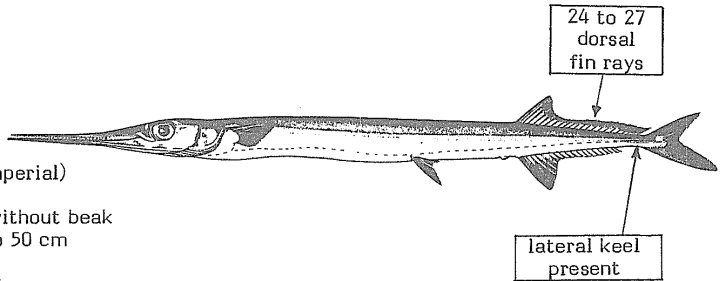
Loc. names : Ngare-ngare (T)
Ngarara (M)
Mkule (D)(Z)

FAO names : En - Agujon needlefish
Fr - Aiguille voyeuse
Sp - Marao ojón (= Aguja imperial)

Size : Max.: 60 cm body length (without beak and caudal fin); common to 50 cm

Fishing gear : Seines, handlines and gillnets

Habitat : Pelagic, inhabiting more offshore waters than T. crocodilus, but also found in coastal waters



Tylosurus crocodilus crocodilus (Peron & LeSueur, 1821)

Synonyms : Tylosurus raphidoma (Ranzani, 1842)

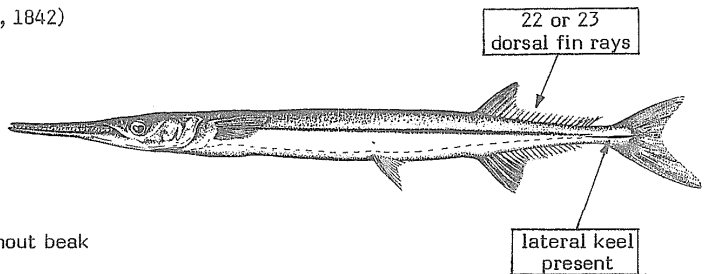
Loc. names : Mkule (D)/Ngongora (D)
Parapela; Ngarara (M)
Ngare-ngare (T); Mziha

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

Size : Max.: 82 cm body length (without beak and caudal fin)

Fishing gear : Seines, handlines, gillnets

Habitat : A pelagic species inhabiting more coastal waters than T. acus, but also found in offshore waters



BONY FISHES

HOLOCENTRIDAE

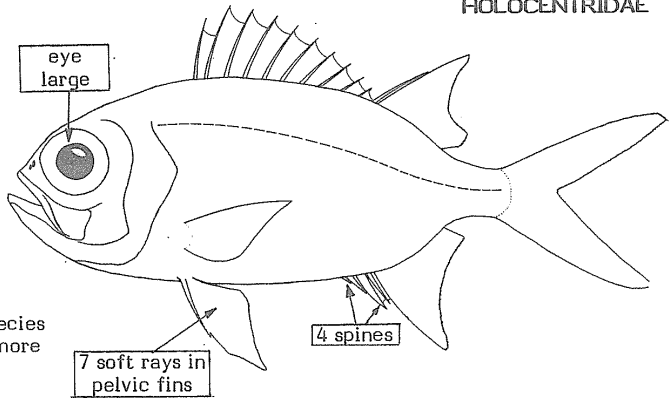
Loc. names : Nile (D)
Kibaazi, Kifuu (Z)

FAO names : En - Squirrelfishes, soldierfishes
Fr - Marignans
Sp - Candiles

Size : Max.: to about 45 cm

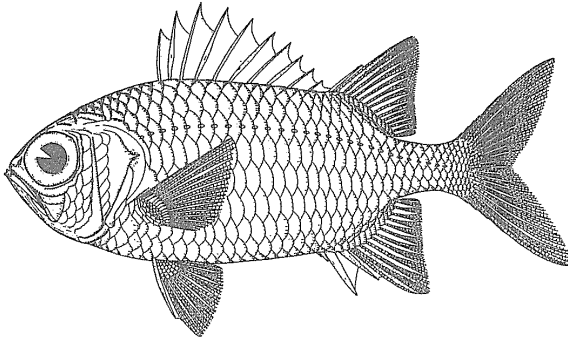
Fishing gear : Hook-and-line, trawling

Habitat : Mostly coral reefs but some species
occur in water of 200 m depth or more



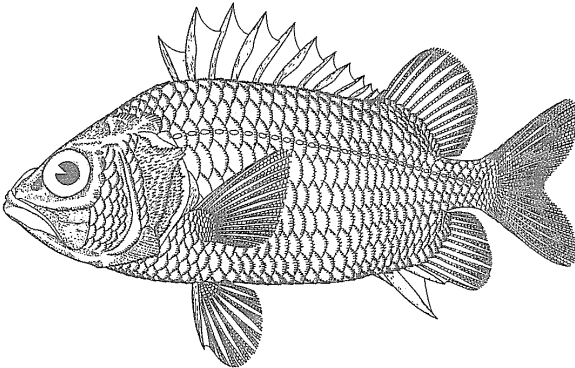
11 spines

Genera of Holocentridae

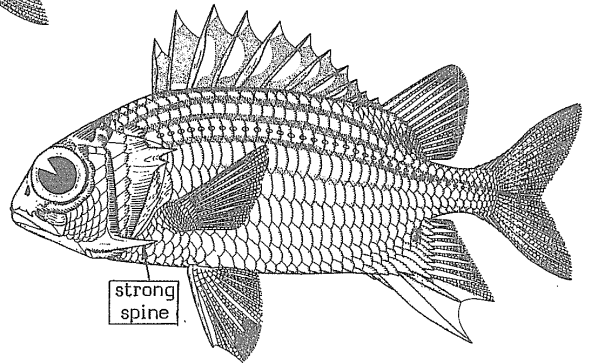


Myripristis species

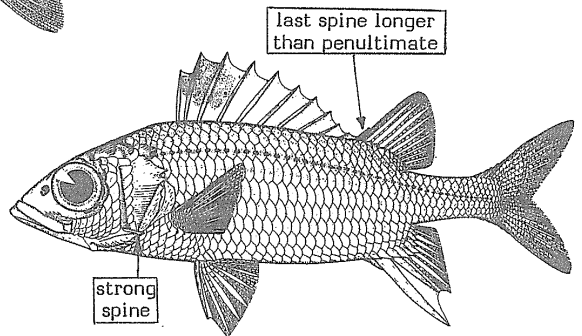
12 spines



Ostichthys species



Neoniphon species



Sargocentron species

BONY FISHES

Aulostomus chinensis (Linnaeus, 1766)

AULOSTOMIDAE

Synonyms : None

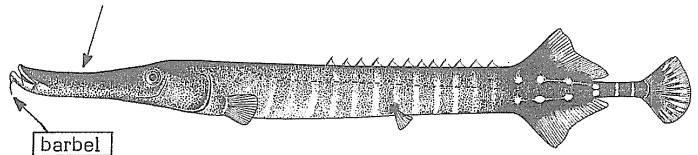
Loc. names : Mzu-moshi

FAO names : En - Chinese trumpetfish
Fr - Trompette chinoise
Sp - Trompetero chino

Size : Max.: 75 cm; common to 40 cm

Fishing gear : Caught as bycatch with various types of artisanal gear

Habitat : Shallow, clear waters, hanging vertically with the head down



Fistularia commersonii Rüppell, 1835

FISTULARIIDAE

Synonyms : Fistularia petimba (non Lacepède, 1803)

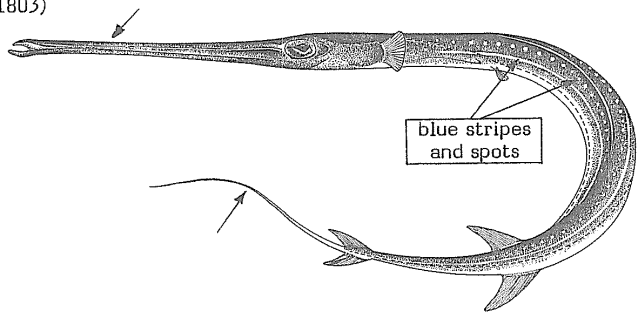
Loc. names : Masiwa (D)
Mpigazumari, Mzumari (M) Msiwa

FAO names : En - Bluespotted cornetfish
Fr - Cornette à taches bleues
Sp - Corneta pintada

Size : Max.: 160 cm; common to 100 cm

Fishing gear : Gillnets, line gear and trawls

Habitat : Sea-grass beds and coral reefs



Fistularia petimba Lacepède, 1803

Synonyms : Fistularia serrata Cuvier, 1817
Fistularia villosa Klunzinger, 1871

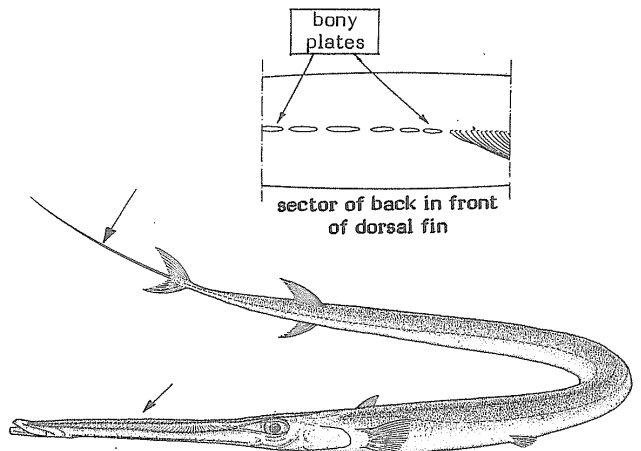
Loc. names : Masiwa (D) Msiwa
Mpigazumari, Mzumari (M)

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

Size : Max.: 200 cm; common to 100 cm

Fishing gear : Gillnets, line gear and trawls

Habitat : Found in coastal areas over soft bottoms, usually at depths greater than 10 m



BONY FISHES

Cociella crocodila (Tilesius, 1812)

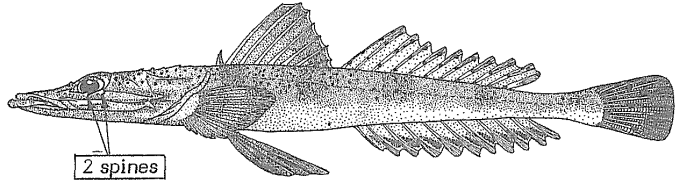
PLATYCEPHALIDAE

Synonyms : Platycephalus crocodilus Tilesius, 1812
Platycephalus punctatus Cuvier, in Cuv. & Val., 1829

Loc. names : Songwa (D)(T)
Vumbaua (Z)
Danzi (M), Mbiliwili

FAO names : En - Crocodile flathead
Fr - Platycéphale crocodile
Sp - Chato cocodrilo

Size : Max.: 50 cm; common to 40 cm



Fishing gear : Various types of artisanal gear and in bottom trawls

Habitat : Sand or mud bottoms from near shore out to about 100 m depth on the continental shelf

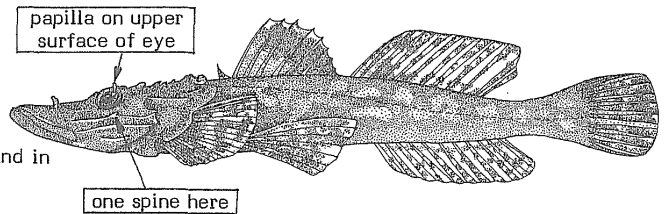
Papilloculiceps longiceps (Cuvier, in Cuv. & Val., 1829)

Synonyms : Platycephalus longiceps Cuvier, in Cuv. & Val., 1829
Platycephalus tentaculatus Rüppell, 1835
Platycephalus grandidieri Sauvage, 1873

Loc. names : Songwa (D)(T); Vumbaua (Z); Danzi (M), Mbiliwili

FAO names : En - Tentacled flathead
Fr - Platycéphale tentaculé
Sp - Chato cirroso

Size : Max.: 70 cm; common to 50 cm



Fishing gear : Various types of artisanal gear and in bottom trawls

Habitat : Sand bottoms in the vicinity of coral reefs at depths from 1 to 15 m

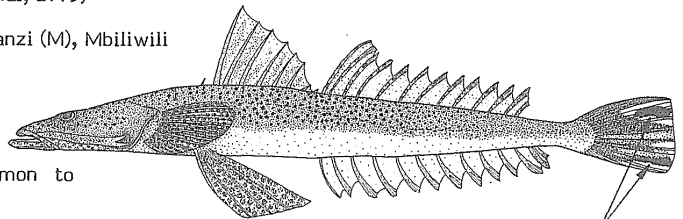
Platycephalus indicus (Linnaeus, 1758)

Synonyms : Platycephalus insidiator (Forsskål, 1775)

Loc. names : Songwa (D)(T); Vumbaua (Z); Danzi (M), Mbiliwili

FAO names : En - Bartail flathead
Fr - Platycéphale indien
Sp - Chato indico

Size : Max.: to about 100 cm; common to 60 cm



Fishing gear : Various types of artisanal gear and in bottom trawls

Habitat : Sand or mud bottoms in very shallow areas, in estuaries and near shore to depths of about 25 m

BONY FISHES

Rogadius asper (Cuvier, in Cuv. & Val., 1829)

PLATYCEPHALIDAE

Synonyms : Rogadius pristiger (Cuvier, in Cuv. & Val., 1829)

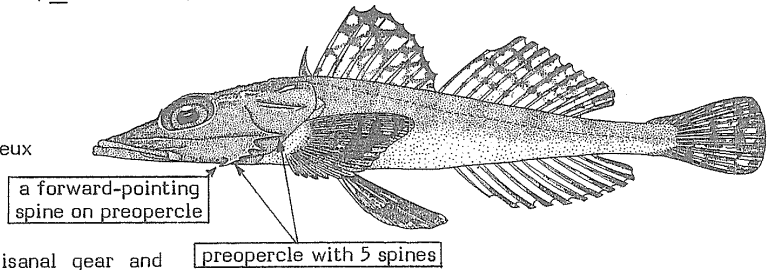
Loc. names : Songawa (D)(T)
Vumbaua (Z)
Danzi (M), Mbiliwili

FAO names : En - Thorny flathead
Fr - Platycéphale épineux
Sp - Chato espinudo

Size : Max.: 17 cm

Fishing gear : Various types of artisanal gear and bottom trawls

Habitat : Sand or mud bottoms of the continental shelf at depths from 15 to 95 m



Aethaloperca rogaa (Forsskål, 1775)

SERRANIDAE

Synonyms : Cephalopholis rogaa (Forsskål, 1775)

Loc. names : Chewa

FAO names : En - Redmouth grouper
Fr - Vielle roga
Sp - Cherna roga

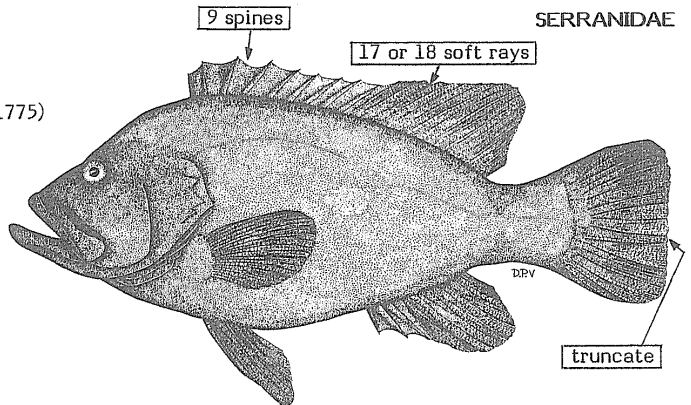
Size : Max.: 60 cm

Fishing gear : Hook-and-line, trawls

Habitat : Continental shelf

PLATE I, 6

inside of mouth and gill cavity reddish-orange



Anyperodon leucogrammicus (Valenciennes, 1828)

Synonyms : None

Loc. names : Chewa

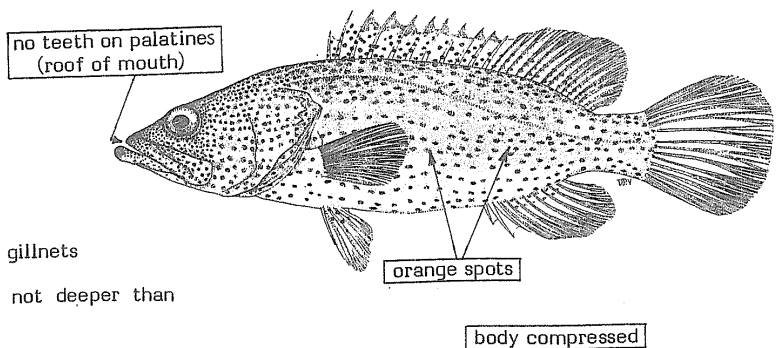
FAO names : En - Slender grouper
Fr - Mérou élégant
Sp - Mero elegante

Size : Max.: 52 cm

Fishing gear : Hook-and-line, traps, gillnets

Habitat : Coral reefs, usually not deeper than 20 m depth

PLATE II, 7



BONY FISHES

Cephalopholis miniata (Forsskål, 1775)

Synonyms : Epinephelus miniatus Forsskål, 1775

Loc. names : Chewa (moshi)

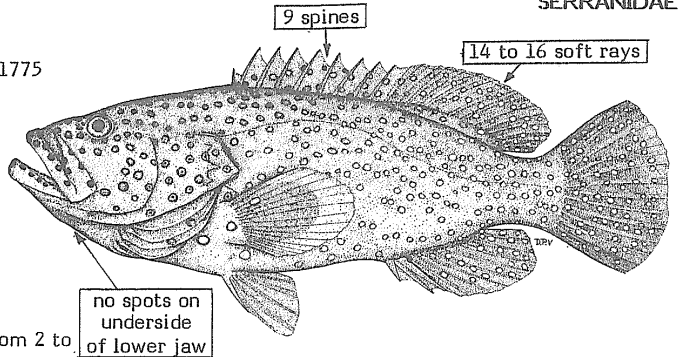
FAO names : En - Vermilion seabass
Fr - Vielle étoilée
Sp - Cherna estrellada

Size : Max.: 40 cm

Fishing gear : Hook-and-line, traps, gillnets

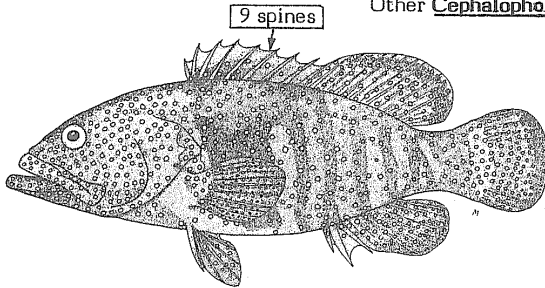
Habitat : Generally around coral reefs from 2 to 48 m depth

PLATE II, 11



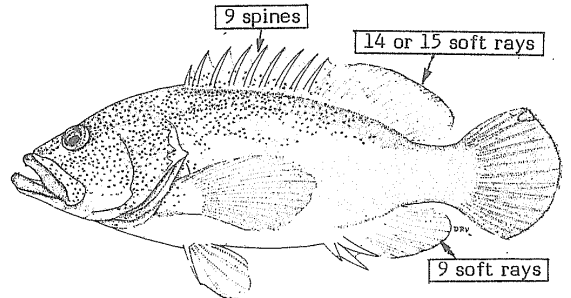
colour: orange-red, with blue spots

Other Cephalopholis species



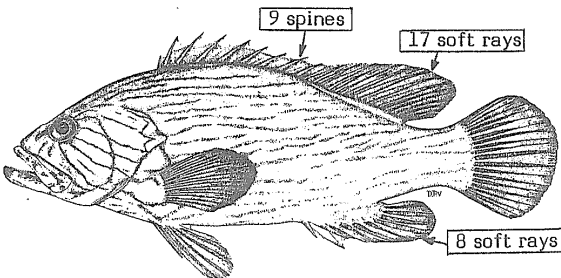
Cephalopholis argus (Schneider, 1801)

Peacock grouper **PLATE II, 8**
size: to 50 cm



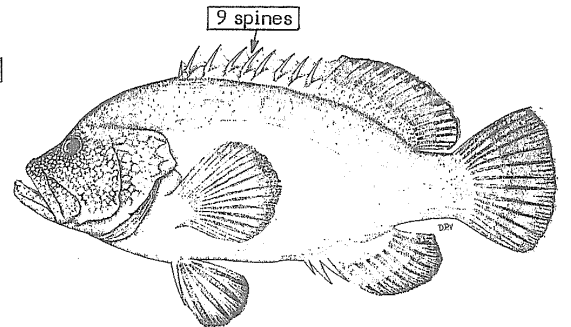
Cephalopholis aurantia (Schneider, 1801)

Vermilion seabass **PLATE II, 9**
size: to 40 cm



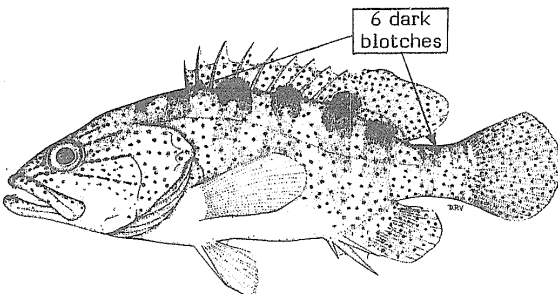
Cephalopholis formosa (Shaw, 1804)

Blue-lined hind **PLATE II, 10**
size: to 34 cm



Cephalopholis sonnerati (Valenciennes, 1828)

Tomato hind **PLATE III, 13**
size: to 57 cm



Cephalopholis sexmaculata (Rüppell, 1828)

Sixblotch hind **PLATE II, 12**
size: to 40 cm

BONY FISHES

Dermatolepis striolatus Playfair, 1866

SERRANIDAE

Synonyms : Dermatolepis aldabrensis Smith, 1955

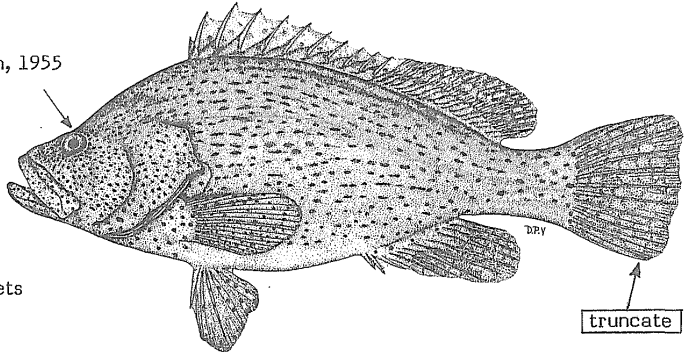
Loc. names : Chewa

FAO names : En - Smooth grouper
Fr - Mérou lisse
Sp - Mero liso

Size : Max.: 85 cm

Fishing gear : Hook-and-line, traps, and gillnets

Habitat : Coral reefs



Epinephelus malabaricus (Schneider, 1801)

Synonyms : None

Loc. names : Chewa (D), (Ng'ombe)

FAO names : En - Malabar grouper
Fr - Mérou malabare
Sp - Mero malabarico

Size : Max.: 100 cm (perhaps 200 cm)

Fishing gear : Hook-and-line, traps, gillnets and trawls

Habitat : Often found in turbid waters and estuaries, but also on coral reefs

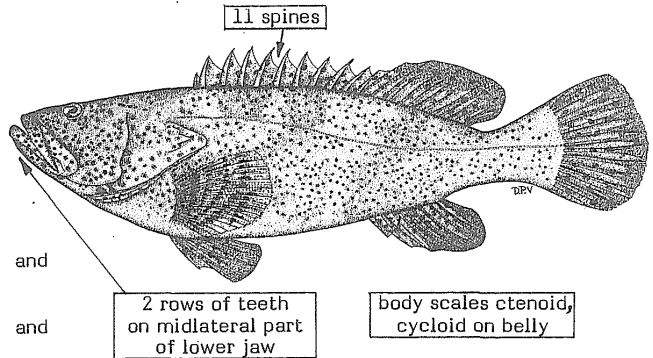


PLATE IV, 20

Epinephelus morrhua (Valenciennes, 1833)

Synonyms : Epinephelus cometae Tanaka, 1927

Loc. names : Chewa (Ng'ombe)

FAO names : En - Comet grouper
Fr - Mérou comète
Sp - Mero cometa

Size : Max.: 90 cm

Fishing gear : Bottom trawls

Habitat : Depths of 120 to 370 m

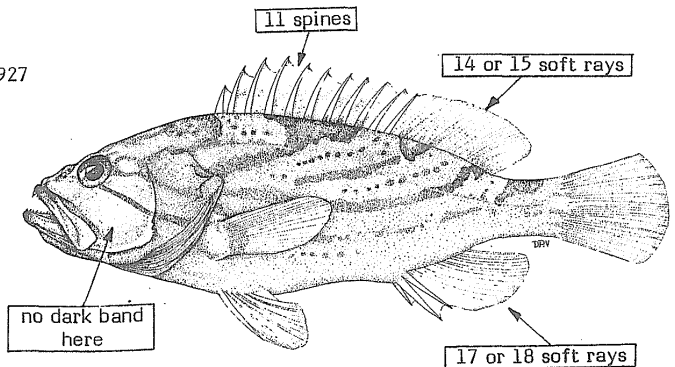


PLATE IV, 23

BONY FISHES

Epinephelus tauvina (Forsskal, 1775)

SERRANIDAE

Synonyms : Epinephelus elongatus Schultz, 1953
Epinephelus chewa Morgans, 1965

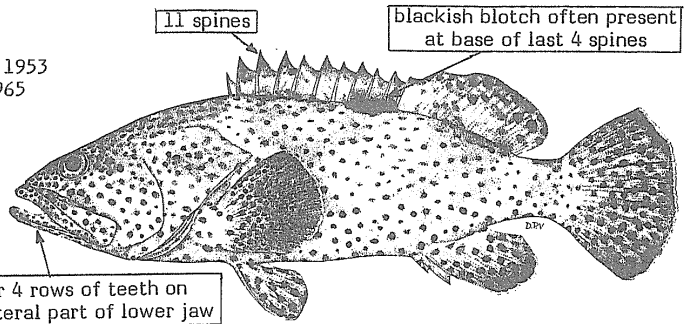
Loc. names : Chewa (Ng'ombe)

FAO names : En - Greasy grouper
Fr - Mérou loutre
Sp - Mero lutra

Size : Max.: 65 cm

Fishing gear : Hook-and-line, traps, gillnets and bottom trawls

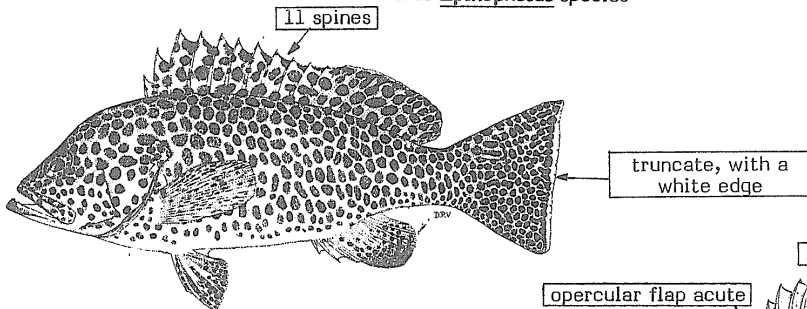
Habitat : Primarily a coral reef species found in depths of 1 to 50 m



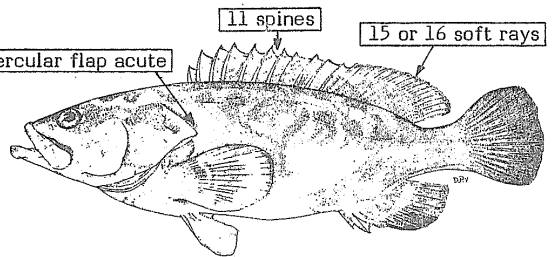
body scales cycloid, except for a small patch at end of pectoral fin

PLATE V, 27

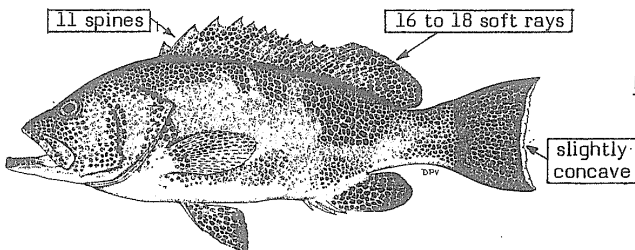
Other Epinephelus species



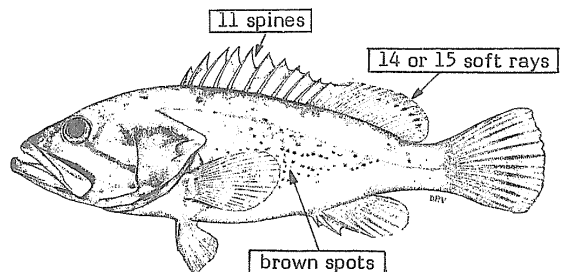
Epinephelus areolatus (Forsskal, 1775)
Areolated grouper **PLATE III, 14**
size: to 35 cm



Epinephelus caeruleopunctatus (Bloch, 1790)
White-spotted grouper **PLATE III, 15**
size: to 55 cm



Epinephelus chlorostigma (Valenciennes, 1828)
Brownspotted grouper **PLATE III, 16**
size: to 75 cm

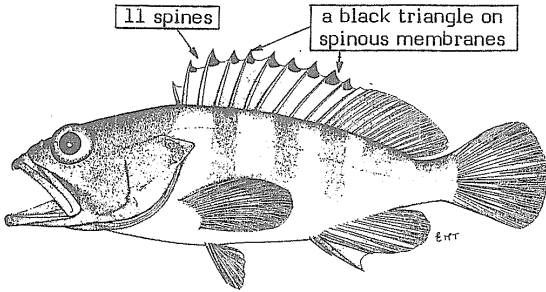


Epinephelus epistictus (Temminck & Schlegel, 1842)
Broken-line grouper
size: to 80 cm **PLATE III, 17**

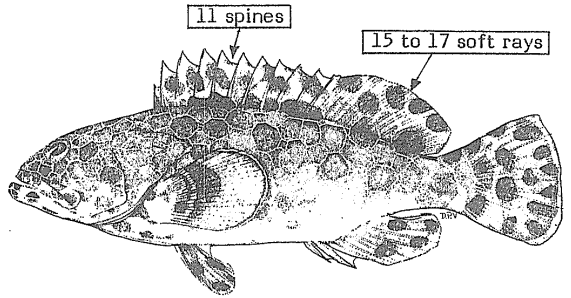
BONY FISHES

Other Epinephelus species

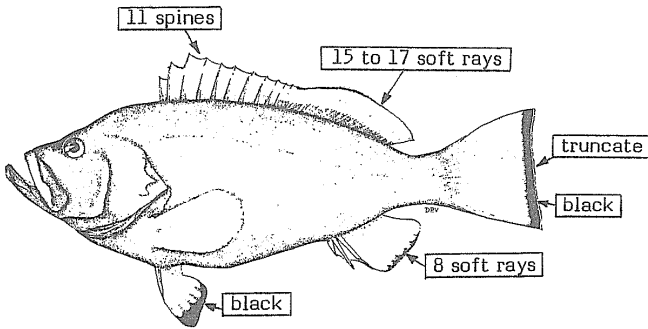
SERRANIDAE



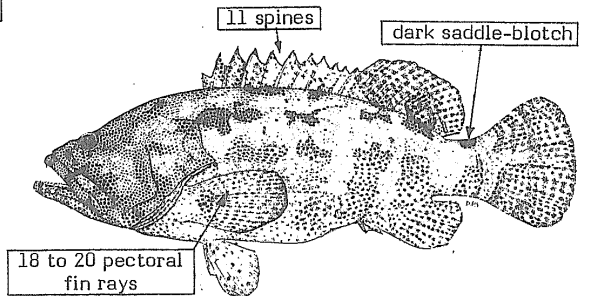
Epinephelus fasciatus (Forsskal, 1775)
Red banded grouper **PLATE III, 18**
size: to 40 cm



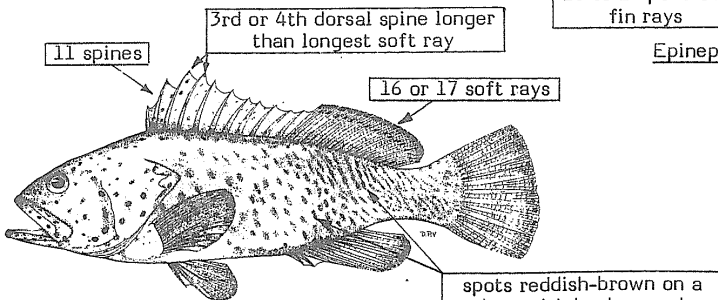
Epinephelus faveatus (Valenciennes, 1828)
Bigspot grouper
size: to 51 cm



Epinephelus flavocaeruleus (Lacepède, 1802)
Blue and yellow grouper
size: to 90 cm



Epinephelus fuscoguttatus (Forsskal, 1775)
Brown-marbled grouper
size: to 90 cm **PLATE IV, 19**

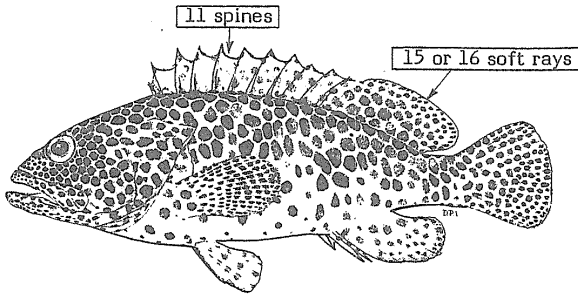


Epinephelus longispinus (Kner, 1865)
Streaky spot grouper
size: to 60 cm

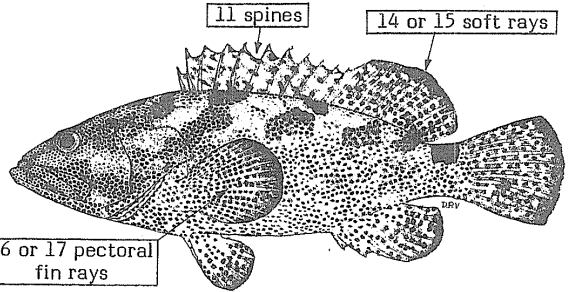
BONY FISHES

Other Epinephelus species

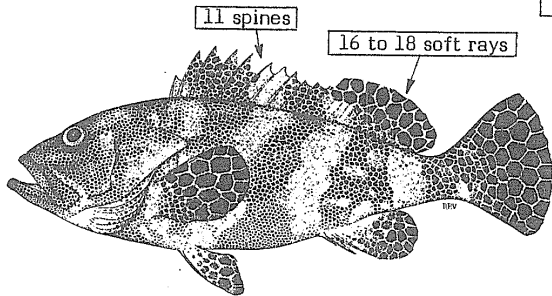
SERRANIDAE



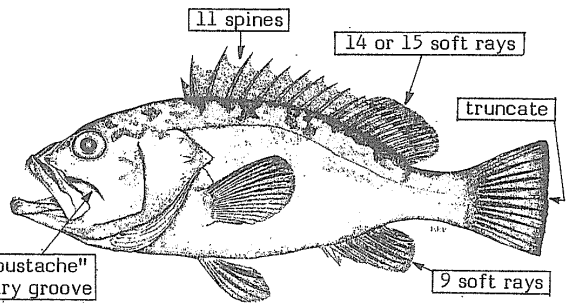
Epinephelus merra Bloch, 1793
Honeycomb grouper
size: to 30 cm
PLATE IV, 21



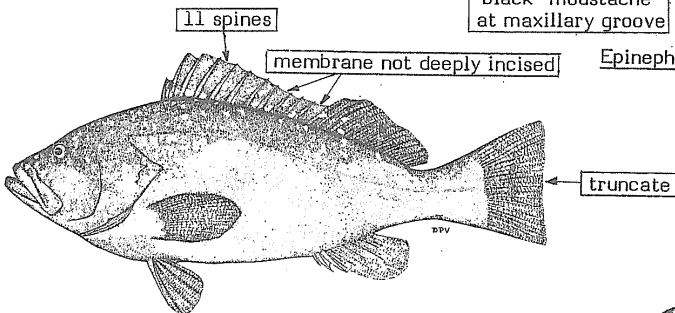
Epinephelus microdon (Bleeker, 1856)
Camouflage grouper
size: to 90 cm
PLATE IV, 22



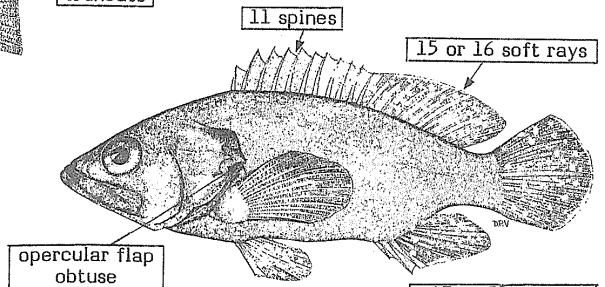
Epinephelus miliaris (Valenciennes, 1830)
Honeyfin grouper
size: to 45 cm



Epinephelus modestus Gilchrist & Thompson, 1909
Moustached grouper
size: to 137 cm



Epinephelus multinotatus (Peters, 1876)
White-blotched grouper
size: to 100 cm

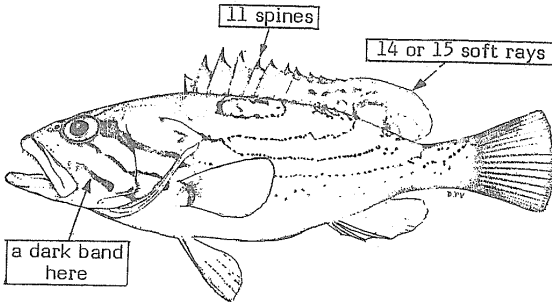


Epinephelus ongus (Bloch, 1790)
White-streaked grouper
size: to 30 cm
PLATE IV, 24

BONY FISHES

Other Epinephelus species

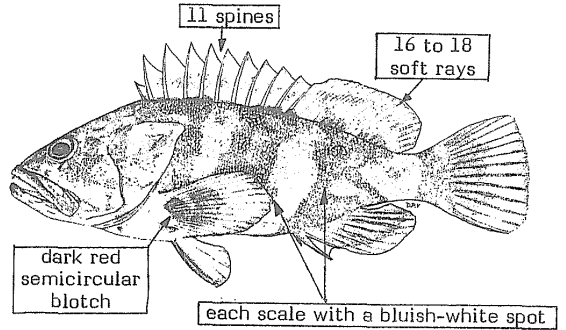
SERRANIDAE



in very large adults the spots on body are faint or absent

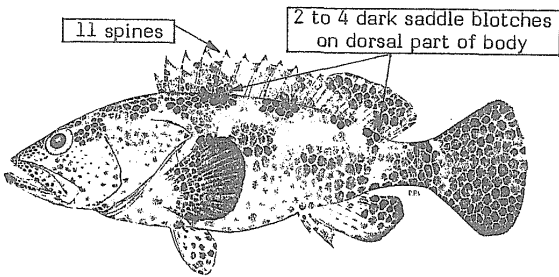
Epinephelus poecilonotus (Temminck & Schlegel, 1842)

Dot-dash grouper
size: to 60 cm



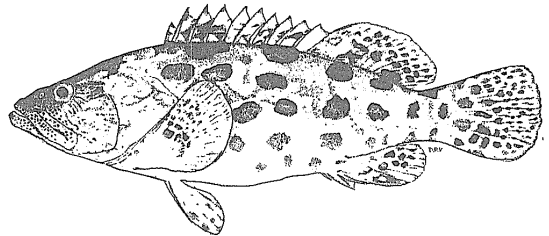
Epinephelus rivulatus (Valenciennes, 1830)

Halfmoon grouper PLATE V, 25
size: to 35 cm



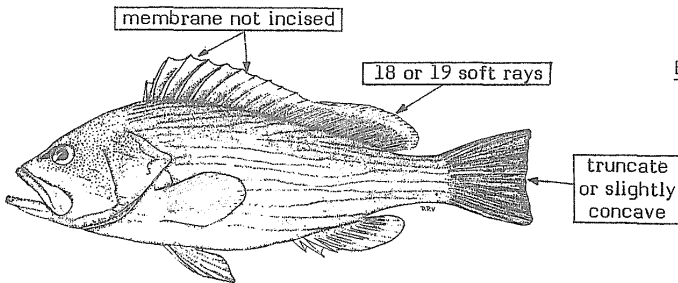
Epinephelus spilotoceps Schultz, 1953

Foursaddle grouper PLATE V, 26
size: to 30 cm



Epinephelus tukula Morgans, 1959

Potato grouper
size: to 200 cm



Epinephelus undulosus Quoy & Gaimard, 1824

Midwater grouper PLATE V, 28
size: to 70 cm

BONY FISHES

Gracila albomarginata (Fowler & Bean, 1930)

Synonyms : None

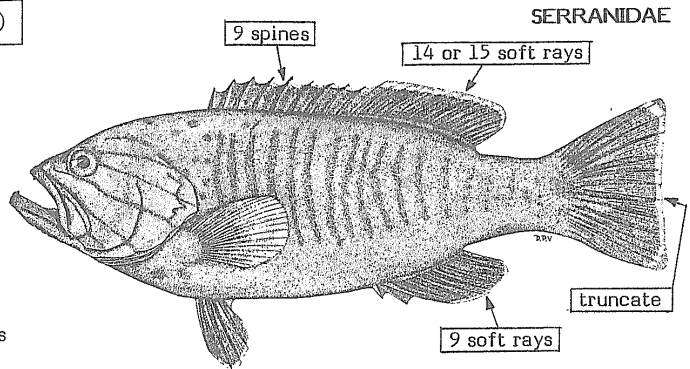
Loc. names : Chewa

FAO names : En - Red-edged grouper
Fr - Mérou bord rouge
Sp - Mero paranjero

Size : Max.: 50 cm

Fishing gear : Hook-and-line, traps and gillnets

Habitat : Coral reefs, to 20 m depth



Plectropomus laevis (Lacepède, 1802)

Synonyms : Plectropomus melanoleucus (Lacepède, 1802)

Loc. names : Chewa, Mzungu

FAO names : En - Black-saddled coral-trout
Fr - Mérou sellé
Sp - Mero ensillado

Size : Max.: 100 cm

Fishing gear : Hook-and-line and gillnets

Habitat : Coral reefs between 10 and 30 m depth

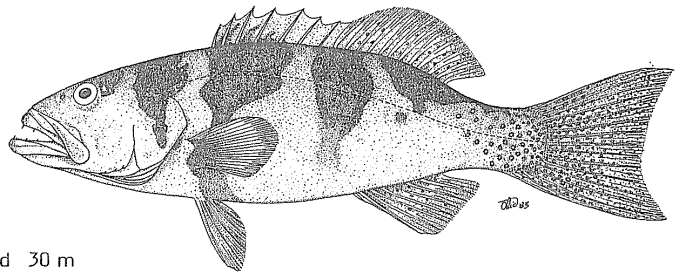


PLATE V, 29

Plectropomus leopardus (Lacepède, 1802)

Synonyms : None

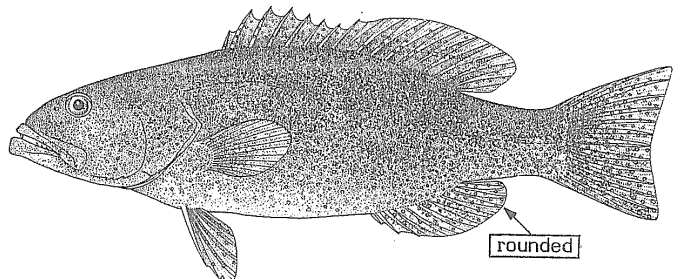
Loc. names : Chewa, Mzungu

FAO names : En - Bluedotted coral-trout
Fr - Mérou étoiles bleues
Sp - Mero celestial

Size : Max.: 70 cm

Fishing gear : Hook-and-line

Habitat : Coral reefs from 10 to 30 m depth



Remarks : records from the Indian Ocean need to be confirmed

BONY FISHES

Plectropomus maculatus (Bloch, 1790)

SERRANIDAE

Synonyms : None

Loc. names : Chewa, Mzungu

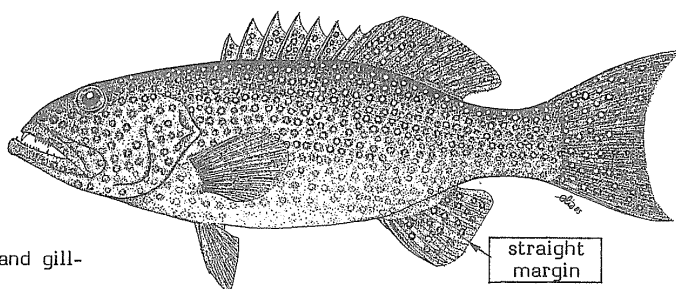
FAO names : En - Spotted coral-trout
Fr - Veille Saint-Silac
Sp - Mero de coral

Size : Max.: 100 cm

Fishing gear : Hook-and-line, spears, traps and gill-nets

Habitat : Coral reefs, between 10 and 160 m depth

PLATE V, 30



Plectropomus punctatus Quoy & Gaimard, 1824

Synonyms : ? Plectropomus marmoratus Talbot, 1958

Loc. names : Chewa, Mzungu

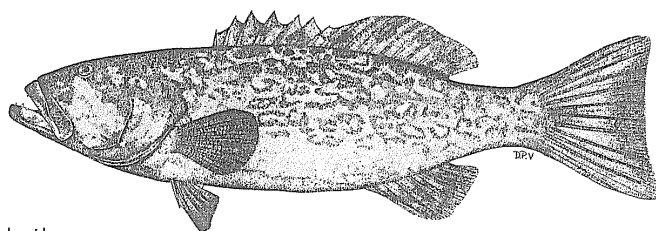
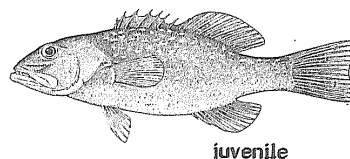
FAO names : En - Mottled coral-trout
Fr - M  rou pointill  
Sp - Mero pecos  

Size : Max.: 90 cm

Fishing gear : Hook-and-line and spears

Habitat : Coral reefs between 5 and 15 m depth

PLATE VI, 31



Promicrops lanceolatus (Bloch, 1790)

Synonyms : None

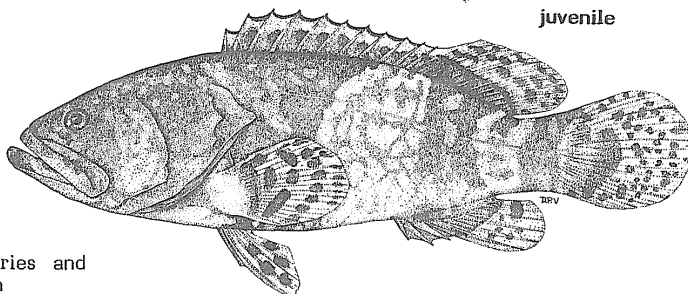
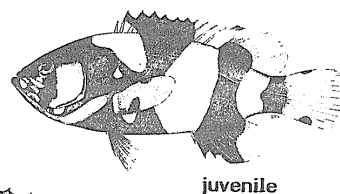
Loc. names : Chewa

FAO names : En - Brindle grouper
Fr - M  rou lanc  ol  
Sp - Mero lanceolado

Size : Max.: 270 cm and over 400 kg

Fishing gear : Hook-and-line and spears

Habitat : Common in harbours, estuaries and around wrecks, to 100 m depth



BONY FISHES

SERRANIDAE

Variola albimarginata Baissac, 1953

Synonyms : Variola punctulata (Lacepède, 1801)

Loc. names : Mkandaa; Mjombo (M)
Puwi, Chewa

FAO names : En - White-edged lyretail
Fr - Croissant queue blanche
Sp - Mero rabiblanco

Size : Max.: 40 cm (fork length)

Fishing gear : Hook-and-line

Habitat : Coral reefs, between 40 and 100 m
depth

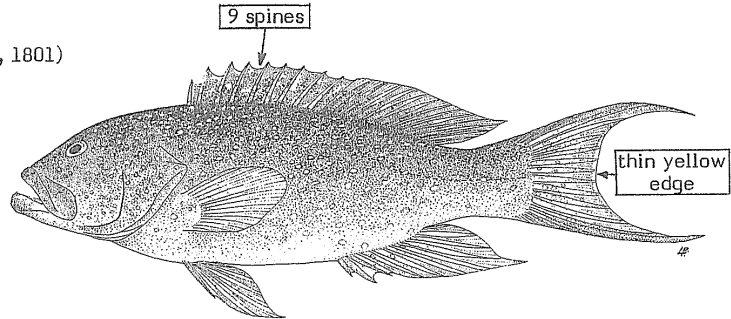


PLATE VI, 32

Variola louti (Forsskål, 1775)

Synonyms : None

Loc. names : Mkandaa (M), Mjombo (M), Puwi, Chewa

FAO names : En - Moontail seabass
Fr - Croissant queue jaune
Sp - Mero luna creciente

Size : Max.: 80 cm (fork length)

Fishing gear : Hook-and-line

Habitat : Coral reefs to at least 100 m depth

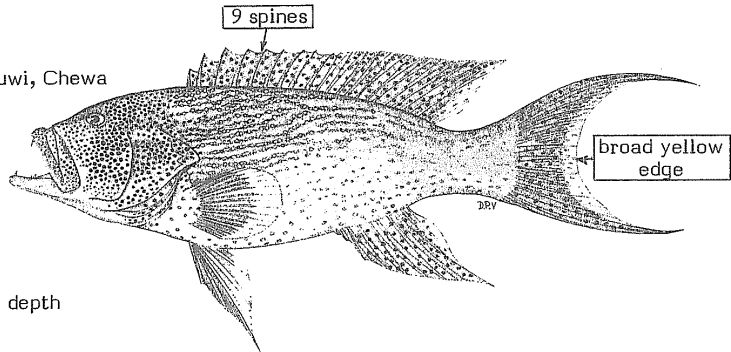


PLATE VI, 33

Pelates quadrilineatus (Bloch, 1790)

Synonyms : None

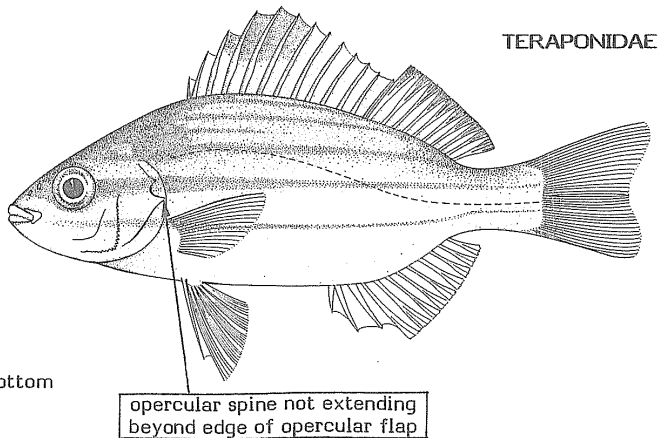
Loc. names : Kui
Ngagu (T)

FAO names : En - Fourlined terapon
Fr - Violon crepuscule
Sp - Baraonga aurora

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Gillnets, traps, handlines and bottom
trawls

Habitat : Inshore waters, sometimes brackish
waters



TERAPONIDAE

BONY FISHES

Terapon jarbua (Forsskal, 1775)

TERAPONIDAE

Synonyms : Holocentrus servus Bloch, 1790

Loc. names : Ngagu (T)
Kui

FAO names : En - Jarbua terapon
Fr - Violon jarbua
Sp - Baraonga jarbúa

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Gillnets, traps, handlines and bottom trawls

Habitat : Inshore waters; often in brackish and fresh waters

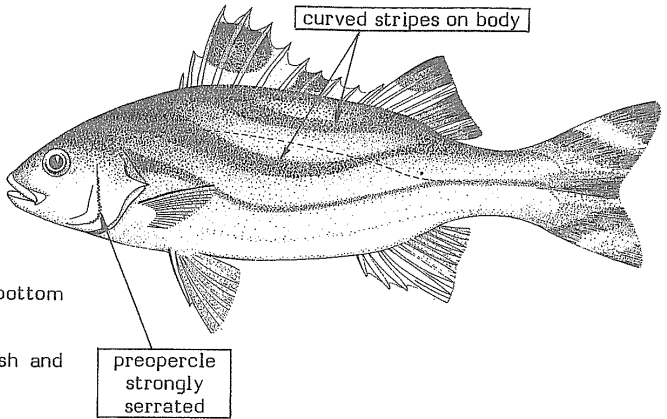


PLATE VI, 34

Terapon theraps (Cuvier, 1829)

Synonyms : Eutherapon theraps: Whitley, 1943

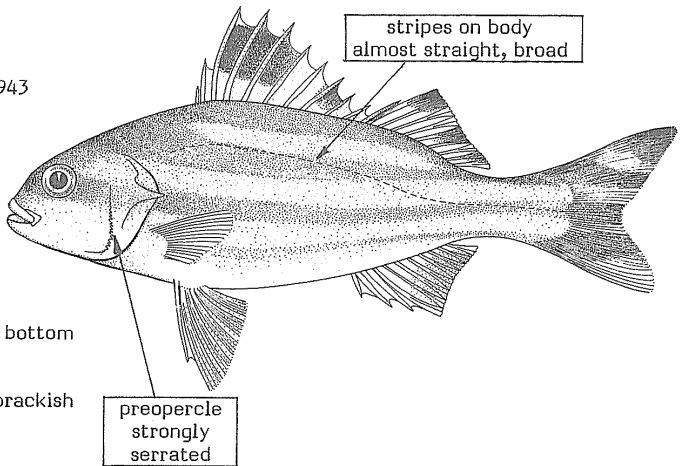
Loc. names : Ngagu (T)
Kui

FAO names : En - Largescales terapon
Fr - Violon tigre
Sp - Baraonga tigre

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Gillnets, traps, handlines and bottom trawls

Habitat : Inshore areas, sometimes in brackish waters



Terapon puta (Cuvier, 1829)

Synonyms : Authistes puta Whitley, 1943

Loc. names : Ngagu (T), Kui
Chije (T)

FAO names : En - Smallscaled terapon
Fr - Violon grogneur
Sp - Baraonga ronco

Size : Max.: 15 cm; common to 12 cm

Fishing gear : Gillnets, traps, handlines and bottom trawls

Habitat : Inshore waters, sometimes in brackish and fresh waters

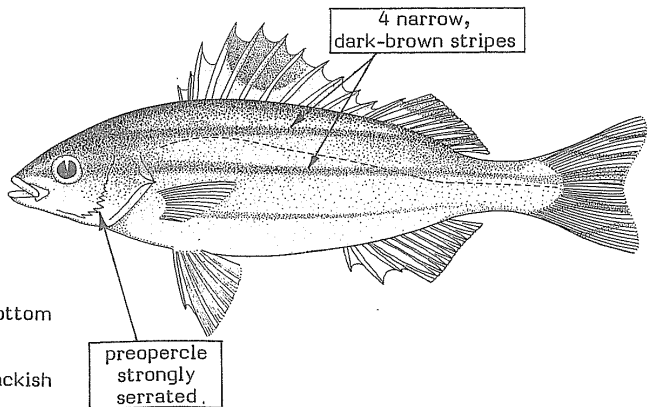


PLATE VI, 35

BONY FISHES

PRIACANTHIDAE

Priacanthus cruentatus (Lacepède, 1802)

Synonyms : None

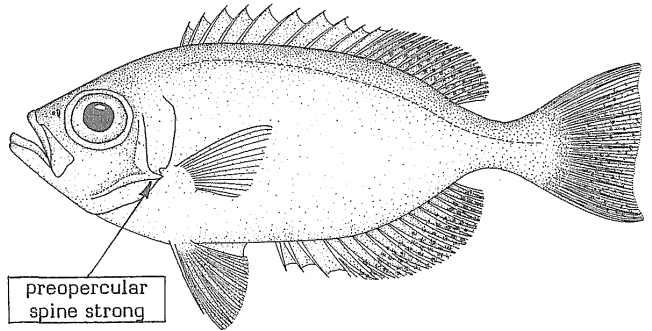
Loc. names :

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

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Hook-and-line and traps

Habitat : Coral reefs and rocky bottoms



Priacanthus hamrur (Forsskal, 1775)

Synonyms : None

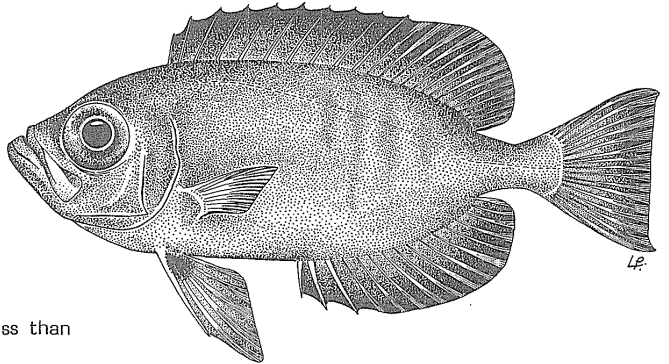
Loc. names :

FAO names : En - Moontail bullseye
Fr - Beauclaire miroir
Sp - Catalufa espejuelo

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Handlines and gillnets

Habitat : Coral and rocky bottoms in less than 25 m depth



Several species

APOGONIDAE

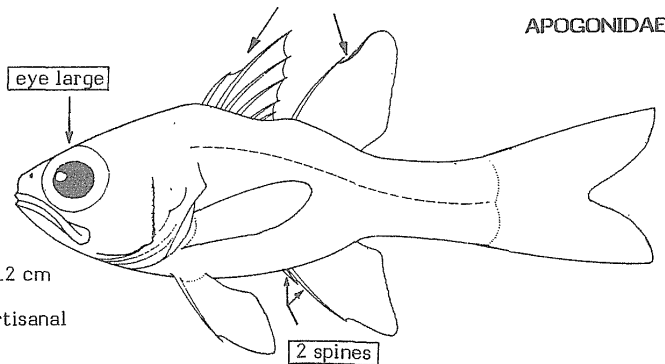
Loc. names : Dagaa-donzi (T)
Ufunda (D)
Dagaa-la-gege

FAO names : En - Cardinal fishes
Fr - Apogons, Sonneurs
Sp - Cardenales

Size : Max.: about 20 cm; common to 12 cm

Fishing gear : Trawls and various types of artisanal gear

Habitat : From the coastline to about 1,000 m depth



BONY FISHES

Sillago (Sillaginopodys) chondropus Bleeker, 1849

SILLAGINIDAE

Synonyms : None

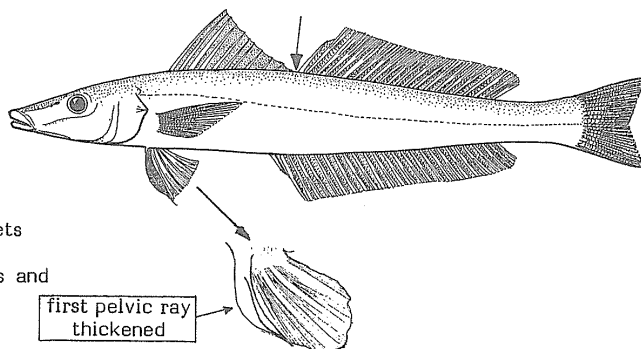
Loc. names : Mtambaanchi (D)(M)
Tambanji, Sondo

FAO names : En - Clubfoot sillago
Fr - Pêche-madame diablotin
Sp - Silago pateta

Size : Max.: 36 cm; common to 20 cm

Fishing gear : Beach seines, handlines and castnets

Habitat : Shallow sandy bottoms of shores and bays, also estuaries



Sillago maculata Quoy & Gaimard, 1824

Synonyms : None

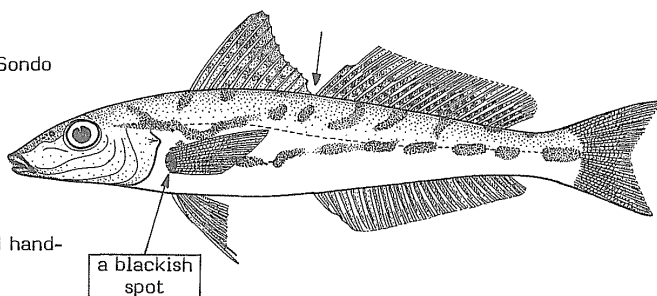
Loc. names : Mtambaanchi (D)(M), Tambanji, Sondo

FAO names : En - Trumpeter sillago
Fr - Pêche-madame trompette
Sp - Silago trompetero

Size : Max.: 20 cm; common to 12 cm

Fishing gear : Bottom trawls, beach seines and handlines

Habitat : Shallow sandy bottoms of shores and bays; also in estuaries



Sillago sihama (Forsskal, 1775)

Synonyms : None

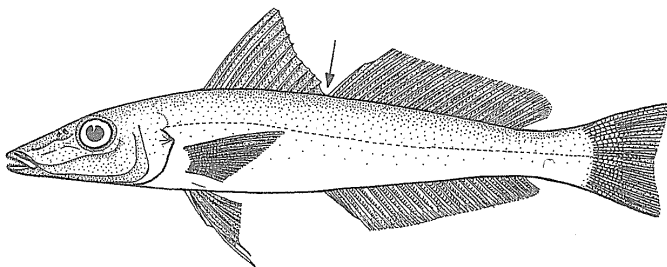
Loc. names : Mtambaanchi (D)(M)
Tambanji, Sondo

FAO names : En - Silver sillago
Fr - Pêche-madame argenté
Sp - Silago plateado

Size : Max.: 25 cm; common to 15 cm

Fishing gear : Beach seines and handlines

Habitat : Shallow sandy bottoms of shores and bays; also in estuaries



BONY FISHES

Lactarius lactarius (Bloch & Schneider, 1801)

1 spine and 20 to 22 soft rays

LACTARIIDAE

Synonyms : Lactarius delicatulus Valenciennes, 1833

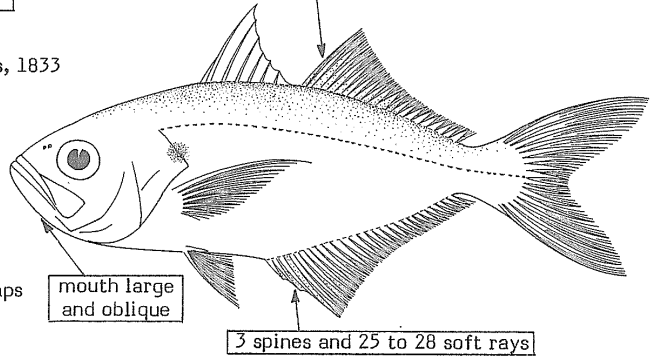
Loc. names :

FAO names : En - False trevally
Fr - Péliau chanos
Sp - Pagapa

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Bottom trawls, boat seines and traps

Habitat : Coastal waters to 100 m depth



Pomatomus saltatrix (Linnaeus, 1766)

POMATOMIDAE

Synonyms : Pomatomus saltator (Linnaeus, 1766)
Temnodon saltator (Valenciennes, 1833)

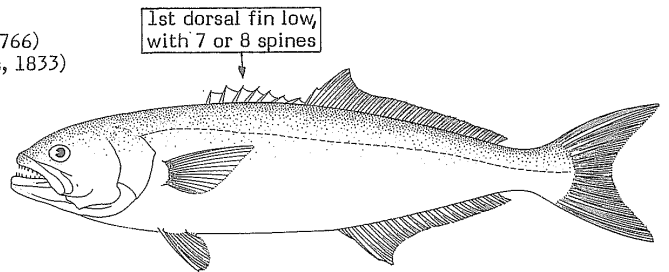
Loc. names :

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

Size : Max.: 120 cm; common to 60 cm

Fishing gear : Gillnets, lines and purse seines

Habitat : Pelagic, on the continental shelf



Rachycentron canadum (Linnaeus, 1766)

RACHYCENTRIDAE

Synonyms : None

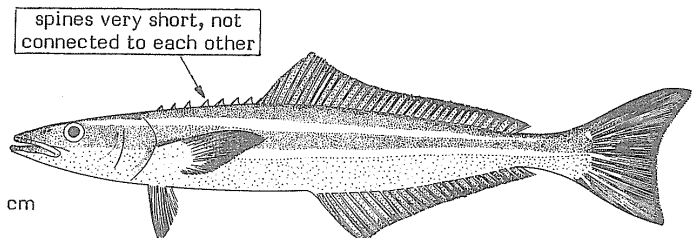
Loc. names : Songoro

FAO names : En - Cobia
Fr - Mafou
Sp - Cobia

Size : Max.: 200 cm; common to 110 cm

Fishing gear : Gillnets, handlines and trawls

Habitat : Pelagic, occasionally in estuaries or over shallow coral reefs and rocky shores



BONY FISHES

Echeneis naucrates Linnaeus, 1758

ECHENEIDAE

Synonyms : None

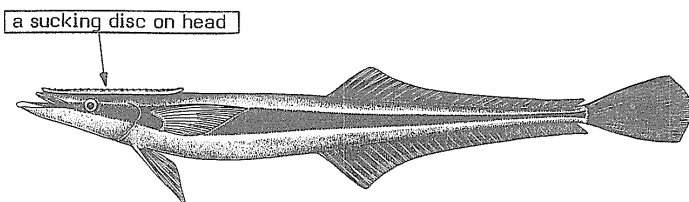
Loc. names : Mbuzi-bahari

FAO names : En - Live sharksucker
Fr - Rémora commun
Sp - Pegatimón

Size : Max.: at least 75 cm

Fishing gear : Caught when attached to hosts but also when free swimming, with trawls and driftnets

Habitat : Free swimming or attached to a wide variety of hosts such as sharks, sea turtles and ships



Alectis ciliaris (Bloch, 1788)

CARANGIDAE

Synonyms : Atlantic Ocean: Alectis crinitus (Mitchill, 1826) or Blepharis crinitus (Mitchill, 1826); Hawaii: Carangoides ajax Snyder, 1904

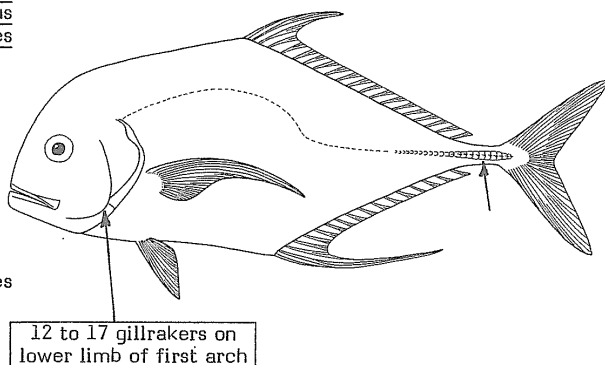
Loc. names : Kolekole, Jogoo, Kioo

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

Size : Max.: 150 cm; common to 100 cm

Fishing gear : Hook-and-line (adults); beach seines (juveniles) and trawls

Habitat : Coastal waters to 100 m depth



Alectis indicus (Rüppell, 1830)

Synonyms : None

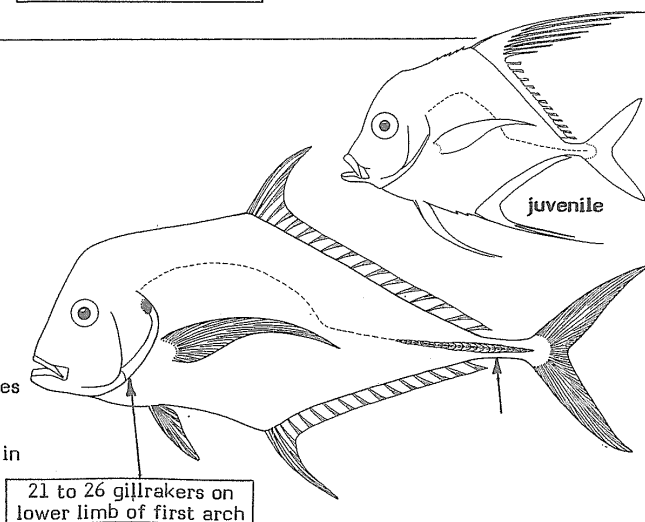
Loc. names : Kolekole, Jogoo, Kioo

FAO names : En - Indian threadfish
Fr - Cordonnier plume
Sp - Pámpano indico

Size : Max.: 150 cm

Fishing gear : Hook-and-line (adults); beach seines (juveniles) and in trawls

Habitat : Continental shelf, concentrating in large shoals; juveniles in estuaries



BONY FISHES

CARANGIDAE

Alepes djedaba (Forsskål, 1775)

Synonyms : Atule djedaba (Forsskål, 1775)
Caranx djedaba (Forsskål, 1775)

Loc. names :

FAO names : En - Shrimp scad
 Fr - Sélar subari
 Sp - Jurel subari

Size : Max.: 29 cm; common to 25 cm

Fishing gear : Hook-and-line

Habitat : Common near inshore reefs, often forming large schools

adipose eyelid well developed on posterior half of eye only

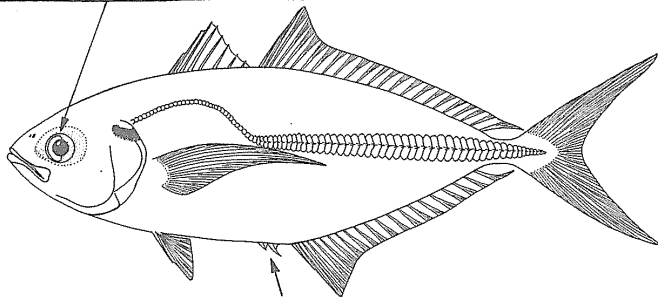


PLATE VII, 37

Atule mate (Cuvier, 1833)

Synonyms : Caranx mate Cuvier, 1833
Caranx affinis Rüppell, 1836
Decapterus politus (Jenkins, 1904)
Decapterus londini Jordan & Seale, 1906
Decapterus normani Bertin, & Dollfus, 1948

Loc. names : Kibua (D)
 Nyuna (T)

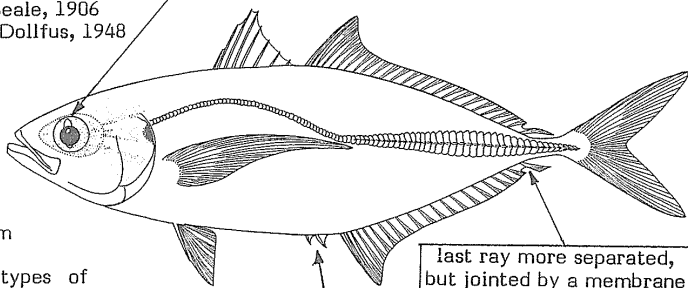
FAO names : En - Yellowtail scad
 Fr - Sélar queue jaune
 Sp - Jurel rabo amarillo

Size : Max.: 30 cm; common to 26 cm

Fishing gear : Hook-and-line and various types of artisanal gear

Habitat : Pelagic, to about 50 m

adipose eyelid well developed covering all eye except a vertical slit



last ray more separated, but jointed by a membrane

Carangoides caeruleopinnatus (Rüppell, 1830)

Synonyms : Caranx caeruleopinnatus Rüppell, 1830
Carangoides altissimus Jordan & Seale, 1907
Caranx formosanus Jordan & Snyder, 1910

Loc. names : Kole-kole

FAO names : En - Coastal trevally
 Fr - Carangue côtière
 Sp - Jurel costero

Size : Max.: 35 cm; common to 25 cm

Fishing gear : Hook-and-line, gillnets, traps and bottom trawls

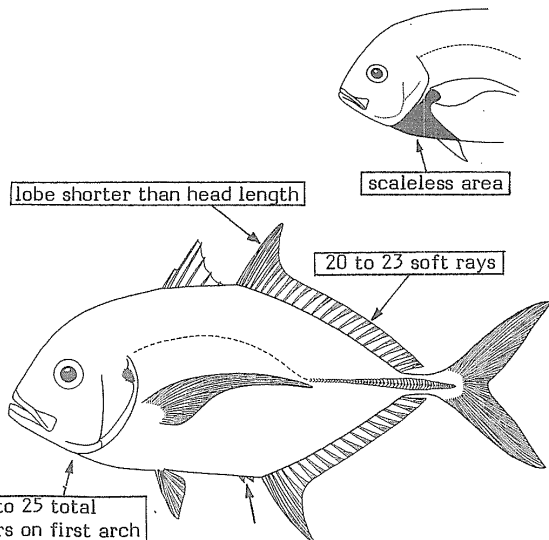
Habitat : Coastal waters, over deeper reefs

lobe shorter than head length

scaleless area

20 to 23 soft rays

21 to 25 total gillrakers on first arch



BONY FISHES

Carangoides chrysophrys (Cuvier, 1833)

CARANGIDAE

Synonyms : Caranx chrysophrys Cuvier, 1833
Carangoides chrysophryoides Bleeker, 1851
Caranx typus Gilchrist & Thompson, 1917

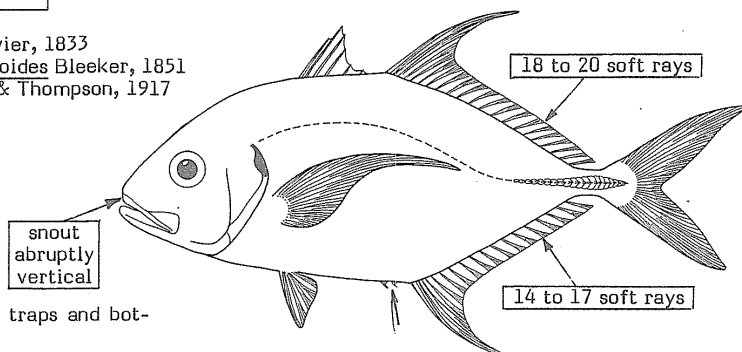
Loc. names : Kolekole

FAO names : En - Longnose trevally
 Fr - Carangue tapir
 Sp - Jurel tapir

Size : Max.: 60 cm

Fishing gear : Hook-and-line, gillnets, traps and bottom trawls

Habitat : Coastal waters to 60 m depth



Carangoides fulvoguttatus (Forsskål, 1775)

Synonyms : Caranx fulvoguttatus (Forsskål, 1775)
Turrun emburyi Whitley, 1932

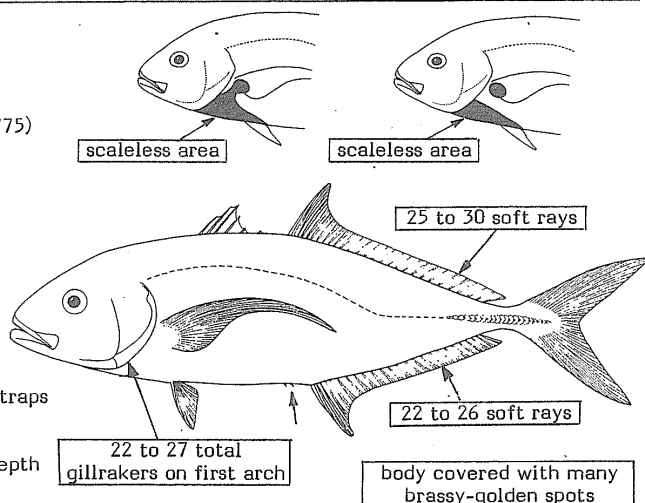
Loc. names : Kolekole
 Karambizi (large size)

FAO names : En - Yellowspotted trevally
 Fr - Carangue pailletée
 Sp - Jurel centellante

Size : Max.: 100 cm (fork length)

Fishing gear : Hook-and-line, spears, gillnets, traps and bottom trawls

Habitat : Rocky and coral reefs, to 100 m depth



Carangoides malabaricus (Bloch & Schneider, 1801)

Synonyms : Caranx malabaricus (Bloch & Schneider, 1801)
Carangoides rectipinnis Williams, 1958
Carangoides rhomboides Kotthaus, 1974

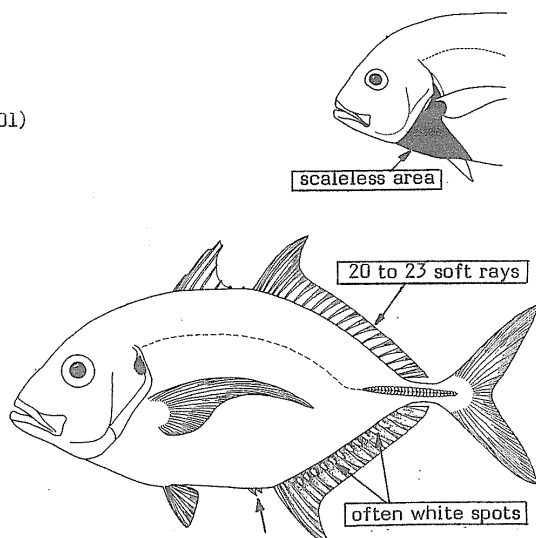
Loc. names : Kolekole

FAO names : En - Malabar trevally
 Fr - Carangue monique
 Sp - Jurel malabárico

Size : Max.: 24 cm

Fishing gear : Hook-and-line, bottom trawls, gillnets and traps

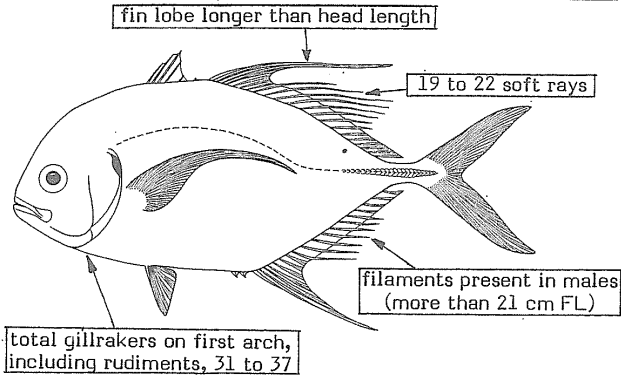
Habitat : Frequents coral and rocky reefs but may also be found in shallow sandy bays (mainly juveniles). Moderately tolerant of turbid waters



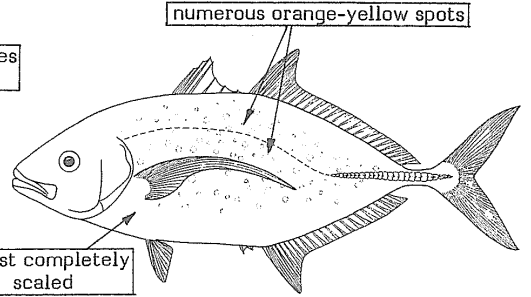
BONY FISHES

CARANGIDAE

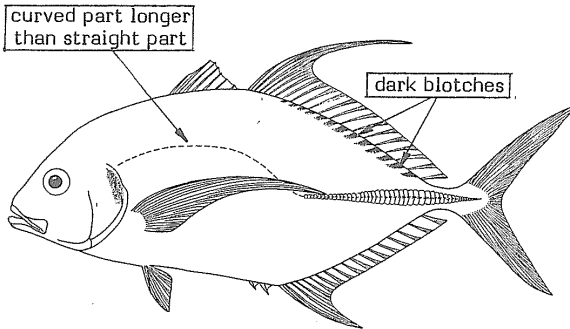
Other Carangoides species



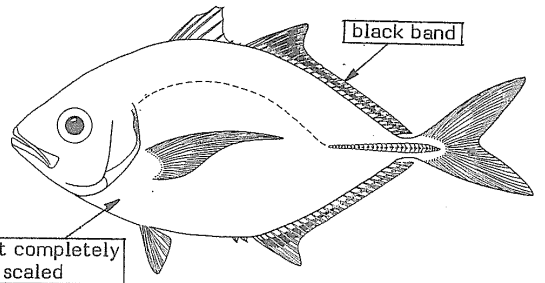
Carangoides armatus (Rüppell, 1830)
Longfin trevally
size: to 50 cm **PLATE VII, 38**



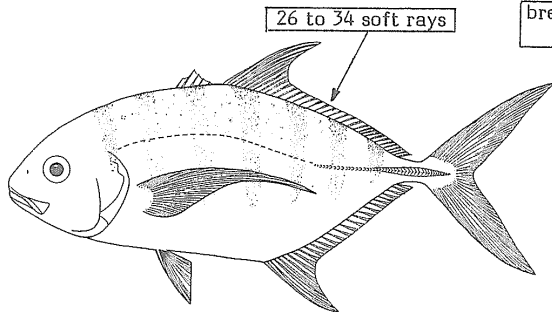
Carangoides bajad (Forsskal, 1775)
Orangespotted trevally
size: to 55 cm **PLATE VII, 39**



Carangoides dinema Bleeker, 1851
Shadow trevally
size: to 59 cm



Carangoides equula (Temminck & Schlegel, 1844)
Whitefin trevally
size: to 40 cm

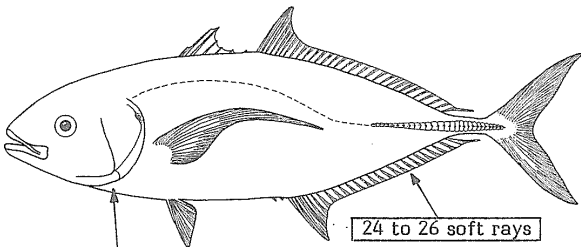


Carangoides ferdau (Forsskal, 1775)
Blue trevally
size: to 70 cm **PLATE VII, 40**

BONY FISHES

CARANGIDAE

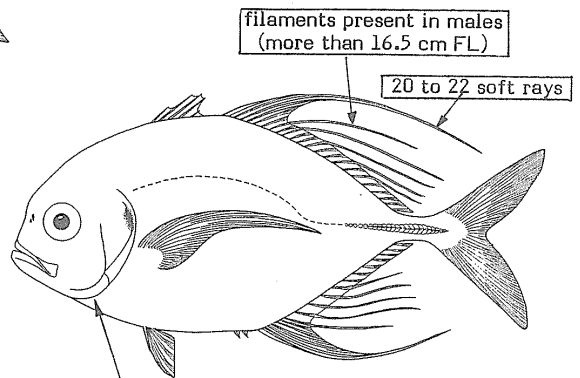
Other Carangoides species



27 to 31 total
gillrakers on first arch

24 to 26 soft rays

Carangoides gymnostethus (Cuvier, 1833)
Bludger
size: to 90 cm

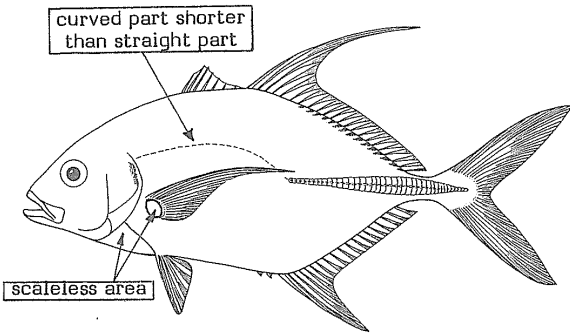


filaments present in males
(more than 16.5 cm FL)

20 to 22 soft rays

total gillrakers on first arch,
including rudiments, 20 to 27

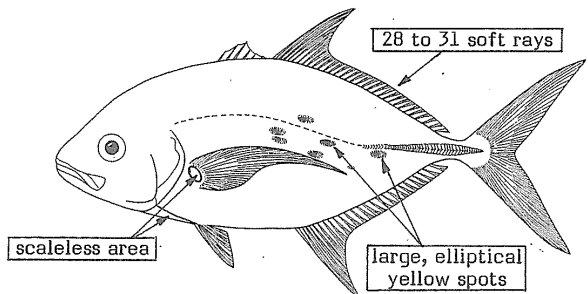
Carangoides hedlandensis (Whitley, 1933)
Bumpnose trevally
size: to 28 cm



curved part shorter
than straight part

scaleless area

Carangoides oblongus (Cuvier, 1833)
Coachwhip trevally
size: to 46 cm

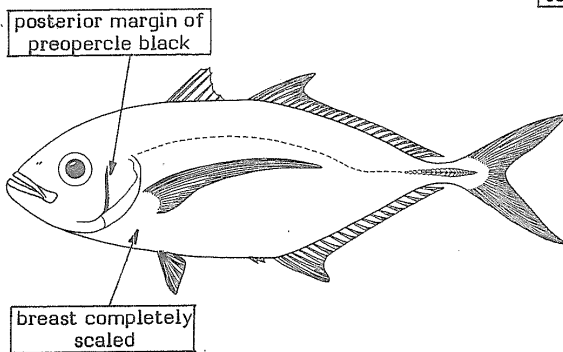


28 to 31 soft rays

scaleless area

large, elliptical
yellow spots

Carangoides orthogrammus Jordan & Gilbert, 1881
Island trevally
size: to 70 cm



posterior margin of
preopercle black

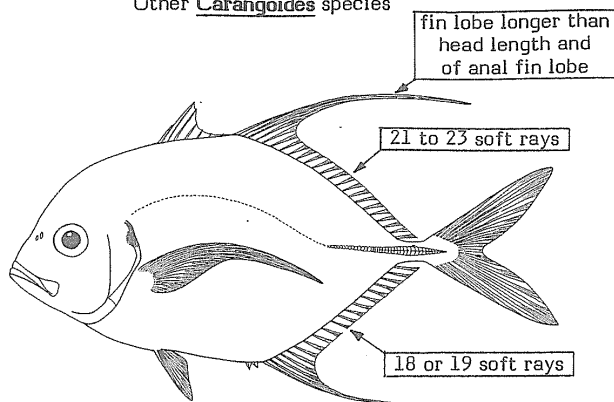
breast completely
scaled

Carangoides plagiotaenia Bleeker, 1857
Barcheek trevally
size: to 42 cm

BONY FISHES

Other Carangoides species

CARANGIDAE



Carangoides uii Watiya, 1924
Onion trevally
size: to 25 cm

Caranx ignobilis (Forsskal, 1775)

Synonyms : None

Loc. names : Kolekole (small)
Karambizi (large)

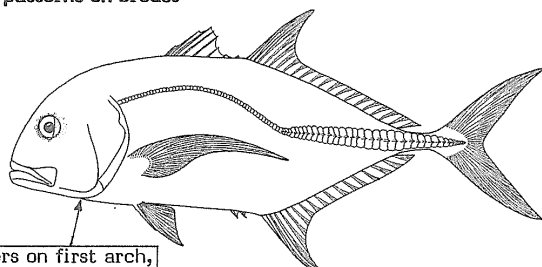
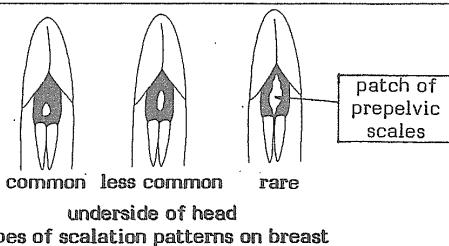
FAO names : En - Giant trevally
Fr - Carangue têteue
Sp - Jurel gigante

Size : Max.: 165 cm; common to 80 cm (fork length)

Fishing gear: Hook and line, spears, gillnets and trawls

Habitat : All marine habitats

PLATE VII, 42



Caranx melampygus Cuvier, 1833

Synonyms : Caranx stellatus Eydoux & Souleyet, 1841
Caranx medusicola Jordan & Starks, 1895

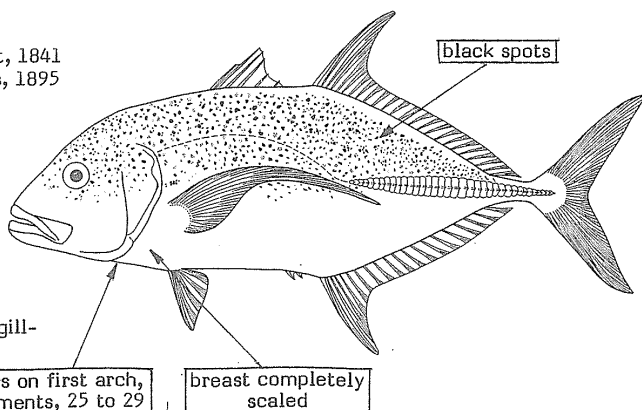
Loc. names : Kolekole (small)
Karambizi (large)

FAO names : En - Bluefin trevally
Fr - Carangue aile bleue
Sp - Jurel de aleta azul

Size : Max.: 100 cm

Fishing gear: Hook-and-line, spears, traps and gill-nets

Habitat : Reef habitats



BONY FISHES

CARANGIDAE

Caranx papuensis Alleyne & Macleay, 1877

Synonyms : Caranx regularis Garman, 1903
Caranx celetus Smith, 1968

Loc. names : Kolekole (small)
Karambizi (large)

FAO names : En - Brassy trevally
Fr - Carangue bronze
Sp - Jurel bronceado

Size : Max.: 70 cm

Fishing gear : Hook-and-line, gillnets and various types of artisanal gear

Habitat : Seaward reefs, juveniles often in estuaries

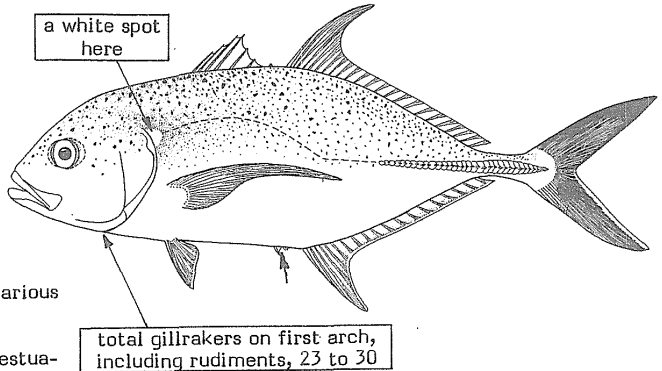


PLATE VIII, 43

Caranx sem Cuvier, 1833

Synonyms : Caranx williamsi J.L.B. Smith, 1968
Caranx sanson of authors

Loc. names : Kolekole (small)
Karambizi (large)

FAO names : En - Blacktip trevally
Fr - Carangue cocole
Sp - Jule cocolí

Size : Max.: 80 cm

Fishing gear : Hook-and-line, gillnets and various types of artisanal gear

Habitat : Prefers clean, open coastal waters; adults are particularly common in small aggregations over rocky reefs and are seldom found in turbid or estuarine waters

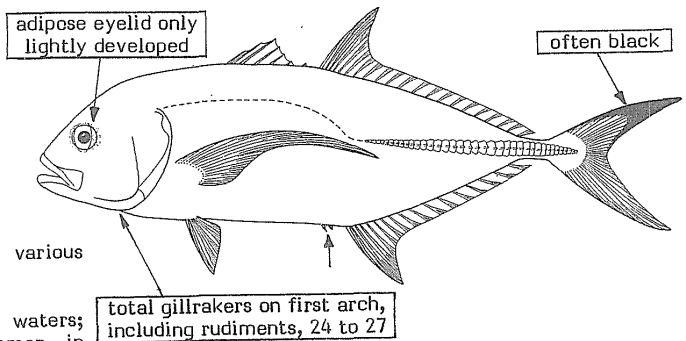


PLATE VIII, 44

Caranx sexfasciatus Quoy & Gaimard, 1824

Synonyms : Caranx marginatus Gill, 1863
Caranx elacate Jordan & Everman, 1904

Loc. names : Kole-kole (small)
Karambizi (large)

FAO names : En - Bigeye trevally
Fr - Carangue vorace
Sp - Jurel voraz

Size : Max.: 80 cm

Fishing gear : Hook-and-line, gillnets, purse seines and other artisanal gear

Habitat : Reef areas, juveniles may occur in estuaries

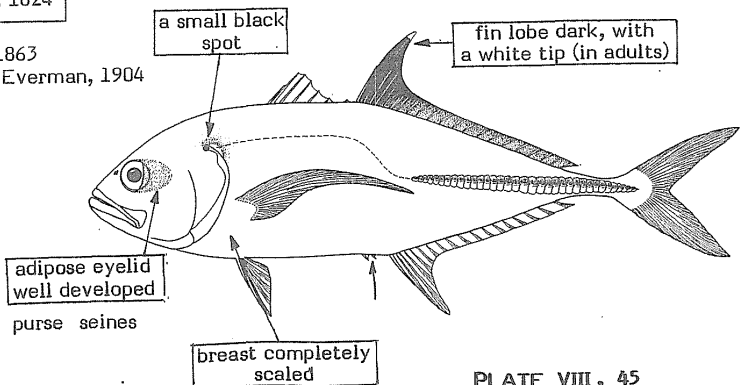


PLATE VIII, 45

BONY FISHES

CARANGIDAE

Caranx tille Cuvier, 1833

Synonyms : Caranx cynodon Bleeker, 1851

Loc. names : Kolekole (small)
Karambizi (large)

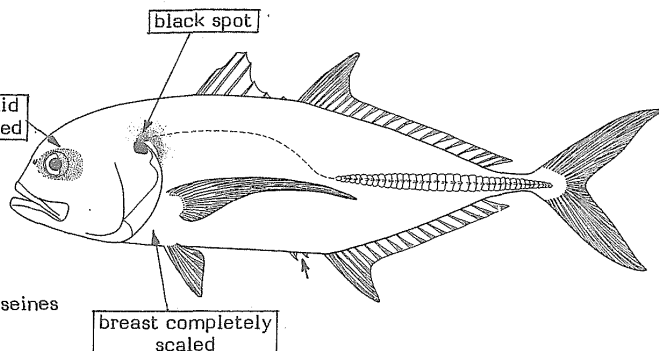
adipose eyelid
well developed

FAO names : En - Tille trevally
Fr - Carangue tille
Sp - Jurel tille

Size : Max.: 70 cm

Fishing gear : Hook-and-line, gillnets, purse seines
and other artisanal gear

Habitat : A coastal species, mainly around rocky
and coral reefs



Decapterus macrosoma Bleeker, 1851

Synonyms : Decapterus afueræ Hildebrand, 1946

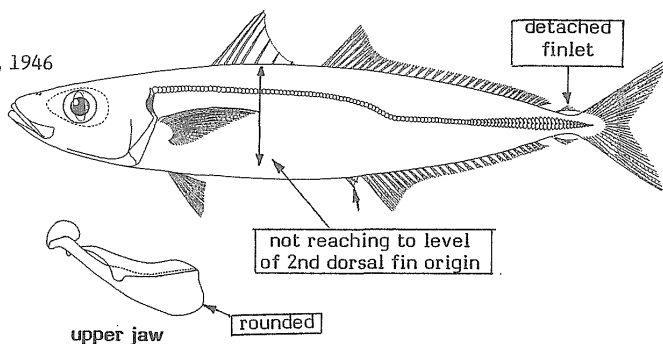
Loc. names : Ngula-ngula
(D); Lungu (Z);
Msumari (T); Simsimu

FAO names : En - Shortfin scad
Fr - Comète fine
Sp - Macarela alicorta

Size : Max.: about 30 cm (fork length)

Fishing gear : Purse seines, trawls

Habitat : A schooling species, between 30 and
170 m depth



Decapterus macarellus Cuvier, 1833

Synonyms : Decapterus jacobus (Cuvier, 1833)
Decapterus pinnulatus (Eydoux & Souleyet, 1841)
Decapterus canonoides Jenkins, 1903

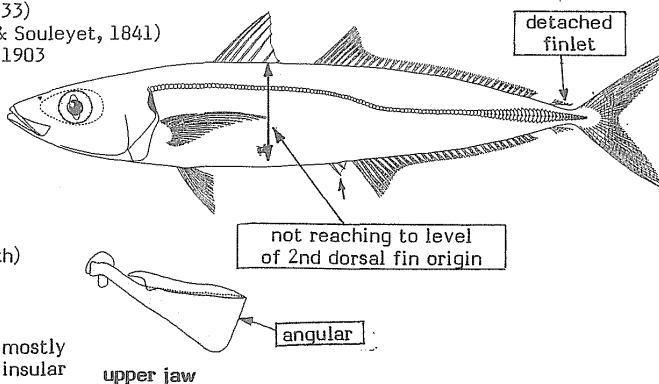
Loc. names : Ngula-ngula (D); Msumari (T)
Lungu (Z); Simsimu

FAO names : En - Mackerel scad
Fr - Comète maqueraeu
Sp - Macarela caballa

Size : Max.: to about 30 cm (fork length)

Fishing gear : Purse seines and trawls

Habitat : A schooling species, occurring mostly
in open water and common in insular
habitats. Sometimes near the surface
but usually taken in depths between 40
and 200 m



BONY FISHES

Decapterus kurroides Bleeker, 1855

CARANGIDAE

Synonyms : None

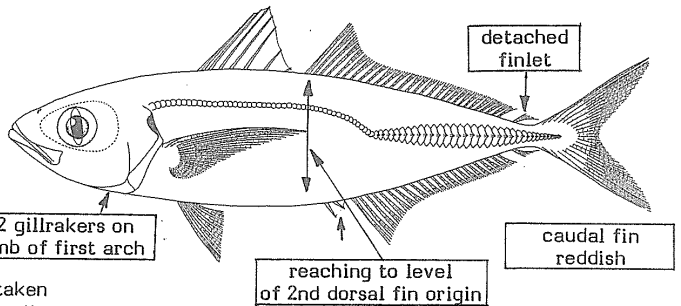
Loc. names : Ngula-ngula (D); Msumari (T)
Lungu (Z); Simsimu

FAO names : En - Redtail scad
Fr - Comète mauvane
Sp - Macarela mauvana

Size : Max.: 40 cm (fork length)

Fishing gear : Trawls

Habitat : A deep water, schooling species taken
in depths of 100 to 300 m, but usually
below 150 m



Decapterus russelli (Rüppell, 1830)

Synonyms : Decapterus kiliche (Cuvier, 1833)
Decapterus lajang Bleeker, 1885

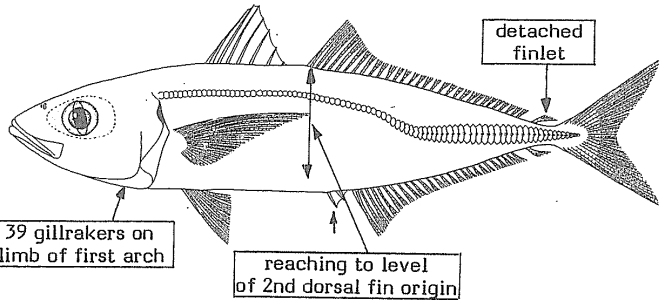
Loc. names : Ngula-ngula (D); Msumari (T)
Lungu (Z); Simsimu

FAO names : En - Indian scad
Fr - Comète indienne
Sp - Macarela indica

Size : Max.: 35 cm

Fishing gear : Purse seines and trawls

Habitat : Coastal waters and often banks to
100 m depth



Elagatis bipinnulata (Quoy & Gaimard, 1824)

Synonyms : None

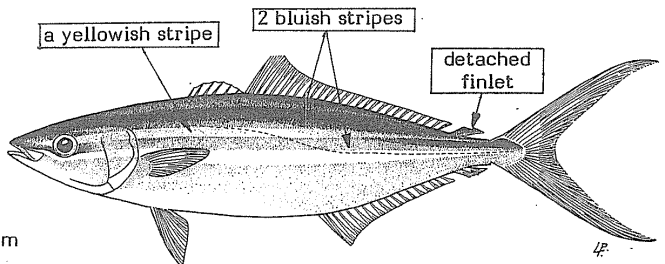
Loc. names : Muhaluwa (T)
Kiharua (M)

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

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

Fishing gear : Hook-and-line, purse seines and gill-nets

Habitat : A pelagic species, usually found near
the surface



BONY FISHES

CARANGIDAE

Gnathanodon speciosus (Forsskal, 1775)

Synonyms : Caranx speciosus (Forsskal, 1775)

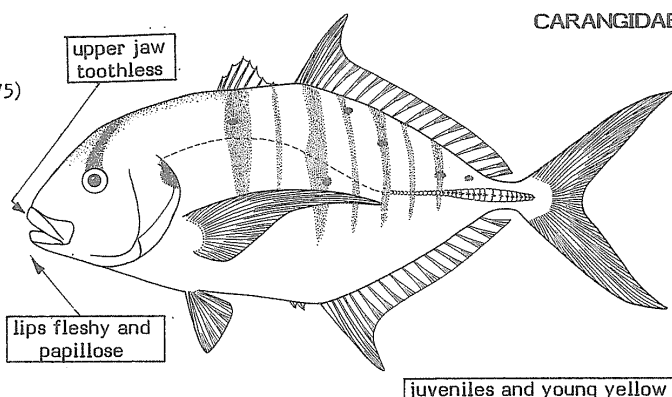
Loc. names : Kolekole

FAO names : En - Golden trevally
Fr - Garangue royale jaune
Sp - Jurel dorado

Size : Max.: 100 cm

Fishing gear : Gillnets, spears and trawls

Habitat : Reef areas



Megalaspis cordyla (Linnaeus, 1758)

Synonyms : None

Loc. names : Kibua-ngori (D)(M)
Kijodari (T)(M)

FAO names : En - Torpedo scad
Fr - Comète torpille
Sp - Macarela torpedo

Size : Max.: 80 cm; common to 40 cm

Fishing gear : Hook-and-line, beach seines, trawls, purse seines and traps

Habitat : A pelagic, schooling species

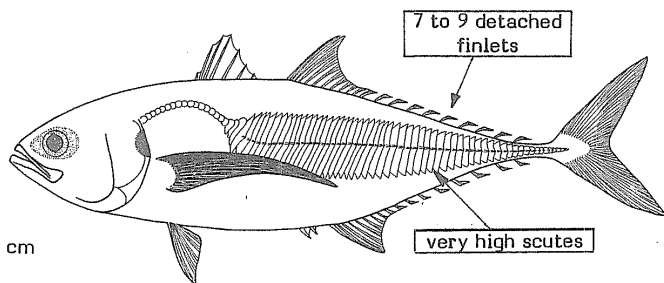


PLATE VIII, 46

Naucrates ductor (Linnaeus, 1758)

Synonyms : Naucrates indicus Lesson, 1830

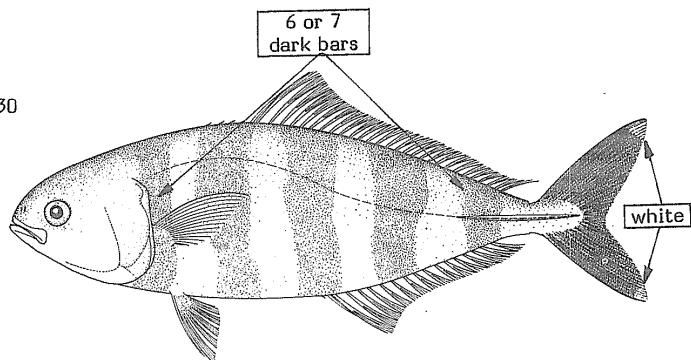
Loc. names :

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

Size : Max.: 70 cm (fork length)

Fishing gear : Pelagic trawls

Habitat : Primarily pelagic in oceanic waters



BONY FISHES

CARANGIDAE

Parastromateus niger (Bloch, 1795)

Synonyms : Apolectus niger (Bloch, 1795)
Formio niger (Bloch, 1795)
Citula halli Evermann & Seale, 1907

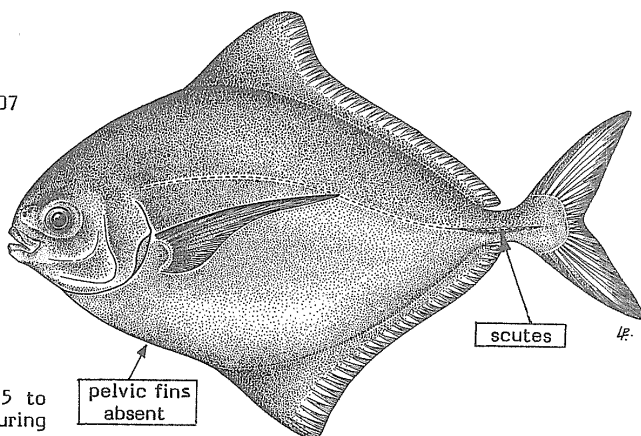
Loc. names : Kuku (D); Kuku-maji
Kihalua (D); Halua; Nyangushi

FAO names : En - Black pomfret
Fr - Castagnoline noire
Sp - Palometa negra

Size : Max.: 55 cm; common to 30 cm

Fishing gear : Gillnets, boat seines and trawls

Habitat : Usually on muddy bottoms in 15 to 40 m depth, near the bottom during the day, rising to near the surface at night



Scomberoides commersonnianus Lacepède, 1802

Synonyms : Chorinemus commersonnianus (Lacepède, 1802)

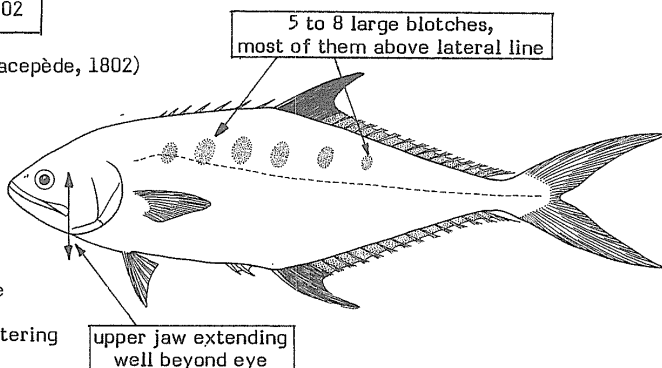
Loc. names : Pandu

FAO names : En - Talang queenfish
Fr - Sauter talang
Sp - Jurel saltador

Size : Max.: reported to attain 120 cm

Fishing gear : Gillnets, seines and hook-and-line

Habitat : Coastal waters, occasionally entering estuaries



Scomberoides lysan (Forsskal, 1775)

Synonyms : Chorinemus sanctipetri Cuvier, 1832
Chorinemus orientalis Temminck & Schlegel, 1844

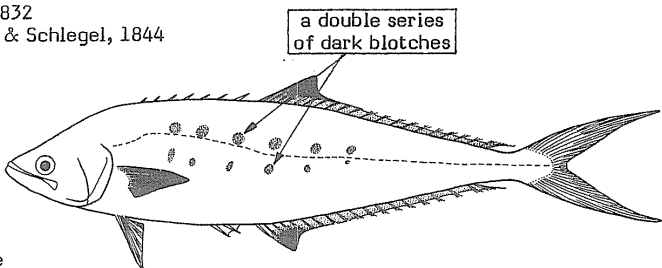
Loc. names : Pandu

FAO names : En - Doublespotted queenfish
Fr - Sauter sabre
Sp - Jurel sable

Size : Max.: about 60 cm (fork length)

Fishing gear : Gillnets, seines and hook-and-line

Habitat : Inshore waters, from shallow lagoons to about 100 m depth



BONY FISHES

Scomberoides tol (Cuvier, 1832)

CARANGIDAE

Synonyms : Chorinemus tol Cuvier, 1832

Loc. names : Pandu

FAO names : En - Needlescaled queenfish
Fr - Sauteur leurre
Sp - Jurel saltarín

Size : Max.: about 47 cm (fork length)

Fishing gear : Gillnets, seines and hook-and-line

Habitat : Near the surface in coastal waters

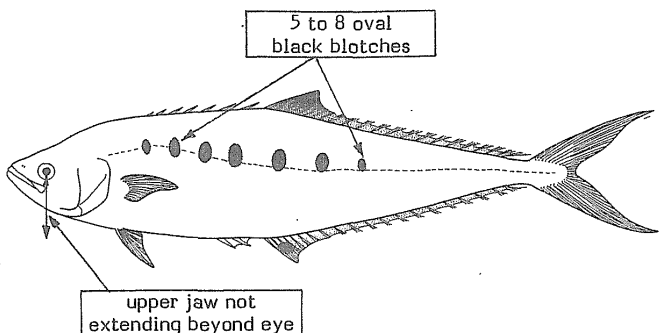


PLATE VIII, 48

Selar crumenophthalmus (Bloch, 1793)

Synonyms : Trachurops crumenophthalmus (Bloch, 1793)

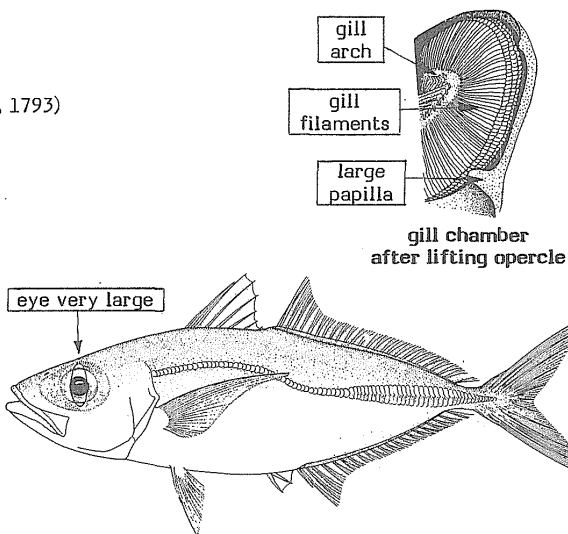
Loc. names : Kibua-macho (D)(M)
Macho-gololi (T)

FAO names : En - Bigeye scad
Fr - Sélar coulisou
Sp - Chicharro ojón

Size : Max.: to about 30 cm (fork length), common to 25 cm

Fishing gear : Hook-and-line, beach seines, trawls, purse seines and traps

Habitat : Mainly inshore or shallow waters, sometimes down to 170 m depth, forming small to large schools



Seriola rivoliana Valenciennes, 1833

Synonyms : Western Atlantic, Seriola falcata Cuvier, 1833
South Africa, Seriola songoro Smith, 1959
Mozambique, Seriola bovinoculata Smith, 1959
Eastern Pacific, Seriola colburni Evermann & Clark, 1928

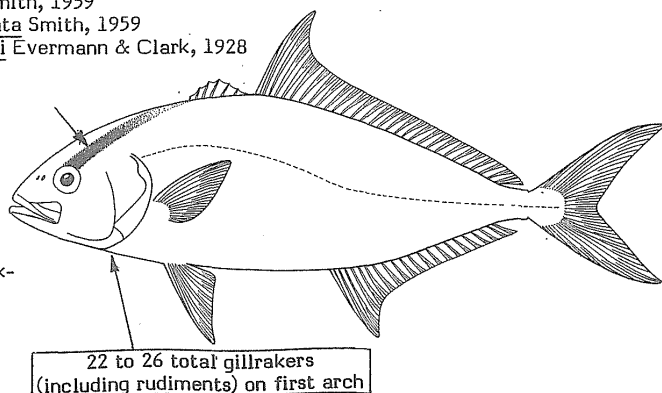
Loc. names : Kolekole

FAO names : En - Almaco jack
Fr - Sériole limon
Sp - Medregal limón

Size : Common to 65 cm (fork length)

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

Habitat : Oceanic, pelagic and epibenthic



BONY FISHES

CARANGIDAE

Seriolina nigrofasciata (Rüppell, 1829)

Synonyms : Zonichthys nigrofasciata (Rüppell, 1829)

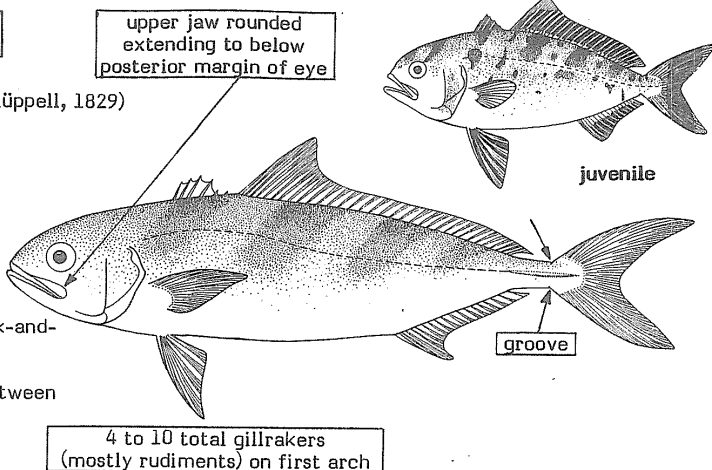
Loc. names : Kihalua (D)

FAO names : En - Blackbanded trevally
Fr - Sériole amourez
Sp - Medregal listado

Size : Max.: about 70 cm

Fishing gear : Seines, traps, gillnets, hook-and-line and trawls

Habitat : Offshore reefs or shelves between 80 and 150 m depth



Trachinotus africanus Smith, 1967

Synonyms : None

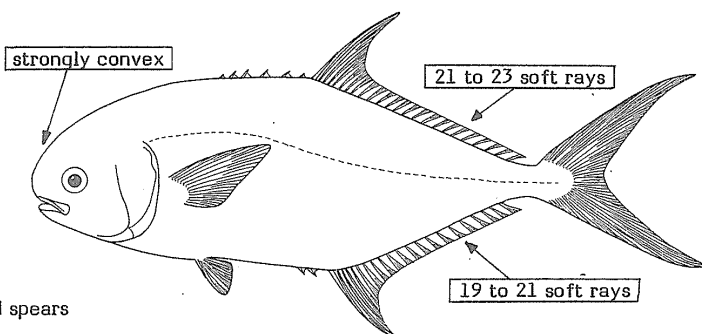
Loc. names : Kolekole; Pandu
Kolekole punda (Z); Sio (M)

FAO names : En - African pompano
Fr - Pampaneau africain
Sp - Pámpano africano

Size : Max.: about 90 cm

Fishing gear : Traps, gillnets, handlines and spears

Habitat : Shallow coastal waters with reefs and rocky outcrops, tolerates low salinities



Trachinotus bailloni (Lacepède, 1801)

Synonyms : None

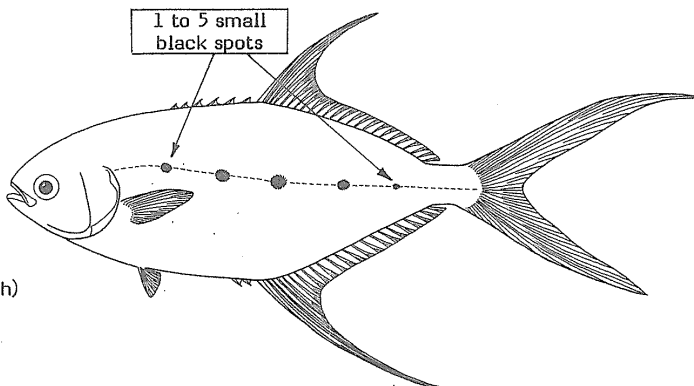
Loc. names : Kolekole; Pandu
Kolekole punda (Z); Sio (M)

FAO names : En - Smallspotted dart
Fr - Pampaneau muscadin
Sp - Pámpano abotonado

Size : Max.: about 40 cm (fork length)

Fishing gear : Traps, gillnets and handlines

Habitat : Coastal waters



BONY FISHES

CARANGIDAE

Trachinotus blochii (Lacepède, 1801)

Synonyms : None

Loc. names : Kikotwe (T) (juvenile)
Kolekole punda (Z); Sio (M); Kole; Pandu

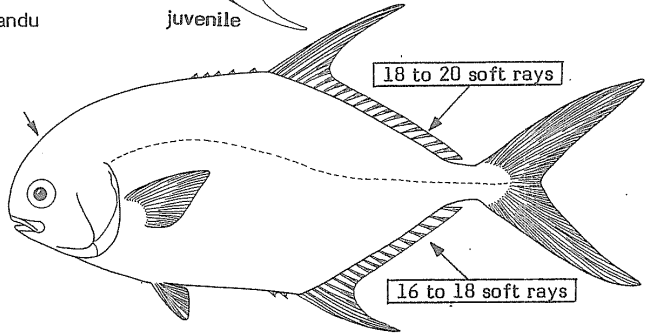
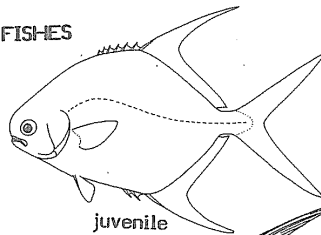
FAO names : En - Snubnose pompano
Fr - Pompaneau lune
Sp - Pámpano lunero

Size : Max.: about 55 cm (fork length)

Fishing gear : Traps, gillnets and handlines

Habitat : Coral and rocky reef areas in shallow coastal waters

PLATE IX, 49



Ulua mentalis (Cuvier, 1833)

Synonyms : Caranx mentalis Cuvier, 1833
Caranx mandibularis Macleay, 1833
Ulua mandibularis (Macleay, 1883)

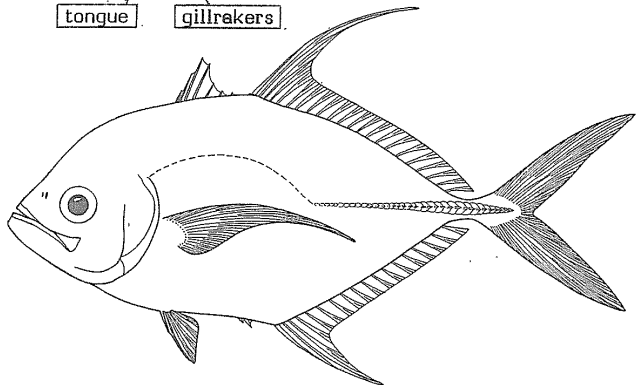
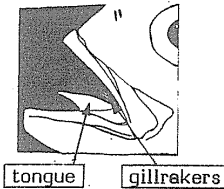
Loc. names : Kolekole

FAO names : En - Longrakered trevally
Fr - Carangue démêloir
Sp - Jurel peinero

Size : Max.: about 75 cm (fork length);
common to 60 cm

Fishing gear : Gillnets, traps, handlines and other types of artisanal gear

Habitat : Shallow coastal waters



Uraspis secunda (Poey, 1860)

Synonyms : Caranx hullianus McCulloch, 1909
Basetina hullianus (McCulloch, 1909)
Uraspis reversa Jordan, Evermann & Wakiya, 1927
Uraspis heidi Fowler, 1938
Uraspis wakiyai Williams, 1961
Uraspis cadenati Blache & Rossignol, 1962

Loc. names : Kolekole

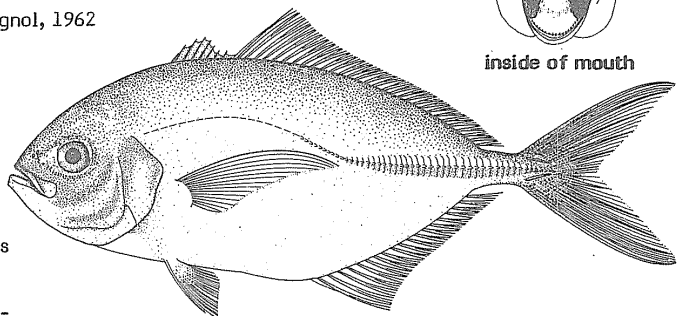
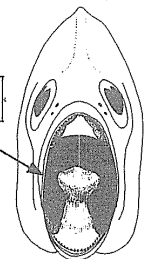
FAO names : En - Cottonmouth jack
Fr - Carangue coton
Sp - Jurel volantín

Size : Max.: about 43 cm (fork length)

Fishing gear : Trawls, purse seines, longlines and hook-and-line

Habitat : Mainly oceanic, at surface, pelagic or benthic

tongue, roof and floor of mouth
creamy white, the rest black



BONY FISHES

Coryphaena equisetis Linnaeus, 1758

CORYPHAENIDAE

Synonyms : Coryphaena equisetis Linnaeus, 1758

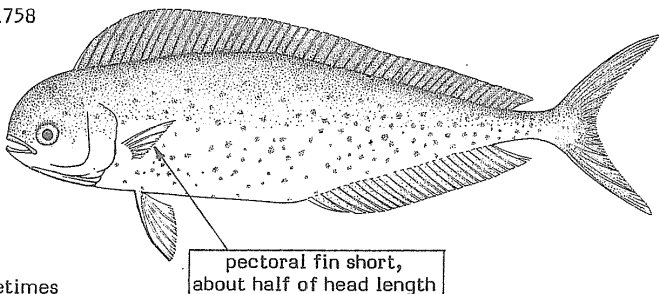
Loc. names : Falusi, Fulusi, Pomboo (M)

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

Size : Max.: 75 cm; common to 50 cm

Fishing gear : Trolling and with floating lines

Habitat : Pelagic, in open waters, sometimes approaching the coast. Concentrates below floating objects



Coryphaena hippurus Linnaeus, 1758

Synonyms : None

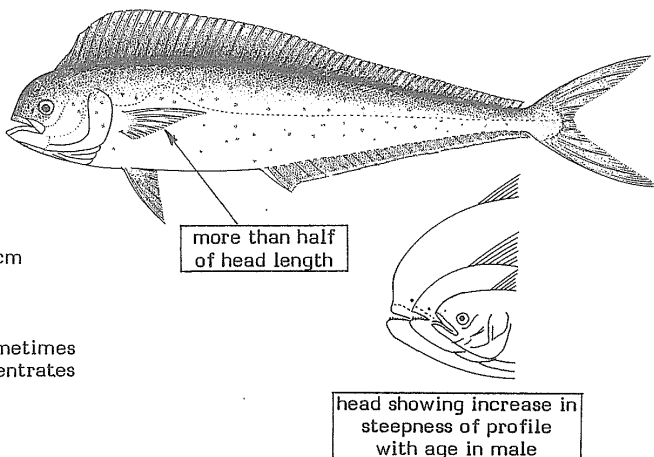
Loc. names : Falusi, Fulusi, Pomboo (M)

FAO names : En - Common dolphinfish
Fr - Coryphène commune
Sp - Dorado común

Size : Max.: 200 cm; common to 100 cm

Fishing gear : Trolling and tuna longlines

Habitat : Pelagic, in open waters, sometimes approaching the coast. Concentrates below floating objects



Mene maculata (Bloch & Schneider, 1801)

MENIDAE

Synonyms : None

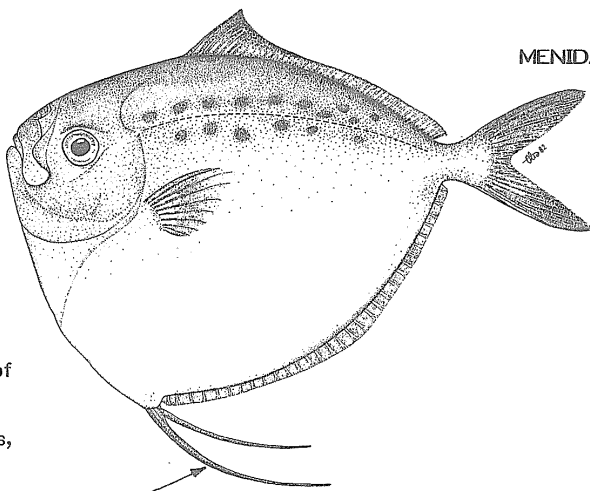
Loc. names :

FAO names : En - Moonfish
Fr - Luneur
Sp - Lunero

Size : Max.: 24 cm; common to 18 cm

Fishing gear : Beach seines, traps and other types of artisanal gear; also in bottom trawls

Habitat : Deeper coastal waters in reef areas, sometimes entering estuaries



BONY FISHES

LEIOGNATHIDAE

Gazza minuta (Bloch, 1797)

Synonyms : None

Loc. names : Kotwe (D); Tanda (M)
Palawe (D)(T); Kagaa; Kifuu

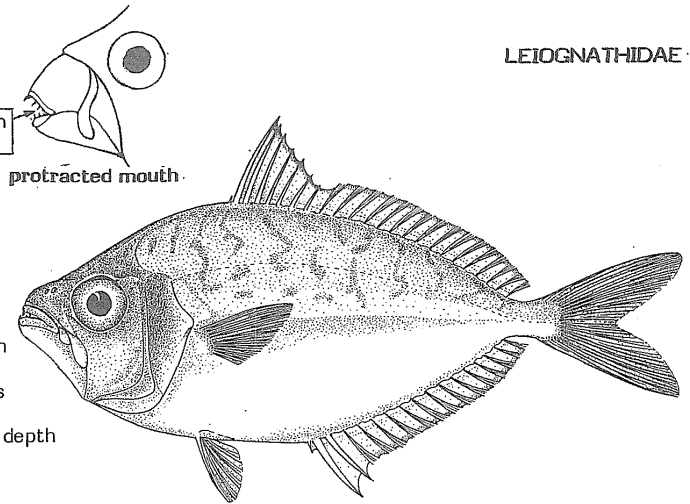
FAO names : En - Toothpony
Fr - Sapsap dentu
Sp - Motambo dentudo

Size : Max.: 14 cm; common to 10 cm

Fishing gear : Shore seines and bottom trawls

Habitat : Coastal waters, to about 40 m depth

PLATE IX , 51



Leiognathus elongatus (Günther, 1874)

Synonyms : None

Loc. names : Kotwe (D); Tanda (M);
Kifuu; Palawe (D)(T);
Dagaa

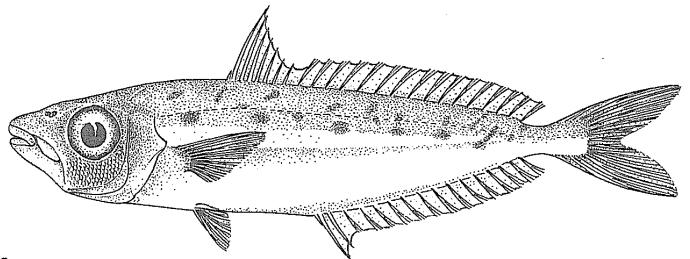
FAO names : En - Slender ponyfish
Fr - Sapsap élégant
Sp - Motambo elegante

Size : Max.: 12 cm; common to 8 cm

Fishing gear : Beach seines and bottom trawls

Habitat : Shallow waters to 40 m depth; usually
found in schools near the bottom

PLATE IX , 53



Leiognathus leuciscus (Günther, 1860)

Synonyms : ? Equulites novaehollandiae Munro, 1967

Loc. names : Kotwe (D); Tanda (M); Palawe (D)(T)
Kifuu, Bati, Dagaa

FAO names : En - Whipfin ponyfish
Fr - Sapsap fil
Sp - Motambo de hebra

Size : Max.: 24 cm; common to 18 cm

Fishing gear : Bottom trawls

Habitat : Shallow waters to about 40 m depth

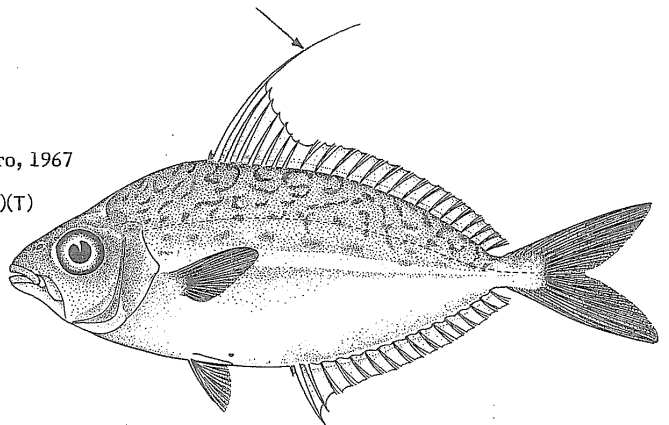
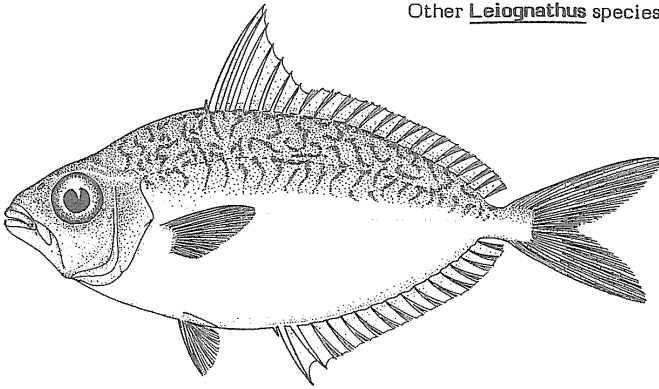


PLATE X , 56

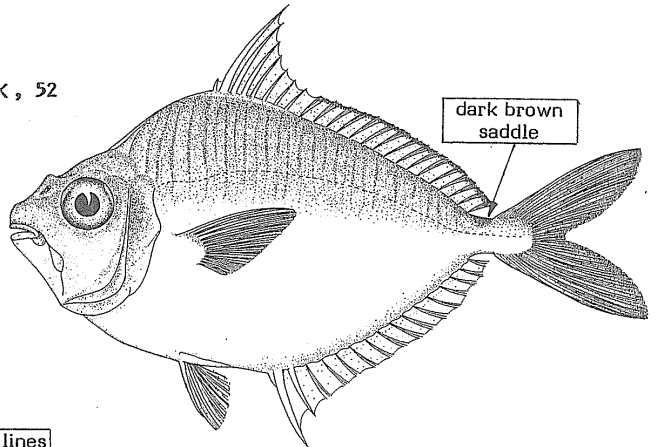
BONY FISHES

Other Leiognathus species

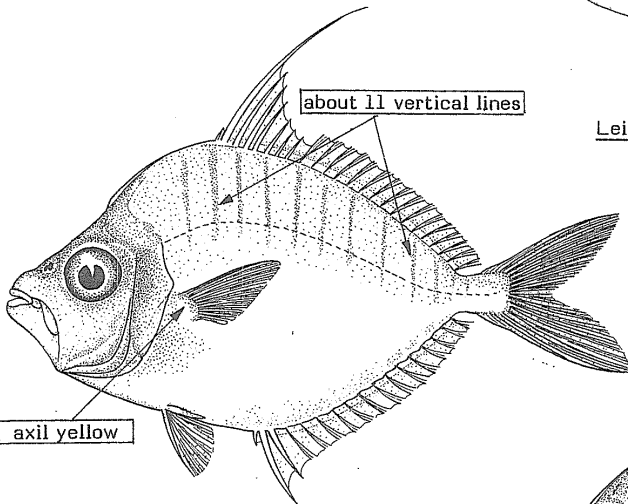
LEIOGNATHIDAE



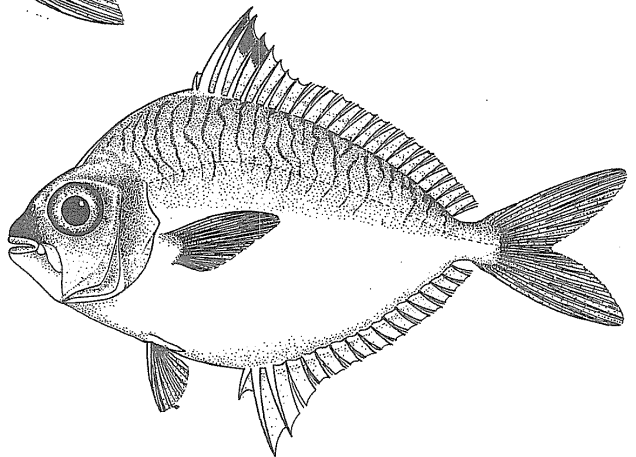
Leiognathus berbis (Valenciennes, 1835)
Berber ponyfish
size: to 11 cm
PLATE IX, 52



Leiognathus equulus (Forsskal, 1775)
Common ponyfish
size: to 24 cm
PLATE IX, 54



Leiognathus fasciatus (Lacepède, 1803)
Striped ponyfish
size: to 21 cm
PLATE X, 55



Leiognathus splendidus (Cuvier, 1829)
Splendid ponyfish
size: to 14 cm
PLATE X, 57

BONY FISHES

Secutor insidiator (Bloch, 1787)

LEIOGNATHIDAE

Synonyms : Leiognathus insidiator Weber & de Beaufort, 1931

Loc. names : Kotwe (D); Tanda (M); Palawe (D)
Kokoko, Kifuu, Dagaa

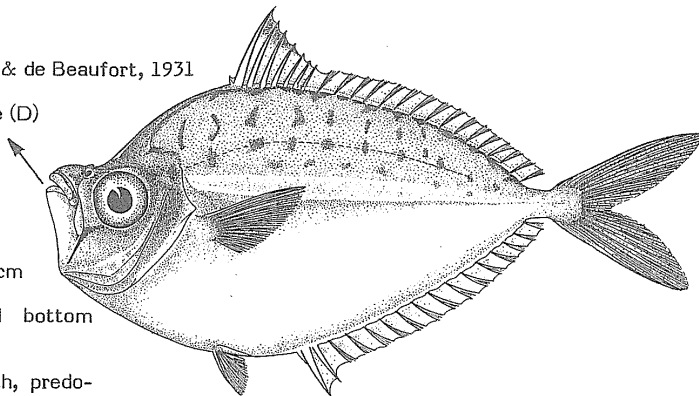
FAO names : En - Pugnose ponyfish
Fr - Sapsap boxeur
Sp - Motambo boxeador

Size : Max.: 10.5 cm; common to 8 cm

Fishing gear : Shore seines, gillnets and bottom trawls

Habitat : Shallow water to 40 m depth, predominantly close to the bottom

PLATE X, 58



Gerres acinaces Bleeker, 1854

GERREIDAE

Synonyms : None

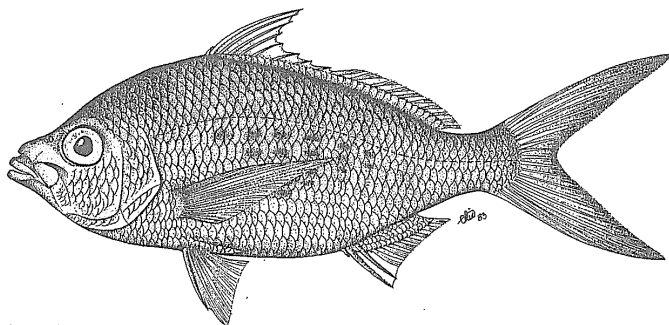
Loc. names : Chaa

FAO names : En - Longtail silver-biddy
Fr - Blanche gouvernail
Sp - Mojarra timonera

Size : Max.: 35 cm; common to 15 cm

Fishing gear : Mainly bottom trawls

Habitat : Clear shallow waters, from coral reefs to brackish lagoons



body depth 2.5 to 2.9 times
in standard length

Gerres filamentosus Cuvier, 1829

Synonyms : Gerres punctatus Cuvier, 1830
Pertica filamentosa Munro, 1955
? Gerres macracanthus Bleeker, 1854

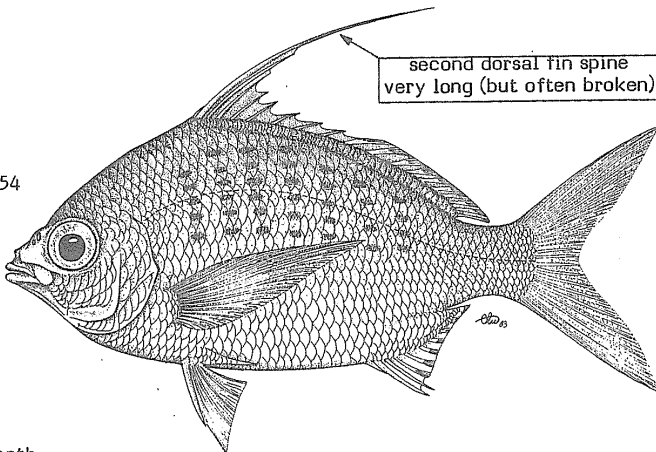
Loc. names : Chaa

FAO names : En - Whipfin silver-biddy
Fr - Blanche fil
Sp - Mojarra de hebra

Size : Max.: 25 cm; common to 15 cm

Fishing gear : Beach seines and bottom trawls

Habitat : Shallow coastal waters to 50 m depth



second dorsal fin spine
very long (but often broken)

BONY FISHES

GERREIDAE

Gerres oblongus Cuvier, 1830

Synonyms : None

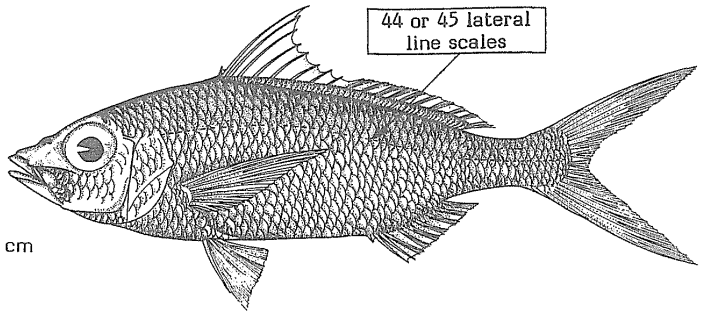
Loc. names : Chaa

FAO names : En - Slender silver-biddy
Fr - Blanche élégante
Sp - Mojarra elegante

Size : Max.: 30 cm; common to 15 cm

Fishing gear : Beach seines

Habitat : Coral-line areas



body slender

Gerres oyena (Forsskal, 1775)

Synonyms : None

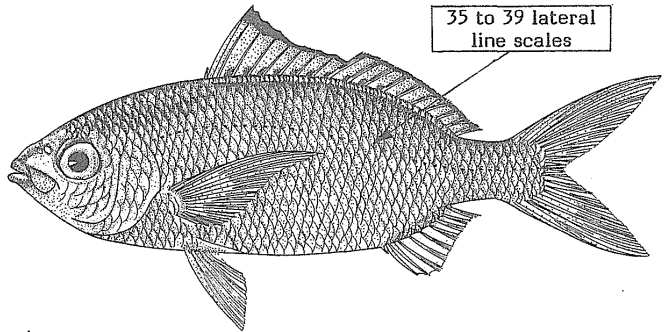
Loc. names : Chaa

FAO names : En - Common silver-biddy
Fr - Blanche commune
Sp - Mojarra común

Size : Max.: 25 cm; common to 15 cm

Fishing gear : Beach seines and bottom trawls

Habitat : Sandy beaches but also entering estuaries and lagoons



body depth 3 to 3.5 times
in standard length

Aphareus furcatus (Lacepède, 1802)

LUTJANIDAE

Synonyms : None

Loc. names : Sare-sare

FAO names : En - Smalltoothed jobfish
Fr - Vivaneau tidents
Sp - Pargo boquidulce

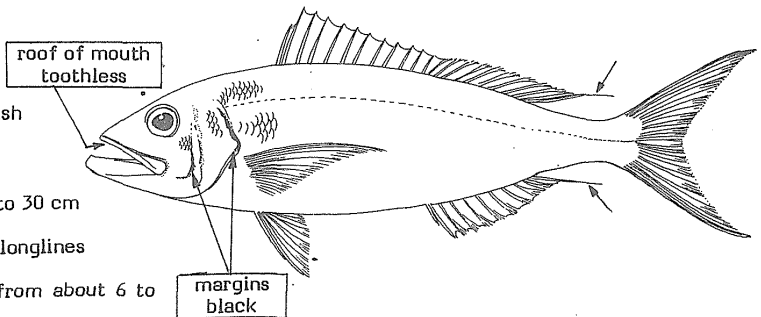
Size : Max.: 40 cm; common to 30 cm

Fishing gear : Handlines and vertical longlines

Habitat : Coral and rock reefs from about 6 to 70 m depth

PLATE X, 59

Remarks : A similar species, Aphareus rutilans Cuvier, 1830, also occurs in this area **PLATE X, 60**



BONY FISHES

LUTJANIDAE

Aprion virescens Valenciennes, 1830

Synonyms : None

Loc. names : Kifimbo (D); Fimbo (M)
Changu-fimbo (T)

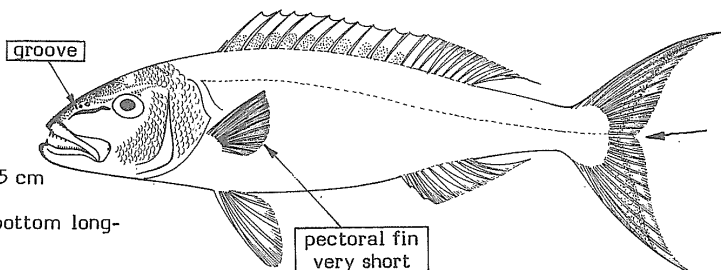
FAO names : En - Green jobfish
Fr - Vivaneau job
Sp - Pargo verde

Size : Max.: 80 cm; common to 65 cm

Fishing gear : Trolled lures, handlines, bottom long-lines and bottom trawls

Habitat : Coastal waters from the surface to 100 m depth

PLATE XI, 61



Apsilus fuscus Valenciennes, 1830

Synonyms : None

Loc. names :

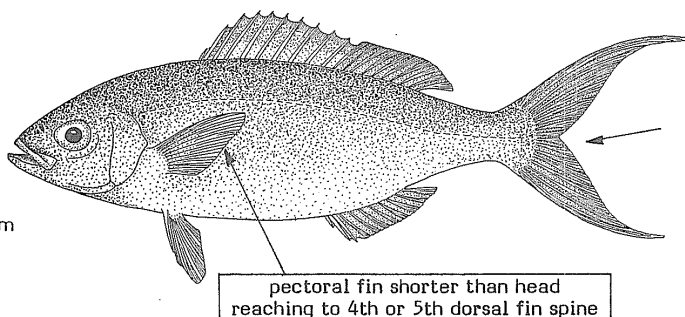
FAO names : En - Forktail snapper
Fr - Vivaneau fourche
Sp - Pargo tijera

Size : Max.: 75 cm; common to 60 cm

Fishing gear : Handlines

Habitat : From 30 to 100 m depth

Remarks : Occurrence in Tanzania needs to be confirmed PLATE XI, 62



Etelis carbunculus (Cuvier, 1828)

Synonyms : Etelis marshi (Jenkins, 1908)

Loc. names :

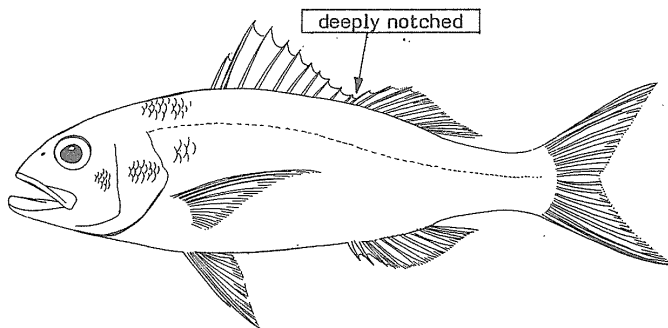
FAO names : En - Ruby snapper
Fr - Vivaneau rubis
Sp - Pargo rubí

Size : Max.: 70 cm; common to 50 cm

Fishing gear : Handlines and vertical longlines

Habitat : From 50 to 200 m depth

Remarks : Found under Etelis marshi in the species identification sheets W.I. Ocean. PLATE XI, 63
A similar species, Etelis coruscans Valenciennes, 1862, also occurs in this area PLATE XI, 64



BONY FISHES

Lutjanus argentimaculatus (Forsskal, 1775)

Synonyms : None

Loc. names : Kula-kula (D)
Chazanda/Unga (T)

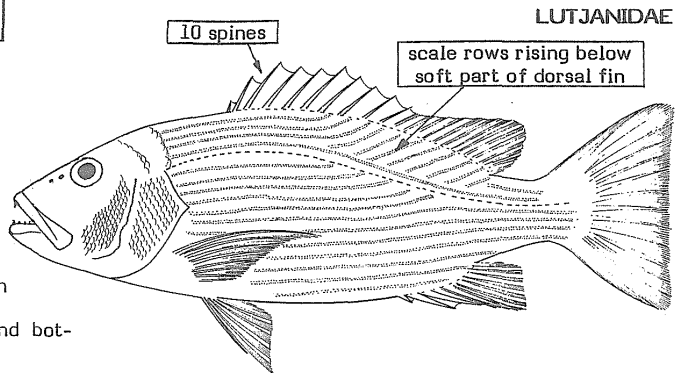
FAO names : En - Mangrove red snapper
Fr - Vivaneau des mangroves
Sp - Pargo de manglar

Size : Max.: 120 cm; common to 80 cm

Fishing gear : Handlines, bottom longlines and bottom trawls

Habitat : Juveniles in mangroves and shallow waters, adults sometimes found to 80 m depth

PLATE XI, 65



LUTJANIDAE

Lutjanus bengalensis (Bloch, 1790)

Synonyms : None

Loc. names : Janja

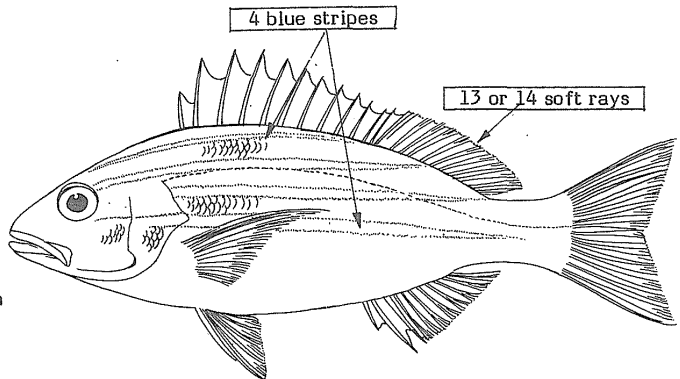
FAO names : En - Bengal snapper
Fr - Vivaneau bengalais
Sp - Pargo de Bengala

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Shallow coral reefs, sometimes occurring in large aggregations

PLATE XI, 66



Lutjanus bohar (Forsskal, 1775)

Synonyms : Lutjanus coatesi Whitley, 1934
Lutjanus civis (Valenciennes, 1840)

Loc. names : Kungu

FAO names : En - Two-spot red snapper
Fr - Vivaneau chien rouge
Sp - Pargo de dos manchas

Size : Max.: 75 cm; common to 50 cm

Fishing gear : Handlines and bottom longlines

Habitat : Reef areas but occasionally occurring at depths of 70 m

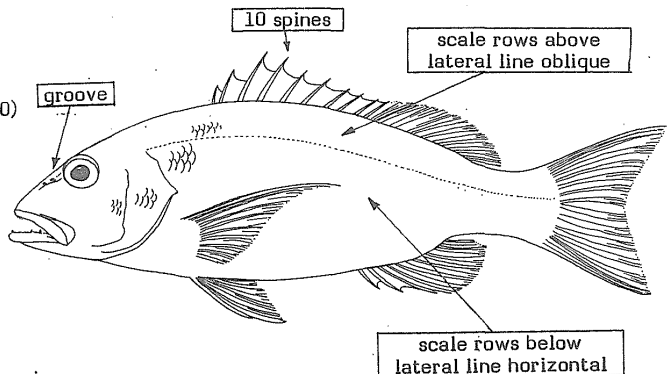


PLATE XII, 67

BONY FISHES

LUTJANIDAE

Lutjanus ehrenbergi (Peters, 1869)

Synonyms : None

Loc. names : Janja

FAO names : En - Ehrenberg's snapper
Fr - Vivaneau carpe
Sp - Pargo carpón

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Coral reefs and shallow estuaries

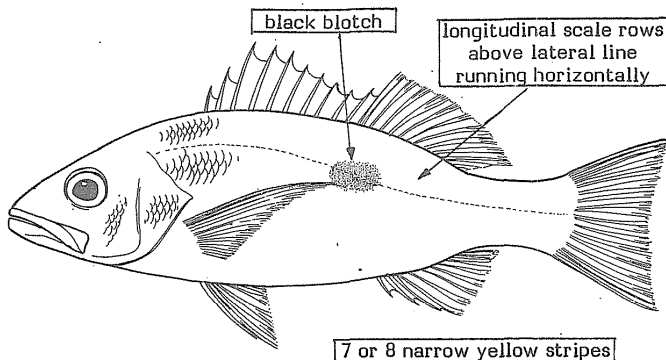


PLATE XII, 68

Lutjanus erythropterus Bloch, 1790

Synonyms : Lutjanus altifrontalis
Lutjanus malabaricus (non Bloch & Schneider)

Loc. names : Changu

FAO names : En - Crimson snapper
Fr - Vivaneau cramoisi
Sp - Pargo carmesí

Size : Max.: 60 cm; common to 45 cm

Fishing gear : Handlines and bottom trawls

Habitat : Shallow coastal waters, to 60 m depth

Remarks : Occurrence in Tanzania needs to be confirmed

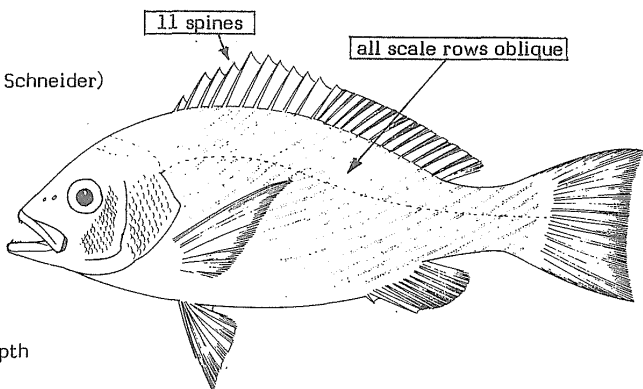


PLATE XII, 69

Lutjanus fulviflamma (Forsskål, 1775)

Synonyms : Lutjanus fulviflammus (Forsskål, 1775)

Loc. names : Tembo (T)(D)
Janja (D); Kelea (M)

FAO names : En - Blackspot snapper
Fr - Vivaneau gibelot
Sp - Pargo tintero

Size : Max.: 35 cm; common to 25 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Shallow waters, mangroves and coral reefs

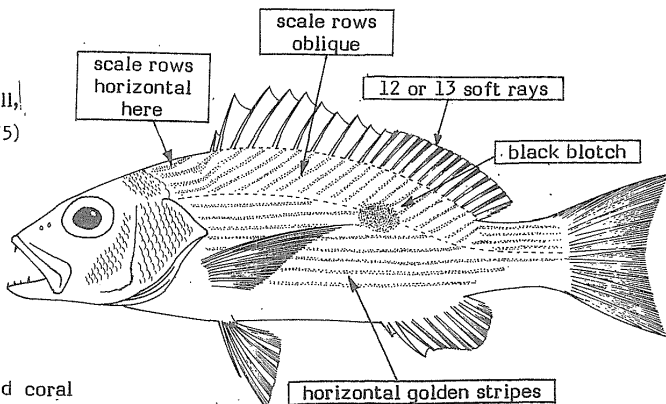


PLATE XII, 70

BONY FISHES

LUTJANIDAE

Lutjanus fulvus (Schneider, 1801)

Synonyms : None

Loc. names : Changu

FAO names : En - Blacktail snapper
Fr - Vivaneau queue noire
Sp - Pargo rabo negro

Size : Max.: 50 cm; common to 35 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Coral and rubble reefs, to 80 m depth

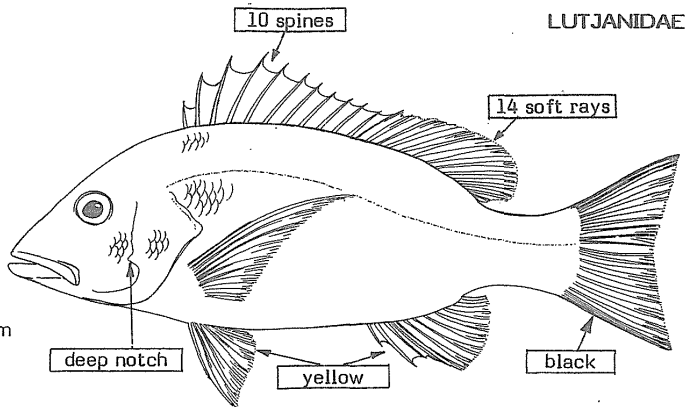


PLATE XII, 71

Lutjanus gibbus (Forsskal, 1775)

Synonyms : None

Loc. names : Haraki (T)

FAO names : En - Humpback red snapper
Fr - Vivaneau pagaie
Sp - Pargo jorobado

Size : Max.: 50 cm; common to 40 cm

Fishing gear : Handlines and traps

Habitat : Shallow coastal waters to 60 m depth;
juveniles in mangrove areas

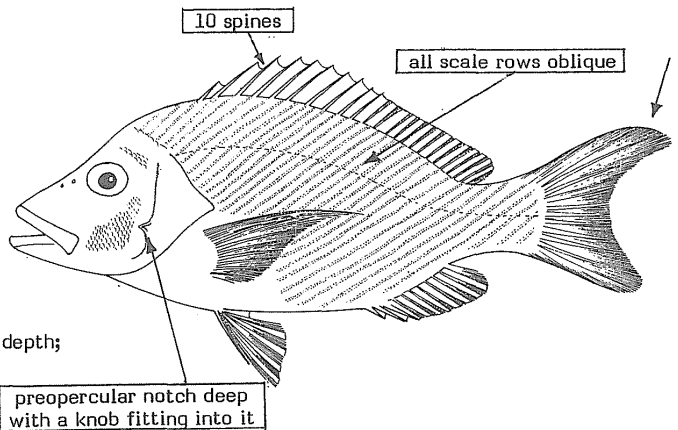


PLATE XII, 72

Lutjanus kasmira (Forsskal, 1775)

Synonyms : Lutjanus vaiensis
Lutjanus marginatus

Loc. names : Tembo-uzi
Janja (D); Kelea (M)

FAO names : En - Common bluestripe snapper
Fr - Vivaneau à raies bleues
Sp - Pargo de rayas azules

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Shallow coral reefs, sometimes in
large aggregations

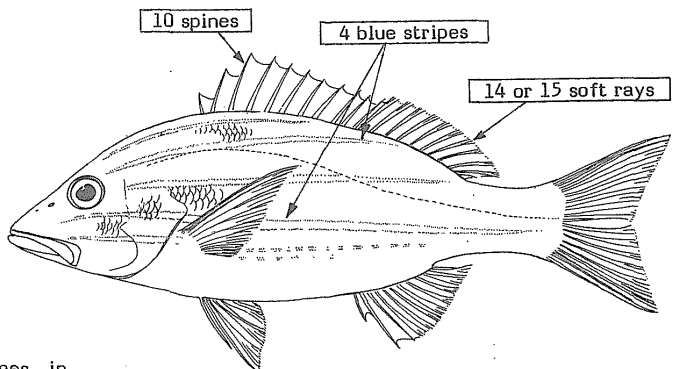


PLATE XIII, 74

BONY FISHES

LUTJANIDAE

Lutjanus lunulatus (Park, 1797)

Synonyms : None

Loc. names : Janja

FAO names : En - Lunartail snapper
Fr - Vivaneau queue lune
Sp - Pargo raboluna

Size : Max.: 25 cm; common to 18 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Coral reefs to about 50 m depth

Remarks : Occurrence in Tanzania needs to be confirmed

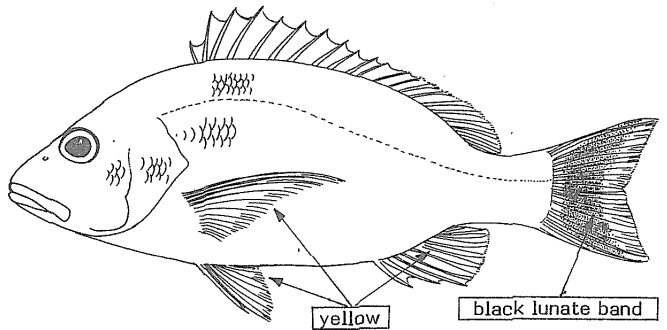


PLATE XIII, 75

Lutjanus lutjanus Bloch, 1790

Synonyms : Lutjanus lineolatus (Rüppell, 1828)

Loc. names : Tembouzi (D)(T)
Sorora (M); Janja

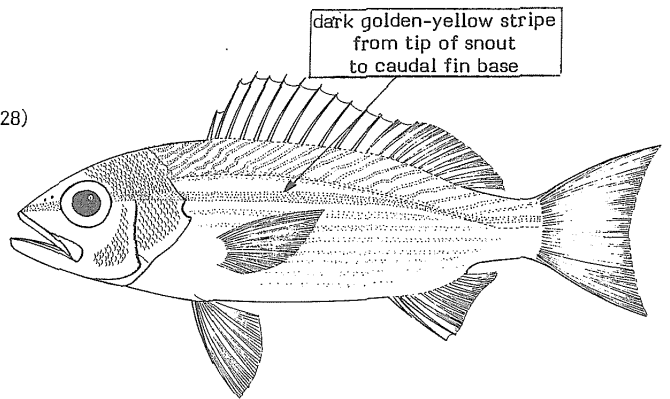
FAO names : En - Bigeye snapper
Fr - Vivaneau gros yeux
Sp - Pargo de Madras

Size : Max.: 25 cm; common to 18 cm

Fishing gear : Handlines and bottom trawls

Habitat : From shallow coral reef areas to 80 m depth

PLATE XIII, 76



Lutjanus malabaricus (Bloch & Schneider, 1801)

Synonyms : None

Loc. names : Kungu

FAO names : En - Malabar blood snapper
Fr - Vivaneau malabar
Sp - Pargo malabárico

Size : Max.: 90 cm; common to 50 cm

Fishing gear : Handlines, bottom longlines and bottom trawls

Habitat : Coastal waters to 100 m depth

Remarks : Occurrence in Tanzania needs to be confirmed

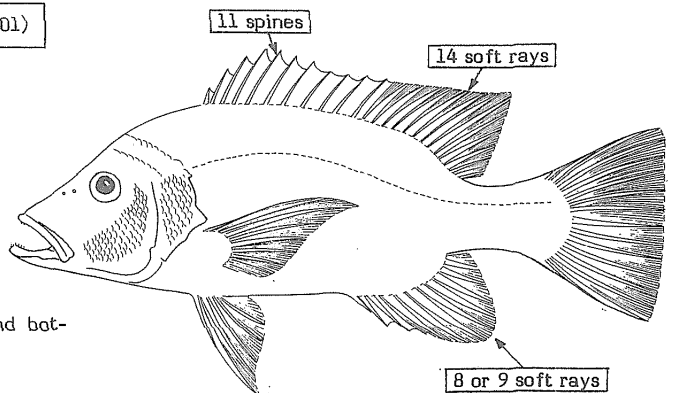


PLATE XIII, 77

BONY FISHES

LUTJANIDAE

Lutjanus monostigma (Cuvier, 1828)

Synonyms : None

Loc. names : Changu-kibaba (D)

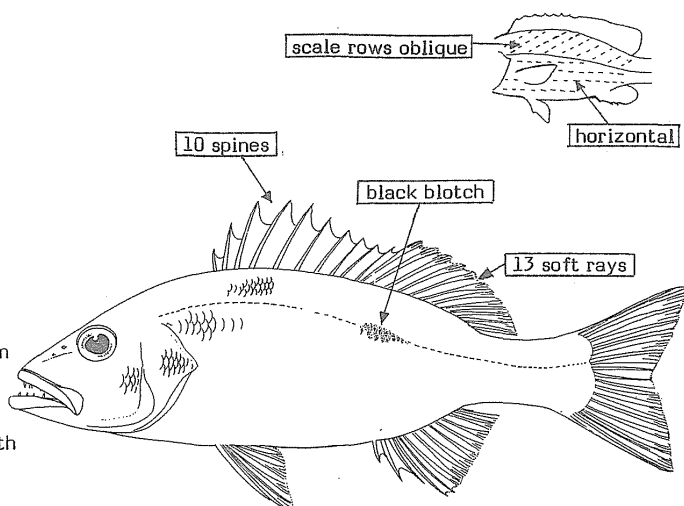
FAO names : En - One-spot snapper
Fr - Vivaneau églefin
Sp - Pargo eglefino

Size : Max.: 60 cm; common to 50 cm

Fishing gear : Handlines, traps and gillnets

Habitat : Coral reefs to about 40 m depth

PLATE XIII, 78



Lutjanus rivulatus (Cuvier, 1828)

Synonyms : None

Loc. names : Janja; Chali (M)

FAO names : En - Blubberlip snapper
Fr - Vivaneau maori
Sp - Pargo maorí

Size : Max.: 65 cm; common to 30 cm

Fishing gear : Handlines, traps and gillnets, sometimes in trawls

Habitat : Coral and rock reefs between 3 and 150 m depth

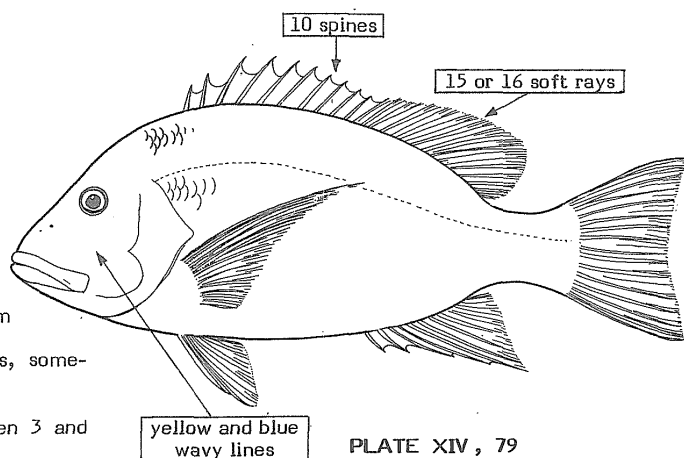


PLATE XIV, 79

Lutjanus russelli (Bleeker, 1849)

Synonyms : None

Loc. names : Janja

FAO names : En - Russell's snapper
Fr - Vivaneau hublot
Sp - Pargo ojo de buey

Size : Max.: 40 cm; common to 28 cm

Fishing gear : Handlines and traps

Habitat : Shallow waters, in rocky and coral reef areas; juveniles found in mangroves

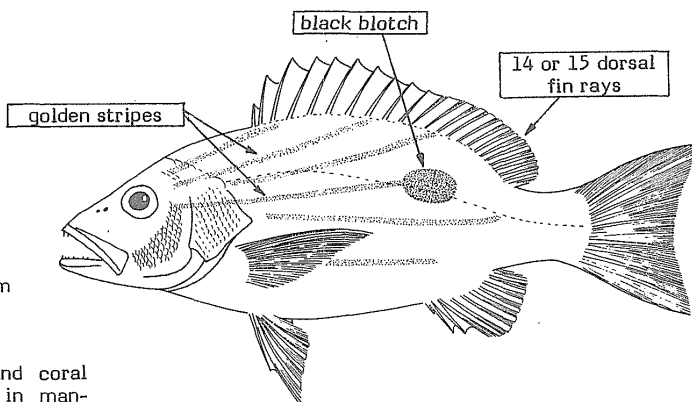


PLATE XIV, 80

Remarks : A similar species, Lutjanus johnii (Bloch, 1792), also occurs in this area PLATE XIII, 73

BONY FISHES

Lutjanus sanguineus (Cuvier, 1828)

LUTJANIDAE

Synonyms : Lutjanus coccineus (Cuvier, 1828)

Loc. names : Fuatundu (D)

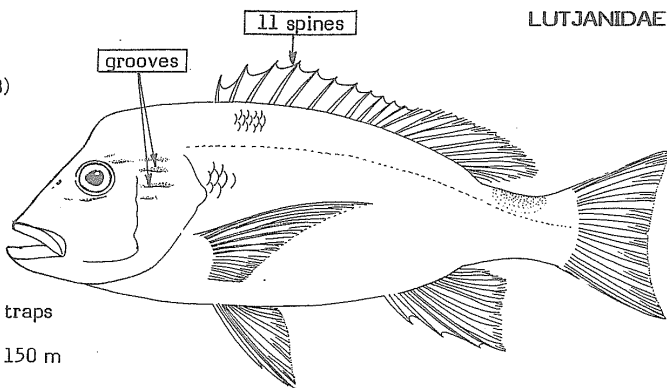
FAO names : En - Humphead snapper
Fr - Vivaneau tête
Sp - Pargo cabezón

Size : Max.: 60 cm; common to 50 cm

Fishing gear : Handlines, vertical longlines and traps

Habitat : Offshore reefs, between 30 and 150 m depth

Remarks : Found under Lutjanus coccineus in the species identification sheets W.I. Ocean **PLATE XIV, 81**



Lutjanus sebae (Cuvier, 1828)

Synonyms : None

Loc. names : Dumbwara
Fuatundu (M)
Numba

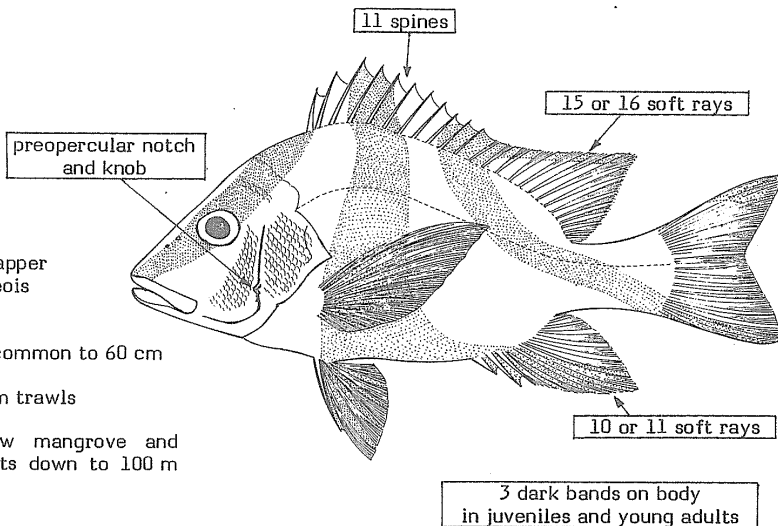
FAO names : En - Emperor red snapper
Fr - Vivaneau bourgeois
Sp - Pargo imperial

Size : Max.: over 100 cm; common to 60 cm

Fishing gear : Handlines and bottom trawls

Habitat : Juveniles in shallow mangrove and seagrass areas; adults down to 100 m depth

PLATE XIV, 82



Lutjanus vitta (Quoy & Gaimard, 1824)

Synonyms : Lutjanus vittus (Quoy & Gaimard, 1824)

Loc. names : Janja

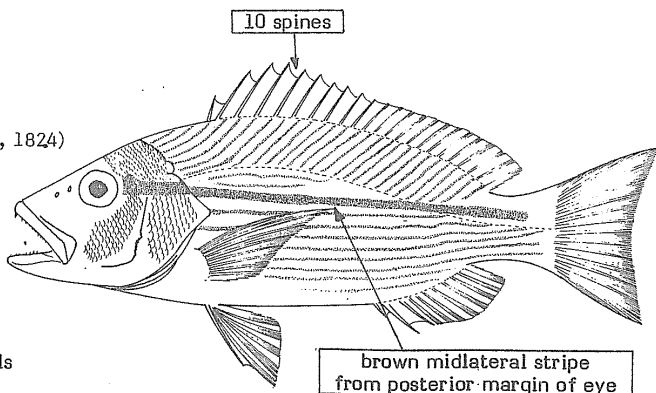
FAO names : En - Brownstripe snapper
Fr - Vivaneau à bande brune
Sp - Pargo bitilla

Size : Max.: 40 cm; common to 22 cm

Fishing gear : Handlines, traps and bottom trawls

Habitat : Shallow waters in rocky and coral reef areas

Remarks : Occurrence in Tanzania needs to be confirmed **PLATE XIV, 83**



BONY FISHES

LUTJANIDAE

Macolor niger (Forsskal, 1775)

Synonyms : Macolor macolor (Lesson, 1827)

Loc. names :

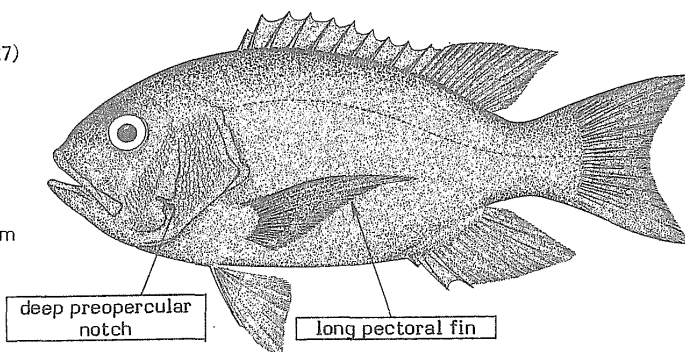
FAO names : En - Black-and-white snapper
Fr - Vivaneau plate
Sp - Pargo blanco y negro

Size : Max.: 60 cm; common to 35 cm

Fishing gear : Handlines, gillnets and traps

Habitat : Shallow coral reef areas

PLATE XIV, 84



colour: black

Paracaesio xanthurus Bleeker, 1869

Synonyms : None

Loc. names :

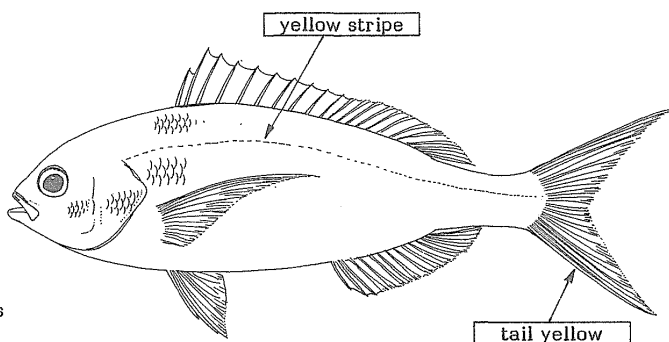
FAO names : En - Yellowtail blue snapper
Fr - Vivanette queue jaune
Sp - Panchote rabo amarillo

Size : Max.: 45 cm; common to 30 cm

Fishing gear : Handlines and vertical longlines

Habitat : From 25 to 200 m depth

PLATE XV, 85



Pinjalo pinjalo (Bleeker, 1850)

Synonyms : None

Loc. names :

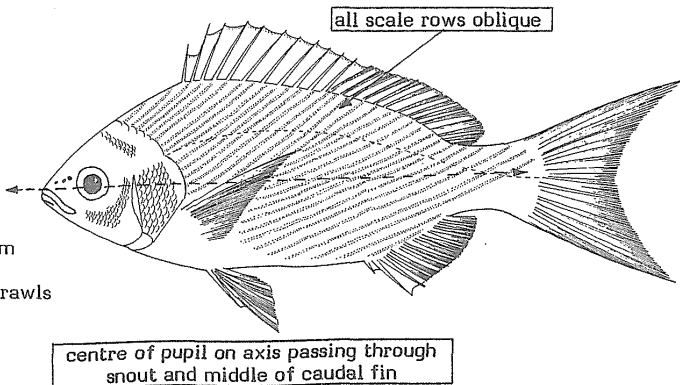
FAO names : En - Pinjalo snapper
Fr - Vivanette rose
Sp - Pargo rosado

Size : Max.: 80 cm; common to 60 cm

Fishing gear : Handlines, traps and bottom trawls

Habitat : Coastal waters to 60 m depth

PLATE XV, 86



BONY FISHES

Pristipomoides filamentosus (Valenciennes, 1830)

Synonyms : Pristipomoides argyrogrammicus (misidentification)

Loc. names :

FAO names : En - Bluespotted jobfish
Fr - Colas fil
Sp - Panchito hebra

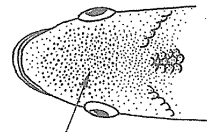
Size : Max.: 80 cm; common to 60 cm

Fishing gear : Bottom longlines and bottom trawls

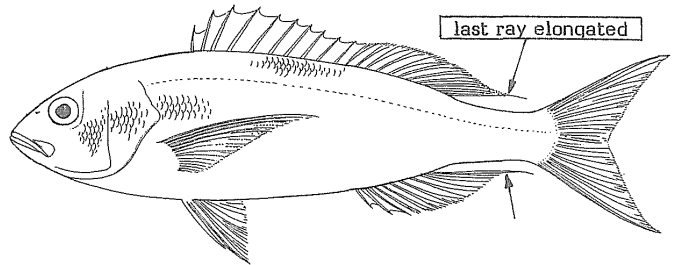
Habitat : Deep waters, over rocky bottoms, between 80 and 360 m depth

PLATE XV, 87

LUTJANIDAE



small blue spots on top of head



last ray elongated

60 to 74 lateral line scales

Pristipomoides typus Bleeker, 1852

Synonyms : Pristipomoides microlepis (Bleeker, 1869)
Pristipomoides microdon (Steindachner, 1876)

Loc. names :

FAO names : En - Sharptooth jobfish
Fr - Colas dentu
Sp - Panchito dentón

Size : Max.: 70 cm; common to 50 cm

Fishing gear : Handlines, bottom longlines, traps and bottom trawls

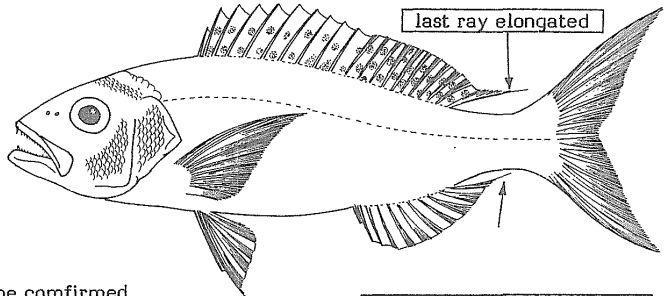
Habitat : Coastal waters, from 40 to 80 m depth

Remarks : Occurrence in Tanzania needs to be confirmed

PLATE XV, 88



brownish vermiculations on top of head



last ray elongated

49 or 50 lateral line scales

Pristipomoides zonatus (Valenciennes, 1830)

Synonyms : Rooseveltia brighami (Seale, 1901); probably
Pristipomoides argyrogrammicus (Valenciennes, 1831)
Tropidinius zonatus (Valenciennes, 1830)

Loc. names :

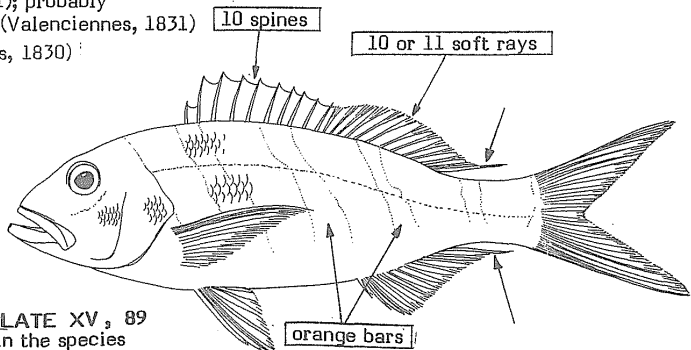
FAO names : En - Oblique-banded snapper
Fr - Colas bagnard
Sp - Panchito rayado

Size : Max.: 50 cm; common to 40 cm

Fishing gear : Deep handlines

Habitat : Between 70 and 200 m depth

Remarks : Found under Tropidinius zonatus in the species identification sheets W.I. Ocean



10 spines

10 or 11 soft rays

orange bars

PLATE XV, 89

BONY FISHES

Caesio caerulaureus Lacepède, 1802

CAESIONIDAE

Synonyms : None

Loc. names : Mbono (D)(T)(M)
Kibua (M)

FAO names : En - Blue and gold fusilier
Fr - Caesio azuror
Sp - Fusilero azur

Size : Max.: 25 cm; common to 20 cm

Fishing gear : Seines and gillnets

Habitat : Coastal waters, coral reef and rocky areas

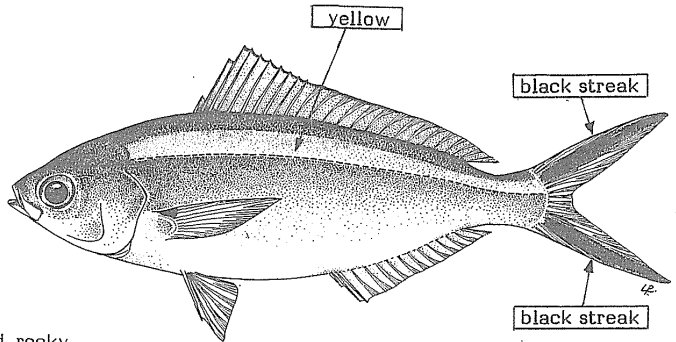


PLATE XV, 90

Caesio xanthonotus Bleeker, 1853

Synonyms : None

Loc. names : Mbono (D)(T)(M)
Kibua (M)

FAO names : En - Yellowfin fusilier
Fr - Fusilier aile jaune
Sp - Fusilero aleta amarilla

Size : Max.: 30 cm; common to 18 cm

Fishing gear : Gillnets, seines and sometimes caught in trawls

Habitat : Coastal waters, coral and rocky reefs

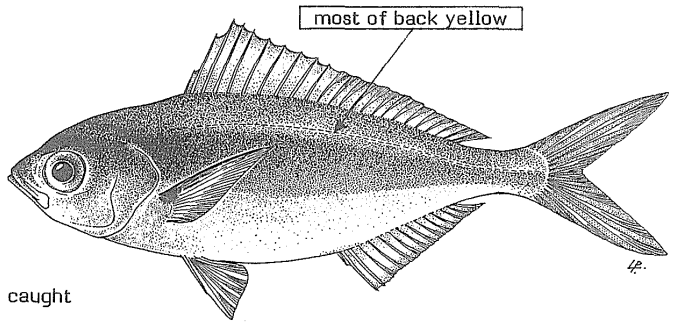
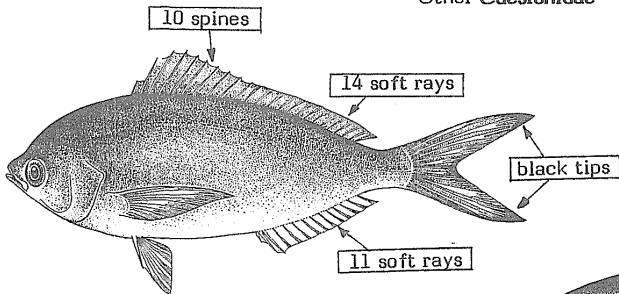
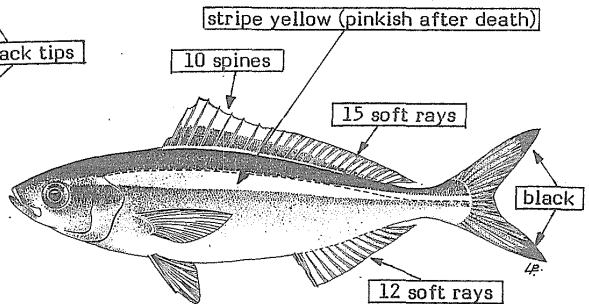


PLATE XVI, 91

Other Caesionidae



Caesio lunaris Cuvier & Valenciennes, 1830
Blue fusilier PLATE XVI, 92
size: to 35 cm

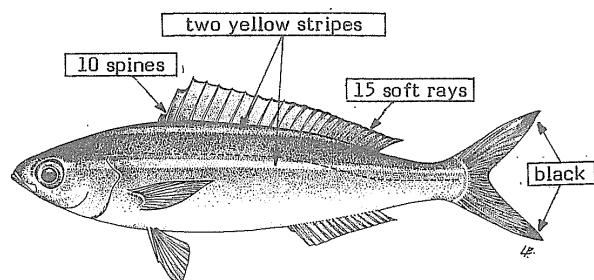


Pterocaesio chrysozona (Cuvier & Valenciennes, 1830)
Goldband fusilier PLATE XVI, 93
size: to 20 cm

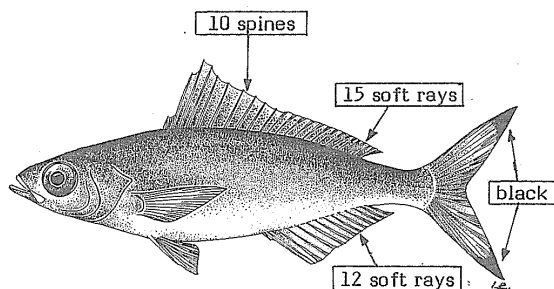
BONY FISHES

Other Caesionidae

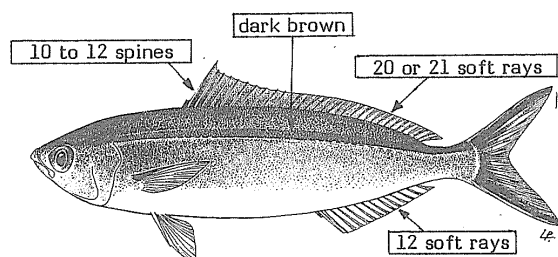
CAESIONIDAE



Pterocaesio diagramma (Bleeker, 1865)
Double-lined fusilier
size: to 25 cm **PLATE XVI, 94**



Pterocaesio pisang (Bleeker, 1853)
Slender fusilier **PLATE XVI, 95**
size: to 18 cm



Pterocaesio tile (Cuvier & Valenciennes, 1830)
Dark-banded fusilier **PLATE XVI, 96**
size: to 25 cm

Nemipterus bleekeri (Day, 1875)

NEMIPTERIDAE

Synonyms : Nemipterus delagoae Smith, 1941

Loc. names : Koana

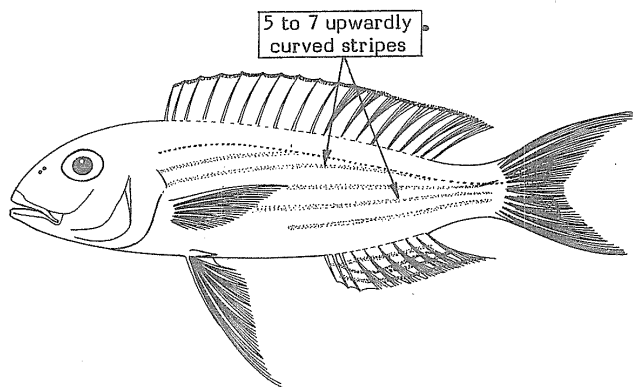
FAO names : En - Delagoa threadfin bream
Fr - Cohana delagoa
Sp - Baga delagoa

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Bottom trawls and lines

Habitat : Continental shelf to 100 m depth

PLATE XVII, 97



BONY FISHES

Nemipterus japonicus (Bloch, 1791)

NEMIPTERIDAE

Synonyms : None

Loc. names : Koana

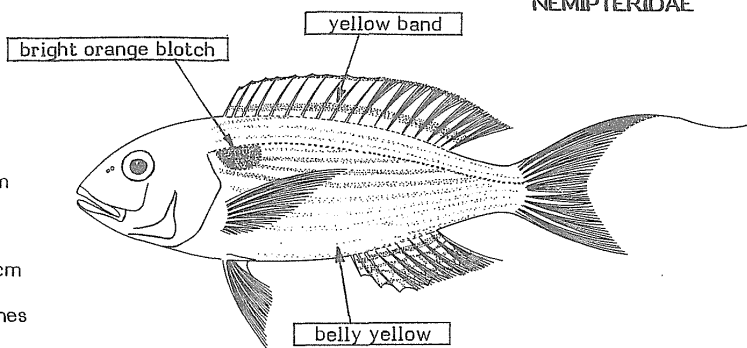
FAO names : En - Japanese threadfin bream
Fr - Cohana japonaise
Sp - Baga japonesa

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Bottom trawls, gillnets and lines

Habitat : Coastal waters to about 60 m depth

PLATE XVII, 98



Nemipterus metopias (Bleeker, 1852)

Synonyms : None

Loc. names : Koana

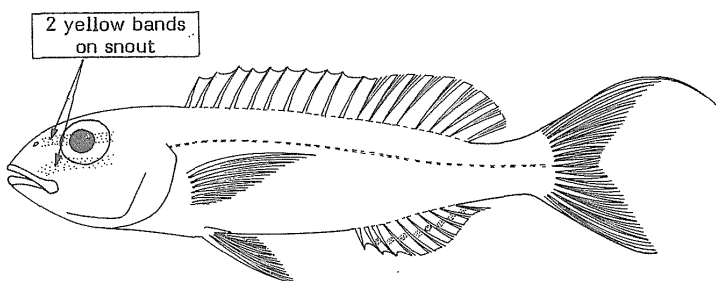
FAO names : En - Slender threadfin bream
Fr - Cohana élégante
Sp - Baga elegante

Size : Max.: 25 cm; common to 20 cm

Fishing gear : Bottom trawls and bottom lines

Habitat : Coastal waters, from 30 to 100 m depth

PLATE XVII, 99



body slender

Parascolopsis eriomma Jordan & Richardson, 1909

Synonyms : None

Loc. names :

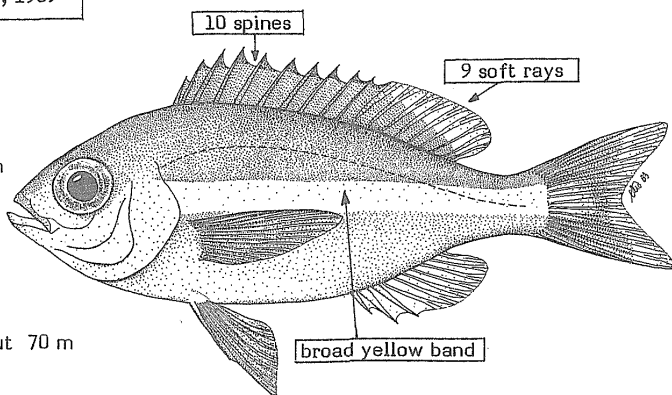
FAO names : En - Rosy dwarf monocle bream
Fr - Mamila rosée
Sp - Besugato rosado

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Bottom trawls and line gear

Habitat : From inshore waters to about 70 m depth

PLATE XVII, 100



BONY FISHES

NEMIPTERIDAE

Scolopsis vosmeri (Bloch, 1792)

Synonyms : Scolopsis kurite Rüppell, 1828
Scolopsis torquatus (Cuvier, 1830)

Loc. names : Gege-muamba (D)
 Changu-chole (M)

FAO names : En - Whitecheek monocle bream
 Fr - Mamilia joues blanches
 Sp - Besugato cariblanco

Size : Max.: 25 cm; common to 20 cm

Fishing gear : Bottom trawls, lines and traps

Habitat : Inshore waters but mostly around islands and reefs

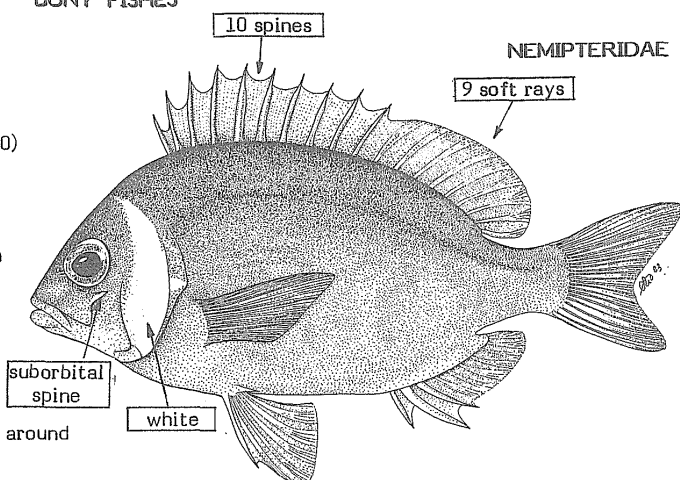


PLATE XVII, 101

Scolopsis bimaculatus Rüppell, 1828

Synonyms : None

Loc. names : Sururu (T)
 Changu-chole (M)

FAO names : En - Thumbprint monocle bream
 Fr - Mamilia Saint Pierre
 Sp - Besugato de San Pedro

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Bottom trawls, handlines, traps and gillnets

Habitat : Inshore waters, mostly around coral reefs; usually over sand

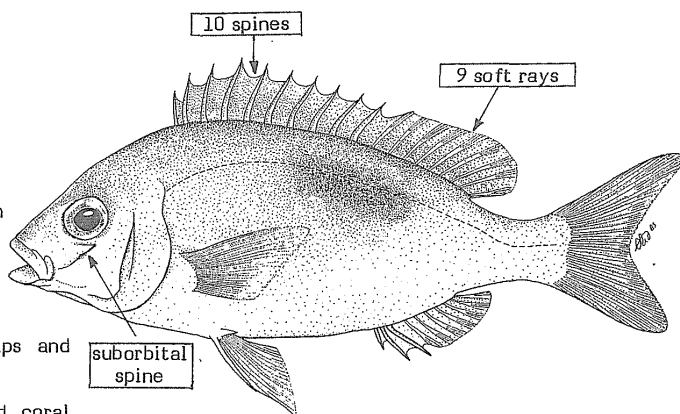


PLATE XVII, 102

Scolopsis ghanam (Forsskål, 1775)

Synonyms : None

Loc. names :

FAO names : En - Arabian monocle bream
 Fr - Mamilia arabe
 Sp - Besugato de Arabia

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Bottom trawls, handlines, traps and gillnets

Habitat : Inshore waters, mostly around coral reefs

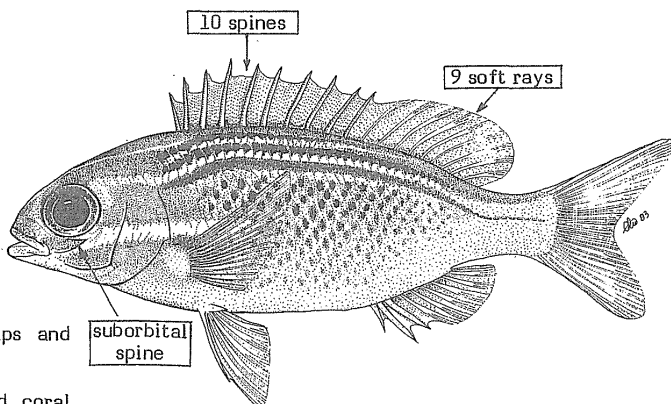


PLATE XVIII, 103

BONY FISHES

Lobotes surinamensis (Bloch, 1790)

LOBOTIDAE

Synonyms : None

Loc. names : Kanda (T)

FAO names : En - Tripletail
Fr - Croupia rousse
Sp - Dormilona

Size : Max.: 100 cm; common to 50 cm

Fishing gear : Beach seines, gillnets, traps and hook-and-line

Habitat : Coastal waters and muddy estuaries; juveniles float on their sides looking like dead mangrove leaves

PLATE XVIII, 104

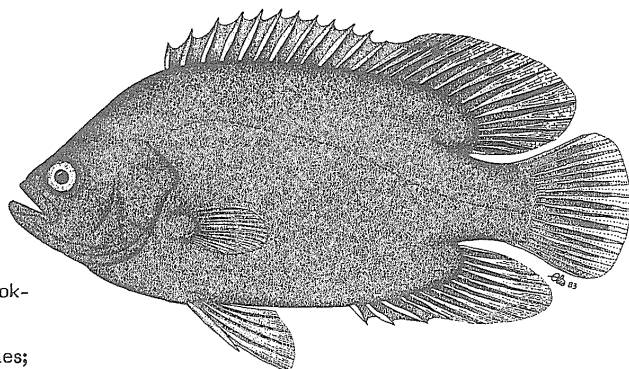


Diagramma pictum (Thunberg, 1792)

HAEMULIDAE

Synonyms : Spilotichthys pictus Munro, 1955
Plectorhynchus pictus (Thunberg, 1792)

Loc. names : Komba, Mchone (D);
Pweza (T)

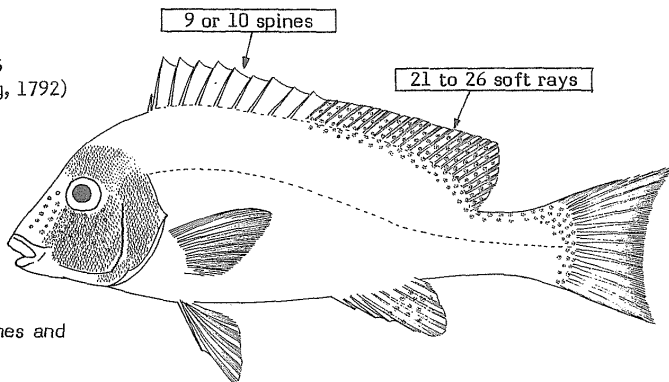
FAO names : En - Painted sweetlips
Fr - Diagramme voilier
Sp - Burro velero

Size : Max.: 60 cm; common to 45 cm

Fishing gear : Handlines, traps, bottom longlines and trawls

Habitat : Shallow coastal areas and coral reefs, to 80 m depth

PLATE XVIII, 105



juveniles with longitudinal black bands,
adults with spots disappearing in large individuals

Plectorhynchus chubbii (Regan, 1919)

Synonyms : Gaterin chubbii (Regan, 1919)

Loc. names : Komba (D)

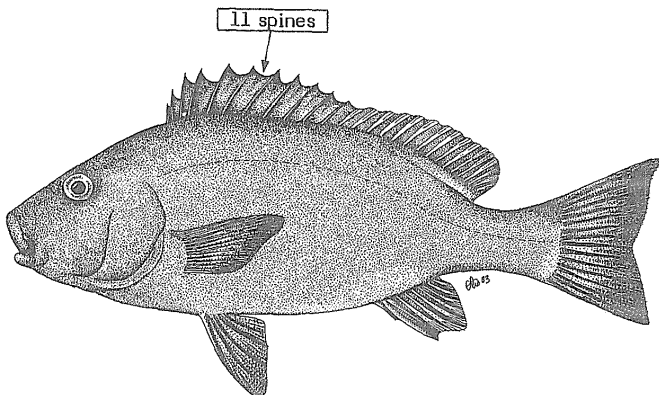
FAO names : En - Lemon sweetlips
Fr - Diagramme citron
Sp - Burro limón

Size : Max.: 75 cm

Fishing gear : Handlines and gillnets

Habitat : Coastal waters, near reefs

PLATE XVIII, 106



BONY FISHES

HAEMULIDAE

Plectorhinchus flavomaculatus (Ehrenberg, 1830)

Synonyms : Gaterin flavomaculatus (Ehrenberg, 1830)

Loc. names : Mchone (D)

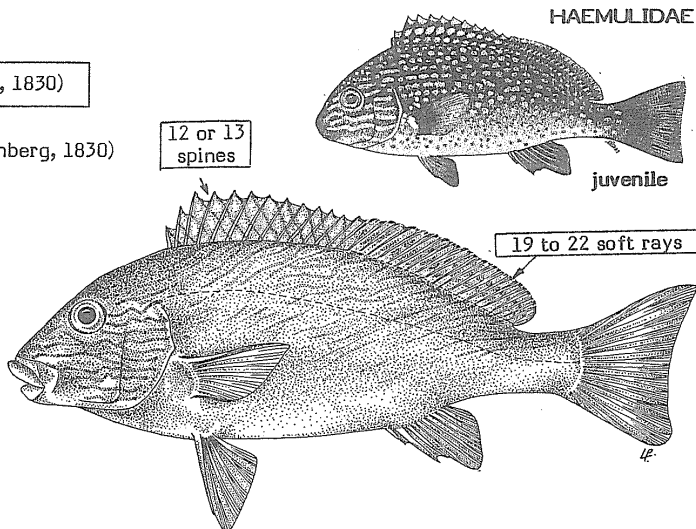
FAO names : En - Dusky rubberlip
Fr - Diagramme sombre
Sp - Burro caluga

Size : Max.: 60 cm

Fishing gear : Handlines and bottom trawls

Habitat : Coastal waters near reefs and weedy areas

PLATE XVIII, 107



Plectorhinchus gaterinus (Forsskål, 1775)

Synonyms : Gaterin gaterinus (Forsskål, 1775)

Loc. names : Mikeka (D); Mchone (D)(M)
Mleya (T)

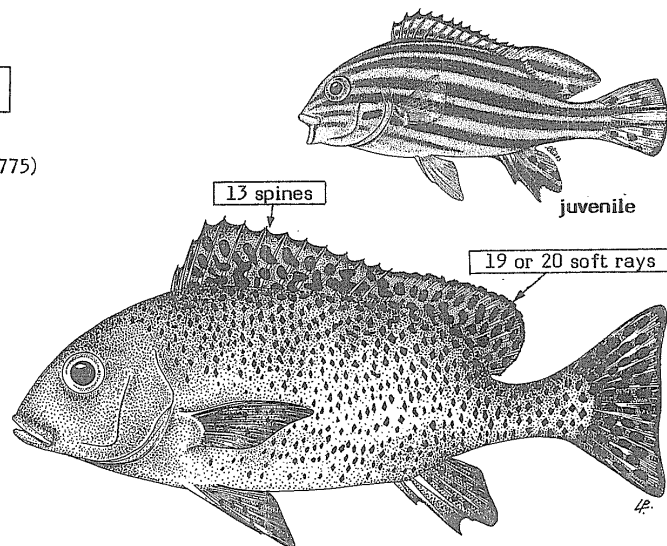
FAO names : En - Blackspotted rubberlip
Fr - Diagramme moucheté
Sp - Burro punteado

Size : Max.: 50 cm

Fishing gear : Handlines and spears

Habitat : Coastal reefs, sand banks and near estuaries

PLATE XVIII, 108



Plectorhinchus gibbosus (Lacepède, 1802)

Synonyms : Pseudopristipoma nigra Munro, 1955
Gaterin niger (Cuvier & Valenciennes, 1830)
Plectorhynchus crassispina (Rüppell, 1835)
Plectorhynchus nigrus (Cuvier, 1830)

Loc. names : Mchone

FAO names : En - Harry hotlips
Fr - Diagramme noire
Sp - Burro negro

Size : Max.: 70 cm

Fishing gear : Handlines, spears and gillnets

Habitat : Coastal reefs, sand banks and near estuaries

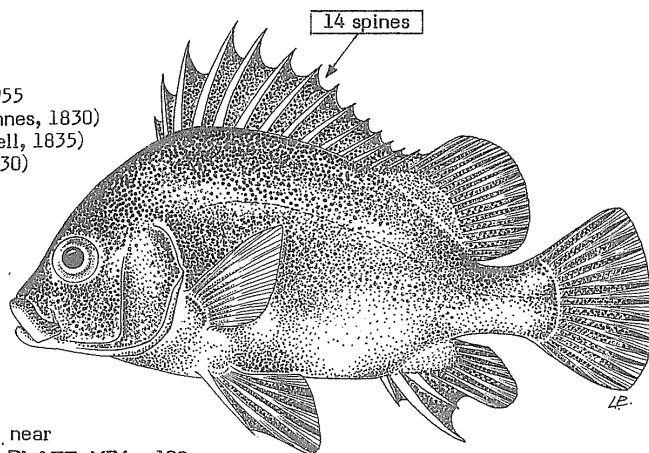


PLATE XIX, 109

BONY FISHES

Plectorhinchus orientalis (Bloch, 1793)

Synonyms : Gaterin orientalis (Bloch, 1793)

Loc. names :

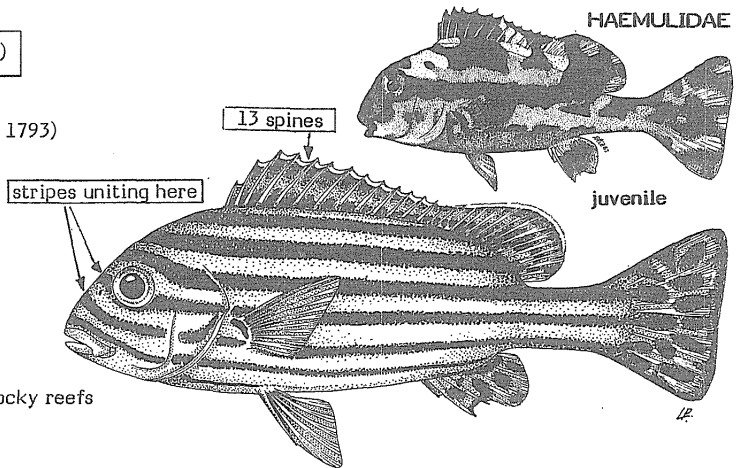
FAO names : En - Oriental sweetlips
Fr - Diagramme oriental
Sp - Burro oriental

Size : Max.: 50 cm

Fishing gear : Handlines and spears

Habitat : Coral reefs and inshore rocky reefs

PLATE XIX, 110



Plectorhinchus schotaf (Forsskal, 1775)

Synonyms : Gaterin schotaf (Forsskal, 1775)

Loc. names : Mchone (T)
Mweve, Kumba-maji (M)

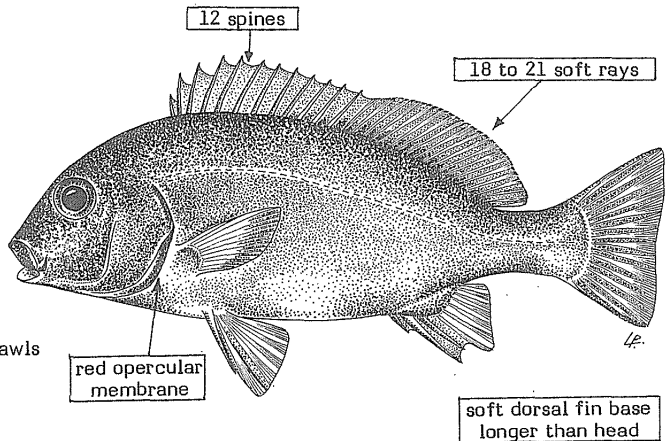
FAO names : En - Minstrel sweetlips
Fr - Diagramme ménestrel
Sp - Burro trovador

Size : Max.: 80 cm; common to 30 cm

Fishing gear : Handlines, spears and bottom trawls

Habitat : Coastal waters near reefs

PLATE XIX, 112



Plectorhinchus sordidus (Klunzinger, 1870)

Synonyms : Gaterin sordidus (Klunzinger, 1870)

Loc. names : Mchone (T)
Mweve, Kumba-maji (M)

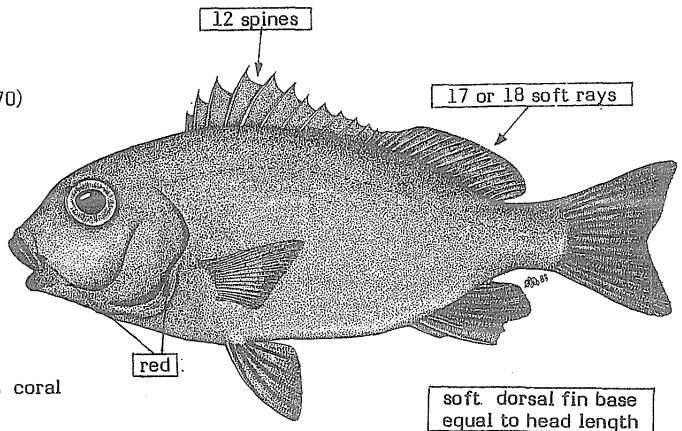
FAO names : En - Sordid rubberlips
Fr - Diagramme à lèvres rouges
Sp - Burro boca colorada

Size : Max.: 30 cm

Fishing gear : Handlines and spears

Habitat : Inshore and offshore rocks and coral reefs

PLATE XIX, 113



BONY FISHES

HAEMULIDAE

Pomadasys maculatum (Bloch, 1797)

Synonyms : None

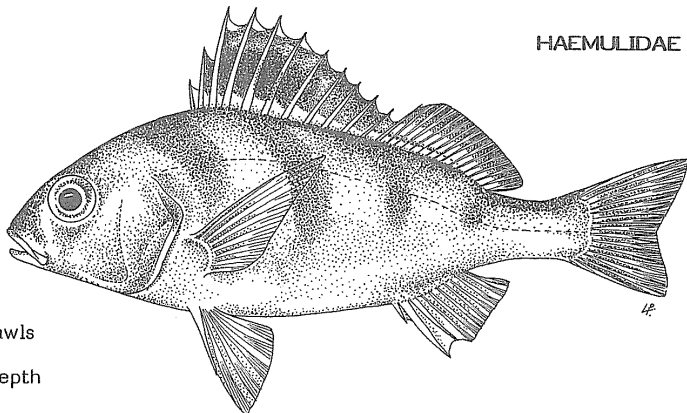
Loc. names : Kui

FAO names : En - Saddle grunt
Fr - Grondeur selle
Sp - Corocoro montura

Size : Max.: 50 cm; common to 15 cm

Fishing gear : Handlines, traps and bottom trawls

Habitat : Coastal waters to about 50 m depth



Pomadasys kaakan (Cuvier, 1830)

Synonyms : Pristipoma hasta (not Bloch, 1797)
Pomadasys nageb (Rüppell, 1835)

Loc. names : Karamamba (T)(D)

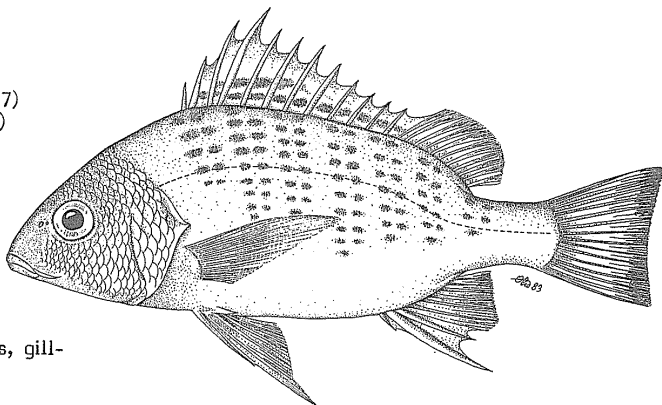
FAO names : En - Javelin grunter
Fr - Grondeur javelot
Sp - Corocoro jabalina

Size : Max.: 80 cm; common to 50 cm

Fishing gear : Bottom trawls, bottom longlines, gill-nets and traps

Habitat : Coastal waters, at about 60 m depth

PLATE XX , 115



Pomadasys multimaculatum (Playfair, 1866)

Synonyms : None

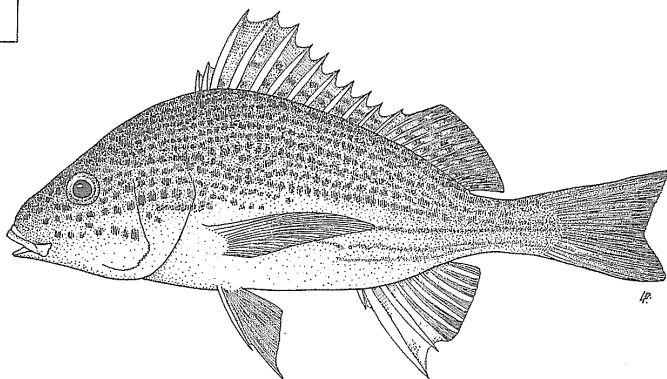
Loc. names : Karamamba (T)(D)

FAO names : En - Cock grunter
Fr - Grondeur coq
Sp - Corocoro gallito

Size : Max.: 76 cm; common to 15 cm

Fishing gear : Bottom trawls

Habitat : Coastal waters



spots on body and head

BONY FISHES

Pomadasys stridens (Forsskal, 1775)

HAEMULIDAE

Synonyms : Rhonciscus stridens Forsskal, 1775

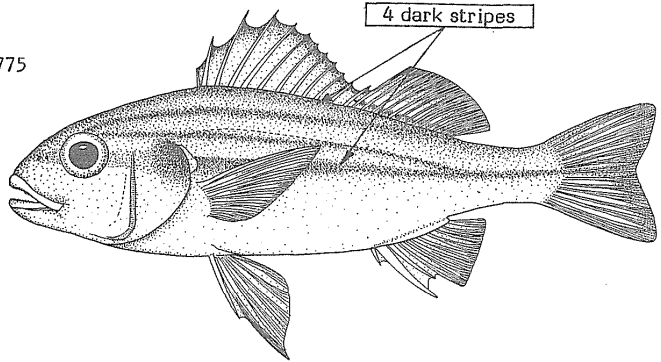
Loc. names : Kui (D)
Kenge

FAO names : En - Striped piggy
Fr - Goret à trois bandes
Sp - Ronco de tres bandas

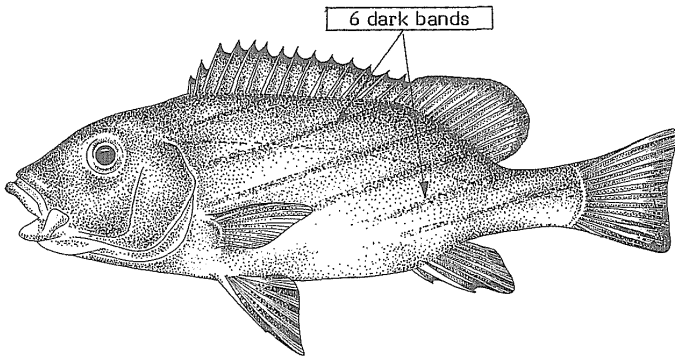
Size : Max.: 16 cm

Fishing gear : Lines and bottom trawls

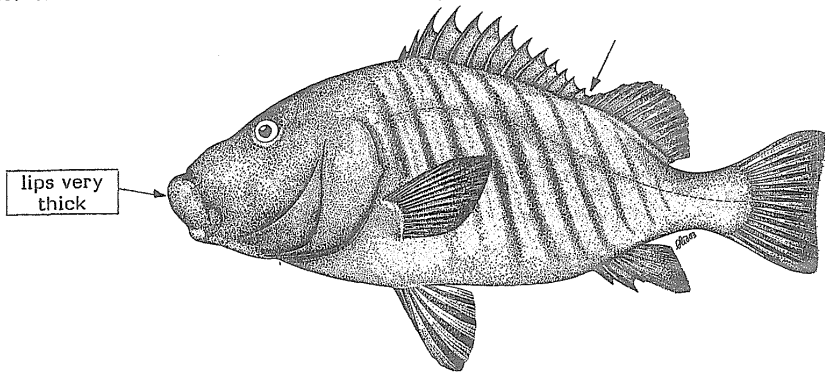
Habitat : Coastal waters



Other species of Haemulidae



Plectorhinchus paulayi Steindachner, 1895
Zebra sweetlips
size: to 45 cm

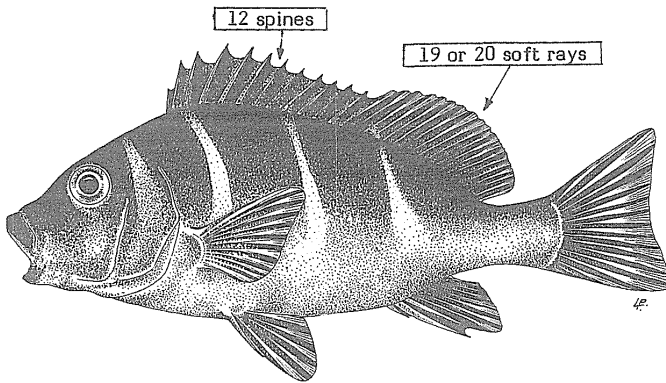


Plectorhinchus plagiodesmus Fowler, 1935
Barred rubberlips
size: to 90 cm

BONY FISHES

HAEMULIDAE

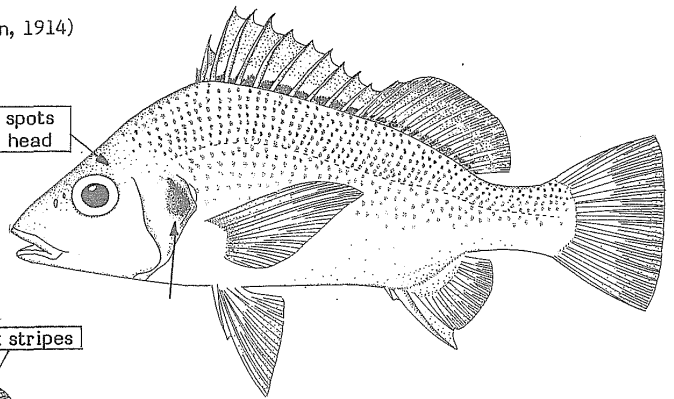
Other species of *Haemulidae*



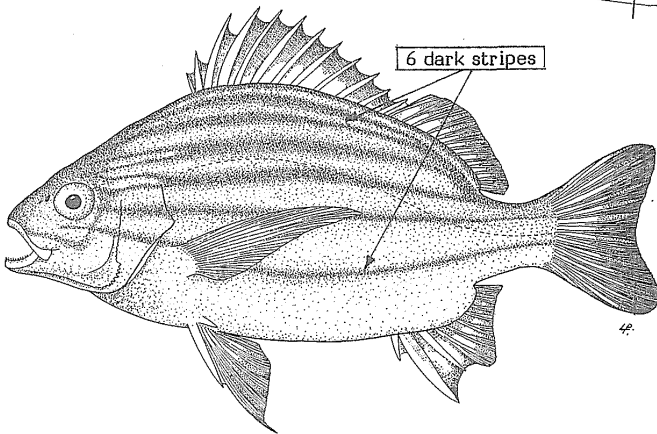
Plectorhinchus playfairi (Pellegrin, 1914)
White barred rubberlips
size: to 90 cm

PLATE XIX, 111

no spots
on head

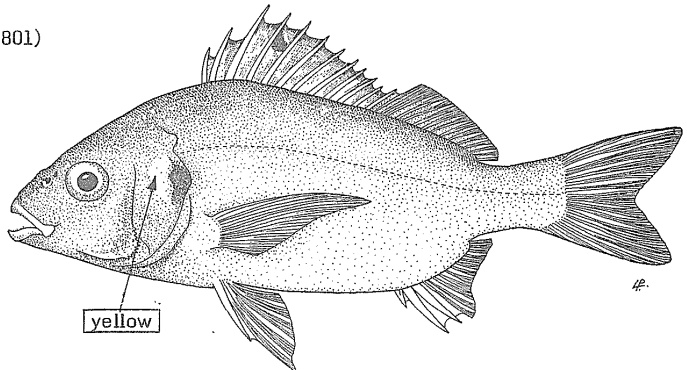


Pomadasys commersonni (Lacepède, 1802)
Smallspotted grunter
size: to 38 cm



Pomadasys furcatus (Schneider, 1801)
Banded grunt
size: to 38 cm

PLATE XIX, 114



Pomadasys olivaceum (Day, 1875)
Olive grunt
size: to 31 cm

BONY FISHES

LETHRINIDAE

Gnathodentex aurolineatus (Lacepède, 1802)

Synonyms : None

Loc. names :

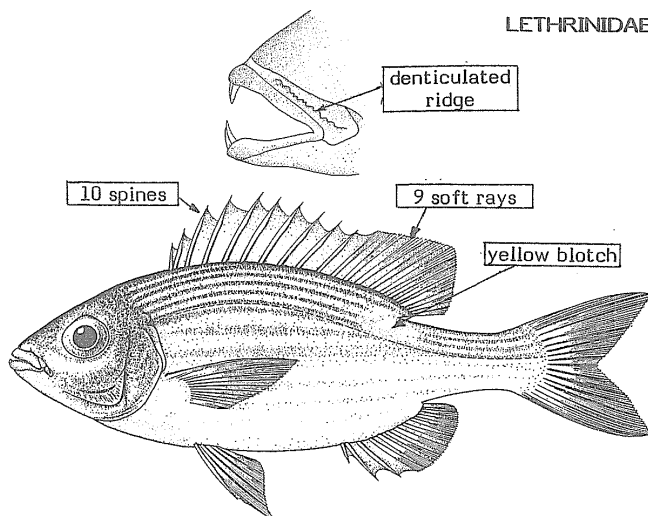
FAO names : En - Striped large-eye bream
Fr - Empereur strié
Sp - Emperador estriado

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Traps, gillnets and handlines

Habitat : Coastal waters on coral reefs, to 20 m depth

PLATE XX, 116



Gymnocranius griseus (Temminck & Schlegel, 1843)

Synonyms : None

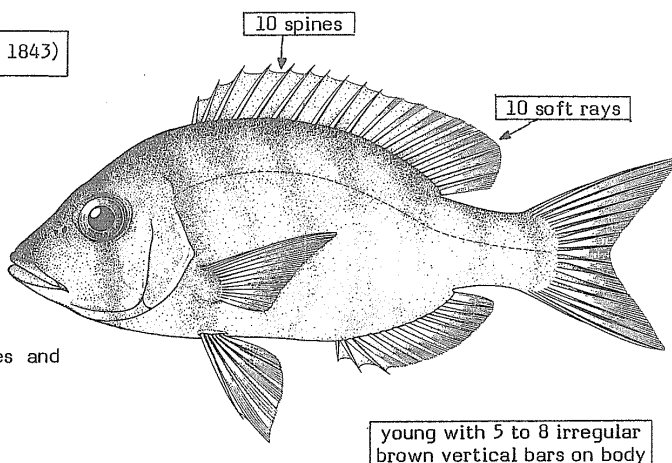
Loc. names :

FAO names : En - Grey large-eye bream
Fr - Empereur gris
Sp - Emperador gris

Size : Max.: 80 cm; common to 50 cm

Fishing gear : Bottom trawls, bottom longlines and handlines

Habitat : Coastal waters to 80 m depth



Gymnocranius robinsoni (Gilchrist & Thompson, 1908)

Synonyms : None

Loc. names : Changu-cha (D)

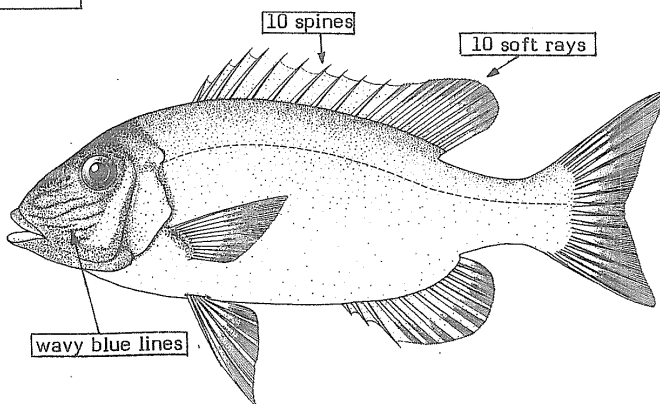
FAO names : En - Blue-lined large-eye bream
Fr - Empereur tatué
Sp - Emperador tatuado

Size : Max.: 70 cm; common to 50 cm

Fishing gear : Bottom longlines, handlines, gill-nets and traps

Habitat : Coastal waters near coral reefs, between 80 and 120 m depth

PLATE XX, 117



BONY FISHES

LETHRINIDAE

Lethrinus conchyliatus (Smith, 1959)

Synonyms : Lethrinella conchyliata Smith, 1959
Lethrinus floridus Wheeler, 1961

Loc. names : Changu; Msumba (M)

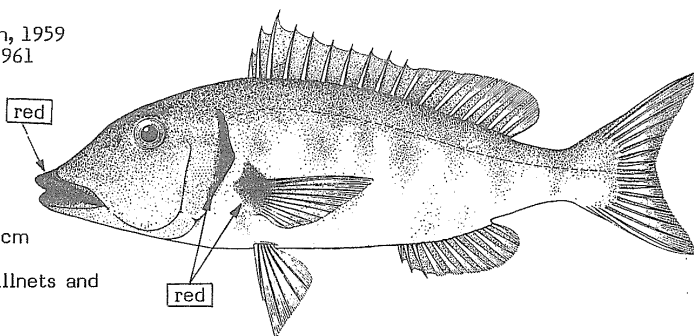
FAO names : En - Red axil emperor
 Fr - Empereur gueule de vin
 Sp - Emperador boca de vino

Size : Max.: 76 cm; common to 50 cm

Fishing gear : Handlines; bottom trawls, gillnets and traps

Habitat : From reef areas to 220 m depth

PLATE XX, 118



Lethrinus elongatus Valenciennes, 1830

Synonyms : Lethrinus miniata (non Bloch & Schneider, 1801)
Lethrinus rostratus Valenciennes, 1830
Lethrinus waigiensis Valenciennes, 1830

Loc. names : Changu-ndomo (D)
 Changu; Roba

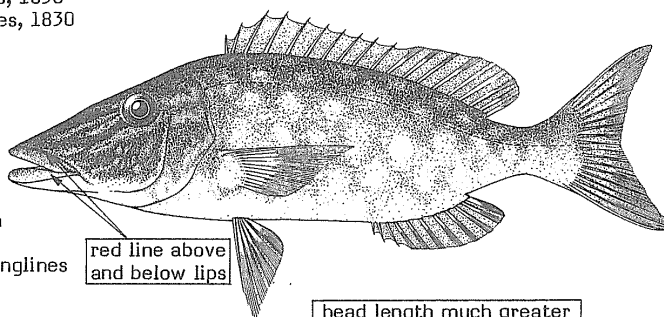
FAO names : En - Longface emperor
 Fr - Empereur gueule longue
 Sp - Emperador trompudo

Size : Max.: 100 cm; common to 60 cm

Fishing gear : Handlines, gillnets, vertical longlines and bottom trawls

Habitat : Coral reefs and coastal waters to 190 m depth

PLATE XX, 119



Lethrinus harak (Forsskål, 1775)

Synonyms : Lethrinus rhodopterus Bleeker, 1852

Loc. names : Changu-ndizi (T)
 Kibaba; Changu-doa (M)

FAO names : En - Thumbprint emperor
 Fr - Empereur Saint Pierre
 Sp - Emperador San Pedro

Size : Max.: 60 cm; common to 40 cm

Fishing gear : Handlines, gillnets, traps and seines

Habitat : Coastal and reef waters to 50 m depth

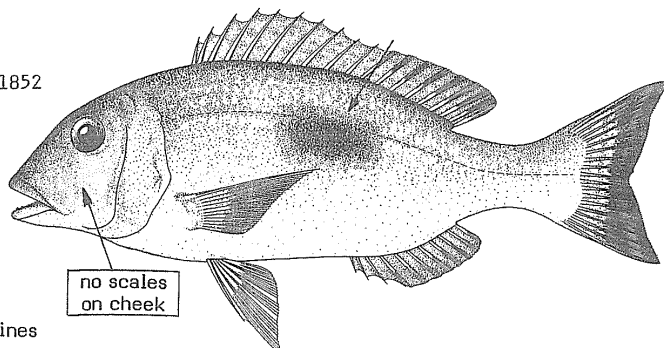


PLATE XX, 120

BONY FISHES

LETHRINIDAE

Lethrinus kallopterus Bleeker, 1856

Synonyms : None

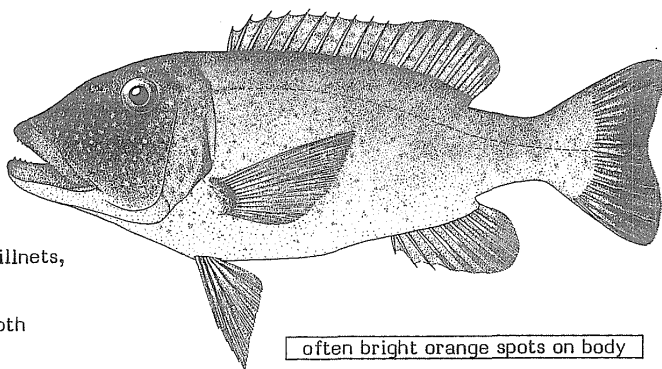
Loc. names : Changu

FAO names : En - Orange-spotted emperor
Fr - Empereur capitaine
Sp - Emperador de manchas

Size : Max.: 70 cm; common to 50 cm

Fishing gear : Handlines, vertical longlines, gillnets, traps and bottom trawls

Habitat : Coral and rock reefs to 80 m depth



often bright orange spots on body

PLATE XXI, 121

Lethrinus lentjan (Lacepède, 1802)

Synonyms : Lethrinus lentjanus

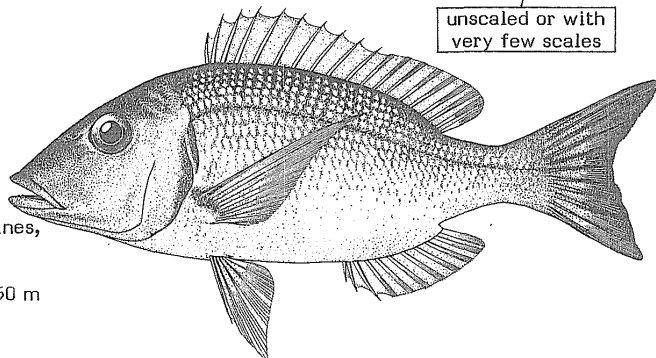
Loc. names : Changu

FAO names : En - Redspot emperor
Fr - Empereur lentilles
Sp - Emperador de lentejuelas

Size : Max.: 50 cm; common to 40 cm

Fishing gear : Handlines, gillnets, bottom longlines, trawls and traps

Habitat : Coastal and coral reef waters to 50 m depth



pectoral fin folded forward

unscaled or with very few scales

PLATE XXI, 122

head length shorter than body depth

Lethrinus mahsena (Forsskal, 1775)

Synonyms : Lethrinus caeruleus Valenciennes, 1830
Lethrinus sanguineus Smith, 1955

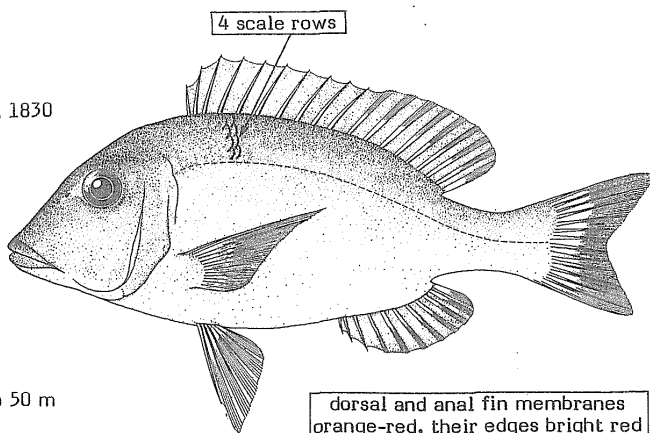
Loc. names : Changu; Tuku (M)

FAO names : En - Mahsena emperor
Fr - Empereur mahsena
Sp - Emperador mahsena

Size : Max.: 65 cm; common to 50 cm

Fishing gear : Handlines, gillnets and traps

Habitat : Coral reefs and inshore waters to 50 m depth



4 scale rows

dorsal and anal fin membranes orange-red, their edges bright red

PLATE XXI, 123, 124

BONY FISHES

LETHRINIDAE

Lethrinus mahsenoides Valenciennes, 1830

Synonyms : None

Loc. names : Changu

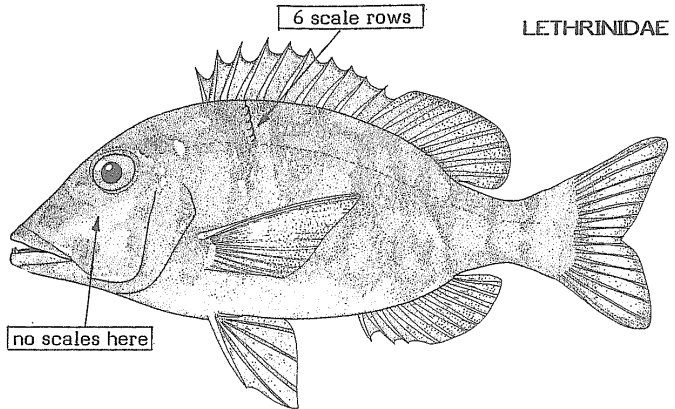
FAO names : En - Saburbir emperor
Fr - Empereur dame berris
Sp - Emperador saburbir

Size : Max.: 35 cm

Fishing gear : Handlines, gillnets and traps

Habitat : Coastal waters

PLATE XXI, 125



Lethrinus microdon Valenciennes, 1830

Synonyms : Lethrinella microdon (Valenciennes, 1830)

Loc. names : Changu; Roba (M)

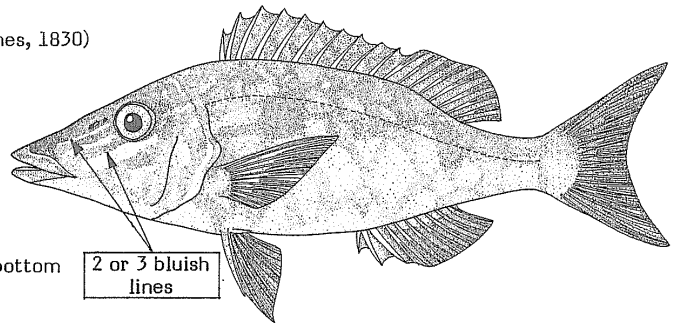
FAO names : En - Smalltooth emperor
Fr - Empereur tidents
Sp - Emperador boquidulce

Size : Max.: 60 cm; common to 40 cm

Fishing gear : Handlines, gillnets, traps and bottom trawls

Habitat : Coral reefs and inshore waters

PLATE XXI, 126



Lethrinus nebulosus (Forsskal, 1775)

Synonyms : Lethrinus choerorynchus (Bloch & Schneider, 1801)
Lethrinus fraenatus Valenciennes, 1830
Lethrinus fletus Whitley, 1943
Lethrinus opercularis Valenciennes, 1830

Loc. names : Changu; Changu-tewa

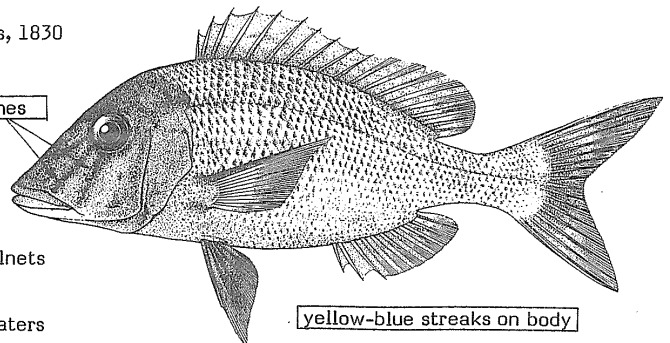
FAO names : En - Spangles emperor
Fr - Empereur moris
Sp - Emperador relámpago

Size : Max.: 87 cm; common to 60 cm

Fishing gear : Bottom trawls, seines, traps, gillnets and handlines

Habitat : Inhabits coral reefs and inshore waters to 50 m depth; also found in mangrove creeks and around jetties and wharves. Juveniles occur in inshore waters, adults in deeper waters

PLATE XXII, 127



BONY FISHES

Lethrinus ramak (Forsskål, 1775)

LETHRINIDAE

Synonyms : Lethrinus obsoletus (unavailable)

Loc. names : Changu; Njana (M)

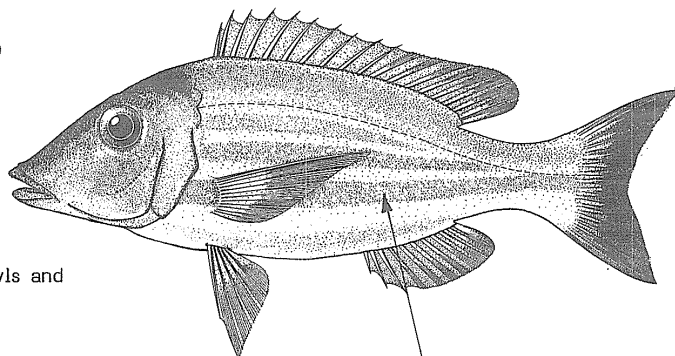
FAO names : En - Yellow-banded emperor
Fr - Empereur à bandes oranges
Sp - Emperador de bandas

Size : Max.: 47 cm; common to 25 cm

Fishing gear : Handlines, gillnets, seines, trawls and traps

Habitat : Coral reefs and inshore waters

PLATE XXII, 128



orange-yellow stripes on body, the one through pectoral fin base the most prominent

Lethrinus rubrioperculatus Sato, 1978

Synonyms : None

Loc. names : Changu

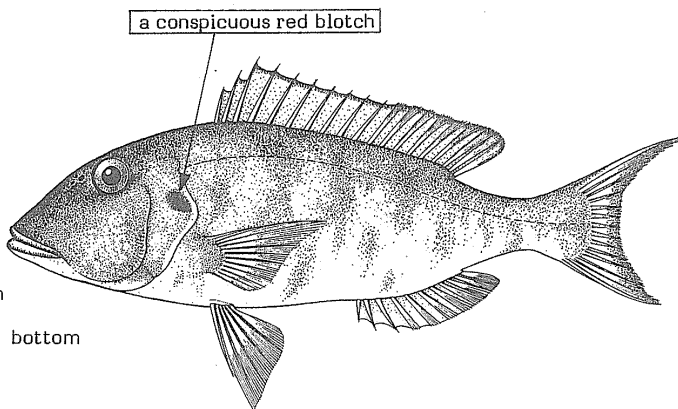
FAO names : En - Spotcheek emperor
Fr - Empereur honteux
Sp - Emperador maquillado

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Handlines, gillnets, traps and bottom trawls

Habitat : Coral reefs

PLATE XXII, 129



a conspicuous red blotch

Lethrinus variegatus Valenciennes, 1830

Synonyms : Lethrinella variegata (Valenciennes, 1830)

Loc. names : Changu mdomo nyamvi

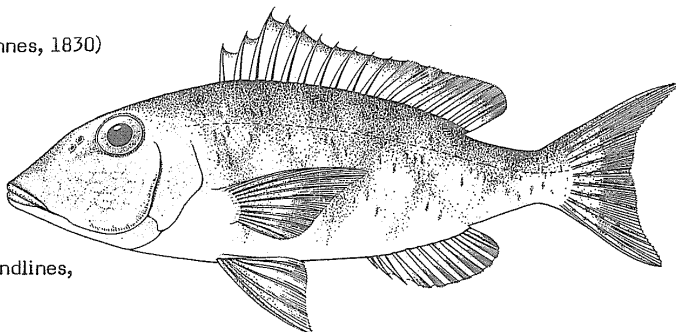
FAO names : En - Variegated emperor
Fr - Empereur bas cou
Sp - Emperador moteado

Size : Max.: 20 cm

Fishing gear : Longlines, gillnets, seines, handlines, traps and bottom trawls

Habitat : Coral reefs to 160 m depth

PLATE XXII, 130



BONY FISHES

Lethrinus xanthochilus Klunzinger, 1870

LETHRINIDAE

Synonyms : Lethrinella xanthochila (Klunzinger, 1870)

Loc. names :

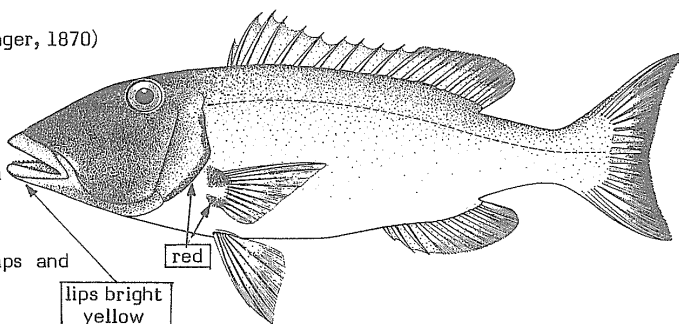
FAO names : En - Yellowlip emperor
Fr - Empereur bec de cane
Sp - Emperador trompa amarilla

Size : Max.: 78 cm; common to 70 cm

Fishing gear : Seines, gillnets, handlines, traps and bottom trawls

Habitat : Coral reefs

PLATE XXII, 131



Monotaxis grandoculis (Forsskal, 1775)

Synonyms : None

Loc. names :

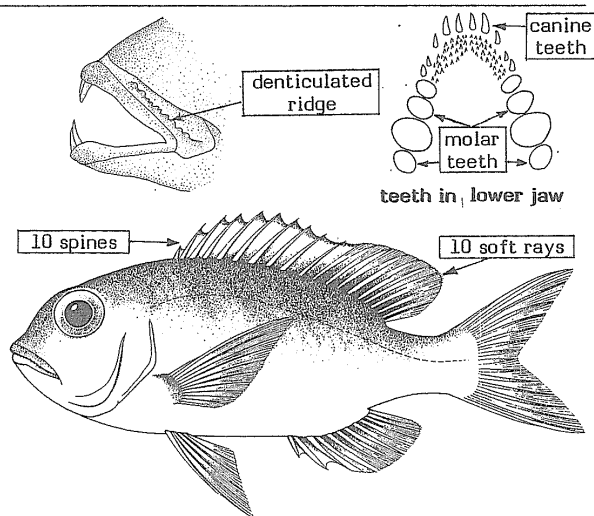
FAO names : En - Humpnose big-eye bream
Fr - Empereur bossu
Sp - Emperador jorobado

Size : Max.: 60 cm; common to 40 cm

Fishing gear : Gillnets, traps, bottom longlines and handlines

Habitat : Coral reefs and coastal waters to 60 m depth

PLATE XXII, 132



Acanthopagrus berda (Forsskal, 1775)

SPARIDAE

Synonyms : Mylio berda (Forsskal, 1775)

Loc. names : Kungu

FAO names : En - Picnic seabream
Fr - Pagre picnic
Sp - Sargo picnic

Size : Max.: 75 cm; common to 30 cm

Fishing gear : Bottom trawls and handlines

Habitat : A bottom-living fish, very shy, cunning, found mainly on rough and muddy sand grounds in coastal waters, particularly in estuaries, from shallow water to depths of about 50 m. Juveniles usually occur in more sheltered shallow bays and estuaries.

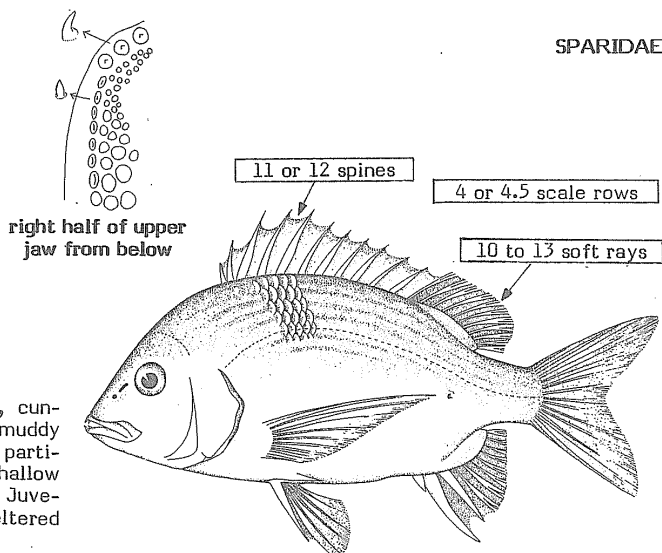


PLATE XXIII, 133

BONY FISHES

SPARIDAE

Acanthopagrus bifasciatus (Forsskål, 1775)

Synonyms : Sparus bifasciatus Forsskål, 1775
Mylio bifasciatus (Forsskål, 1775)

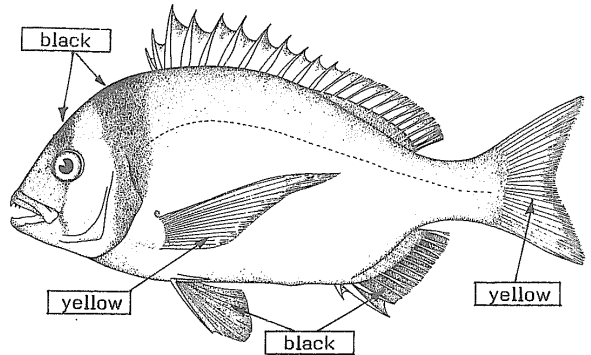
Loc. names :

FAO names : En - Twobar seabream
 Fr - Pagre double bande
 Sp - Sargo de dos bandas

Size : Max.: 50 cm; common to 35 cm

Fishing gear : Longlines, handlines and traps; also in bottom trawls

Habitat : Around coral reefs; enters estuaries and bays



Argyrops spinifer (Forsskål, 1775)

Synonyms : Sparus spinifer Forsskål, 1775

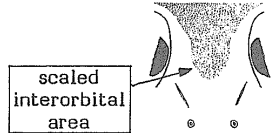
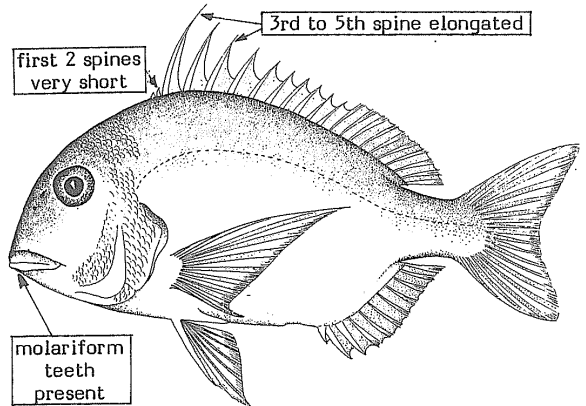
Loc. names : Nyapinga (D)

FAO names : En - King soldierbream
 Fr - Spare royal
 Sp - Sargo real

Size : Max.: 65 cm; common to 30 cm

Fishing gear : Bottom trawls, longlines, handlines and traps

Habitat : This common species inhabits a wide range of bottoms (most common between 5 and 100 m). The young individuals occur in very shallow waters of sheltered bays, the larger ones at greater depths.



Argyrops filamentosus (Valenciennes, 1830)

Synonyms : None

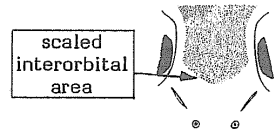
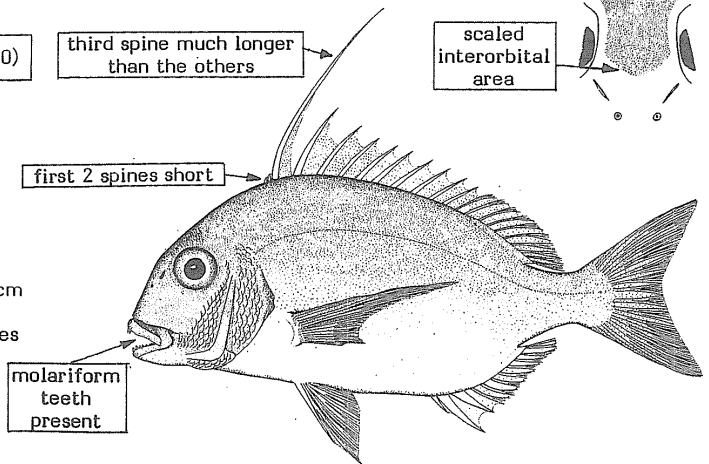
Loc. names : Nyapinga (D)

FAO names : En - Soldier bream
 Fr - Spare soldat
 Sp - Sargo soldado

Size : Max.: 60 cm; common to 40 cm

Fishing gear : Trawls, handlines and longlines

Habitat : Near coral reefs



BONY FISHES

SPARIDAE

Cheimerius nufar (Valenciennes, 1830)

Synonyms : Dentex nufar Valenciennes, 1830

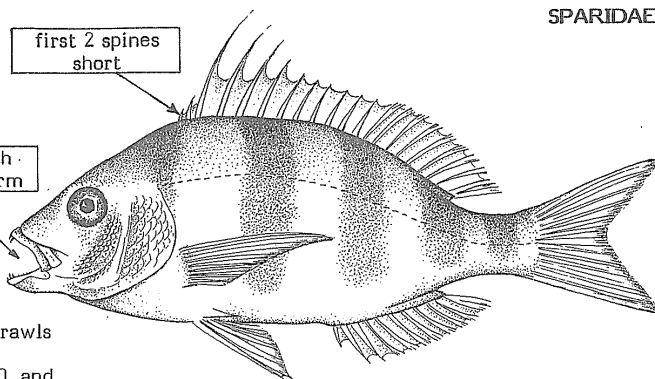
Loc. names :

FAO names : En - Santer seabream
Fr - Denté nufar
Sp - Dentón nufar

Size : Max.: 60 cm; common to 35 cm

Fishing gear : Longlines, handlines and bottom trawls

Habitat : Over rocky bottoms between 60 and 100 m depth; young seek shelter in estuaries when stormy weather approaches



Crenidens crenidens (Forsskal, 1775)

Synonyms : None

Loc. names :

FAO names : En - Karanteen seabream
Fr - Saupe de la Mer Rouge
Sp - Salema del Mar Rojo

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Handlines and seines

Habitat : Shallow coastal waters, estuaries and muddy quiet areas



teeth in upper
and lower jaws

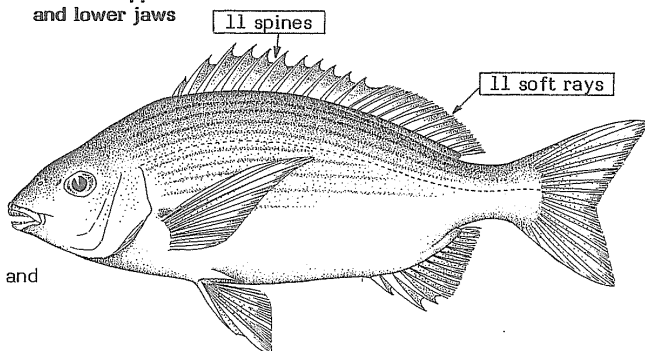


PLATE XXIII, 134

Polysteganus coeruleopunctatus Klunzinger, 1870

Synonyms : None

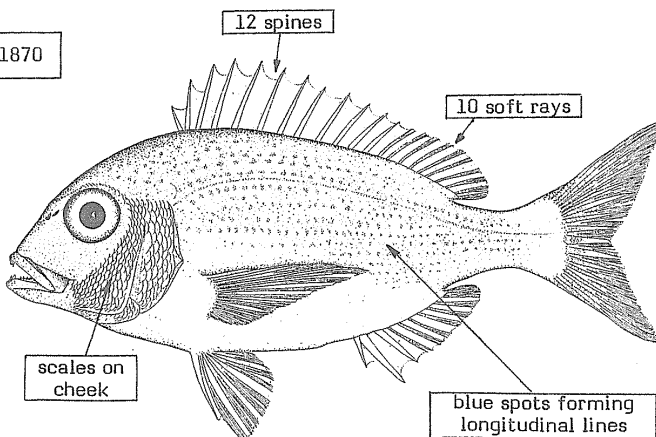
Loc. names :

FAO names : En - Blueskin seabream
Fr - Denté à points bleus
Sp - Dentón azul

Size : Max.: 50 cm; common to 35 cm

Fishing gear : Lines and bottom trawls

Habitat : In deep waters, around reefs



BONY FISHES

Rhabdosargus sarba (Forsskål, 1775)

SPARIDAE

Synonyms : Sparus sarba Forsskål, 1775

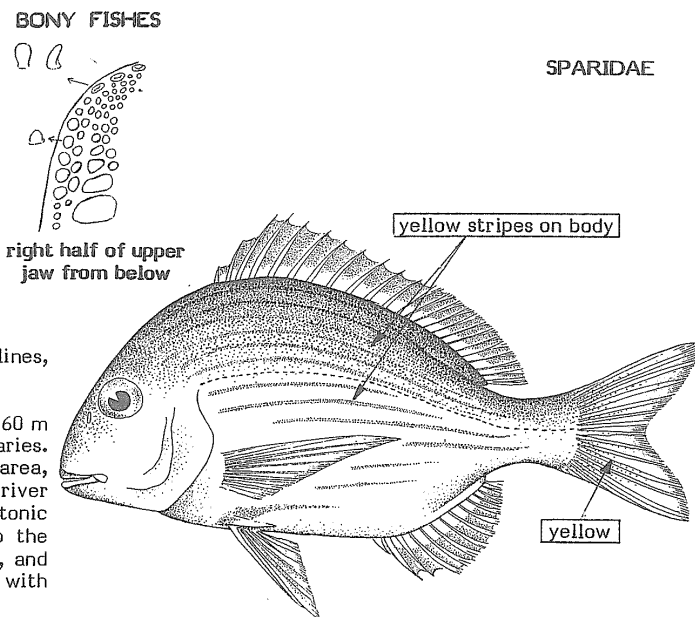
Loc. names :

FAO names : En - Goldlined seabream
Fr - Sargue doré
Sp - Sargo dorado

Size : Max.: 60 cm; common to 40 cm

Fishing gear: Bottom trawls, gillnets, longlines, handlines and traps

Habitat : A bottom-living coastal fish, to 60 m depth, sometimes entering estuaries. In the southern part of the area, spawning takes place near river mouths; after a short planktonic period, the young fish move into the estuaries, which act as nurseries, and move out into deeper waters with growth



Johnieops sina (Cuvier, 1830)

SCIAENIDAE

Synonyms : Corvina sina Cuvier, 1830
Sciaena parva Gilchrist & Thompson, 1908
Wak sina: Chu, Lo & Wu, 1963
Wak menoni Talwar & Joglekar, 1970
Johnius (Jonieops) sina: Trewavas, 1977

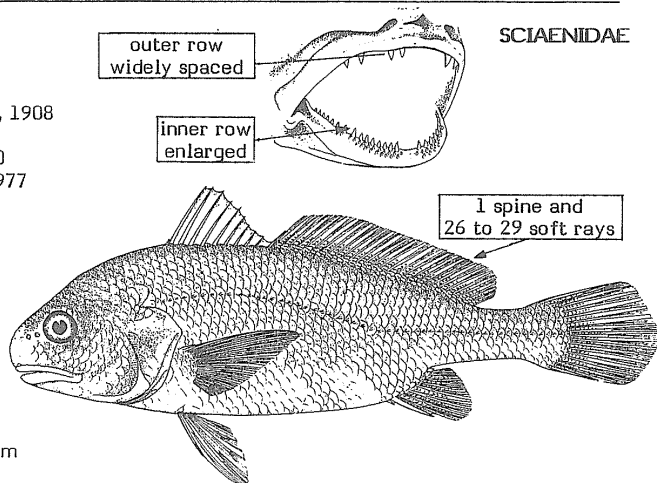
Loc. names : Pooza (D)

FAO names : En - Sin croaker
Fr - Courbine chinoise
Sp - Corvina china

Size : Max.: 30 cm; common to 13 cm

Fishing gear: Bottom trawls and gillnets

Habitat : Found in inshore waters, down to 40 m



Johnius dussumieri (Valenciennes, 1833)

Synonyms : Umbrina dussumieri Valenciennes, 1833
Sciaena dussumieri Bleeker, 1872; Fowler, 1933; Weber & de Beaufort, 1936; Lin, 1938
Dendrophysa dussumieri: Trewavas, 1964
Umbrina amblycephala Bleeker, 1855
Johnius amblycephalus: Chu, Lo & Wu, 1963; Trewavas, 1977
Umbrina fuscolineata von Bonde, 1923
Blythsciaena dussumieri: Talwar, 1971

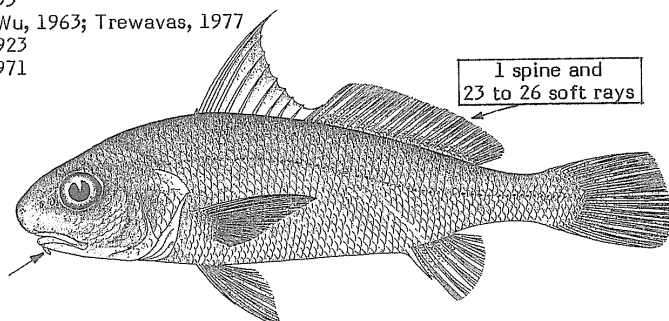
Loc. names : Pooza (D)

FAO names : En - Bearded croaker
Fr - Courbine barbiche
Sp - Corvina de barba

Size : Max.: 25 cm; common to 15 cm

Fishing gear: Bottom trawls and seines

Habitat : Coastal waters down to 40 m depth



BONY FISHES

SCIAENIDAE

Otolithes ruber (Schneider, 1801)

Synonyms : Otolithus argenteus Cuvier, 1830 (quoted in Day, 1878)
Otolithes argenteus: Chu, Lo & Wu, 1963

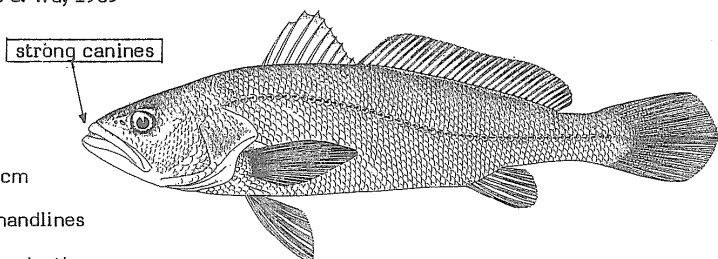
Loc. names : Pooza (D)(T)

FAO names : En - Tigertooth croaker
 Fr - Grande verrue tigre
 Sp - Bombache tigre mayor

Size : Max.: 70 cm; common to 40 cm

Fishing gear : Bottom trawls, gillnets and handlines

Habitat : Coastal waters; down to 40 m depth



Umbrina canariensis Valenciennes, 1843

Synonyms : Umbrina sinuata Day, 1876
Sciaena sinuata: J.L.B. Smith, 1949
Umbrina striata Boulenger, 1888

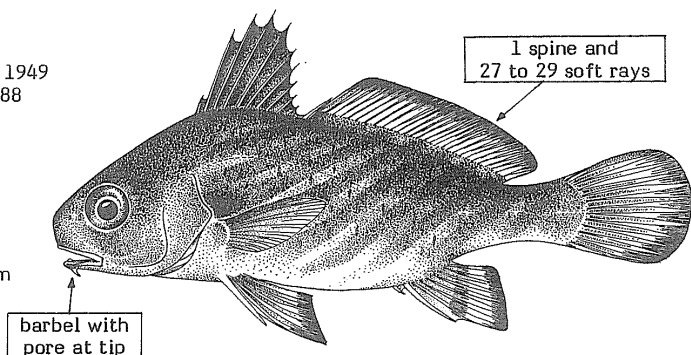
Loc. names : Pooza (D)

FAO names : En - Canary drum
 Fr - Ombrine bronze
 Sp - Verrugato de Canarias

Size : Max.: 20 cm; common to 15 cm

Fishing gear : Bottom trawls

Habitat : Shallow coastal waters



Umbrina ronchus Valenciennes, 1843

Synonyms : Umbrina capensis (?Pappé, 1853)
Sciaena capensis: J.L.B. Smith, 1949
Umbrina fusca Dardignac, 1958
Umbrina robinsoni Gilchrist & Thompson, 1908
Umbrina fuscolineata von Bonde, 1923
Umbrina angustilineata Gilchrist & Thompson, 1911

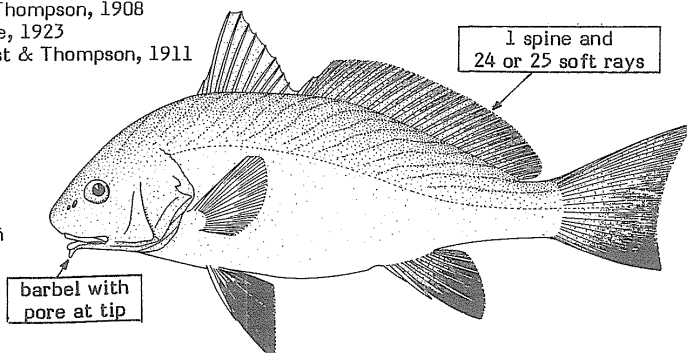
Loc. names : Pooza (D)

FAO names : En - Fusca croaker
 Fr - Ombrine fusca
 Sp - Verrugato fusco

Size : Max.: 80 cm; common to 50 cm

Fishing gear : Bottom trawls and handlines

Habitat : Coastal waters to 50 m



BONY FISHES

Parupeneus barberinus (Lacepède, 1801)

MULLIDAE

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Dash-and-dot goatfish
Fr - Rouget-barbet barberin
Sp - Salmonete barberino

Size : Max.: 50 cm; common to 30 cm

Fishing gear : Bottom trawls, shore seines, hook-and-line and spearing

Habitat : Mainly a shallow water species on sandy bottoms near coral reefs

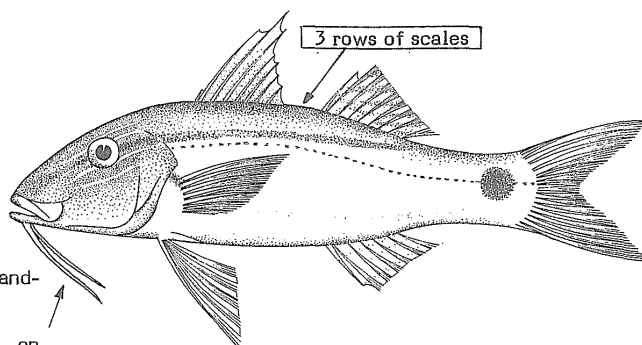


PLATE XXIII, 137

Parupeneus indicus (Shaw, 1803)

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Indian goatfish
Fr - Rouget-barbet indien
Sp - Salmonete índico

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Bottom trawls

Habitat : Shallow coastal waters; found singly or in small schools

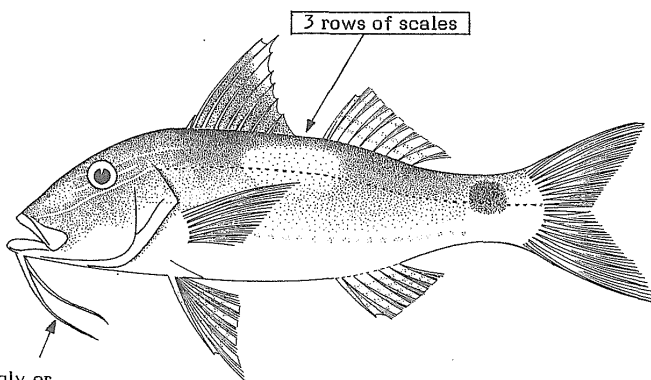


PLATE XXIV, 142

Parupeneus macronema (Lacepède, 1801)

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Longbarbel goatfish
Fr - Rouget-barbet bandeau
Sp - Salmonete bandón

Size : Max.: 32 cm; common to 20 cm

Fishing gear : Bottom trawls and shore seines

Habitat : A shallow-water species on sandy and weedy bottoms

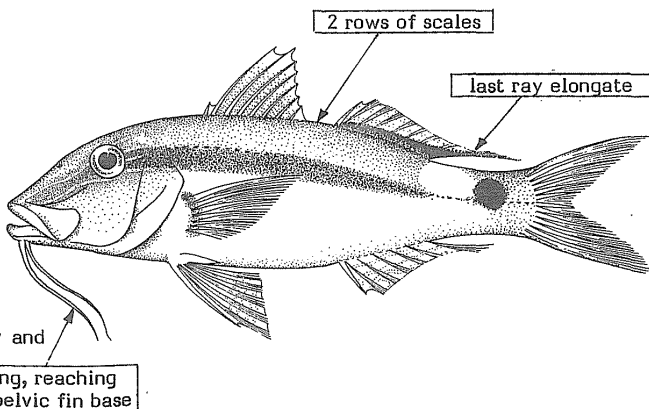


PLATE XXIV, 143

BONY FISHES

MULLIDAE

Upeneus bensasi (Temminck & Schlegel, 1842)

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Bensasi goatfish
Fr - Rouget-souris bensasi
Sp - Salmonete bensasi

Size : Max.: 20 cm; common to 13 cm

Fishing gear : Seines and bottom trawls

Habitat : Coastal waters to 40 m depth

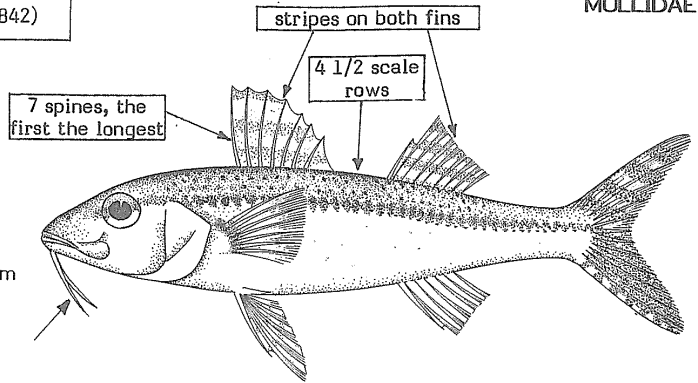


PLATE XXV , 145

Upeneus moluccensis (Bleeker, 1855)

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Goldband goatfish
Fr - Rouget-souris bande or
Sp - Salmonete de banda dorada

Size : Max.: 20 cm; common to 14 cm

Fishing gear : Shore seines and bottom trawls

Habitat : Mainly on mud bottoms between 10
and 40 m depth

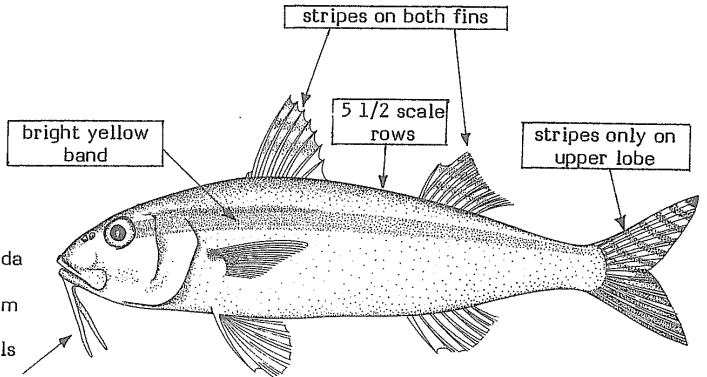


PLATE XXV , 146

Upeneus sulphureus Cuvier, 1829

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Sulphur goatfish
Fr - Rouget-souris aurore
Sp - Salmonete aurora

Size : Max.: 23 cm; common to 15 cm

Fishing gear : Shore seines and bottom trawls

Habitat : Coastal waters, often entering estua-
ries, between 20 and 60 m depth

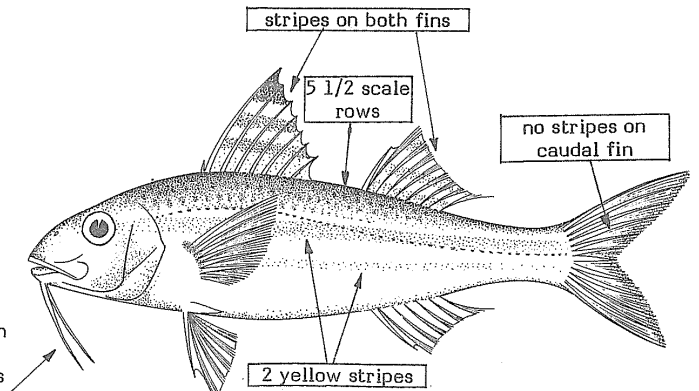


PLATE XXV , 147

BONY FISHES

Upeneus taeniopterus Cuvier, 1829

Synonyms : Upeneus arge Jordan & Evermann, 1902

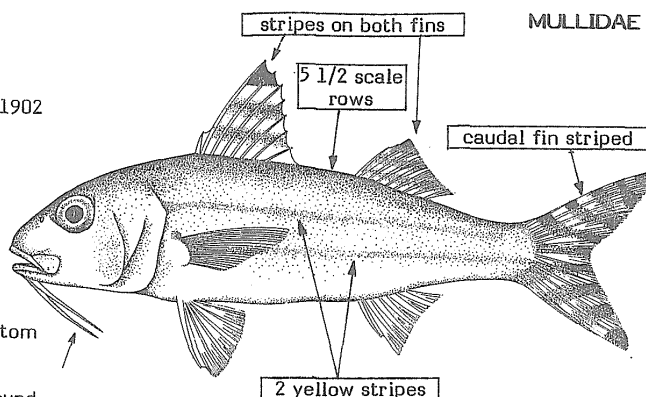
Loc. names : Mkundaji

FAO names : En - Fin-stripe goatfish
Fr - Rouget-souris rayé
Sp - Salmonete estriado

Size : Max.: 33 cm; common to 25 cm

Fishing gear : Seines, traps, gillnets and bottom trawls

Habitat : A shallow water species, often found on sandy bottoms near coral reefs



MULLIDAE

PLATE XXV, 148

Upeneus tragula Richardson, 1845

Synonyms : Upeneus oligospilus Lachner, 1954

Loc. names : Mkundaji

FAO names : En - Freckled goatfish
Fr - Rouget-souris à bande sombre
Sp - Salmonete barborín

Size : Max.: 30 cm; common to 23 cm

Fishing gear : Bottom trawls and shore seines

Habitat : On sandy or silty bottoms, near coral reefs to 40 m depth

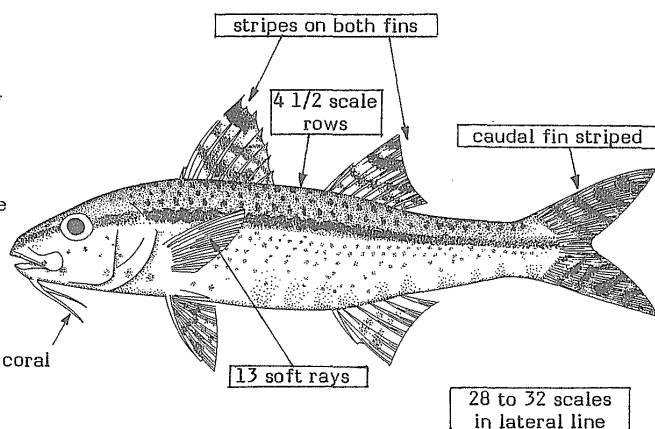


PLATE XXV, 149

Upeneus vittatus (Forsskal, 1775)

Synonyms : None

Loc. names : Mkundaji

FAO names : En - Striped goatfish
Fr - Rouget-souris orangé
Sp - Salmonete naranjero

Size : Max.: 28 cm; common to 18 cm

Fishing gear : Bottom trawls and shore seines

Habitat : In turbid waters and over muddy bottoms to 100 m depth

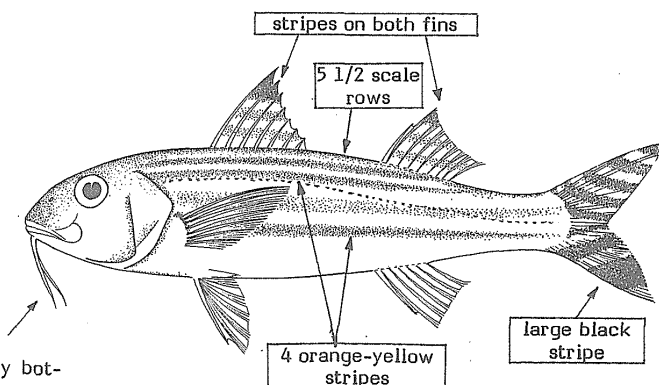
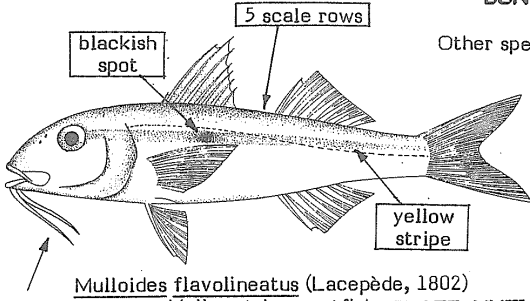


PLATE XXV, 150

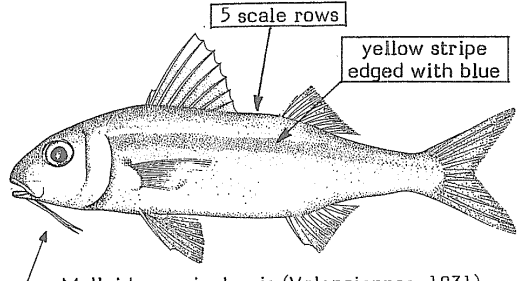
BONY FISHES

Other species of Mullidae

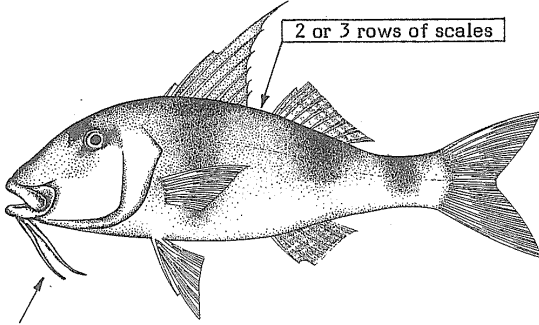
MULLIDAE



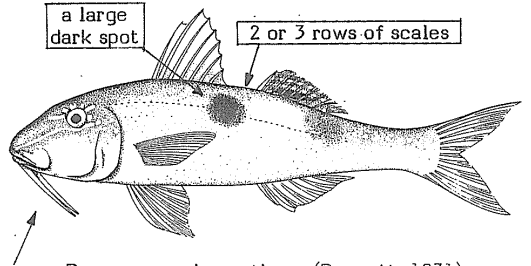
Mulloides flavolineatus (Lacepède, 1802)
Yellowstripe goatfish PLATE XXIII, 135
size: to 40 cm



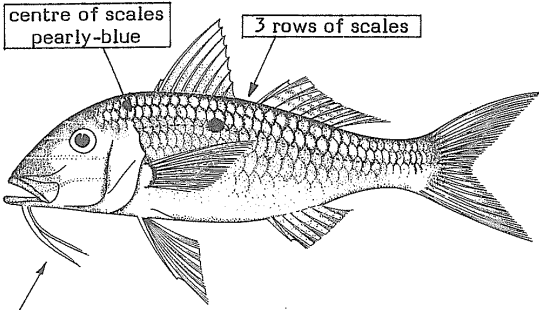
Mulloides vanicolensis (Valenciennes, 1831)
Yellowfin goatfish
size: to 38 cm
PLATE XXIII, 136



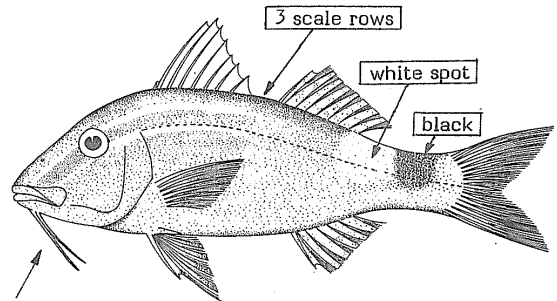
Parupeneus bifasciatus (Lacepède, 1801)
Doublebar goatfish PLATE XXIII, 138
size: to 35 cm



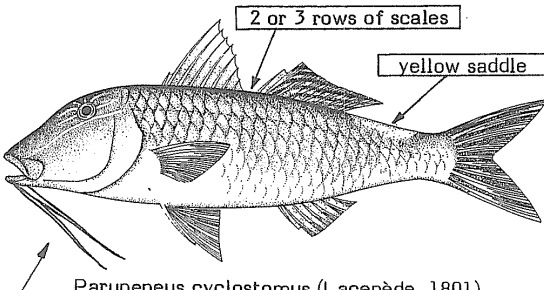
Parupeneus pleurostigma (Bennett, 1831)
Sidespot goatfish
size: to 30 cm
PLATE XXIV, 144



Parupeneus cinnabarinus (Cuvier, 1829)
Cinnabar goatfish PLATE XXIV, 139
size: to 30 cm



Parupeneus rubescens (Lacepède, 1801)
Rosy goatfish
size: to 30 cm



Parupeneus cyclostomus (Lacepède, 1801)
Goldsaddle goatfish
size: to 50 cm PLATE XXIV, 140, 141

BONY FISHES

Monodactylus argenteus (Linnaeus, 1758)

MONODACTYLIDAE

Synonyms : None

Loc. names : Kipepeo (D)
Pakawe

FAO names : En - Silver moony
Fr - Lune d'argent
Sp - Rambalí plateado

Size : Max.: 25 cm

Fishing gear : Beach seines

Habitat : Commonly found in fresh waters,
estuaries and harbours

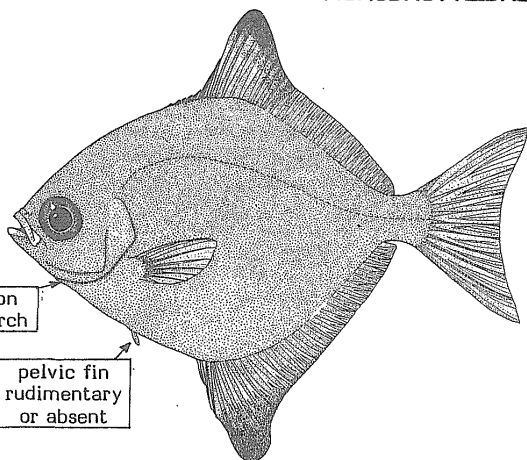


PLATE XXVI, 151

Monodactylus falciformis Lacepède, 1801

Synonyms : None

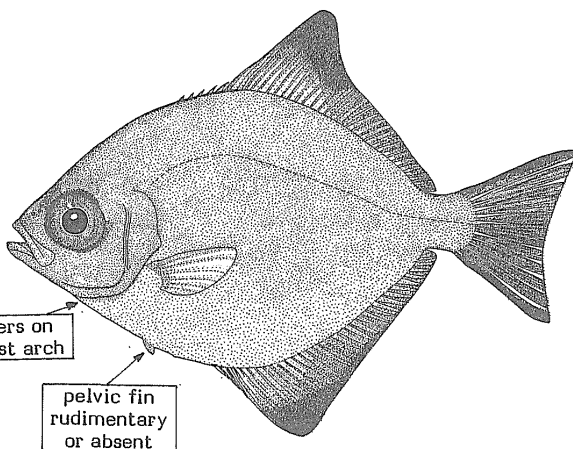
Loc. names : Kipepeo (D)
Pakawe

FAO names : En - Full moony
Fr - Lune pleine
Sp - Rambalí luna

Size : Max.: 25 cm

Fishing gear : Beach seines

Habitat : Commonly in fresh waters, estuaries
and harbours



Kyphosus cinerascens (Forsskål, 1775)

KYPHOSIDAE

Synonyms : None

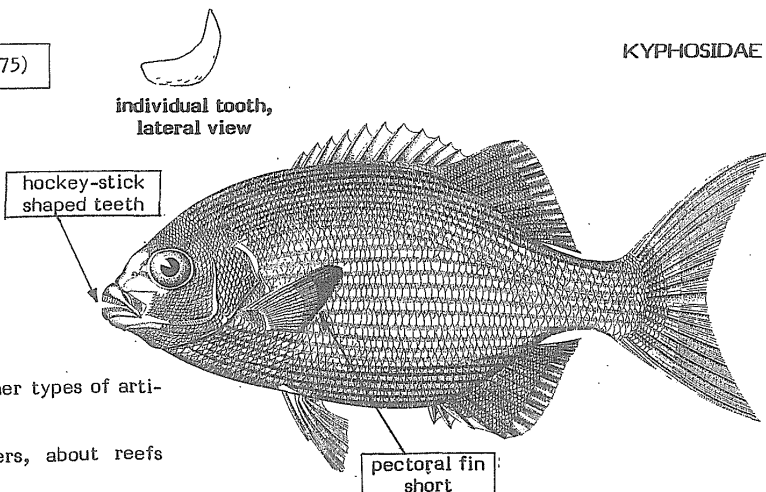
Loc. names : Tufi (D); Kufi
Kimbulimbuli

FAO names : En - Blue sea chub
Fr - Calicagère bleue
Sp - Chopa azul

Size : Max.: 40 cm

Fishing gear : Hook-and-line and other types of arti-
sanal gear

Habitat : Shallow coastal waters, about reefs
and rocks



BONY FISHES

Tripteron orbis Playfair, 1866

Synonyms : None

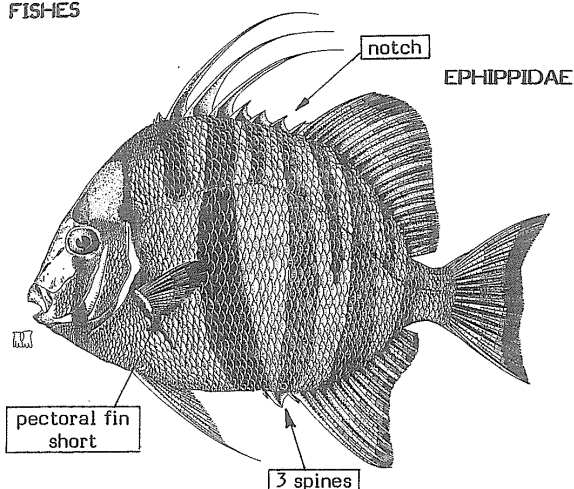
Loc. names : Shana

FAO names : En - African spadefish
Fr - Disque africain
Sp - Paguala africana

Size : Max.: 75 cm; common to 30 cm

Fishing gear : Handlines and traps

Habitat : Shallow waters and about reefs



Drepane punctata (Linnaeus, 1758)

Synonyms : *Chaetodon punctata* Linnaeus, 1758

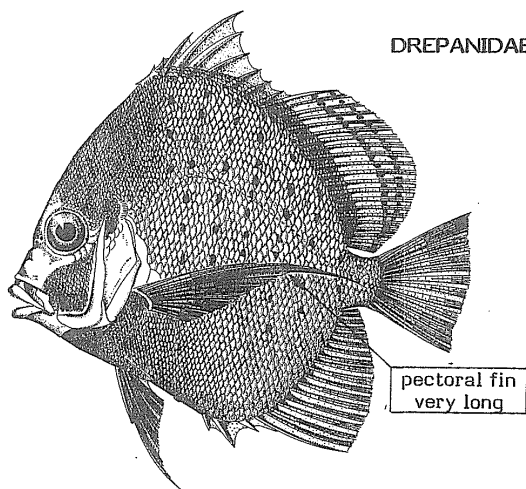
Loc. names : Kipepeo (D); Shana
Tunguru

FAO names : En - Spotted sicklefish
Fr - Forgeron tacheté
Sp - Catemo manchado

Size : Max.: 40 cm; common to 25 cm

Fishing gear : Handlines, traps and bottom trawls

Habitat : Shallow coastal waters, around coral and rocky reefs, sometimes entering brackish waters



Several species

dorsal fin
continuous

CHAETODONTIDAE

Loc. names : Kibajebanje (D); Kitatange; Kipepeo

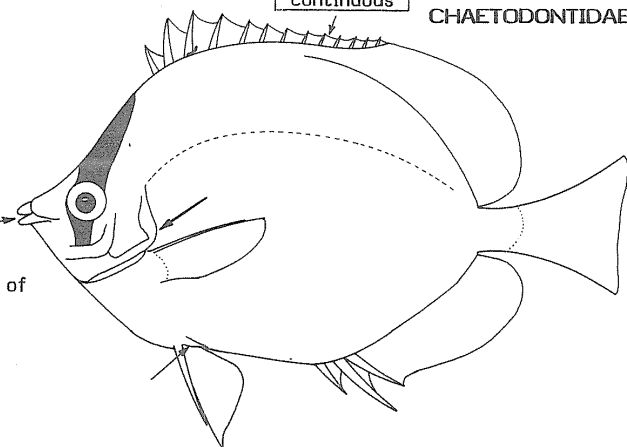
FAO names : En - Butterfly fishes
Fr - Papillons
Sp - Mariposas

Size : Max.: 25 cm

Fishing gear : Gillnets and traps

Habitat : On coral reefs, usually above depths of 20 to 30 m

mouth
small



BONY FISHES

Several species

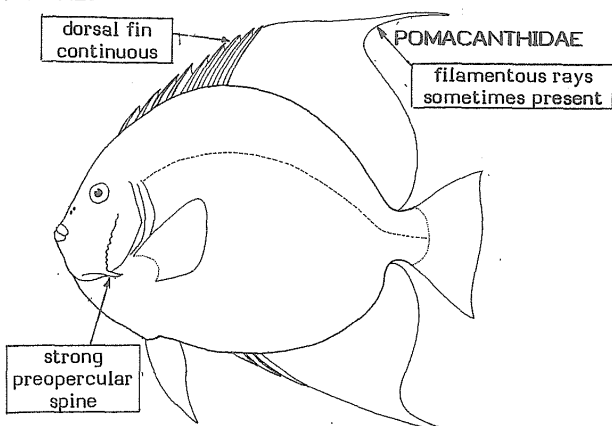
Loc. names : Ruguu (T)
Kukumaji
Kipepeo; Kijakazi

FAO names : En - Angel fishes
Fr - Demoiselles
Sp - Cachamas, Isabelitas

Size : Max.: to 60 cm

Fishing gear : Traps, gillnets and bottom trawls

Habitat : Shallow coral reef areas, in depths
above 30 to 40 m



Abudefduf saxatilis (Linnaeus, 1758)

Synonyms : None

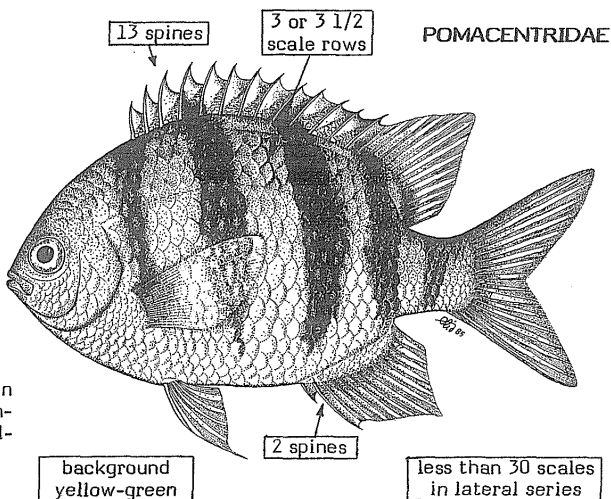
Loc. names : Patima-mashowera

FAO names : En - Sergeant major
Fr - Chauffet soleil
Sp - Petaca rayada

Size : Max.: 18 cm

Fishing gear : Traps and hook-and-line

Habitat : Young usually found in small schools in
tidal pools, but the adults often con-
gregate in enormous shoals and shal-
low coastal waters



Teixeirichthys jordani (Rutter, 1897)

Synonyms : None

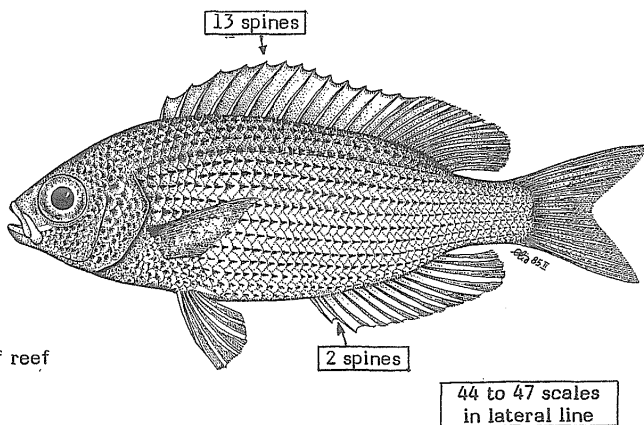
Loc. names :

FAO names : En - Jordan's damselfish
Fr - Sergeant de Jordan
Sp - Jaqueta de Jordan

Size : Max.: to about 10 cm

Fishing gear : Bottom trawls

Habitat : Shallow waters, in the vicinity of reef
areas



BONY FISHES

Platax orbicularis (Forsskal, 1775)

PLATACIDAE

Synonyms : Platax vespertilio (Bloch, 1802)

Loc. names : Kipepeo (D) (juvenile)
Tunguru (D) (adult)
Tugu (M)

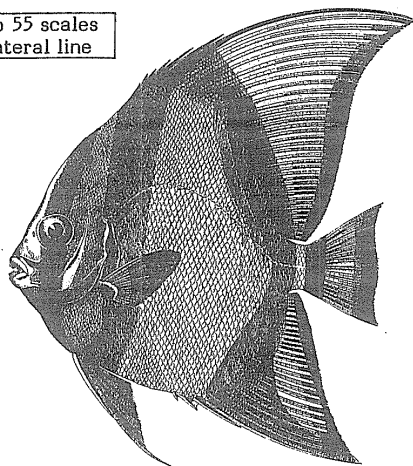
FAO names : En - Batfish
Fr - Poule d'eau
Sp - Dalapugán

Size : Max.: 50 cm; common to 25 cm

Fishing gear : Handlines, beach seines and bottom trawls

Habitat : Lives on coral reefs, in bays and along rocky shores. Juveniles occurring occasionally in brackish waters and often floating motionless on the water surface

50 to 55 scales
in lateral line



juvenile



large adult

Platax pinnatus (Linnaeus, 1758) has 60 to 65 scales in lateral line

Crenimugil crenilabis (Forsskal, 1775)

MUGILIDAE

Synonyms : Mugil macrocheilus Bleeker, 1854

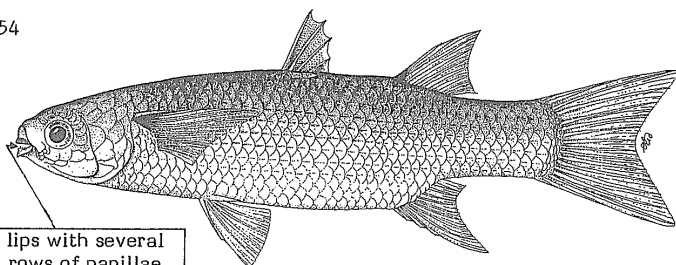
Loc. names : Mkizi

FAO names : En - Fringelip mullet
Fr - Mulet boxeur
Sp - Lisa labiada

Size : Max.: 40 cm; common to 26 cm

Fishing gear : Seines

Habitat : Shallow waters, especially coral reef areas



lips with several
rows of papillae

Liza macrolepis (Smith, 1849)

Synonyms : Mugil borneensis Bleeker, 1851
Mugil troschelii Bleeker, 1858
Liza akame Tanaka, 1916

Loc. names : Mkizi

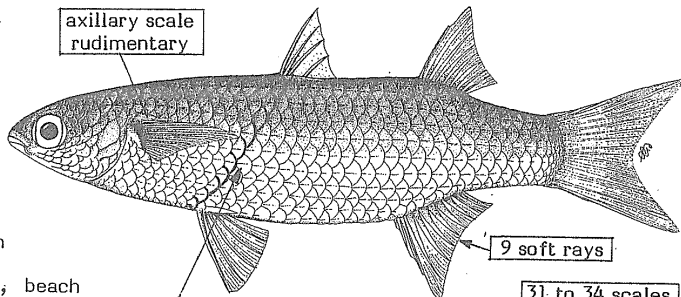
FAO names : En - Largescale mullet
Fr - Mulet à grandes écailles
Sp - Lisa godeya

Size : Max.: 60 cm; common to 26 cm

Fishing gear : Gillnets, castnets, stakenets, beach seines

Habitat : Schools occur in shallow coastal waters, estuaries and backwaters. Forms larger aggregations during spawning, which takes place at sea. Able to survive in pond with 87‰ salinity. Young individuals occur in shallow, inundated areas along the sea coast

axillary scale
rudimentary



9 soft rays

12 transverse scales

31 to 34 scales
in lateral line

BONY FISHES

MUGILIDAE

Liza melinoptera (Valenciennes, 1836)

Synonyms : Mugil ceramensis Bleeker, 1852
Mugil oligolepis Day, 1876
Mugil anpinensis Oshima, 1922

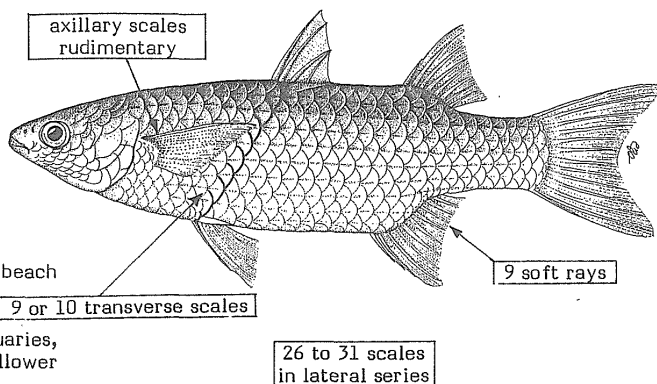
Loc. names : Mkizi

FAO names : En - Otomebora mullet
Fr - Mulet otomebora
Sp - Lisa otomebora

Size : Max.: 22 cm; common to 18 cm

Fishing gear : Gillnets, castnets, stakenets and beach seines

Habitat : Shallow coastal waters, estuaries, lagoons; fry often occur in shallower areas



Liza vaigiensis (Quoy & Gaimard, 1824)

Synonyms : None

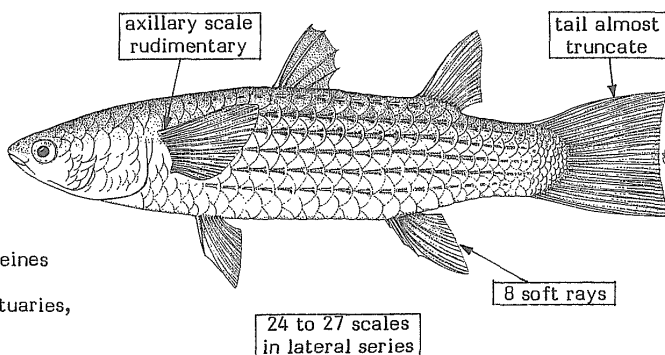
Loc. names : Mkizi

FAO names : En - Square-tail mullet
Fr - Mulet mopirot
Sp - Lisa mopirot

Size : Max.: 55 cm; common to 35 cm

Fishing gear : Castnets, stakenets and beach seines

Habitat : Shallow coastal waters, estuaries, entering rivers



Mugil cephalus Linnaeus, 1758

Synonyms : Mugil oür Forsskål, 1775
Mugil japonicus Schlegel, 1845

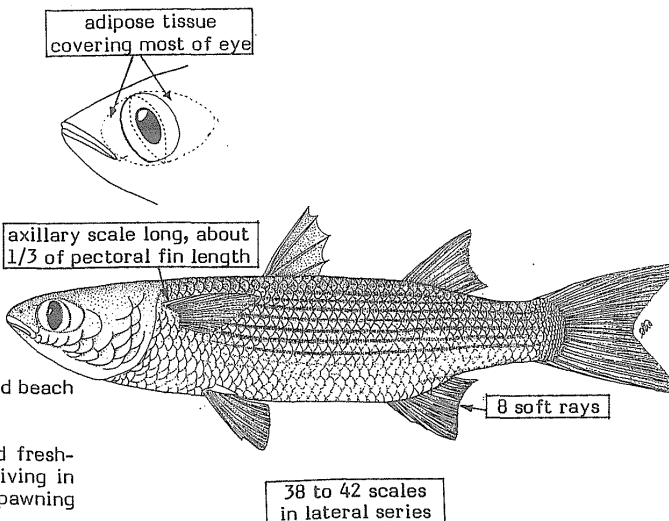
Loc. names : Mkizi

FAO names : En - Flathead mullet
Fr - Mulet cabot
Sp - Pardete

Size : Max.: 90 cm; common to 35 cm

Fishing gear : Gillnets, castnets, stakenets and beach seines

Habitat : Marine as well as brackish and fresh-water lagoons; capable of surviving in very highly salted waters; spawning takes place at sea



BONY FISHES

MUGILIDAE

Valamugil buchanani (Bleeker, 1853)

Synonyms : Mugil ceylonensis Günther, 1861
Oedalechilus kesteveni Whitley, 1943

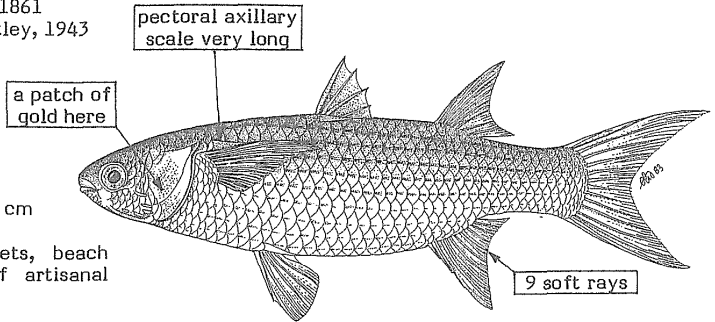
Loc. names : Mkizi

FAO names : En - Blue-tail mullet
Fr - Mulet à queue bleue
Sp - Lisa rabo azul

Size : Max.: 48 cm; common to 35 cm

Fishing gear : Gillnets, castnets, stakenets, beach seines and other types of artisanal gear

Habitat : Coastal waters and adjacent lagoons; young ascend river lagoons and back waters



32 to 35 scales
in lateral series

Valamugil cunnesius (Valenciennes, 1836)

Synonyms : Mugil amarulus Valenciennes, 1836
Mugil strongylocephalus Richardson, 1846
Mugil ophuysenii Bleeker, 1859
Mugil longimanus Günther, 1861
Mugil kelaartii Günther, 1861

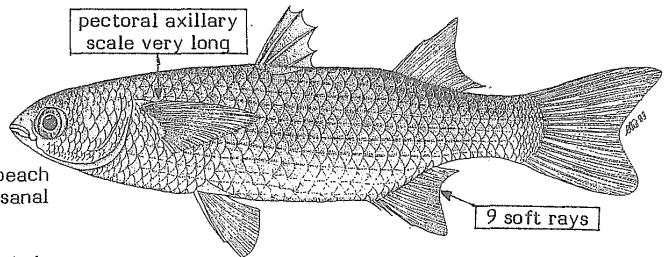
Loc. names : Mkizi

FAO names : En - Longarm mullet
Fr - Mulet longue aile
Sp - Lisa de aleta larga

Size : Max.: 41 cm; common to 25 cm

Fishing gear : Gillnets, castnets, stakenets, beach seines and other types of artisanal gear

Habitat : A schooling species, occurring in shallow coastal waters, estuaries and back waters, frequently entering fresh water; forms large aggregations during spawning which takes place at sea; young individuals enter tidal rivers



first dorsal fin origin nearer to
snout tip than to caudal fin base

30 to 35 scales
in lateral series

Valamugil engeli (Bleeker, 1858)

Synonyms : Mugil kandavensis Günther, 1877

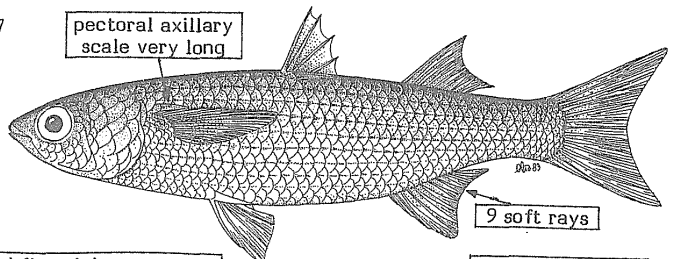
Loc. names : Mkizi

FAO names : En - Kanda
Fr - Mulet oeil de perdrix
Sp - Lisa ojo de perdiz

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Seines and liftnets

Habitat : Coastal waters



first dorsal fin origin nearer to
caudal fin base than to snout tip

32 to 36 scales
in lateral series

BONY FISHES

Valamugil seheli (Forsskal, 1775)

MUGILIDAE

Synonyms : Mugil axillaris Valenciennes, 1836
Mugil caeruleomaculatus Lacepède, 1803

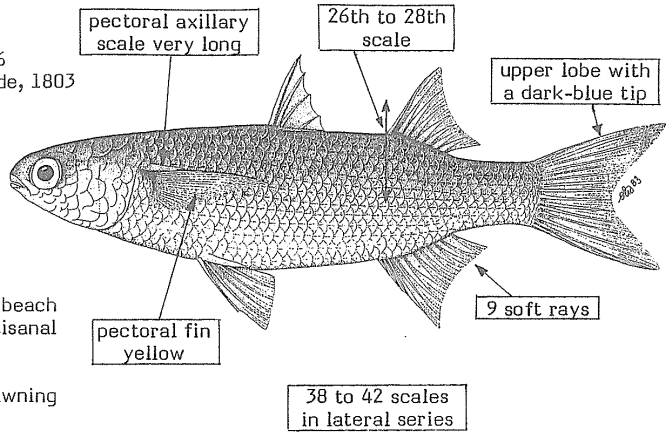
Loc. names : Mkizi

FAO names : En - Blue-spot mullet
Fr - Mulet à tache bleue
Sp - Lisa de mancha azul

Size : Max.: 50 cm; common to 24 cm

Fishing gear : Gillnets, castnets, stakenets, beach seines and other types of artisanal gear

Habitat : Brackish and fresh waters; spawning takes place at sea



Sphyraena barracuda (Walbaum, 1792)

SPHYRAENIDAE

Synonyms : Sphyraena picuda Bloch & Schneider, 1801

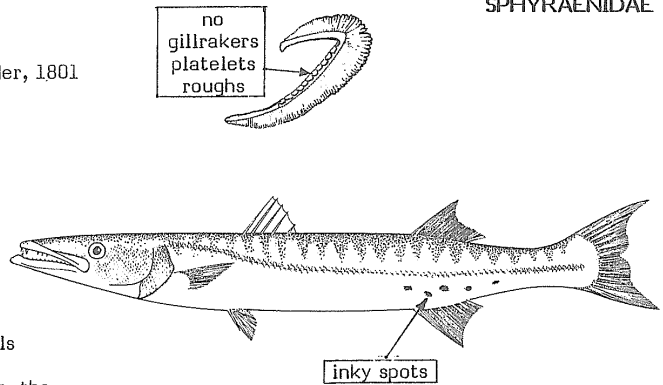
Loc. names : Msusa (D)(T) (up to 50 cm TL)
Mzia (D)(T) (over 50 cm TL)

FAO names : En - Great barracuda
Fr - Barracuda
Sp - Picuda barracuda

Size : Max.: 180 cm; common to 140 cm

Fishing gear : Trolling, gillnets and bottom trawls

Habitat : Found predominantly at or near the surface, but has been taken as deep as 100 m; diurnal and solitary, but can be found in small schools, the adults in the open sea or around reefs, the juveniles sometimes common in mangrove swamps and estuaries



Sphyraena forsteri Cuvier, 1829

Synonyms : None

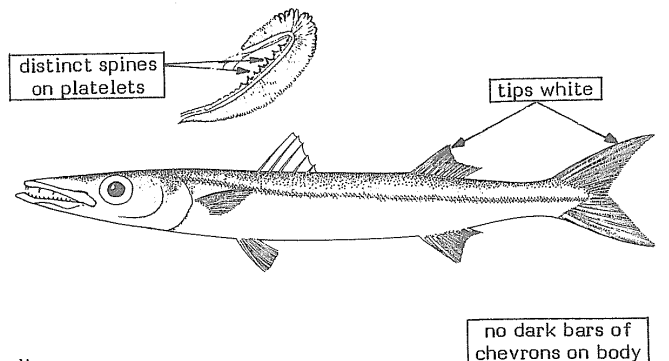
Loc. names : Msusa

FAO names : En - Bigeye barracuda
Fr - Bécune de Forster
Sp - Picuda de Forster

Size : Max.: 64 cm; common to 30 cm

Fishing gear : Trolling and bottom trawls

Habitat : Found close to shore or over shallow banks, frequently near the bottom; mainly nocturnal and solitary



BONY FISHES

SPHYRAENIDAE

Sphyraena jello Cuvier, 1829

Synonyms : None

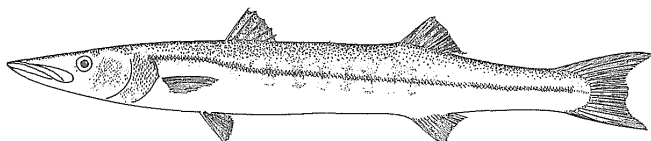
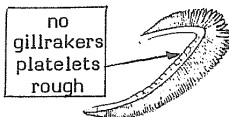
Loc. names : Msusa (to about 50 cm TL)
Mzia (over 50 cm TL)

FAO names : En - Pickhandle barracuda
Fr - Barracuda jello
Sp - Picuda serpentina

Size : Max.: 150 cm; common to 100 cm

Fishing gear : Trolling, gillnets and bottom trawls

Habitat : At or near the surface, at the edges of the reefs and over shallow banks



Sphyraena obtusata Cuvier, 1829

Synonyms : Sphyraena chrysotaenia Klunzinger, 1884
Sphyraenella chrysotaenia: Dutt & Seshagiri Rao, 1967

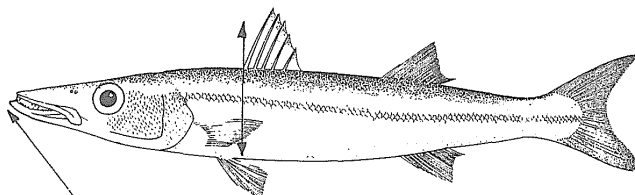
Loc. names : Msusa

FAO names : En - Obtuse barracuda
Fr - Bécune obtuse
Sp - Picuda obtusa

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Seines, bottom trawls and trolling

Habitat : Near the surface and just off the bottom



no dark bars of chevrons on body

Sphyraena putnamiae Jordan & Seale, 1905

Synonyms : Sphyraena bleekeri Williams, 1959

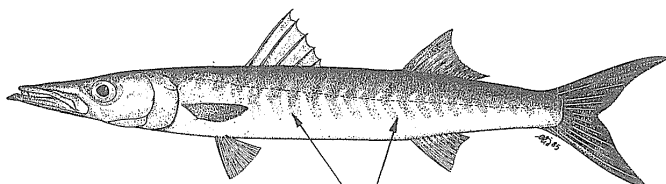
Loc. names : Mzia

FAO names : En - Chevron barracuda
Fr - Bécune chevronnée
Sp - Picuda galoneada

Size : Max.: 90 cm

Fishing gear : Seines, bottom trawls and trolling

Habitat : Schooling, near the surface; primarily nocturnal



BONY FISHES

Sphyraena flavicauda Rüppel, 1838

2 gillrakers

SPHYRAENIDAE

Synonyms : None

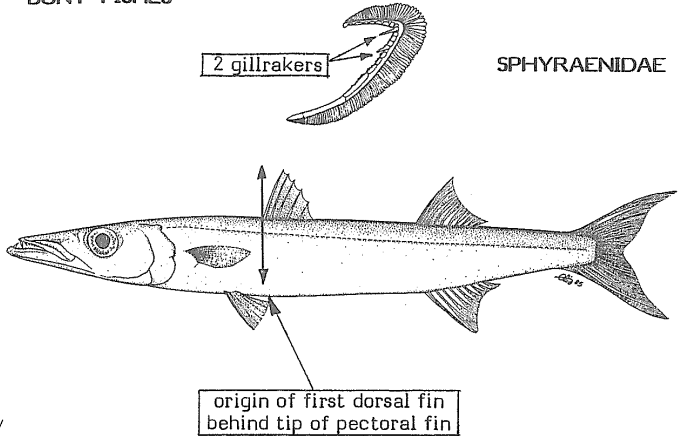
Loc. names : Mzia

FAO names : En - Yellow-tail barracuda
Fr - Bécune queue jaune
Sp - Picuda rabo amarillo

Size : Max.: 45 cm

Fishing gear : Seines, bottom trawls, trolling

Habitat : Close to the surface, on sandy bottoms



Polynemus indicus Shaw, 1804

POLYNEMIDAE

Synonyms : Polydactylus indicus (Shaw, 1804)

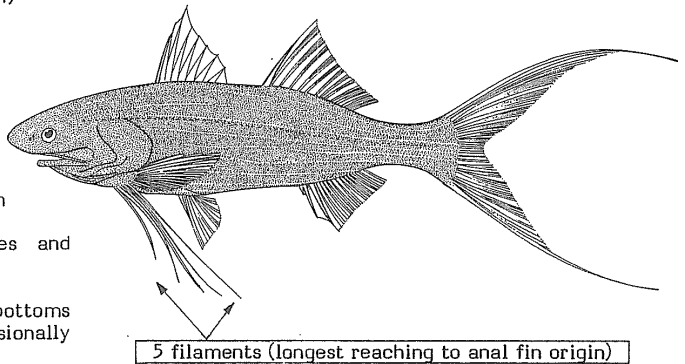
Loc. names : Kupe
Mkizi komo maji

FAO names : En - Indian threadfin
Fr - Barbure indien
Sp - Barbudo indio

Size : Max.: 142 cm; common to 80 cm

Fishing gear : Beach seines, traps, longlines and bottom trawls

Habitat : Shallow muddy and sandy bottoms of the continental shelf, occasionally entering rivers



Polynemus plebeius Broussonet, 1782

Synonyms : Polydactylus plebeius (Broussonet, 1782)

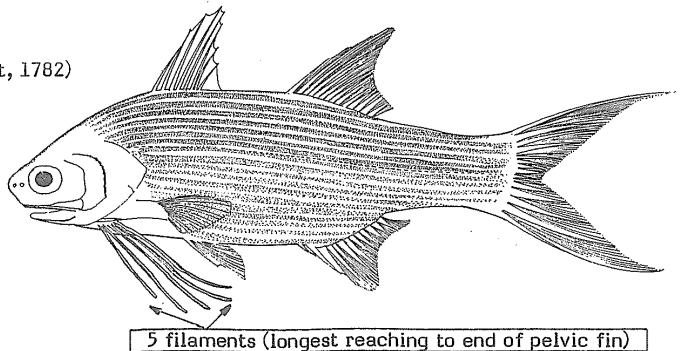
Loc. names : Kupe
Mkizi komo maji

FAO names : En - Striped threadfin
Fr - Barbure rayé
Sp - Barbudo rayado

Size : Max.: 45 cm; common to 30 cm

Fishing gear : Beach seines and bottom trawls

Habitat : Shallow muddy bottoms of the continental shelf



BONY FISHES

Polynemus sextarius Bloch & Schneider, 1801

POLYNEMIDAE

Synonyms : Polydactylus sextarius (Bloch & Schneider, 1801)

Loc. names : Kupe
Mkizi komo maji

FAO names : En - Blackspot threadfin
Fr - Barbure tache noire
Sp - Barbudo de mancha

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Beach seines and bottom trawls

Habitat : Shallow sandy shores and estuaries

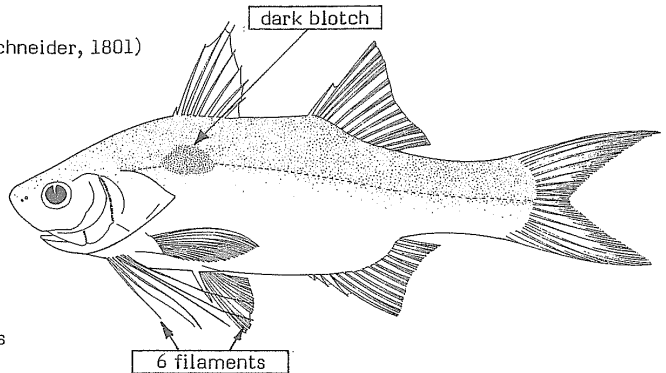


PLATE XXVI, 152

Bodianus bilunulatus bilunulatus (Lacepède, 1801)

LABRIDAE

Synonyms : Lepidaplois bilunulatus
Lepidaplois hirsutus (Lacepède, 1801)

Loc. names : Pono

FAO names : En - Tarry hogfish
Fr - Vielle à selle noire
Sp - Vieja ensillada

Size : Max.: to 50 cm

Fishing gear : Hook-and-line

Habitat : Around offshore reefs from 8 to 160 m depth

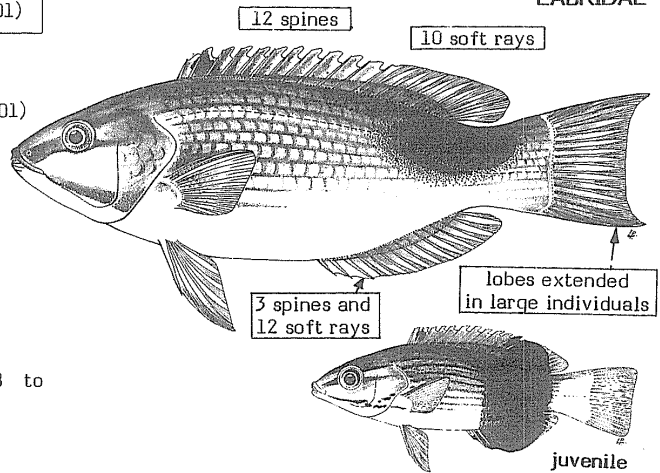


PLATE XXVI, 153

Cheilinus undulatus Rüppell, 1824

Synonyms : None

Loc. names : Pono-ngombe
Ponomchriwi/Gumberi/Ghawi

FAO names : En - Humphead wrasse
Fr - Napoléon
Sp - Napoleón

Size : Max.: to 200 cm

Fishing gear : Hook-and-line and spears

Habitat : Reef areas at around 30 m depth

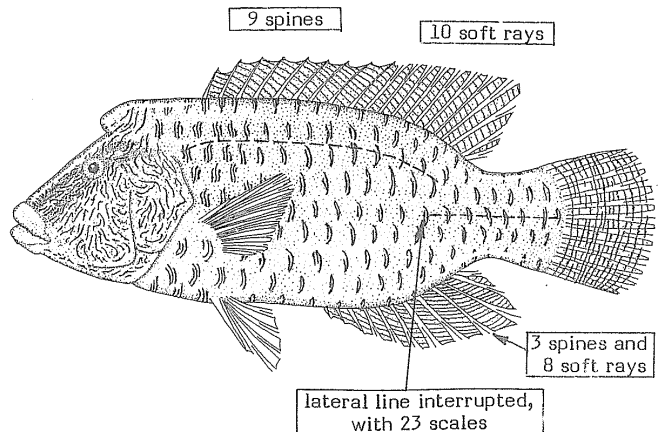


PLATE XXVII, 158

BONY FISHES

Cheilio inermis (Forsskål, 1775)

LABRIDAE

Synonyms : None

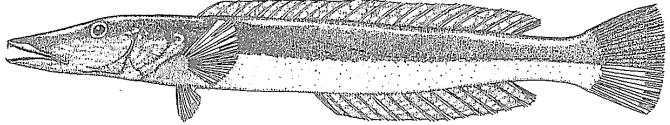
Loc. names : Mbooyamvuvi/Mgema

FAO names : En - Cigar wrasse
Fr - Longue girelle
Sp - Julia larguirucha

Size : Max.: to 50 cm

Fishing gear : Hook-and-line, spears and beach seines

Habitat : In shallow waters to 10 m depth, near reefs and weedy areas



46 to 48 scales
in lateral line

PLATE XXVII, 159

Coris aygula Lacepède, 1801

Synonyms : Coris angulata Lacepède, 1801

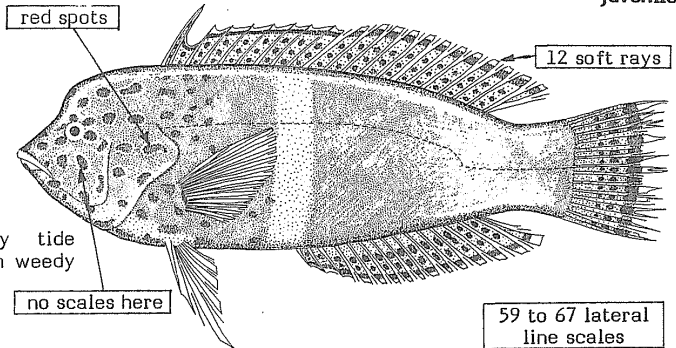
Loc. names : Pono

FAO names : En - Clown wrasse
Fr - Clarisse clown
Sp - Doncella circense

Size : Max.: to 110 cm

Fishing gear : Hook-and-line and spears

Habitat : Juveniles' in shallow rocky tide pools, adults to 20 m depth, in weedy rock or coral areas



juvenile

59 to 67 lateral
line scales

PLATE XXVII, 160, 161

Epibulus insidiator (Pallas, 1770)

Synonyms : None

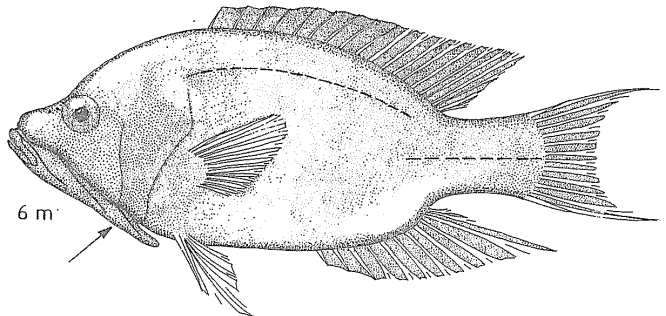
Loc. names : Pono

FAO names : En - Sling-jaw wrasse
Fr - Epibule gourami
Sp - Vieja guaní

Size : Max.: to 54 cm

Fishing gear : Spears

Habitat : Shallow reef areas, to about 6 m depth



juvenile

BONY FISHES

LABRIDAE

Hemigymnus melapterus (Bloch, 1791)

Synonyms : None

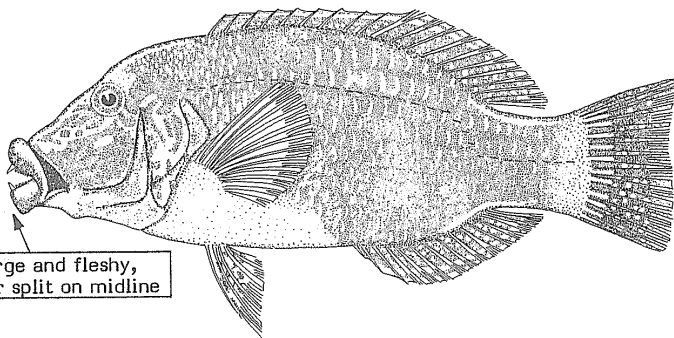
Loc. names : Pono

FAO names : En - Blackeye thicklip
Fr - Tamarin vert
Sp - Tamarín verde

Size : Max.: to 50 cm

Fishing gear : Spears

Habitat : Coral reefs, to 20 m depth



Hologymnosus annulatus (Lacepède, 1801)

Synonyms : Hologymnosus semidiscus

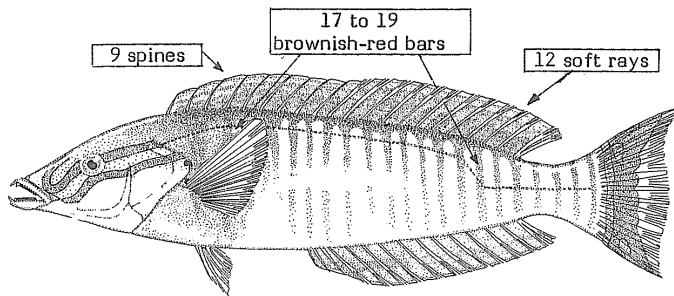
Loc. names : Pono

FAO names : En - Ring wrasse
Fr - Colombine annelée
Sp - Colombina anillada

Size : Max.: about 38 cm

Fishing gear : Hook-and-line

Habitat : Coral reefs and rocks, to 30 m depth



97 to 112 lateral line scales

Novaculichthys taeniourus (Lacepède, 1801)

Synonyms : Hemipteronotus taeniourus Lacepède, 1801
Novaculichthys bifer (Lay & Bennett, 1939)

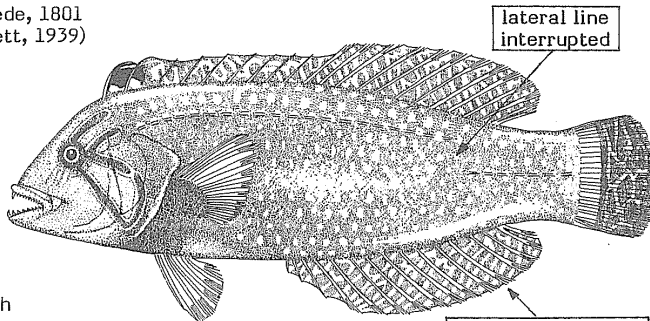
Loc. names : Pono

FAO names : En - Rockmover wrasse
Fr - Rason algue
Sp - Doncella alguera

Size : Max.: to 30 cm

Fishing gear : Hook-and-line and spears

Habitat : Shallow weedy areas, to 25 m depth



BONY FISHES

Pseudodax moluccanus (Valenciennes, in Cuv. & Val., 1839)

LABRIDAE

Synonyms : None

Loc. names : Pono

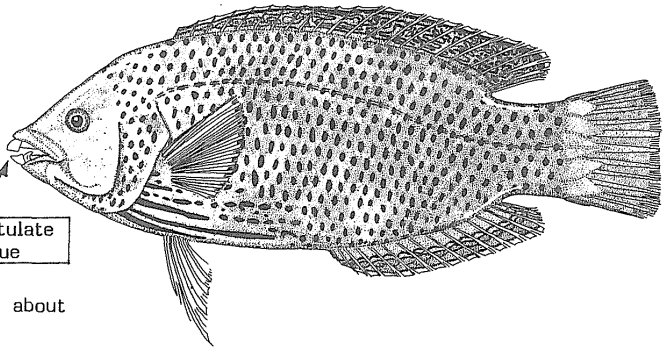
FAO names : En - Chiseltooth wrasse
Fr - Vieille ciseau
Sp - Vieja cuchilla

Size : Max.: to 30 cm

Fishing gear : Spears

Habitat : Rocky and coral reef areas to about 60 m depth

teeth spatulate
and blue



Thalassoma purpureum (Forsskal, 1775)

Synonyms : None

Loc. names : Pono

FAO names : En - Surge wrasse
Fr - Girelle hublot
Sp - Doncella de mareas

Size : Max.: 46 cm

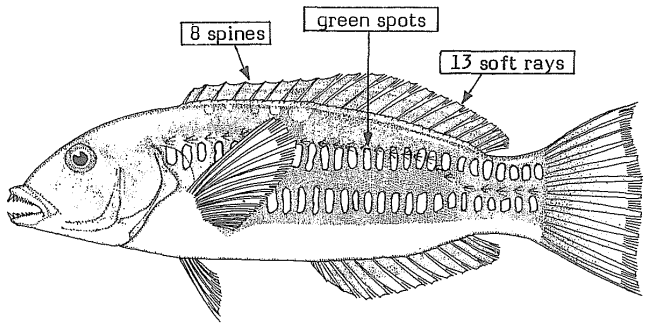
Fishing gear : Hook-and-line

Habitat : Near reef flats from very shallow waters to about 10 m depth

8 spines

green spots

13 soft rays



26 lateral line scales

PLATE XXVIII, 168 PLATE XXIX, 169

Xyrichtys pavo (Valenciennes, in Cuv. & Val., 1839)

Synonyms : Iniistius pavo; Hemipteronotus pavo;
Xyrichtys pavoninus

Loc. names : Pono

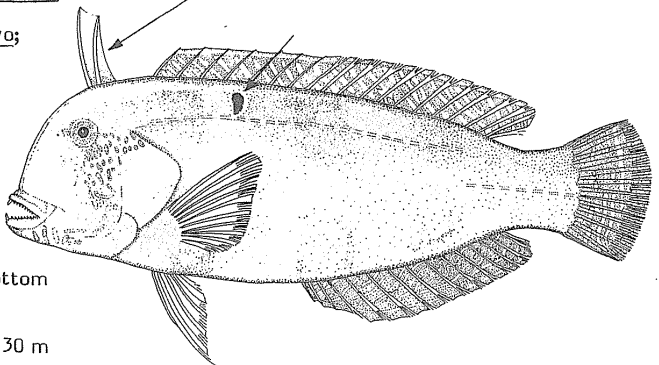
FAO names : En - Peacock wrasse
Fr - Rason paon
Sp - Cuchillo pavo real

Size : Max.: to 30 cm

Fishing gear : Hook-and-line, occasionally bottom trawls

Habitat : Sandy bottoms to at least 30 m depth

first 2 spines separated
from rest of fin

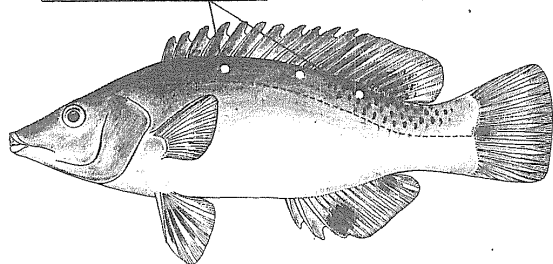


BONY FISHES

LABRIDAE

3 or 4 white spots

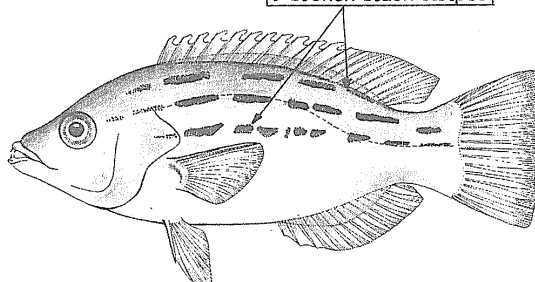
Other species of Labridae



Bodianus diana (Lacepède, 1801)

Diana's hogfish
size: to 25 cm

3 broken black stripes

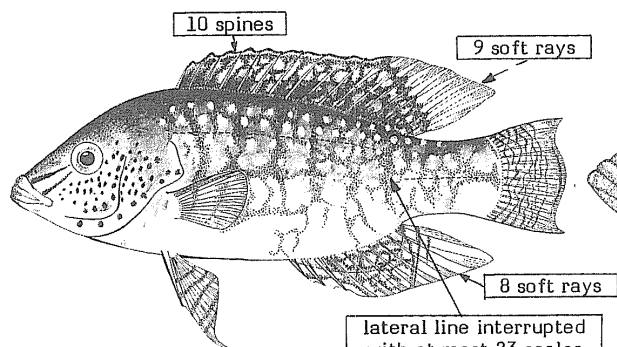


Bodianus trilineatus (Fowler, 1934)

Threeline hogfish
size: to 25 cm

10 spines

9 soft rays



Cheilinus chlorurus (Bloch, 1791)

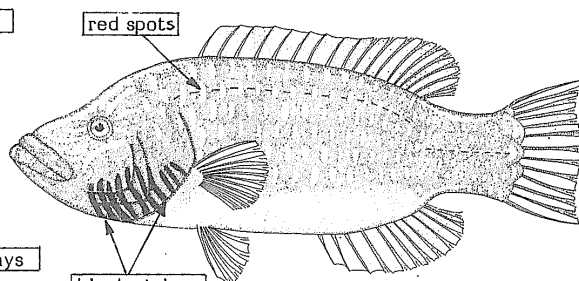
Floral wrasse
size: to 30 cm

8 soft rays

lateral line interrupted
with at most 23 scales

PLATE XXVI, 154

red spots

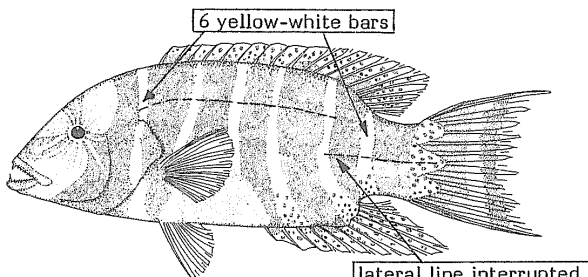


Cheilinus diagrammus (Lacepède, 1801)

Cheeklined wrasse
size: to 37 cm

PLATE XXVI, 155

6 yellow-white bars



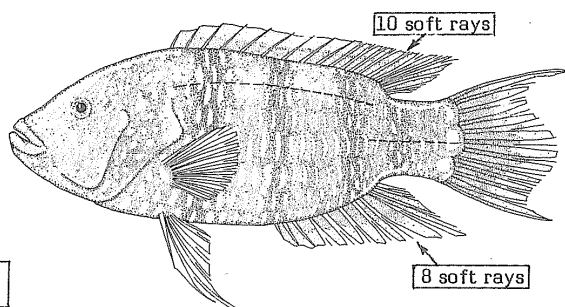
Cheilinus fasciatus Bloch, 1791

Red breasted wrasse
size: to 40 cm

PLATE XXVI, 156

lateral line interrupted
with at most 23 scales

10 soft rays



Cheilinus trilobatus Lacepède, 1801

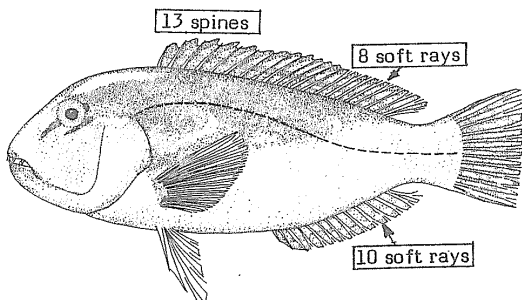
Tripletail wrasse
size: to 40 cm

PLATE XXVII, 157

8 soft rays

13 spines

8 soft rays

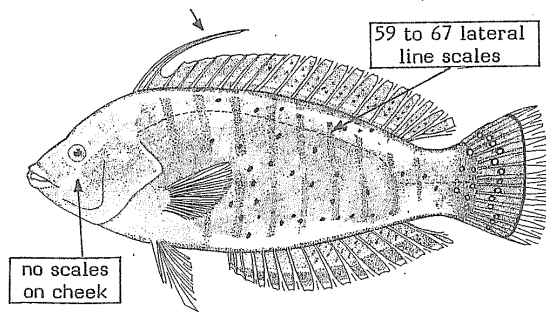


Choerodon robustus (Günther, 1862)

Robust tuskfish
size: to 28 cm

10 soft rays

59 to 67 lateral
line scales



Coris formosa (Bennett, 1830)

Queen coris
size: to 60 cm

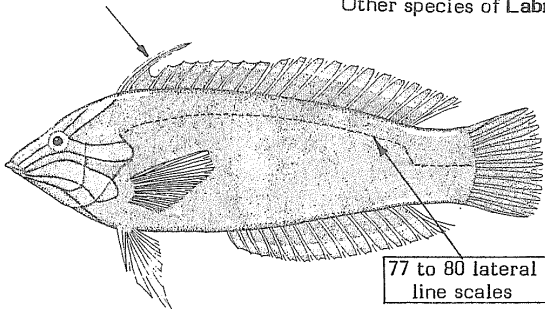
PLATE XXVII, 162

no scales
on cheek

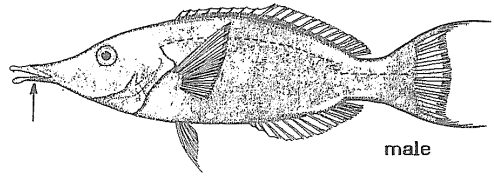
BONY FISHES

Other species of Labridae

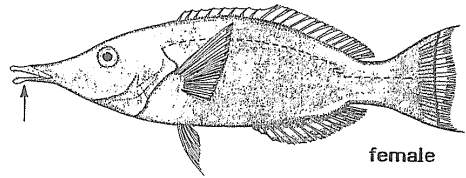
LABRIDAE



Coris gaimard africana Smith, 1957
African coris
size: to 40 cm
77 to 80 lateral line scales

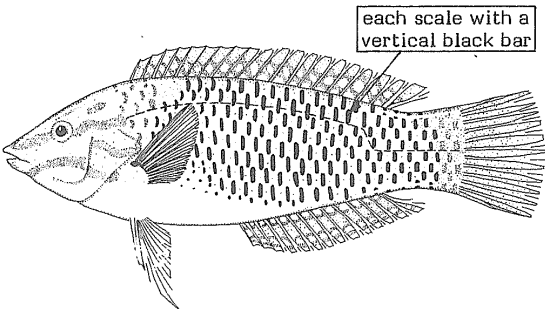


male

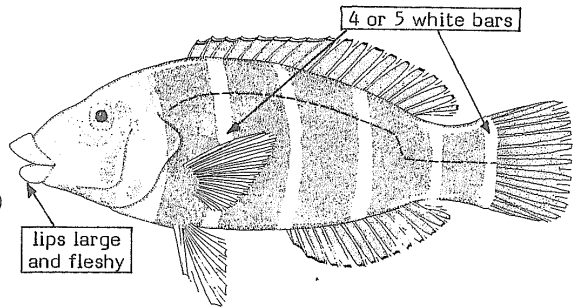


female

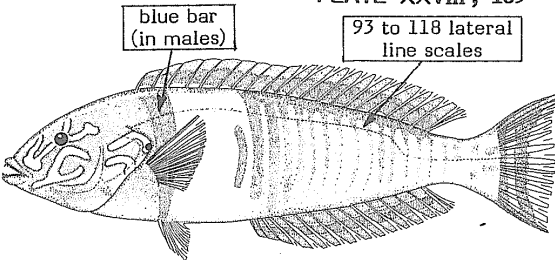
Gomphosus coeruleus Lacepède, 1801
Bird wrasse
size: to 30 cm
PLATE XXVIII, 164



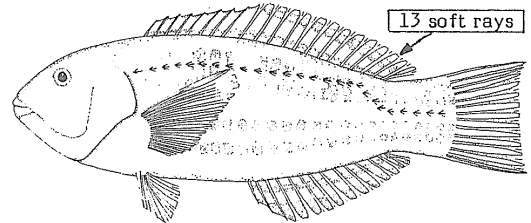
Halichoeres hortulanus centiquadrus (Lacepède, 1801)
Checkerboard wrasse
size: to about 26 cm
each scale with a vertical black bar
PLATE XXVIII, 165



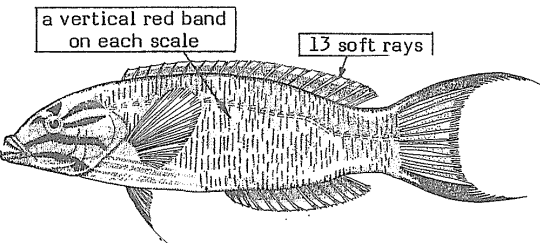
Hemigymnus fasciatus (Bloch, 1792)
Barred thicklip
size: to 40 cm
4 or 5 white bars
lips large and fleshy



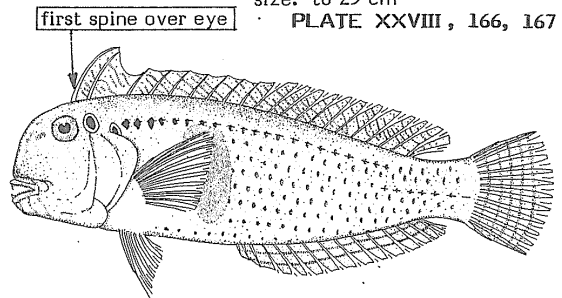
Hologymnosus doliatus (Lacepède, 1801)
Pastel wrasse
size: to 37 cm
blue bar (in males)
93 to 118 lateral line scales



Thalassoma fuscum (Lacepède, 1801)
Christmas wrasse
size: to 25 cm
13 soft rays



Thalassoma lunare (Linnaeus, 1758)
Moon wrasse
size: to 30 cm
a vertical red band on each scale
13 soft rays



Xyrichtys pentadactylus (Linnaeus, 1758)
Five-finger wrasse
size: to 25 cm
first spine over eye
PLATE XXVIII, 166, 167

BONY FISHES

SCARIDAE

Bolbometopon muricatum (Valenciennes, 1840)

Synonyms : None

Loc. names : Pono

FAO names : En - Green humphead parrotfish
Fr - Perroquet bossu vert
Sp - Loro cototo verde

Size : Max.: 120 cm

Fishing gear : Harpoons

Habitat : Coral reef areas

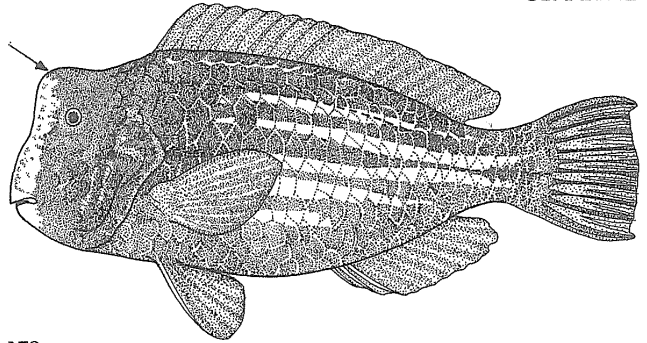


PLATE XXIX, 170

Calotomus carolinus (Valenciennes, 1840)

Synonyms : Calotomus spinidens by Schultz, 1958, 1969
Calotomus sandwicensis (Valenciennes, 1840)

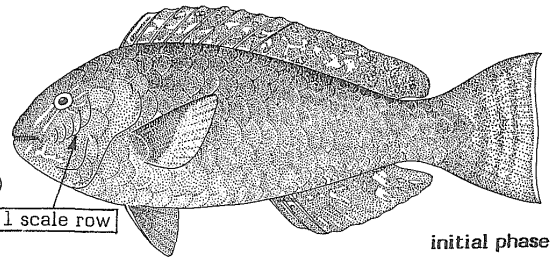
Loc. names : Pono

FAO names : En - Carolines parrotfish
Fr - Perroquet des Carolines
Sp - Loro de Carolinas

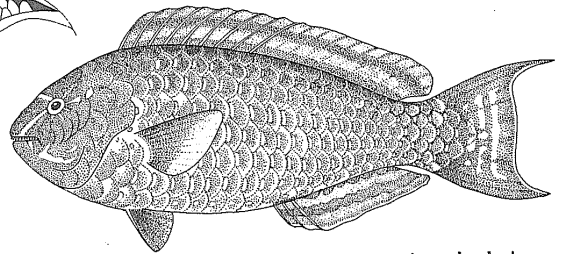
Size : Max.: to about 40 cm

Fishing gear : Traps, nets and other types of artisanal gear

Habitat : Shallow waters, around seagrass beds and coral reefs



initial phase



terminal phase

PLATE XXIX, 171, 172

Cetoscarus bicolor (Rüppell, 1828)

Synonyms : Bolbometopon bicolor by Schultz, 1969

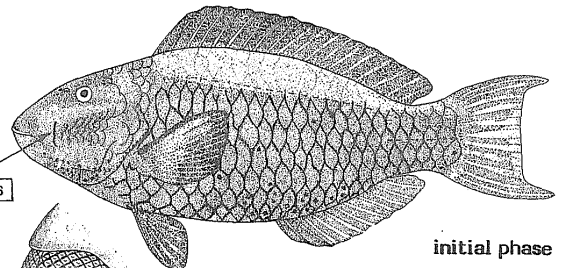
Loc. names : Pono

FAO names : En - Bicolour parrotfish
Fr - Perroquet à points rouges
Sp - Loro de manchas rojas

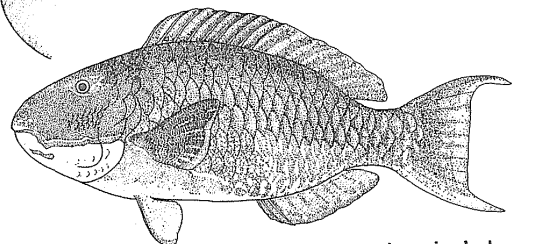
Size : Max.: to about 90 cm

Fishing gear : Traps, nets and other types of artisanal gear

Habitat : Coral reef areas



initial phase



terminal phase

PLATE XXIX, 173, 174

PLATE XXX, 175

BONY FISHES

Hipposcarus harid (Forsskål, 1775)

Synonyms : Hipposcarus harid vexillus Smith, 1959
Scarus harid by Schultz, 1969

Loc. names : Pono

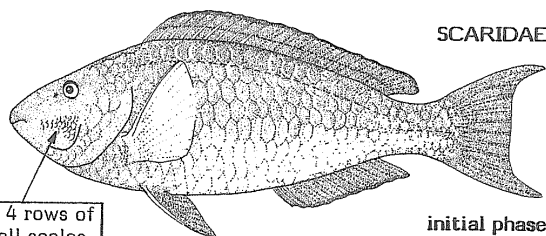
FAO names : En - Candalamoa parrotfish
 Fr - Perroquet candalamoa
 Sp - Loro candalamoa

Size : Max.: to 58 cm

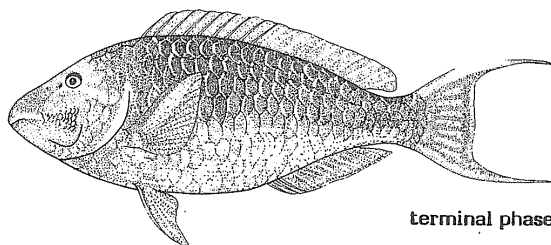
Fishing gear : Traps, nets and other types of artisanal gear

Habitat : Mainly associated with coral reef areas

PLATE XXX, 176, 177



initial phase



terminal phase

Leptoscarus vaiigiensis (Quoy & Gaimard, 1824)

Synonyms : None

Loc. names : Pono

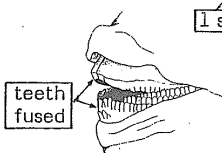
FAO names : En - Marbled parrotfish
 Fr - Perroquet marbré
 Sp - Loro jaspeado

Size : Max.: to about 27 cm

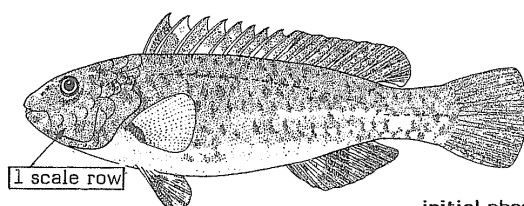
Fishing gear : Traps

Habitat : Seagrass beds, in shallow waters

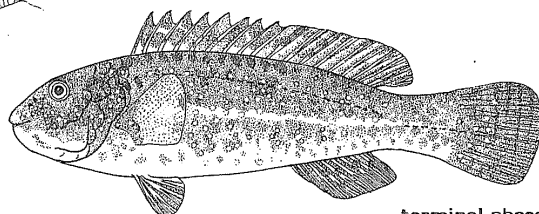
PLATE XXX, 178, 179



teeth fused



initial phase



terminal phase

Scarus ghobban Forsskål, 1775

Synonyms : None

Loc. names : Pono

FAO names : En - Yellowscale parrotfish
 Fr - Perroquet à écailles jaunes
 Sp - Loro de escamas amarillas

Size : Max.: to about 57 cm

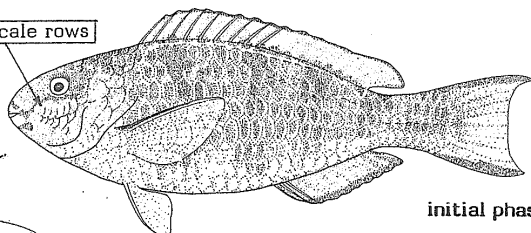
Fishing gear : Traps, nets and other types of artisanal gear

Habitat : Lagoons, creeks and coral reefs

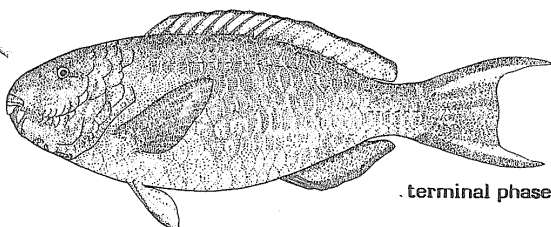
PLATE XXX, 180 PLATE XXXI, 181

2 or 3 scale rows

dental plates smooth



initial phase



terminal phase

BONY FISHES

ACANTHURIDAE

Acanthurus bleekeri Günther, 1861

Synonyms : None

Loc. names : Kangaja

FAO names : En - Bleeker's surgeonfish
Fr - Chirurgien de Bleeker
Sp - Cirujano de Bleeker

Size : Max.: 40 cm; common to 30 cm

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

Habitat : Near coral reefs or rocky bottoms, from 15 m depth

mouth
very small

caudal
peduncle
very narrow

colour: brown, with longitudinal blue lines on head and body; a yellow area behind eye and two yellow bands anteriorly from eye

Acanthurus dussumieri Valenciennes, 1835

Synonyms : None

Loc. names : Kangaja

FAO names : En - Eyestripe surgeonfish
Fr - Chirurgien couronné
Sp - Navajón coronado

Size : Max.: 54 cm; common to 35 cm

Fishing gear : Traps and hook-and-line

Habitat : Coral reefs and rocky substratum; usually deeper than 15 m

yellow

yellow

Acanthurus xanthopterus Valenciennes, 1835

Synonyms : Acanthurus matoides Bleeker, 1850
Acanthurus fuliginosus Lesson, 1830

Loc. names : Kangaja

FAO names : En - Yellowfin surgeonfish
Fr - Chirurgien aile jaune
Sp - Navajón aleta amarilla

Size : Max.: 65 cm; common to 50 cm

Fishing gear :

Habitat : Bays and lagoons, mostly at depths of 10 to 15 m

4 blue bands

whitish band

4 blue bands

BONY FISHES

Ctenochaetus striatus (Quoy & Gaimard, 1824)

ACANTHURIDAE

Synonyms : None

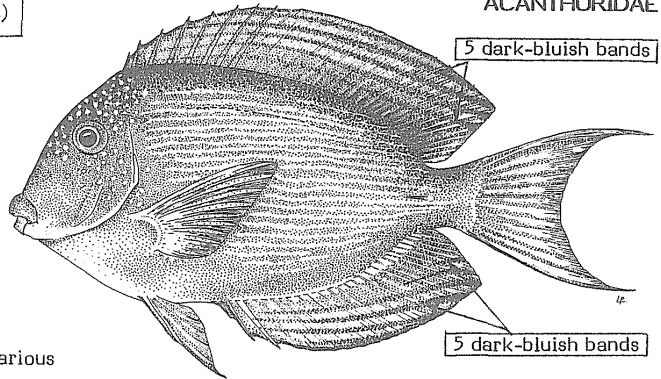
Loc. names : Kangaja

FAO names : En - Striated surgeonfish
Fr - Chirurgien strié
Sp - Cirujano estriado

Size : Max.: 25 cm; common to 18 cm

Fishing gear :

Habitat : From protected lagoons to various reef habitats



Naso hexacanthus (Bleeker, 1855)

Synonyms : None

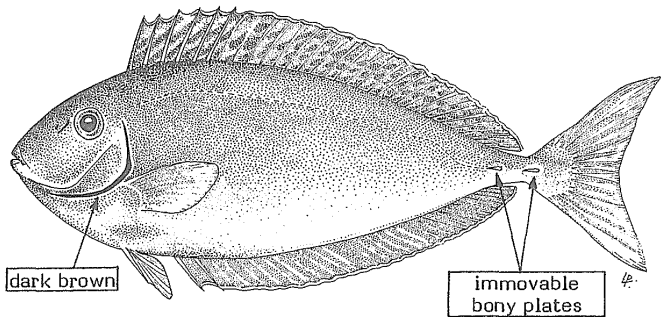
Loc. names : Puju (D)

FAO names : En - Sleek unicornfish
Fr - Nason lisse
Sp - Barbero liso

Size : Max.: 75 cm; common to 50 cm

Fishing gear :

Habitat : Usually deeper than 15 m depth, often in large aggregations



Naso unicornis (Forsskål, 1775)

Synonyms : None

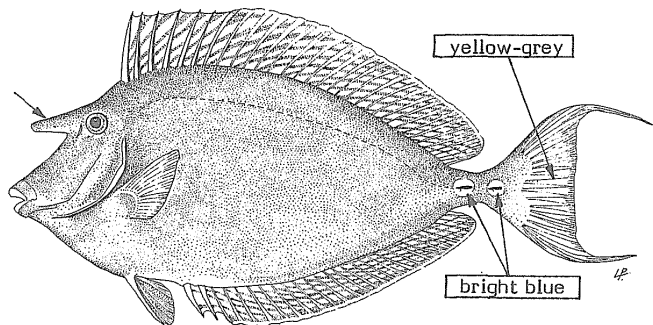
Loc. names : Puju (D)

FAO names : En - Bluespine unicornfish
Fr - Nason à épérons bleus
Sp - Barbero de aguijón azul

Size : Max.: 70 cm; common to 50 cm

Fishing gear :

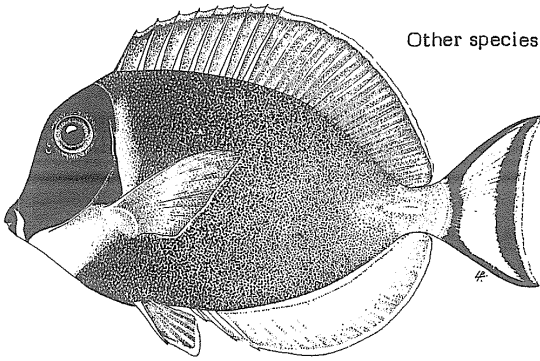
Habitat : Inshore waters, associated with coral reefs and rocky substrata



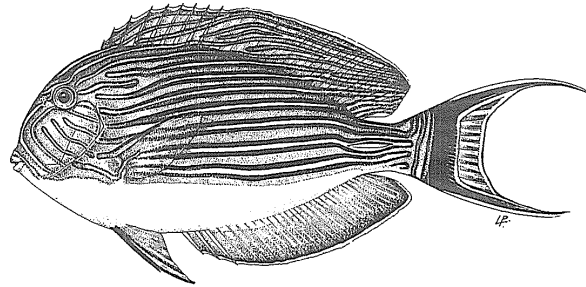
BONY FISHES

Other species of Acanthuridae

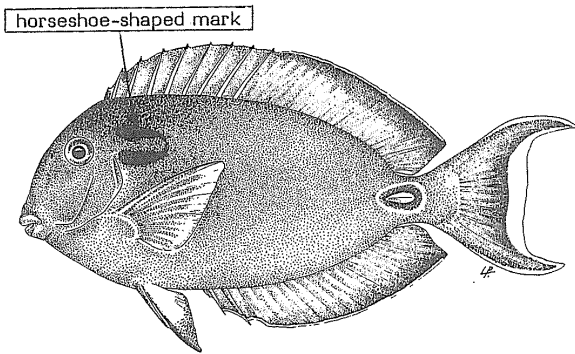
ACANTHURIDAE



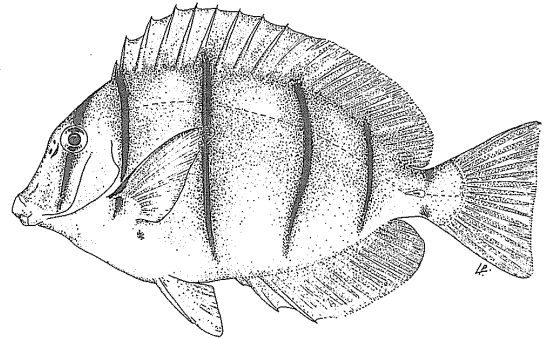
Acanthurus leucosternon Bennett, 1832
Powderblue surgeonfish
size: to 23 cm



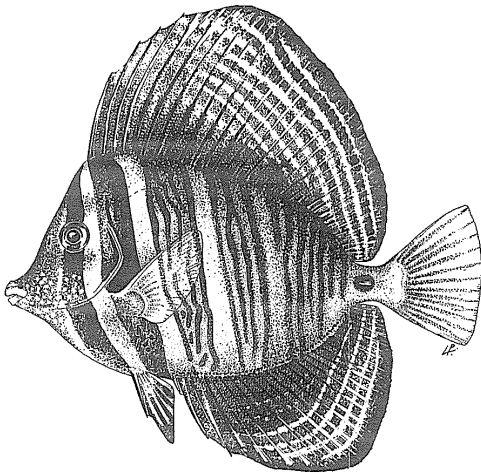
Acanthurus lineatus (Linnaeus, 1758)
Lined surgeonfish
size: to 30 cm



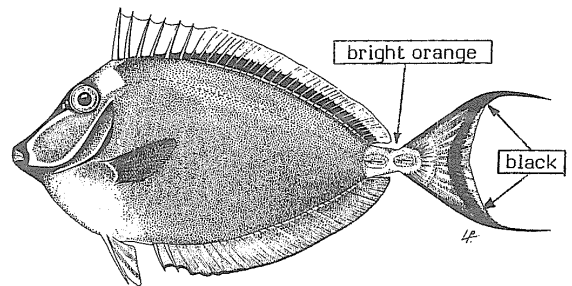
Acanthurus tennentii Günther, 1861
Double-band surgeonfish
size: to 31 cm



Acanthurus triostegus (Linnaeus, 1758)
Convict surgeonfish
size: to 24 cm



Zebrasoma veliferum (Bloch, 1797)
Sailfin tang
size: to 40 cm



Naso lituratus (Bloch & Schneider, 1801)
Orangespine unicornfish
size: to 45 cm

BONY FISHES

Siganus canaliculatus (Park, 1797)

SIGANIDAE

Synonyms : Siganus oramin (Bloch & Schneider, 1801)

Loc. names : Tasi'
Chafi (T)

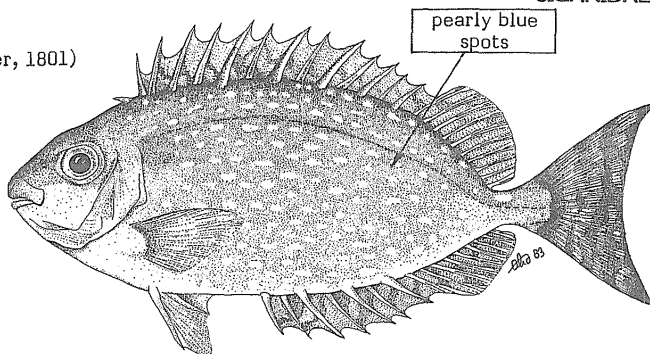
FAO names : En - White-spotted spinefoot
Fr - Sigan pintade
Sp - Sigano pintado

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Bottom trawls and traps

Habitat : Coastal waters to 40 m depth

PLATE XXXI, 183



Siganus luridus (Rüppell, 1828)

Synonyms : Teuthis lurida Rüppell, 1828

Loc. names : Tasi
Chafi (T)

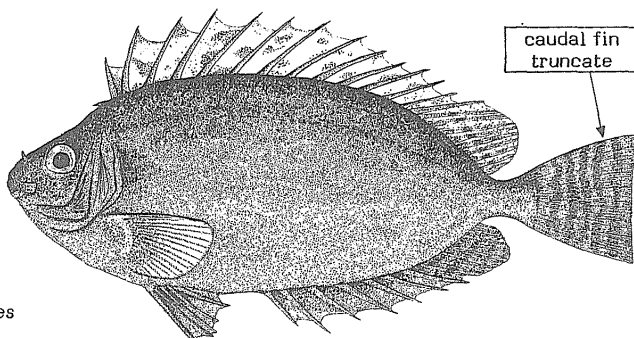
FAO names : En - Dusky spinefoot
Fr - Sigan sombre
Sp - Sigano nebuloso

Size : Max.: 30 cm; common to 20 cm

Fishing gear : Set traps, gillnets and beach seines

Habitat : Coral and rock reefs

PLATE XXXI, 184



Siganus argenteus (Quoy & Gaimard, 1825)

Synonyms : Siganus rostratus (Valenciennes, 1835)

Loc. names : Tasi

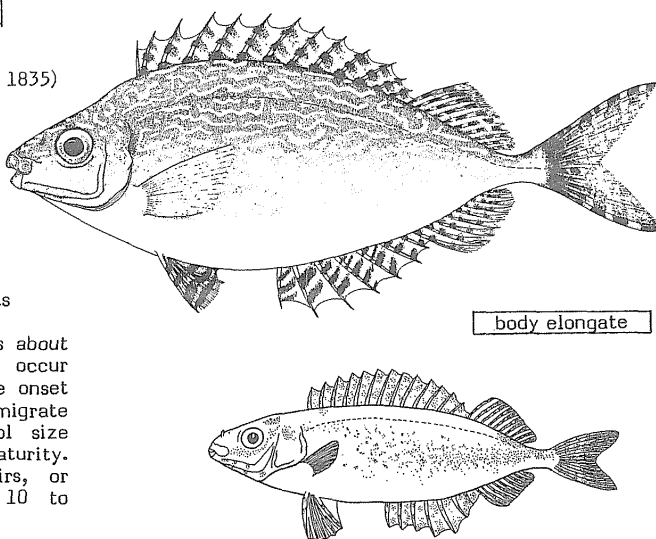
FAO names : En - Streamlined spinefoot
Fr - Sigan vermiculé
Sp - Sigano veteado

Size : Max.: 35 cm; common to 25 cm

Fishing gear : Seines, dipnets, traps and setnets

Habitat : Found in clear tropical waters about coral reefs; prejuveniles occur in very large schools; at the onset of the juvenile stage they migrate onto the reef flats. School size decreases with increasing maturity. Adults occur singly, in pairs, or in small schools of about 10 to 20 individuals

PLATE XXXI, 182



prejuvenile

BONY FISHES

SIGANIDAE

Siganus stellatus (Forsskål, 1775)

Synonyms : Teuthis stellata (Forsskål, 1775)

Loc. names : Tasi; Tasi-muamba

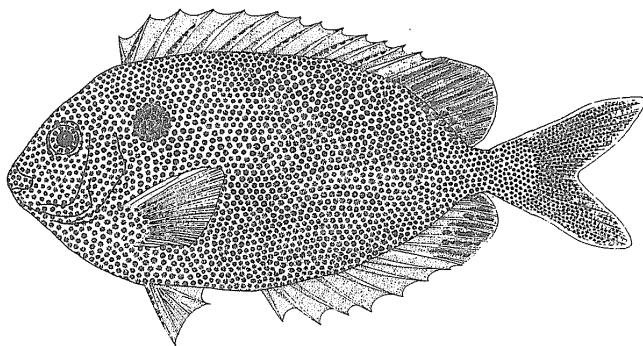
FAO names : En - Brown-spotted spinefoot
Fr - Sigan marguerite
Sp - Sigano margarita

Size : Max.: 40 cm; common to 30 cm

Fishing gear : Set traps and spears

Habitat : Coral reefs

PLATE XXXI, 185



Siganus sutor (Valenciennes, 1835)

Synonyms : None

Loc. names : Tasi

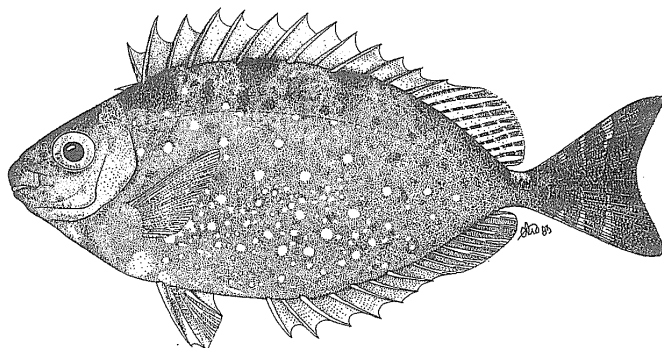
FAO names : En - Shoemaker spinefoot
Fr - Sigan cordonnier
Sp - Sigano zapatero

Size : Max.: 45 cm; common to 30 cm

Fishing gear : Seines, setnets and traps

Habitat : Coral reefs and weedy flats

PLATE XXXI, 186



Acanthocybium solandri (Cuvier, 1831)

SCOMBRIDAE

Synonyms : None

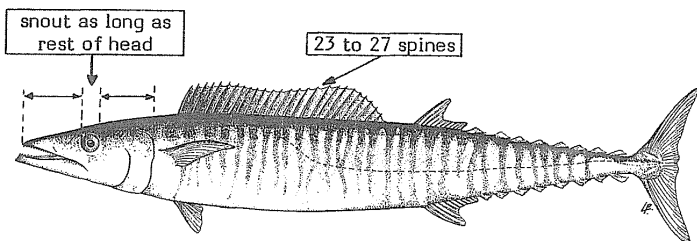
Loc. names : Nguru-maskati (D)
Nguru-ngazija

FAO names : En - Wahoo
Fr - Thazard-bâtard
Sp - Peto

Size : Max.: 211 cm fork length

Fishing gear : Trolling, with spoon feather lure, flying fish or halfbeak

Habitat : Pelagic, often taken well offshore



BONY FISHES

SCOMBRIDAE

Auxis thazard (Lacepède, 1800)

Synonyms : Auxis tapeinosoma Bleeker, 1854
Auxis hira Kishinouye, 1915

Loc. names : Sehewa

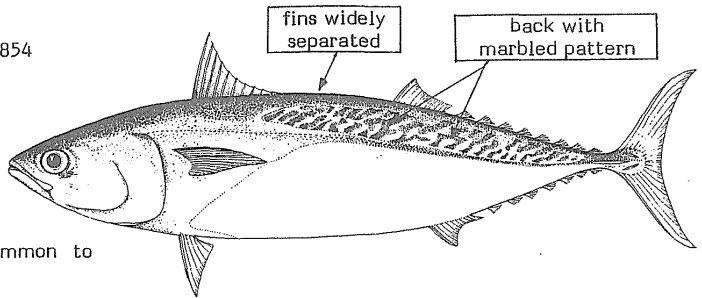
FAO names : En - Frigate tuna
Fr - Auxide
Sp - Melva

Size : Max.: 58 cm fork length; common to 40 cm

Fishing gear : Beach and shore seines

Habitat : Coastal waters

PLATE XXXII, 187



Euthynnus affinis (Cantor, 1849)

Synonyms : Euthynnus yaito Kishinouye, 1915

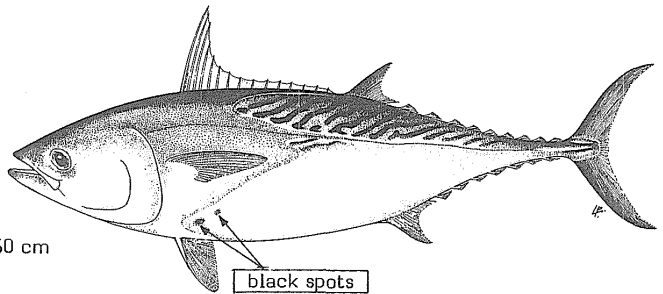
Loc. names : Sehewa (D)
Jodari (D)(M)

FAO names : En - Kawakawa
Fr - Thonine orientale
Sp - Bacoreta oriental

Size : Max.: about 100 cm; common to 60 cm

Fishing gear : Trolling and gillnets

Habitat : Coastal waters and around offshore islands



Gymnosarda unicolor (Rüppell, 1838)

Synonyms : Gymnosarda nuda (Günther, 1860)

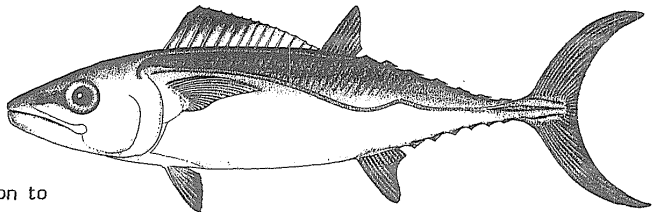
Loc. names : Jodari

FAO names : En - Dogtooth tuna
Fr - Bonite à gros yeux
Sp - Casarte ojon

Size : Max.: 110 cm fork length; common to 80 cm

Fishing gear : Pole and line

Habitat : An offshore species found mainly around corals



BONY FISHES

SCOMBRIDAE

Katsuwonus pelamis (Linnaeus, 1758)

Synonyms : Euthynnus pelamis (Linnaeus, 1758)

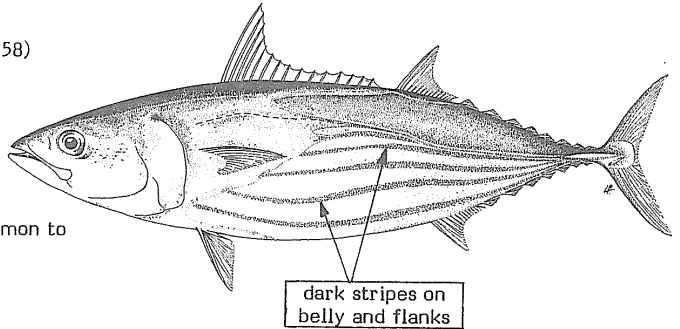
Loc. names : Zunuba

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

Size : Max.: 100 cm fork length; common to 80 cm

Fishing gear : Purse seines and trolling

Habitat : Occurs in large schools, generally above the thermocline



Rastrelliger kanaqurta (Cuvier, 1817)

Synonyms : Rastrelliger chrysozonus (Rüppell, 1836)

Loc. names : Kibua (pl.Vibua)(D)
Bangra (T); Machogololi

FAO names : En - Indian mackerel
Fr - Maquereau des Indes
Sp - Caballa de la India

Size : Max.: 35 cm; common to 25 cm

Fishing gear : Purse seines

Habitat : Coastal, pelagic, often in large schools

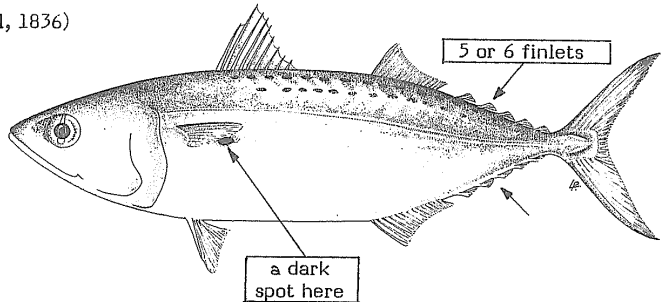


PLATE XXXII, 188

Sarda orientalis (Temminck & Schlegel, 1844)

Synonyms : None

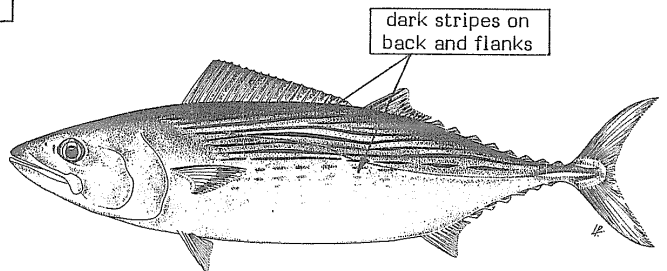
Loc. names :

FAO names : En - Striped bonito
Fr - Bonite oriental
Sp - Bonito mono

Size : Max.: 102 cm; common to 50 cm

Fishing gear : Pole and line and purse seines

Habitat : Coastal waters; also found around islands



BONY FISHES

Scomber japonicus Houttuyn, 1782

SCOMBRIDAE

Synonyms : Pneumatophorus colias (Gmelin, 1789)
Scomber colias Gmelin, 1789

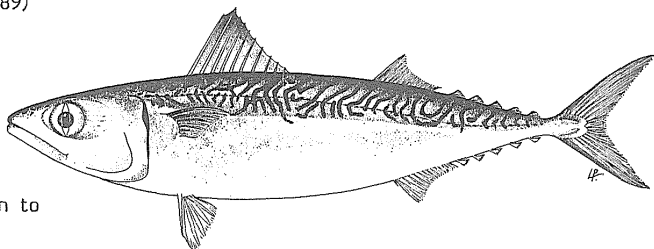
Loc. names :

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

Size : Max.: 50 cm fork length; common to 30 cm

Fishing gear : Purse seines; also by trolling, in gill-nets and traps

Habitat : A schooling pelagic species, mostly in coastal waters



Scomberomorus commerson (Lacepède, 1801)

Synonyms : Cybium commersoni (Lacepède, 1801)

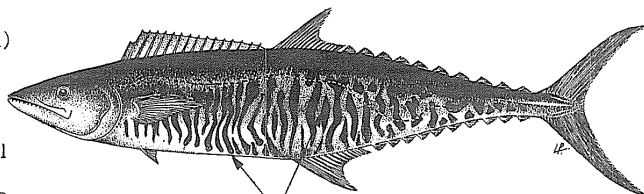
Loc. names : Nguru (D)
Nguru-maskati

FAO names : En - Narrow-barred Spanish mackerel
Fr - Thazard rayé (Indo-Pacifique)
Sp - Carite estriado del Indo-Pacífico

Size : Max.: 220 cm; common to 90 cm

Fishing gear : Drift gillnets and trolling

Habitat : Pelagic, between 15 and 200 m; found in small schools



vertical dark bars
(juveniles spotted)

PLATE XXXII, 189

Scomberomorus plurilineatus Fourmanoir, 1966

Synonyms : Scomberomorus leopardus (Shaw, 1803)

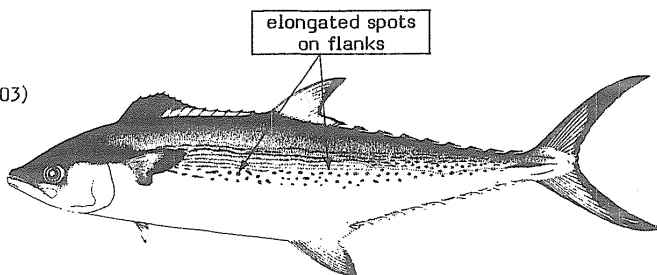
Loc. names : Nguru-kanadi

FAO names : En - Kanadi kingfish
Fr - Thazard kanadi
Sp - Carite canadi

Size : Max.: 120 cm; common to 80 cm

Fishing gear : Gillnets, trolling and handlines

Habitat : Coastal waters



elongated spots
on flanks

BONY FISHES

SCOMBRIDAE

Thunnus alalunga (Bonnaterre, 1788)

Synonyms : Germo alalunga (Bonnaterre, 1788)
Thunnus germo (Lacepède, 1800)

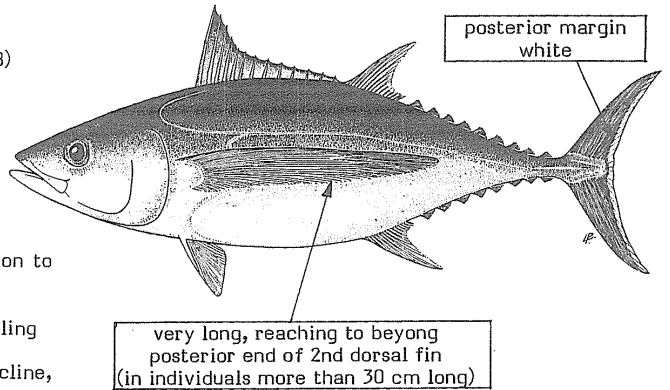
Loc. names : Jodari

FAO names : En - Albacore
Fr - Germon
Sp - Atún blanco (= Albacora)

Size : Max.: 120 cm fork length; common to 100 cm

Fishing gear : Purse seines, longlines and by trolling

Habitat : Oceanic, found above the thermocline, between 17° and 21°C



Thunnus albacares (Bonnaterre, 1788)

Synonyms : Neothunnus macropterus (Temminck & Schlegel, 1844)
Neothunnus albacora (Lowe, 1839)
Thynnus argentivittatus (Cuvier, 1831)

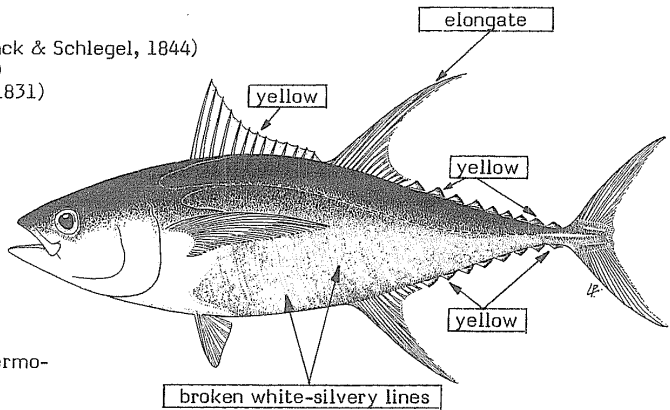
Loc. names : Jodari

FAO names : En - Yellowfin tuna
Fr - Albacore
Sp - Rabil

Size : Max.: 195 cm; common to 150 cm

Fishing gear : Longlines and purse seines

Habitat : Oceanic, above and below the thermocline



Thunnus obesus (Lowe, 1839)

Synonyms : Parathunnus mebachi Kishinouye, 1923
Parathunnus sibi (Temminck & Schlegel, 1844)

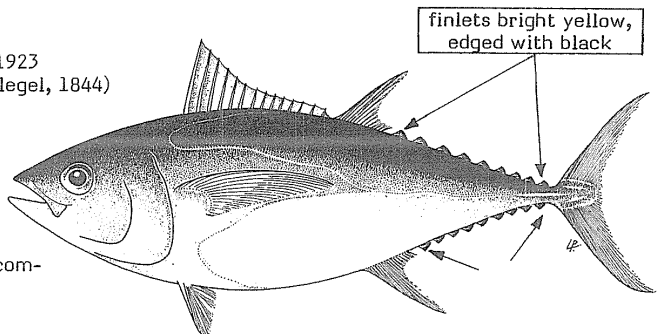
Loc. names : Jodari

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

Size : Max.: over 200 cm fork length; common to 180 cm

Fishing gear : Longlines and purse seines

Habitat : A pelagic species, from the surface to 250 m depth



BONY FISHES

Thunnus tonggol (Bleeker, 1851)

SCOMBRIDAE

Synonyms : Kishinoella tonggol (Bleeker, 1851)

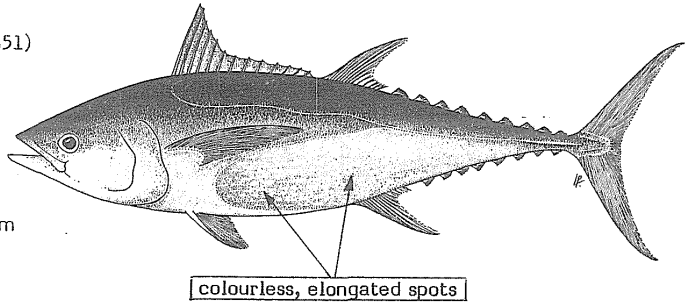
Loc. names : Jodari

FAO names : En - Longtail tuna
Fr - Thon mignon
Sp - Atún tongol

Size : Max.: 190 cm; common to 70 cm

Fishing gear : Longlines

Habitat : A largely coastal species but avoids low salinity areas near mouths of large rivers.



Trichiurus lepturus Linnaeus, 1758

TRICHIURIDAE

Synonyms : Trichiurus haumela (Forsskål, 1775)
Trichiurus lepturus japonicus Temminck & Schlegel, 1844
Trichiurus japonicus Bleeker, 1857
Trichiurus coxii Ramsay & Ogilby, 1887

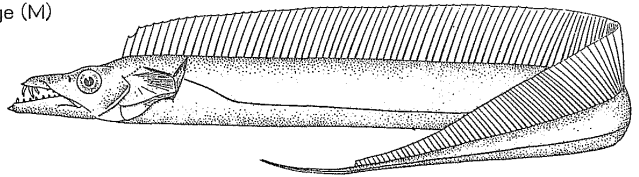
Loc. names : Antepa (D); Mkonge-kuti (T); Mkonge (M)
Mkonge-bahari (T); Susu

FAO names : En - Largehead hairtail
Fr - Poisson sabre commun
Sp - Pez sable

Size : Max.: 120 cm; common to 100 cm

Fishing gear : Seines and bottom trawls

Habitat : Benthopelagic, in coastal waters to 100 m depth; often comes to the surface at night



Xiphias gladius Linnaeus, 1758

XIPHIIDAE

Synonyms : Xiphias estara Phillipps, 1932
Xiphias gladius estara: Whitley, 1968

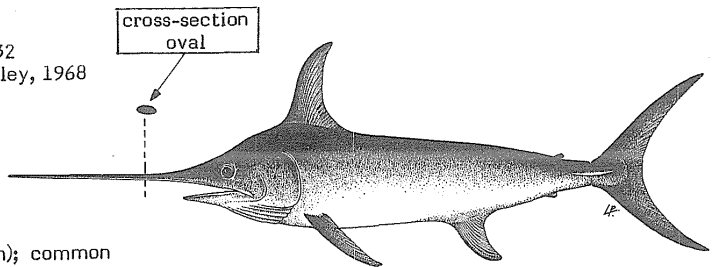
Loc. names : Sansuli/Nduwalo

FAO names : En - Swordfish
Fr - Espadon
Sp - Pez espada

Size : Max.: 444 cm (total length); common to 300 cm

Fishing gear : Longlines and harpooning, surface gill-nets or by trolling

Habitat : Epipelagic, mainly oceanic but sometimes in coastal waters as well



BONY FISHES

ISTIOPHORIDAE

Istiophorus platypterus (Shaw & Nodder, 1792)

Synonyms : Istiophorus gladius (Bloch, 1793)
Histiophorus gladius (Bloch, 1793)
Histiophorus orientalis Temminck & Schlegel, 1844
Istiophorus orientalis (Temminck & Schlegel, 1844)

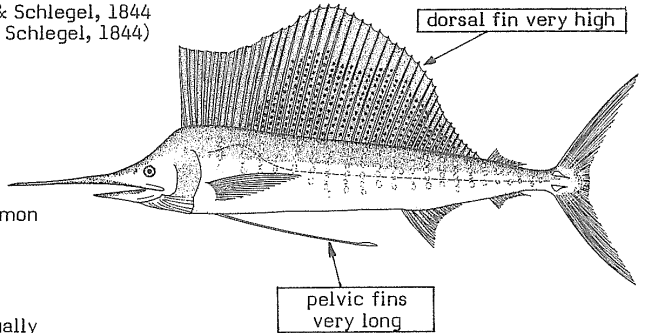
Loc. names :

FAO names : En - Sailfish
Fr - Voilier
Sp - Pez vela

Size : Max.: 320 cm (total length); common to 270 cm

Fishing gear : Longlines, setnets and trolling

Habitat : Oceanic, epipelagic migratory, usually above the thermocline



Makaira indica (Cuvier, 1832)

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

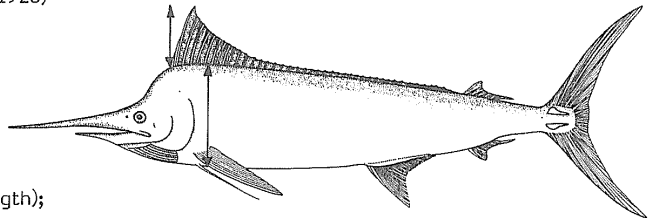
Loc. names : Nduwalo (D)

FAO names : En - Black marlin
Fr - Makaïre noir
Sp - Aguja negra

Size : Max.: about 460 cm (total length); common to 380 cm

Fishing gear : Longlines, trolling, setnets and sometimes harpooning

Habitat : Oceanic, highly migratory and epipelagic, usually above the thermocline



Makaira mazara (Jordan & Snyder, 1901)

Synonyms : Eumakaira nigra Hirasaka & Nakamura, 1947
Makaira nigricans: misidentification or misuse (this scientific name should probably be used for the Atlantic blue marlin)

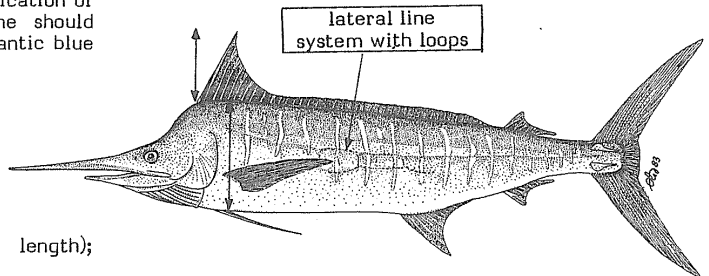
Loc. names : Nduwalo (D)/Samsuli

FAO names : En - Blue marlin
Fr - Makaïre bleu
Sp - Aguja azul

Size : Max.: about 430 cm (total length); common to 350 cm

Fishing gear : Longlines and trolling

Habitat : Oceanic, highly migratory and epipelagic, usually above the thermocline



BONY FISHES

Tetrapturus angustirostris Tanaka, 1915

ISTIOPHORIDAE

Synonyms : None

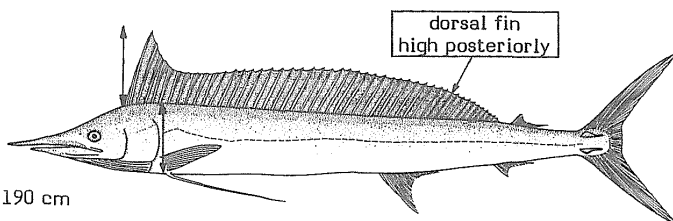
Loc. names : Samsuru (D)/Salisuli, Samsuli

FAO names : En - Shortbill spearfish
Fr - Makaïre à rostre court
Sp - Marlin trompa corta

Size : Max.: 230 cm; common to 190 cm
(total length)

Fishing gear : Longlines

Habitat : Highly oceanic, migratory and epipelagic, usually above the thermocline



anterior part of dorsal fin higher than body depth

Tetrapturus audax (Philippi, 1887)

Synonyms : Tetrapturus mitsukurii Jordan & Snyder, 1901
Makaira mitsukurii (Jordan & Snyder, 1901)
Makaira audax (Philippi, 1887)

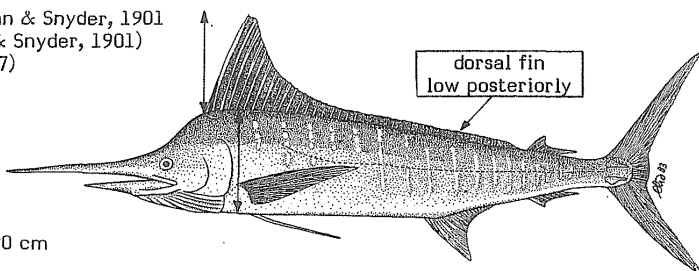
Loc. names : Salisuli/Samsuli

FAO names : En - Striped marlin
Fr - Marlin rayé
Sp - Marlin rayado

Size : Max.: 340 cm; common to 290 cm

Fishing gear : Longlines and trolling

Habitat : Oceanic, highly migratory, epipelagic, above the thermocline



anterior part of dorsal fin slightly higher than body depth

Psettodes erumei (Schneider, 1801)

PSETTODIDAE

Synonyms : None

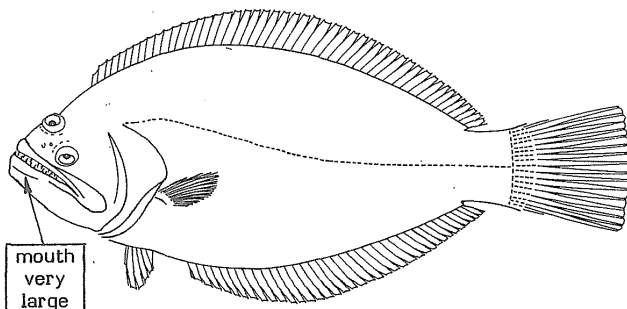
Loc. names : Gayo-gayo; Gala-gala (M)
Wayo

FAO names : En - Indian spiny turbot
Fr - Turbot épineux indien
Sp - Lenguado espinudo indio

Size : Max.: 60 cm; common to 40 cm

Fishing gear : Bottom trawls and by spears

Habitat : On muddy, sandy bottoms down to 100 m depth



BONY FISHES

BOTHIDAE

Bothus myriaster (Temminck & Schlegel, 1846)

Synonyms : None

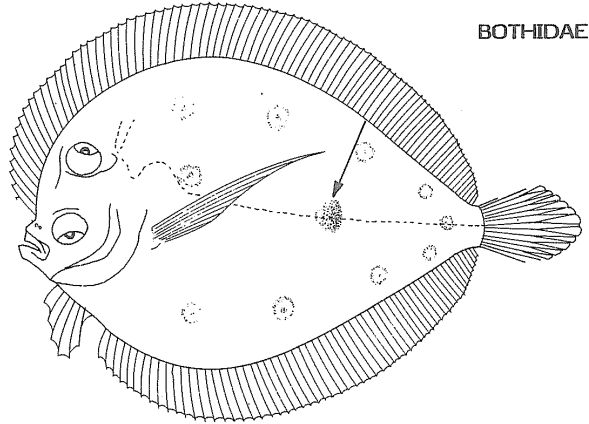
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Oval flounder
Fr - Rombou oval
Sp - Lenguado ovalado

Size : Max.: 20 cm

Fishing gear : Bottom trawls

Habitat : Muddy/sandy grounds of the continental shelf



scales on eyed side cycloid (smooth)
except upper and lower edges of body

Bothus pantherinus (Rüppell, 1828)

Synonyms : None

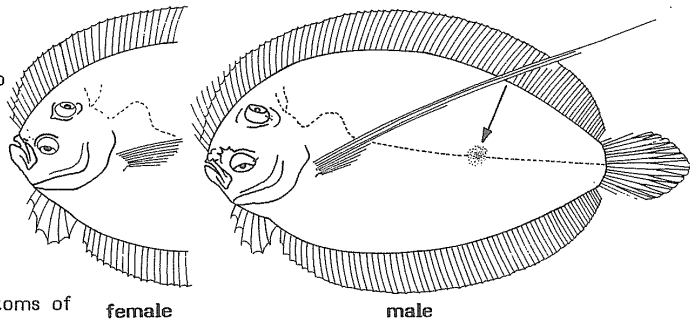
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Leopard flounder
Fr - Rombou léopard
Sp - Lenguado leopardo

Size : Max.: 25 cm; common to 20 cm

Fishing gear : Bottom trawls

Habitat : Shallow muddy and sandy bottoms of the continental shelf



female

male

all scales on eyed side ctenoid

PLATE XXXII, 191

Chascanopsetta lugubris Alcock, 1894

Synonyms : None

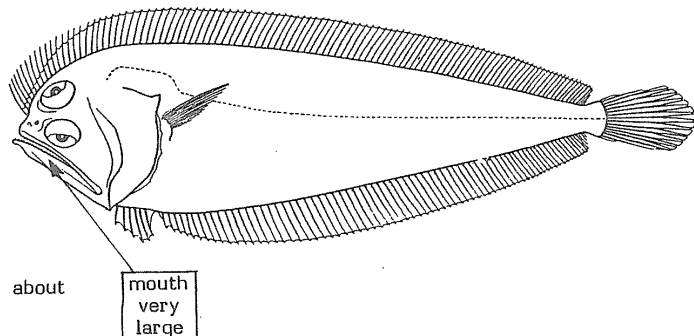
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

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

Size : Max.: 40 cm; common to 25 cm

Fishing gear : Bottom trawls

Habitat : Continental shelf, from 60 to about 600 m depth



mouth
very
large

BONY FISHES

Pseudorhombus arsius (Hamilton, 1822)

BOTHIDAE

Synonyms : Pseudorhombus polyspilus (Bleeker, 1853)

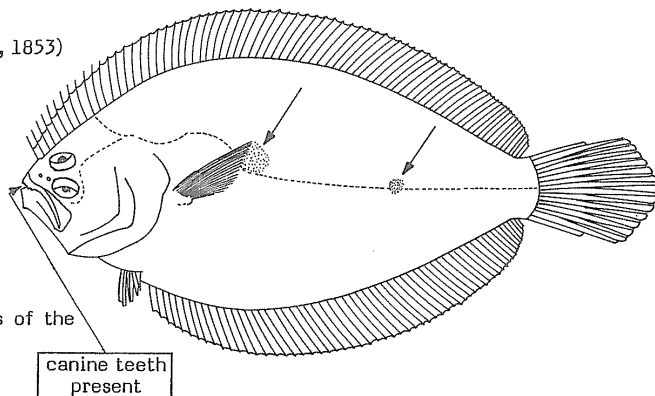
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Largetooth flounder
Fr - Rite dentu
Sp - Lenguado dentado

Size : Max.: 35 cm; common to 30 cm

Fishing gear : Bottom trawls

Habitat : Shallow muddy and sandy bottoms of the continental shelf



canine teeth
present

Pardachirus marmoratus (Lacepède, 1802)

SOLEIDAE

Synonyms : None

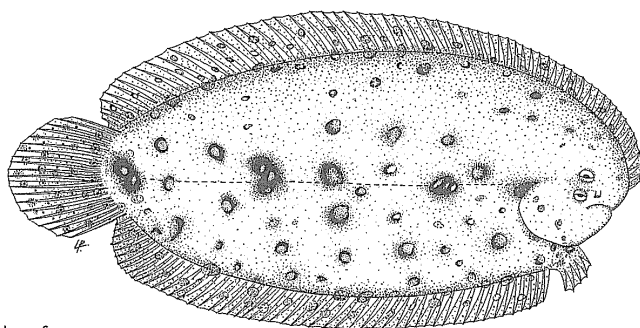
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Finless sole
Fr - Sole de lait
Sp - Lenguado de leche

Size : Max.: 25 cm; common to 20 cm

Fishing gear : Bottom trawls and shore seines

Habitat : Shallow muddy and sandy grounds of the continental shelf



pectoral fins absent
on both sides

Cynoglossus lachneri Menon, 1977

CYNOGLOSSIDAE

Synonyms : None

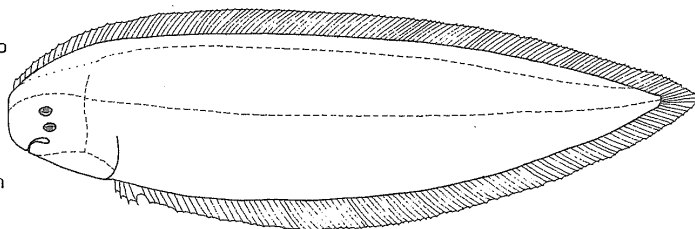
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Lachner's tonguesole
Fr - Langue de Lachner
Sp - Lengua de Lachner

Size : Max.: 46 cm; common to 30 cm

Fishing gear : Bottom trawls and shore seines

Habitat : Muddy and sandy bottoms of the continental shelf



2 lateral lines on eyed side and 2 on
blind side; scales ctenoid on eyed side

BONY FISHES

CYNOGLOSSIDAE

Cynoglossus zanzibarensis Norman, 1939

Synonyms : None

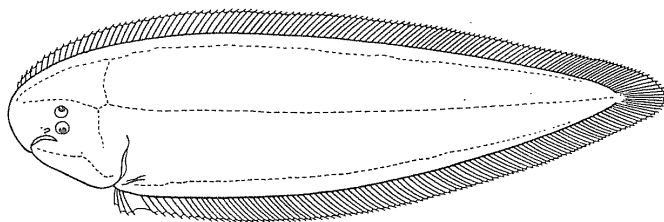
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Zanzibar tonguesole
Fr - Langue de Zanzibar
Sp - Lengua de Zanzibar

Size : Max.: 20 cm; common to 16 cm

Fishing gear : Bottom trawls and shore seines

Habitat : Muddy and sandy bottoms down to 25 m depth



3 lateral lines on eyed side,
none on blind side

Paraplagusia bilineata (Bloch, 1784)

Synonyms : Paraplagusia marmorata (Bleeker, 1851)

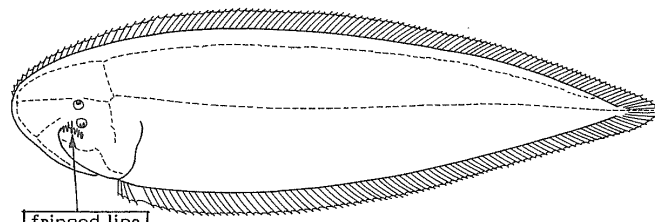
Loc. names : Gayo-gayo; Gala-gala (M); Wayo

FAO names : En - Doublelined tonguesole
Fr - Langue à deux lignes
Sp - Lengua de dos líneas

Size : Max.: 30 cm; common to 25 cm

Fishing gear : Bottom trawls and shore seines

Habitat : Sandy and muddy bottoms, often estuarine areas



fringed lips

2 lateral lines on eyed side,
none on blind side

Several species

TETRAODONTIDAE

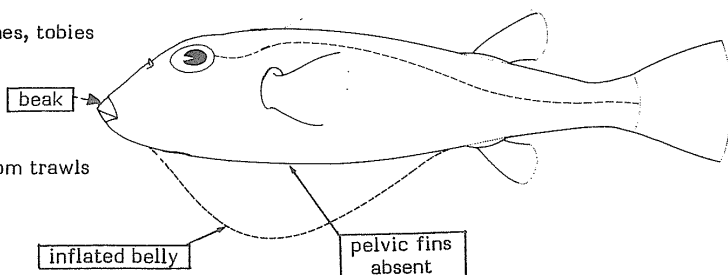
Loc. names : Bunju

FAO names : En - Pufferfishes, blowfishes, tobies
Fr - Compères
Sp - Tamboriles

Size : Max.: to 75 cm

Fishing gear : Caught as bycatch in bottom trawls

Habitat : Inshore waters



beak

inflated belly

pelvic fins
absent

BONY FISHES

BALISTIDAE

Abalistes stellatus (Lacepède, 1798)

Synonyms : Abalistes stellaris (Bloch & Schneider, 1801)

Loc. names : Tundu; Vidui; Kikande

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

Size : Max.: 60 cm; common to 40 cm

Fishing gear : Bottom trawls

Habitat : Over sand, sponge and weed bottoms
to 100 m depth

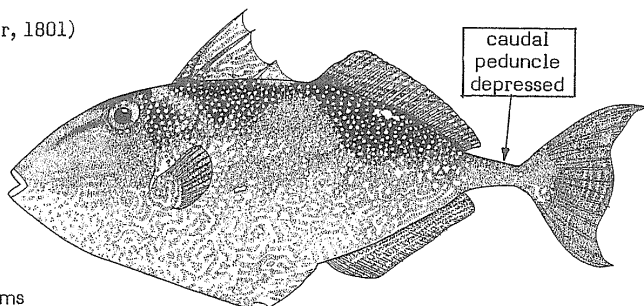


PLATE XXXII, 192

Odonus niger (Rüppell, 1840)

Synonyms : None

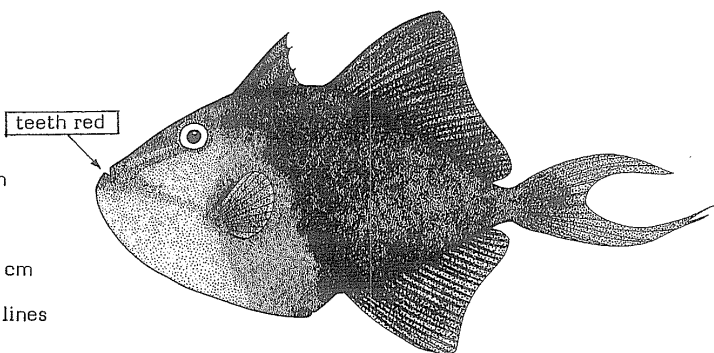
Loc. names : Kikande; Tundu; Vidui

FAO names : En - Red-toothed triggerfish
Fr - Baliste dents rouges
Sp - Pejepuerco dentirojo

Size : Max.: 60 cm; common to 30 cm

Fishing gear : Gillnets, bottom trawls and lines

Habitat : Shallow waters around reefs



Sufflamen fraenatus (Bloch & Schneider, 1801)

Synonyms : Sufflamen capistratus (Shaw, 1804)

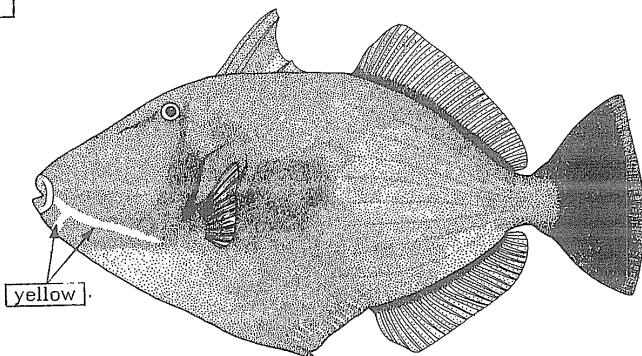
Loc. names : Kikande, Tundu, Vidui

FAO names : En - Masked triggerfish
Fr - Baliste masqué
Sp - Calafate mascarilla

Size : Max.: 50 cm; common to 20 cm

Fishing gear : Bottom trawls and lines

Habitat : Near coral reefs to 50 m depth



BONY FISHES

MONACANTHIDAE

Alutera monoceros (Linnaeus, 1758)

Synonyms : Aluteres monoceros (misspelling)

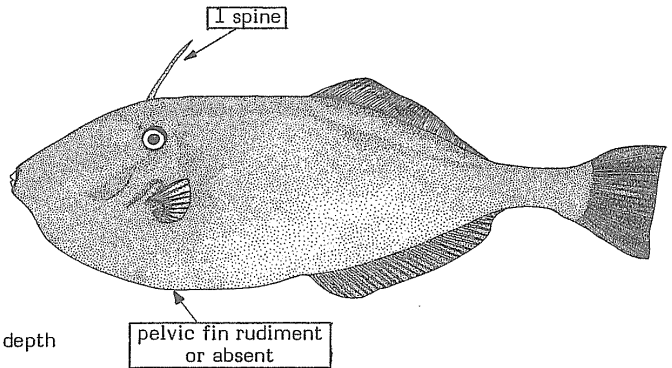
Loc. names : Kikande

FAO names : En - Unicorn leatherjacket
Fr - Bourse loulou
Sp - Lija barbuda

Size : Max.: 55 cm; common to 40 cm

Fishing gear : Bottom trawls

Habitat : On the continental shelf to 50 m depth



Chilomycterus orbicularis (Bloch, 1785)

DIODONTIDAE

Synonyms : Cyclichthys orbicularis Smith, 1948
Atinga orbicularis coeruleus De Danois, 1959

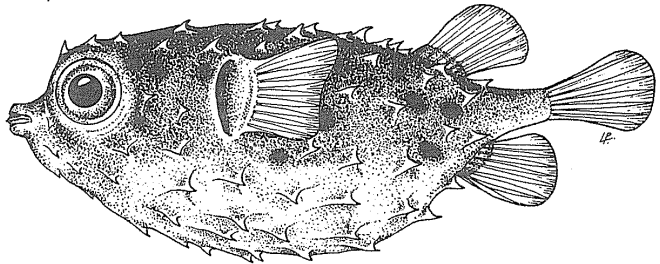
Loc. names : Bunju nungu/Bunju

FAO names : En - Birdbeak burrfish
Fr - Porc-épic bécard
Sp - Puercoespín pajarito

Size : Max.: 15 cm

Fishing gear : Bottom trawls

Habitat : Over sandy and muddy bottoms



Diodon holocanthus Linnaeus, 1758

Synonyms : Diodon paraholocanthus Kotthaus, 1979
Diodon maculifer Kaup, 1855

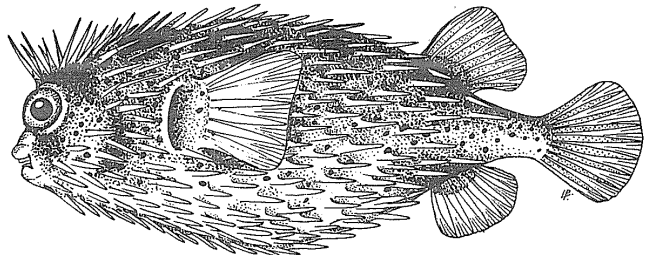
Loc. names : Bunju nungu/Bunju/Puju

FAO names : En - Balloonfish
Fr - Porc-épic ballon
Sp - Pejerizo balón

Size : Max.: 30 cm

Fishing gear : Bottom trawls

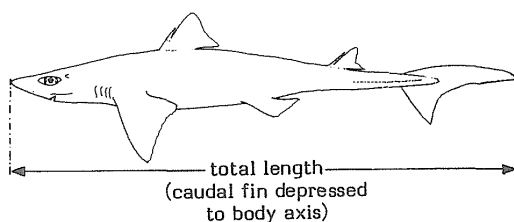
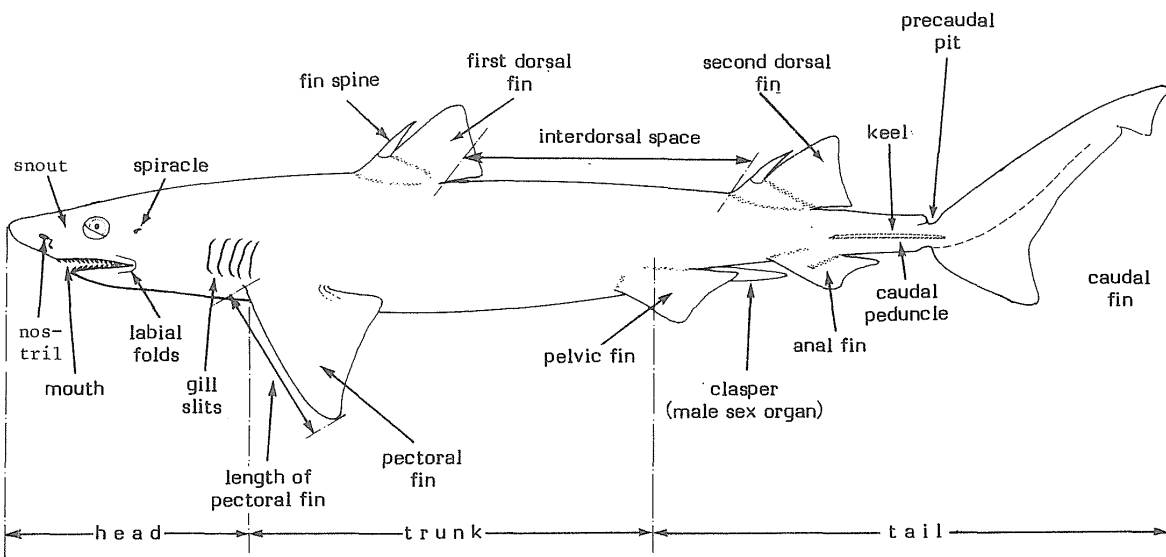
Habitat : Coral reefs and on sandy and muddy bottoms from shallow to moderate depths



SHARKS

TECHNICAL TERMS AND PRINCIPAL MEASUREMENT

(Straight-line distances)



SHARKS

ALOPHIIDAE

Alopias vulpinus (Bonnaterre, 1788)

Synonyms : None

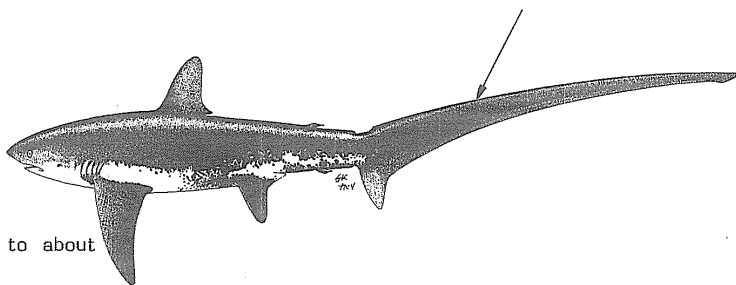
Loc. names : Papa kinengwe; Karage
Papa kinengo (Z)

FAO names : En - Thresher shark
Fr - Renard
Sp - Zorro

Size : Max.: up to 6 m; common to about 5 m

Fishing gear : Pelagic longlines

Habitat : Oceanic, young often found close inshore and in shallow bays



Carcharhinus falciformis (Bibron, in Müller & Henle, 1839)

CARCHARHINIDAE

Synonyms : None

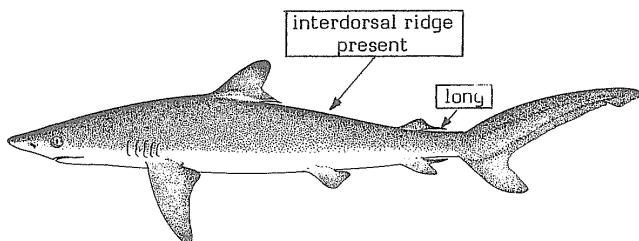
Loc. names : Mbamba menyo
Papa bunshu/Papa

FAO names : En - Silky shark
Fr - Requin soyeux
Sp - Tiburón jaquetón

Size : Max.: 3.5 m; common to 2.5 m

Fishing gear : Floating longlines

Habitat : Oceanic near and beyond the continental slope, sometimes in coastal waters



Galeocerdo cuvieri (Peron & LeSueur, in LeSueur, 1822)

Synonyms : Galeocerdo arcticus (Faber, 1829)
Galeocerdo rayneri McDonald & Barron, 1868

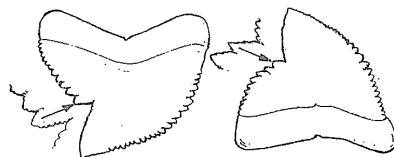
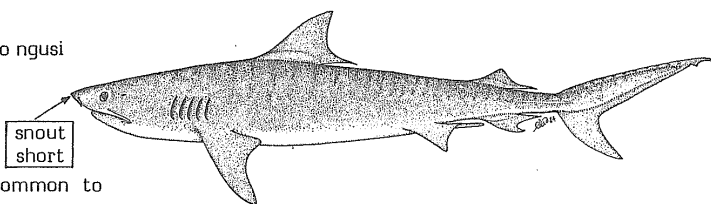
Loc. names : Amzani; Papa
Papa ngusi; Mkubwa; Mwongo ngusi

FAO names : En - Tiger shark
Fr - Requin tigre commun
Sp - Tintorera

Size : Max.: to at least 6.5 m; common to 4 m

Fishing gear : Floating and bottom gillnets and with line gear

Habitat : Coastal as well as offshore waters; often in shallow waters, including estuaries

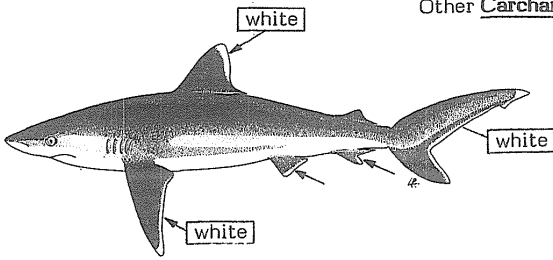


upper and lower teeth

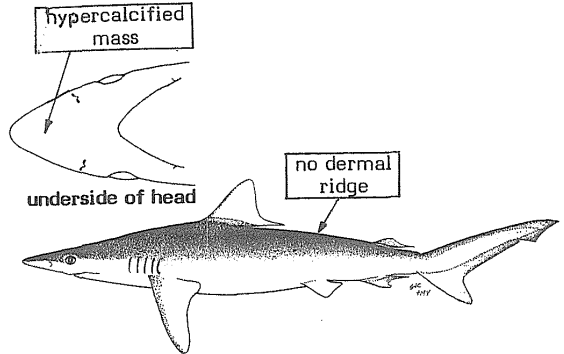
SHARKS

Other Carcharhinus species

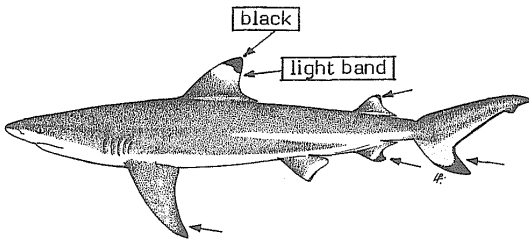
CARCHARHINIDAE



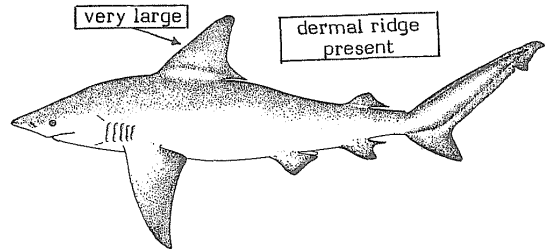
Carcharhinus albimarginatus (Rüppell, 1837)
Silvertip shark
size: to 300 cm



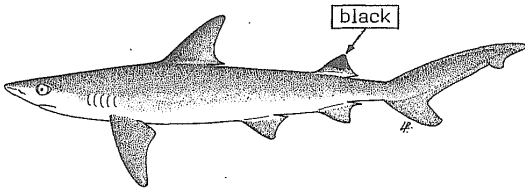
Carcharhinus macroti (Müller & Henle, 1839)
Hardnose shark
size: below 100 cm



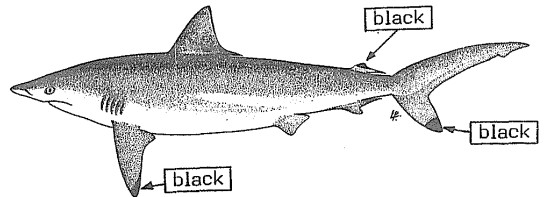
Carcharhinus melanopterus (Quoy & Gaimard, 1824)
Blacktip reef shark
size: below 200 cm



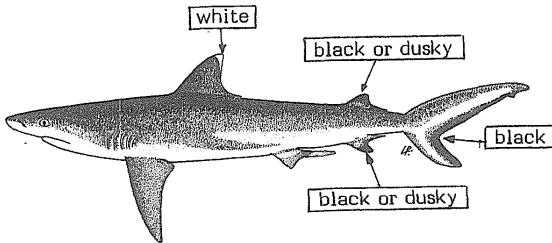
Carcharhinus plumbeus (Nardo, 1827)
Sandbar shark
size: to 250 cm



Carcharhinus sealei (Pietschmann, 1916)
Blackspot shark
size: to about 95 cm



Carcharhinus sorrah (Valenciennes, in Müller & Henle, 1839)
Spot tail shark
size: to at least 160 cm



Carcharhinus wheeleri Garrick, 1982
Blacktail reef shark
size: to at least 170 cm

SHARKS

CARCHARHINIDAE

Loxodon macrorhinus Müller & Henle, 1839

Synonyms : Scoliodon acutus (Rüppell, 1837)
Scoliodon ceylonensis Setna & Sarangdhar, 1946

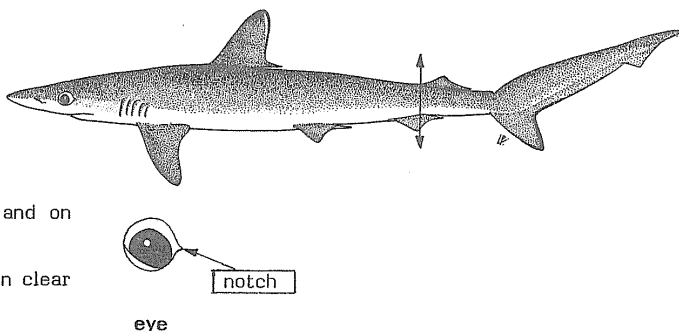
Loc. names : Papa

FAO names : En - Sliteye shark
 Fr - Requin sagrin
 Sp - Tiburón ojuelo

Size : Max.: 90 cm

Fishing gear : Floating and bottom gillnets and on line gear

Habitat : From 7 to about 80 m depth in clear waters



Negaprion acutidens (Rüppell, 1837)

Synonyms : None

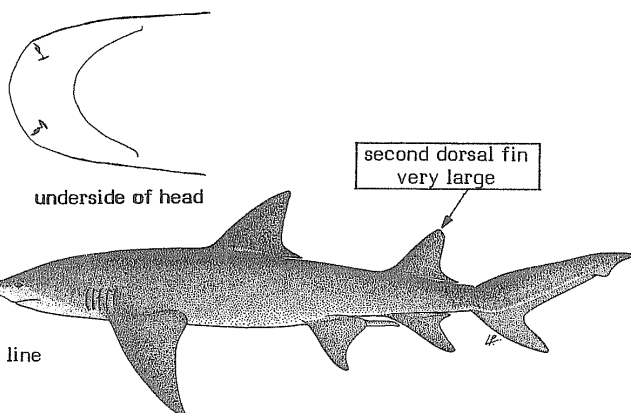
Loc. names : Papa

FAO names : En - Sicklefim lemon shark
 Fr - Requin citron faucille
 Sp - Tiburón segador

Size : Max.: 3.1 m

Fishing gear : Floating and bottom gillnets and line gear

Habitat : Often found around coral reefs or on sandy plateaus in inshore as well as offshore waters



Rhizoprionodon acutus (Rüppell, 1837)

Synonyms : Scoliodon acutus (Rüppell, 1837)
Scoliodon palasorra (Bleeker, 1853)
Scoliodon walbeehmi (Bleeker, 1856)

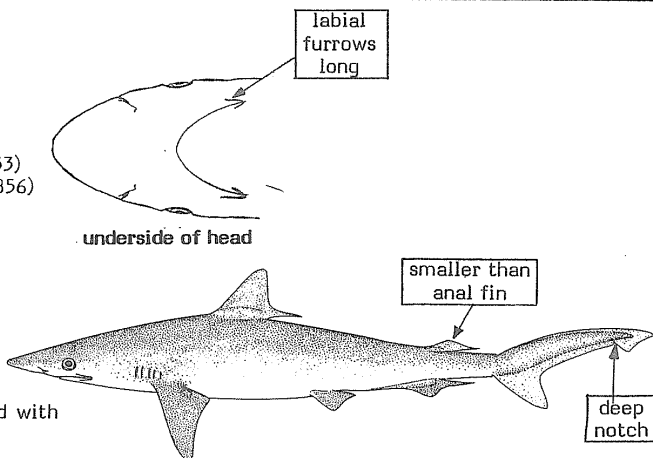
Loc. names : Papa-marbui

FAO names : En - Milk shark
 Fr - Requin à museau pointu
 Sp - Cazón picudo

Size : Max.: to about 1 m

Fishing gear : Floating and bottom gillnets and with line gear

Habitat : From the coastline to about 50 m depth; near the surface as well as near the bottom



SHARKS

Scoliodon laticaudus Müller & Henle, 1838

CARCHARHINIDAE

Synonyms : Physodon muelleri (Valenciennes, in Müller & Henle, 1839)
Scoliodon palasorra (Bleeker, 1853)
Scoliodon sorrakowa (Bleeker, 1853)

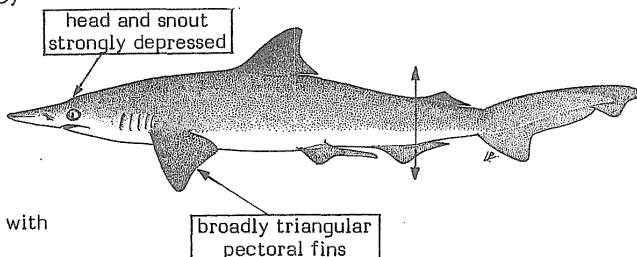
Loc. names : Papa-sumbwi; Papa bunshu (Z)

FAO names : En - Spadenose shark
Fr - Requin épée
Sp - Cazón espadachín

Size : Max.: to about 74 cm

Fishing gear : Floating and bottom gillnets and with line gear

Habitat : Coastal waters near the bottom



Triacnodon obesus (Rüppell, 1837)

Synonyms : None

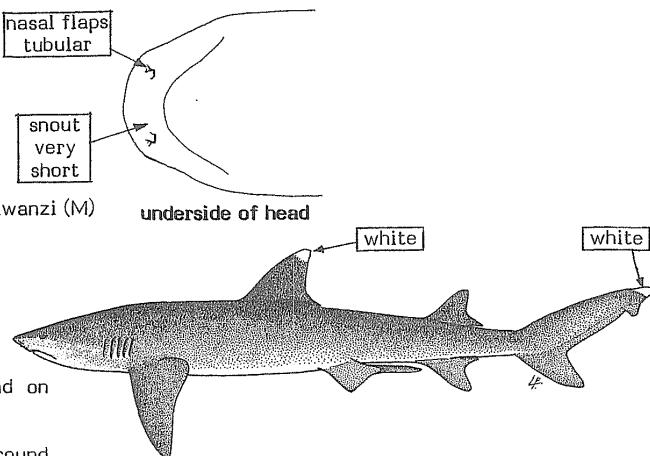
Loc. names : Papa (D); Papa siruanzi; Papa sarawanzi (M)

FAO names : En - Whitetip reef shark
Fr - Requin corail
Sp - Cazón coralero trompacorta

Size : Max.: to about 2 m

Fishing gear : Floating and bottom gillnets and on line gear

Habitat : In coastal clear waters, on or around reefs; commonly in holes and crevices



Ginglymostoma brevicaudatum Günther, in Playfair & Günther, 1866

GINGLYMOSTOMATIDAE

Synonyms : None

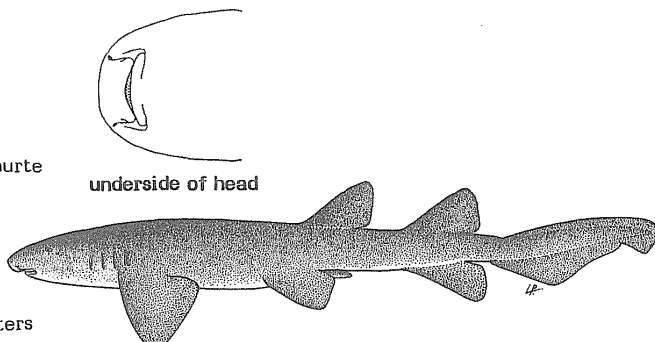
Loc. names : Papa usingiri

FAO names : En - Shorttail nurse shark
Fr - Requin-nourrice à queue courte
Sp - Gata nodriza rabcorta

Size : Max.: to about 75 cm

Fishing gear : Bottom trawls

Habitat : Bottom dwelling, in shallow waters



SHARKS

Hemipristis elongatus (Klunzinger, 1871)

Synonyms : Carcharhinus ellioti (Day, 1878)

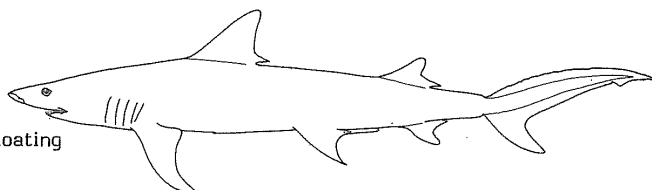
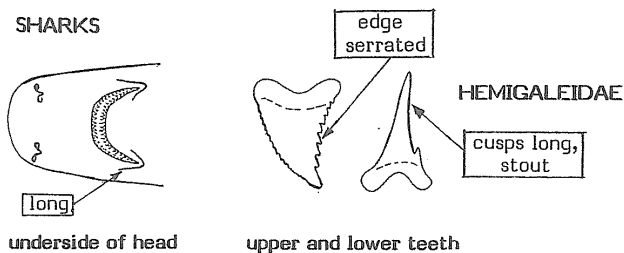
Loc. names : Papa

FAO names : En - Snaggletooth shark
Fr - Milandre chicor
Sp - Comadreja sobrediente

Size : Max.: 2.4 m

Fishing gear : Floating and bottom gillnets, floating longlines and on hook-and-line

Habitat : Inshore as well as offshore waters



Isurus oxyrinchus Rafinesque, 1810

LAMNIDAE

Synonyms : Isurus glaucus (Müller & Henle, 1839)

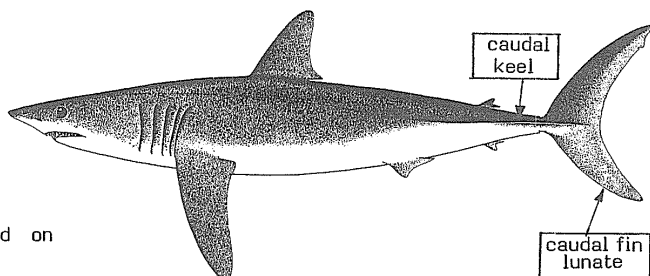
Loc. names : Papa nyamzani; Papa nyamarasi;
Papa sumbwi (Z)

FAO names : En - Shortfin mako
Fr - Taupe bleu
Sp - Marrajo dientuso

Size : Max.: 4 m; common to 2.7 m

Fishing gear : Drifting longlines; gillnets and on hook-and-line

Habitat : In oceanic as well as coastal waters, usually at the surface



Sphyrna lewini (Cuvier, Griffith & Smith, 1834)

SPHYRNIDAE

Synonyms : Sphyrna diplana Springer, 1941

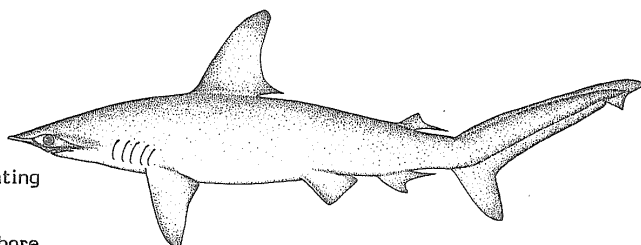
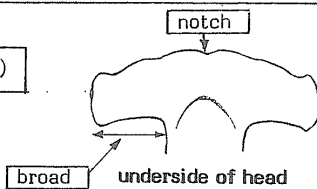
Loc. names : Papa pingusi
Papa mbingusi

FAO names : En - Scalloped hammerhead
Fr - Requin marteau halicorne
Sp - Cornuda común

Size : Max.: 4.2 m; common to 3.6 m

Fishing gear : Floating and bottom gillnets, floating longlines and on hook-and-line

Habitat : Estuaries, inshore as well as offshore waters



SHARKS

Sphyrna mokarran (Rüppell, 1837)

contour almost straight

SPHYRNIDAE

Synonyms : Sphyrna tudes (Valenciennes, 1822)

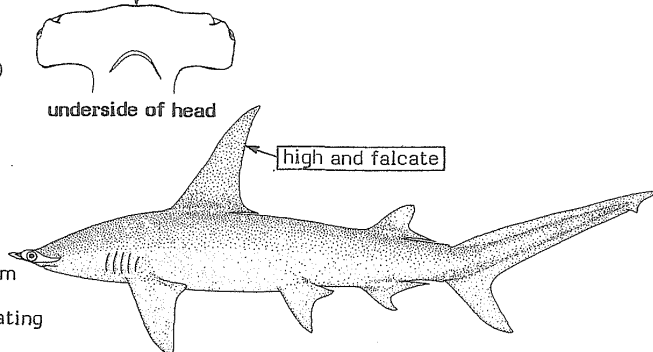
Loc. names : Papa-pingusi
Papa mbingusi

FAO names : En - Great hammerhead
Fr - Grand requin marteau
Sp - Cornuda gigante

Size : Max.: to about 6 m; common to 3 m

Fishing gear : Floating and bottom gillnets, floating longlines and on hook-and-line

Habitat : Near the coast as well as offshore and in the open ocean, often around coral reefs



Centrophorus uyato (Rafinesque, 1809)

SQUALIDAE

Synonyms : None

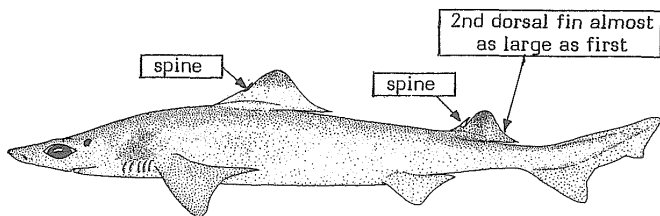
Loc. names :

FAO names : En - Little gulper shark
Fr - Petit squalé-chagrin
Sp - Galludito

Size : Max.: to about 1 m

Fishing gear : Bottom trawls

Habitat : Outer continental shelf and upper slope



Centrophorus moluccensis Bleeker, 1860

Synonyms : Centrophorus scalpratus McCulloch, 1915
Atractophorus armatus Gilchrist, 1922

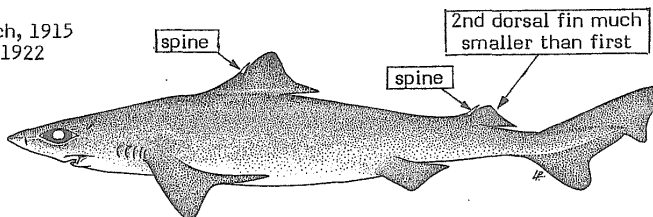
Loc. names :

FAO names : En - Smallfin gulper shark
Fr - Squalé-chagrin cagaon
Sp - Quelvacho de aleta corta

Size : Max.: to about 1 m

Fishing gear : Bottom trawls

Habitat : Outer continental shelf and upper slope



SHARKS

SQUALIDAE

Dalatias licha (Bonnaterre, 1788)

Synonyms : Scymnorhinus licha (Bonnaterre, 1788)

Loc. names :

FAO names : En - Kitefin shark
Fr - Squale liche
Sp - Carrocho

Size : Max.: to 1.8 m; common to 1.5 m

Fishing gear : Bottom trawls

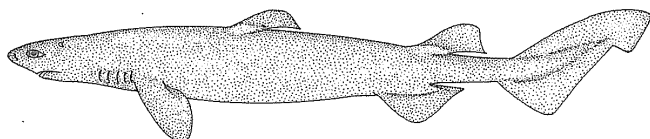
Habitat : In deep waters, between 250 and 450 m depth



underside of head



fringed lips



Squatina africana Regan, 1908

SQUATINIDAE

Synonyms : None

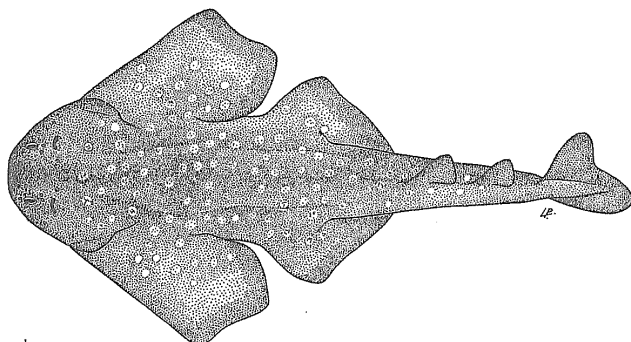
Loc. names :

FAO names : En - African angelshark
Fr - Ange de mer africain
Sp - Angelote africano

Size : Max.: to about 1.1 m

Fishing gear : Bottom trawls

Habitat : On the bottom, from the surfline and the intertidal zone to 430 m depth



Stegostoma fasciatum (Hermann, 1783)

STEGOSTOMATIDAE

Synonyms : Stegostoma varium (Seba, 1758)
Stegostoma tigrinus or tigrinus (Bonnaterre, 1788)

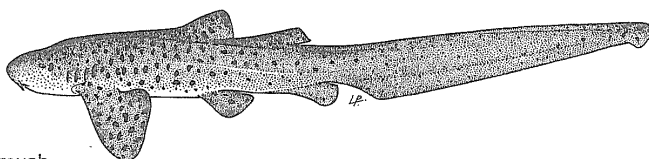
Loc. names :

FAO names : En - Zebra shark
Fr - Requin zèbre
Sp - Tiburón acebrado

Size : Max.: to about 3.5 m but usually much smaller

Fishing gear : Bottom trawls floating and bottom gillnets and longlines

Habitat : Inshore waters, often on coral reefs, on or near the bottom



young

SHARKS

Hypogaleus hyugaensis (Miyosi, 1939)

Synonyms : Hypogaleus zanzibariensis (Smith, 1957)
Galeorhinus (Hypogaleus) zanzibariensis Smith, 1957

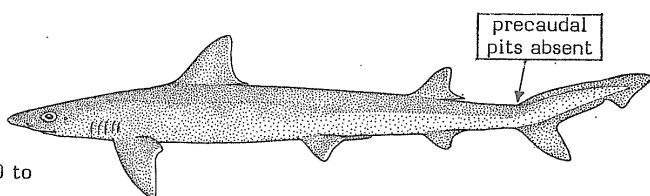
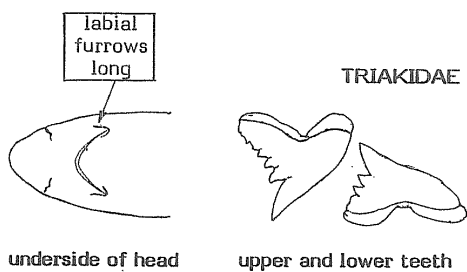
Loc. names : Papa

FAO names : En - Blacktip tope
Fr - Requin-hâ élégant
Sp - Cazón elegante

Size : Max.: to about 1.3 m

Fishing gear : Bottom trawls and on hook-and-line

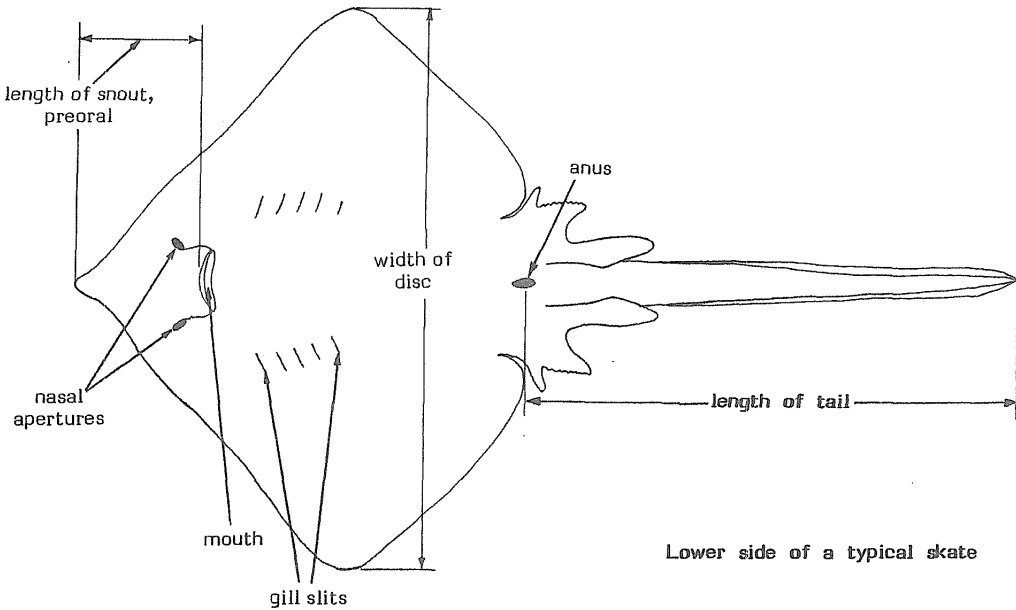
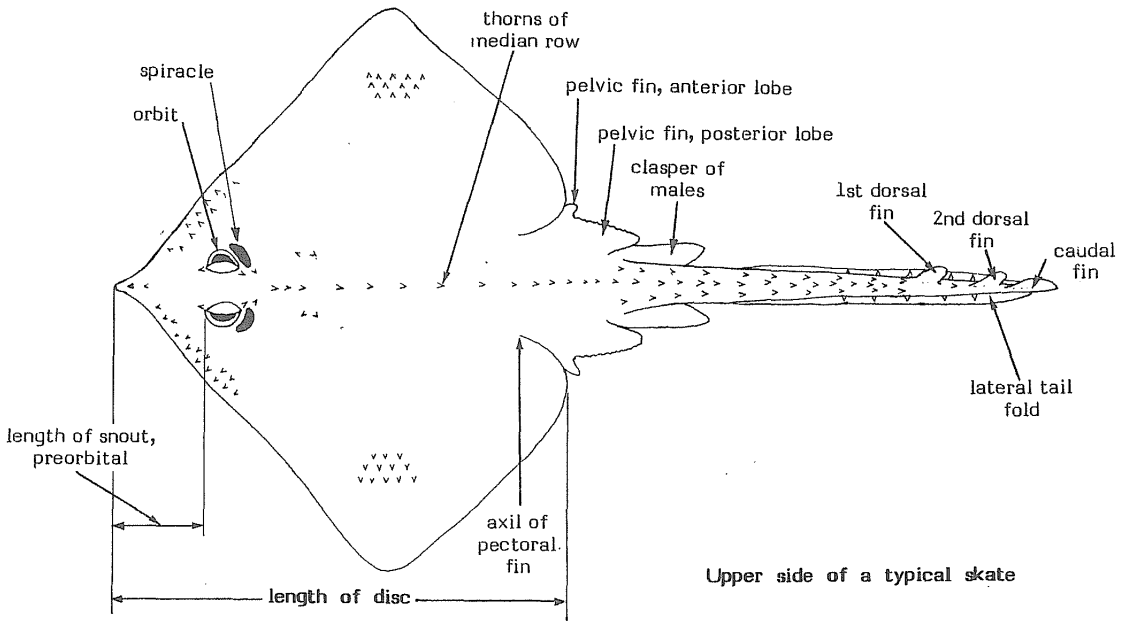
Habitat : Deeper shelf waters, from about 60 to
230 m depth



BATOID FISHES

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS USED

(Straight-line distances only)



NOTE: The section on batoid fishes must be considered as provisional. The species coverage is doubtlessly incomplete and the taxonomy of East African representatives of this group is in need of revision.

BATOID FISHES

DASYATIDAE

Dasyatis jenkinsii (Annandale, 1909)

Synonyms : Trygon jenkinsii Annandale, 1909
Dasyatis imbricatus Smith, 1952

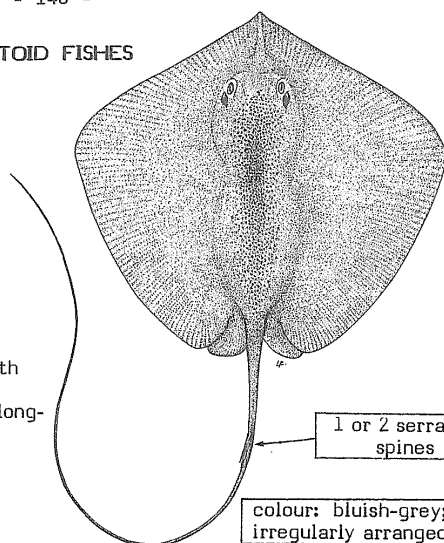
Loc. names : Nyenga, Taa

FAO names : En - Pointed-nose stingray
 Fr - Pastenague à nez pointu
 Sp - Rajalátigo picuda

Size : Known to attain about 90 cm disc width

Fishing gear : Caught on hook and line and with long-lines

Habitat : Found in coastal waters



disc almost circular

1 or 2 serrated spines

colour: bluish-grey; mottled with dark, irregularly arranged spots and blotches

Himantura uarnak (Forsskål, 1775)

Synonyms : Raja uarnak Forsskål, 1775
Dasyatis uarnak Forsskål, 1775
Dasyatis favus Annandale, 1909

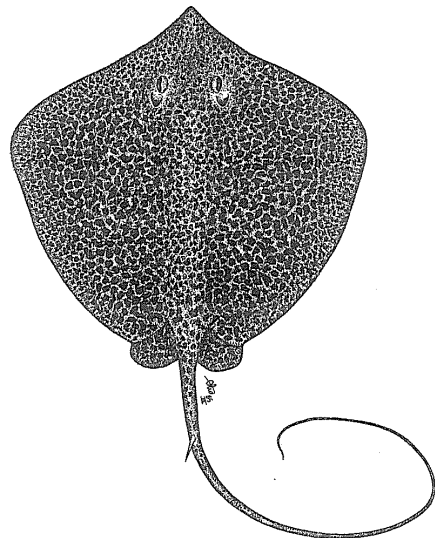
Loc. names : Nyenga

FAO names : En - Leopard stingray
 Fr - Pastenague léopard
 Sp - Rajalátigo leopardo

Size : Max.: 155 cm disc width

Fishing gear : Caught with hook and line, longlines and trawls

Habitat : Found in shallow coastal waters, especially the surf zone, lagoons and river estuaries



colour: brown to black, with different patterns of cream or yellow lines

Hypolophus sephen (Forsskål, 1775)

band of closely set tubercles, 2 or 3 enlarged

Synonyms : Raja sephen Forsskål, 1775

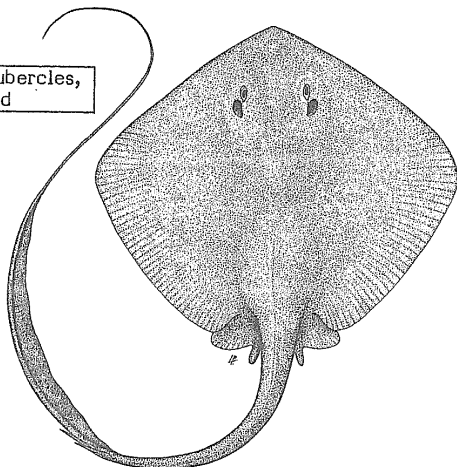
Loc. names : Taa usinga

FAO names : En - Feathertail stingray
 Fr - Pastenague plumetée
 Sp - Rajalátigo plumada

Size : Said to attain about 180 cm disc width, but usually much smaller

Fishing gear : Longlines and trawls

Habitat : Found in coastal waters



BATOID FISHES

Taeniura lymna (Forsskål, 1775)

DASYATIDAE

Synonyms : Raja lymna Forsskål, 1775

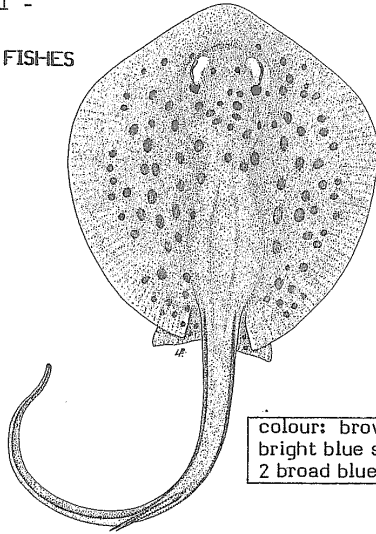
Loc. names : Nyenga

FAO names : En - Ribbontail stingray
Fr - Pastenague queue à ruban
Sp - Rajalátigo rabo cinta

Size : Reaches about 100 cm total length

Fishing gear : Hook and line and bottom longlines

Habitat : Found in shallow waters, on sand patches or hiding in small caves



colour: brownish-yellow with bright blue spots - tail with 2 broad blue lines

Taeniura melanospila (Bleeker, 1853)

Synonyms : Taeniura melanospilos Bleeker, 1853

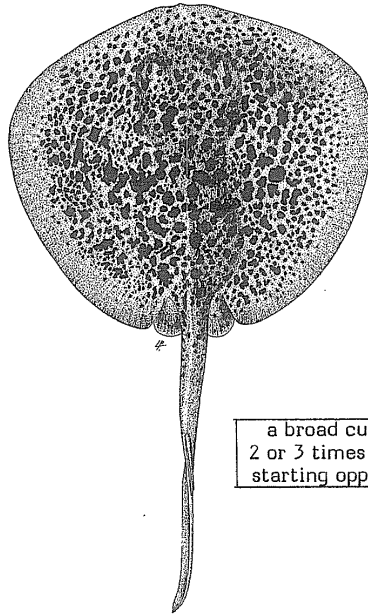
Loc. names : Nyenga

FAO names : En - Fantail stingray
Fr - Pastenague éventail
Sp - Rajalátigo abanico

Size : Known to attain more than 160 cm disc width

Fishing gear : Caught with bottom trawls, with bottom longlines and on hook and line

Habitat : Found from the surf zone to about 450 m depth, but probably most common between 20 and 60 m



a broad cutaneous fold, 2 or 3 times as deep as tail starting opposite to spines

GYMNURIDAE

Several species

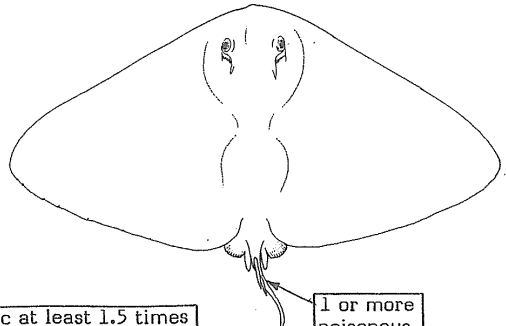
Loc. names : Taa

FAO names : En - Butterfly rays
Fr - Raies-papillon
Sp - Rayamariposas

Size : Max.: more than 200 cm disc width

Fishing gear : Bottom trawls, hook and line and longlines

Habitat : In shallow coastal waters on sandy or muddy bottoms, also in lagoons and estuaries



disc at least 1.5 times broader than long

1 or more poisonous spines

BATOID FISHES

MOBULIDAE

Manta birostris (Walbaum, 1792)

Synonyms : Raja birostris Walbaum, 1792;
Manta ehrembergi: Fowler, 1843

Loc. names : Taachui

FAO names : En - Giant atlantic manta
 Fr - Manta atlantique
 Sp - Manta atlantica gigante

Size : Max.: 700 cm disc width

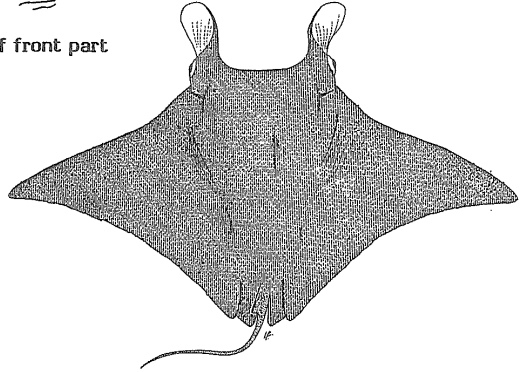
Fishing gear : Caught with longlines and in trawls

Habitat : Usually encountered while basking or swimming on the surface. Often they leap out of the water falling back with a resounding splash



mouth terminal

underside of front part



Mobula diabolus (Shaw, 1804)

Synonyms : Raja diabolus Shaw, 1804
Mobula kuhlii: Barnard, 1959

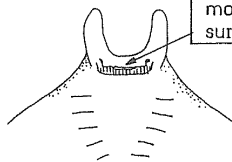
Loc. names : Taachui

FAO names : En - Lesser devilray
 Fr - Petit diable
 Sp - Diablito

Size : Known to attain 170 cm disc width

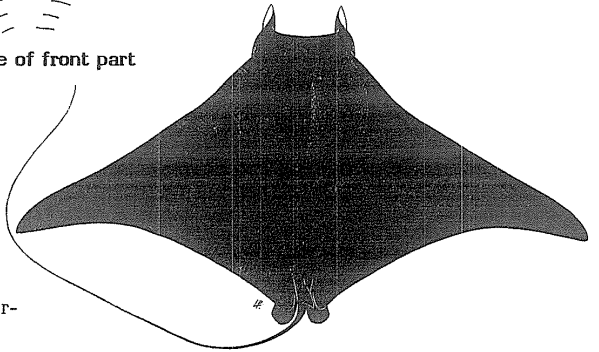
Fishing gear : Setnets, longlines and trawls

Habitat : Usually found swimming close to the surface



mouth on lower surface of head

underside of front part



Aetobatus narinari Blainville, 1816

Synonyms : Stoasondon narinari Euphrasen, 1790

Loc. names : Pungu pua, Pungu pijo

FAO names : En - Spotted eagle ray
 Fr - Aigle de mer léopard
 Sp - Chucho pintado

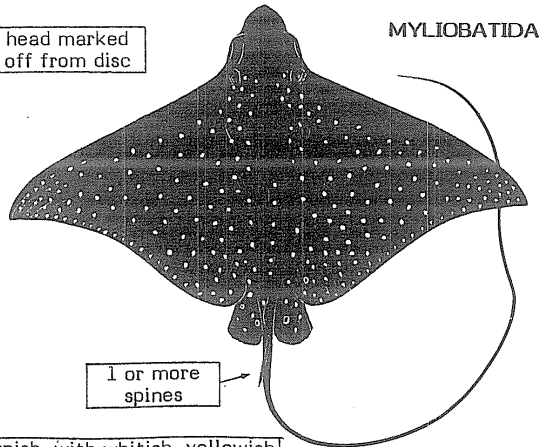
Size : Max.: 280 cm disc width

Fishing gear : Trawls and longlines

Habitat : Shallow inshore waters, often forming large schools. Swims close to the surface, occasionally leaping out of the water, or close to the bottom

head marked off from disc

MYLIOBATIDAE



1 or more spines

colour: brownish, with whitish, yellowish or bluish spots

BATOID FISHES

Pristis microdon Latham, 1794

PRISTIDAE

Synonyms : Pristis perotteti Müller & Henle, 1841

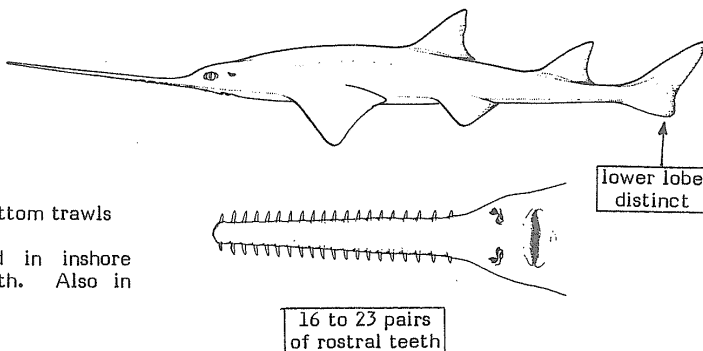
Loc. names : Papa upanga

FAO names : En - Largetooth sawfish
Fr - Poisson-scie grandent
Sp - Pejesierra

Size : Max.: 60 cm total length

Fishing gear : Caught with longlines and bottom trawls

Habitat : A demersal species found in inshore waters to about 10 m depth. Also in estuaries and lagoons



Pristis pectinata Latham, 1794

Synonyms : Pristis pectinatus Latham, 1794

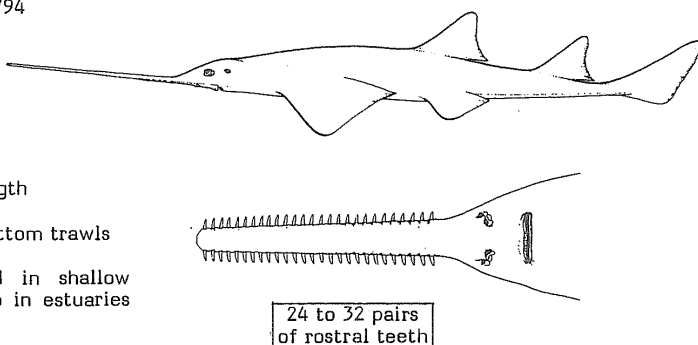
Loc. names : Papa upanga

FAO names : En - Smalltooth sawfish
Fr - Poisson-scie tident
Sp - Pejepeine

Size : Max.: about 600 cm total length

Fishing gear : Caught with longlines and bottom trawls

Habitat : A demersal species found in shallow waters to 10 m depth. Also in estuaries and lagoons



Pristis pristis Linnaeus, 1758

Synonyms : None

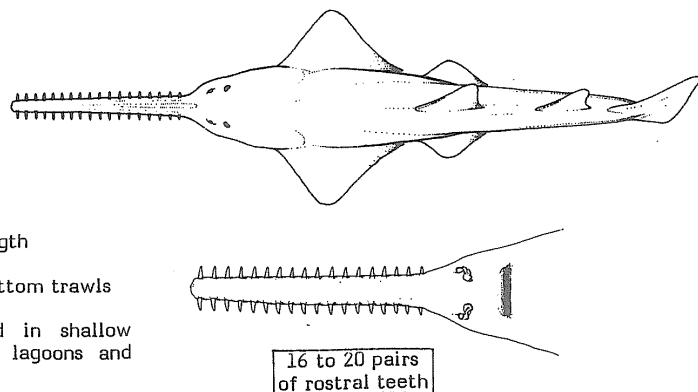
Loc. names : Papa upanga

FAO names : En - Common sawfish
Fr - Poisson scie commun
Sp - Pez sierra común

Size : Max.: about 500 cm total length

Fishing gear : Caught with longlines and bottom trawls

Habitat : A demersal species found in shallow waters, including estuaries, lagoons and even fresh water



BATOID FISHES

RAJIDAE

Several species

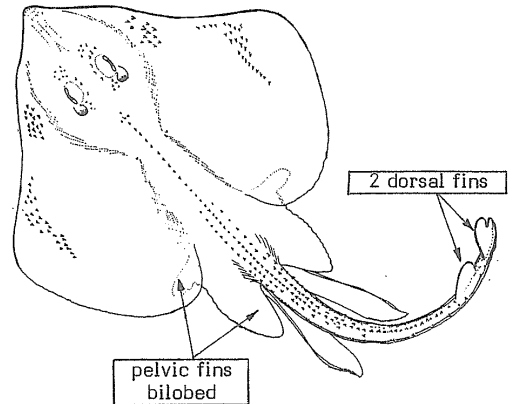
Loc. names : Taa

FAO names : En - Skates
Fr - Raies
Sp - Rayas

Size : More than 100 cm total length

Fishing gear : Caught in bottom trawls

Habitat : Bottom dwellers, stationary, mainly marine but entering brackish and fresh waters at times



Several species

RHINOBATIDAE

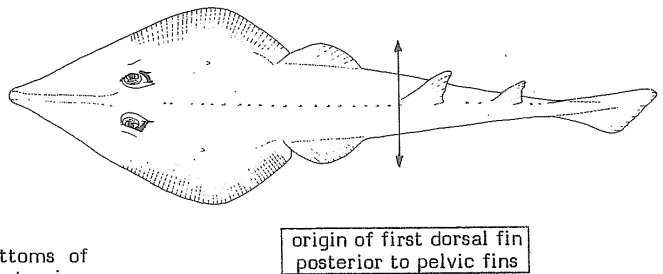
Loc. names : Papa charawanza

FAO names : En - Guitarfishes
Fr - Poissons-guitare
Sp - Guitarras

Size : Known to attain 100 cm

Fishing gear : Caught with longlines and trawls

Habitat : Found on sandy and muddy bottoms of shallow coastal waters, also in estuaries, lagoons and even fresh water



Rhinoptera javanica Müller & Henle, 1841

RHINOPTERIDAE

Synonyms : None

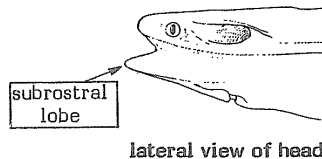
Loc. names : Taa

FAO names : En - Javanese cownose ray
Fr - Mourine javanaise
Sp - Gavián javanés

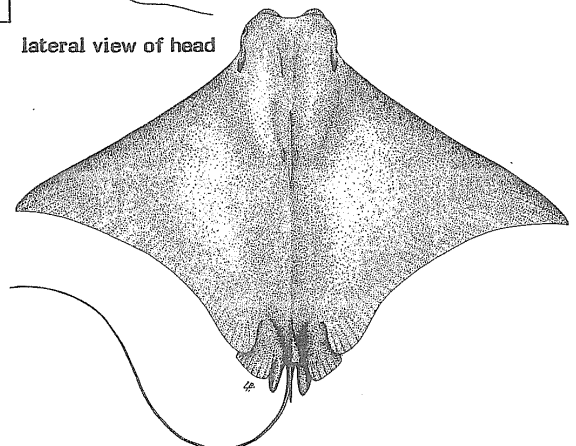
Size : Known to reach 150 cm, but possibly reaching larger sizes

Fishing gear : Caught in shore seines, setnets and in trawls

Habitat : Gregarious, often occurring in large numbers



lateral view of head



BATOID FISHES

RHYNCHOBATIDAE

Rhina ancylostoma Schneider, 1801

Synonyms : None

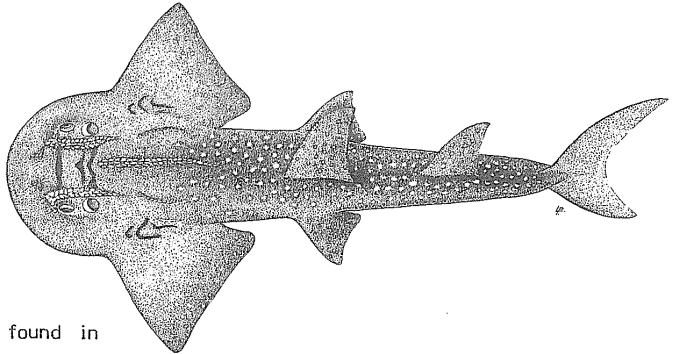
Loc. names :

FAO names : En - Bowmouth angelfish
Fr - Angelot
Sp - Falso angelote

Size : Max.: to at least 240 cm

Fishing gear : Longlines and trawls

Habitat : A demersal species, usually found in inshore waters



Rhynchobatus djeddensis (Forsskal, 1775)

Synonyms : None

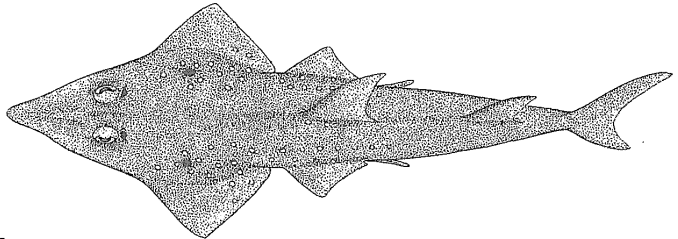
Loc. names : Papa charawanza

FAO names : En - Whitespotted wedgefish
Fr - Poisson paille à pois
Sp - Pez cuña manchado

Size : Max.: over 300 cm total length

Fishing gear : Caught with longlines and trawls

Habitat : A demersal species found in shallow coastal waters



Several species

TORPEDINIDAE

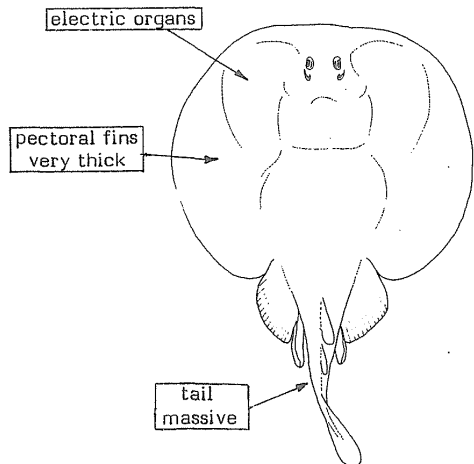
Loc. names : Taa rau; Taa kilimawe (M)

FAO names : En - Electric rays
Fr - Torpilles
Sp - Torpedos

Size : Max.: 180 cm total length, but most species smaller than 100 cm

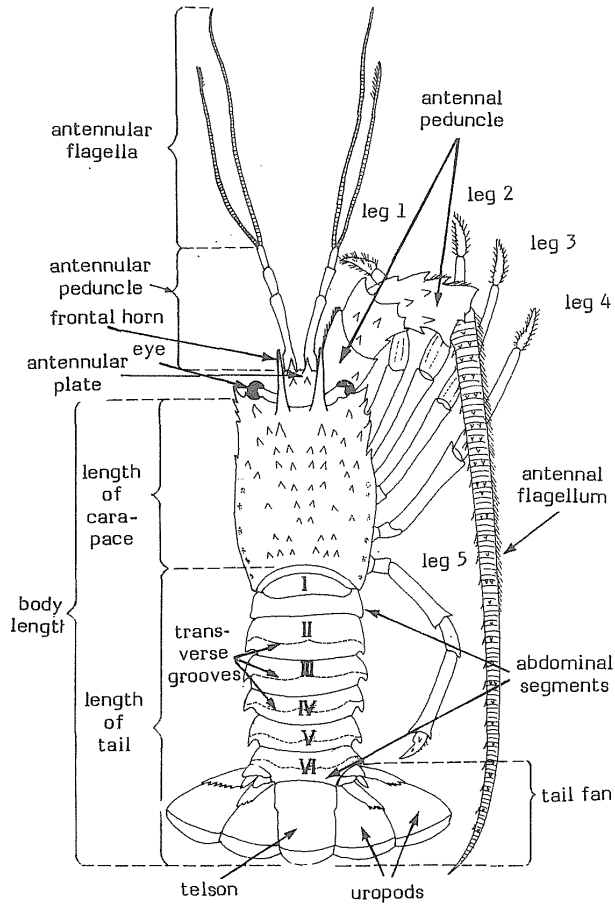
Fishing gear : Caught in trawls as bycatch

Habitat : They are usually inactive, close to the bottom, often buried in sand or mud. They may occur in large numbers

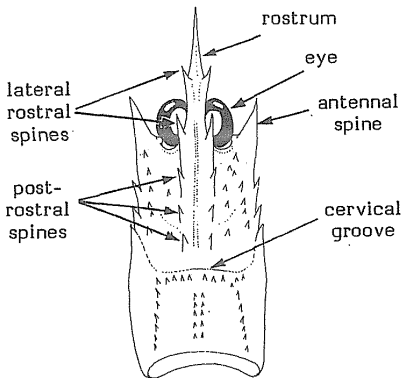


LOBSTERS

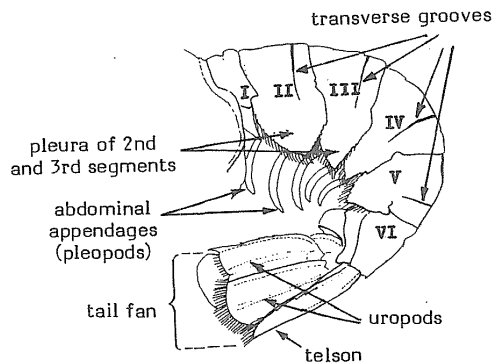
TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS



general shape (dorsal view) of a spiny lobster
(*Panulirus* sp.) (no rostrum, no pincers)



carapace (dorsal view) of a lobsterette
(*Metanephrops* sp.)



tail (abdomen) in lateral view

LOBSTERS

Metanephrops andamanicus (Wood-Mason, 1892)

NEPHROPIDAE

Synonyms : None

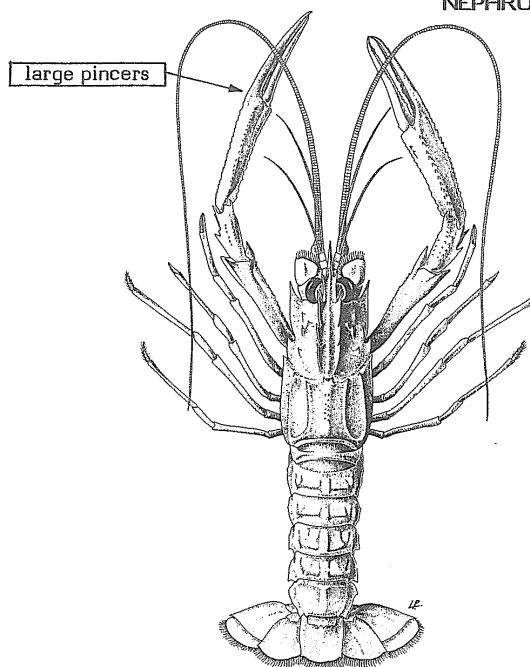
Loc. names :

FAO names : En - Andaman lobster
Fr - Langoustine andamane
Sp - Cigala de Andamán

Size : Max.: carapace length 7 cm; common
body length to 15 cm

Fishing gear : Not actively fished at present

Habitat : Most common between 400 and 475 m
on hard-mud bottoms



colour: pinkish; pincers banded with pink

Linuparus somniosus Berry & George, 1972

Synonyms : None

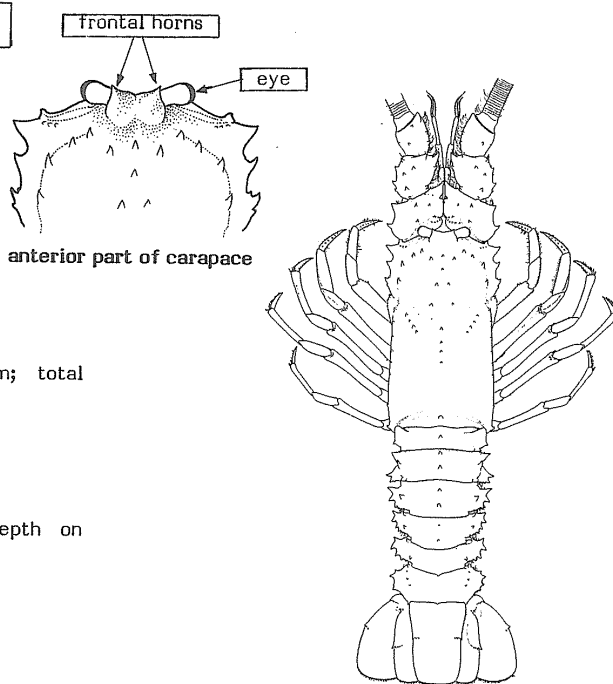
Loc. names :

FAO names : En - Spear lobster
Fr - Langouste javelot
Sp - Langosta jabalina

Size : Max.: carapace length 14 cm; total
body length 35 cm

Fishing gear : Bottom trawl

Habitat : Between 200 and 380 m depth on
sandy/muddy bottoms



LOBSTERS

Panulirus homarus (Linnaeus, 1758)

PALINURIDAE

Synonyms : Panulirus dasypus (H. Milne Edwards, 1837)
Panulirus burgeri (De Haan, 1841)

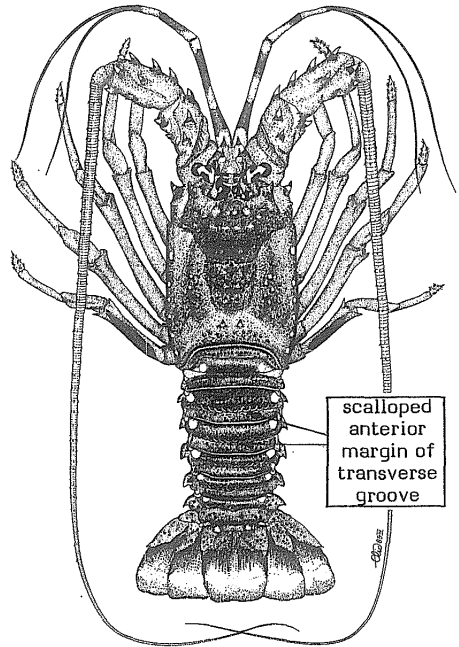
Loc. names : Kamba-koche (D)

FAO names : En - Scalloped spiny lobster
Fr - Langouste festonnée
Sp - Langosta festoneada

Size : Max.: carapace 12 cm; body length 30 cm

Fishing gear : Caught by hand (with a dead octopus as a lure)

Habitat : Mainly found from 1 to 5 m depth but also occurring to 90 m depth, often in turbid waters



Panulirus longipes longipes (A. Milne Edwards, 1868)

Synonyms : None

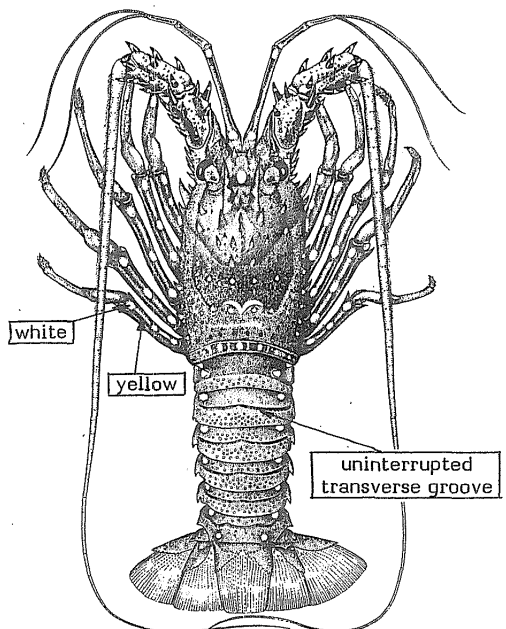
Loc. names : Kamba-koche

FAO names : En - Longlegged spiny lobster
Fr - Langouste diabolotin
Sp - Langosta duende

Size : Max.: body length 30 cm

Fishing gear : Usually taken by hand or with spears

Habitat : In shallow waters, around coral reefs, to about 20 m depth



LOBSTERS

Panulirus ornatus (Fabricius, 1798)

PALINURIDAE

Synonyms : None

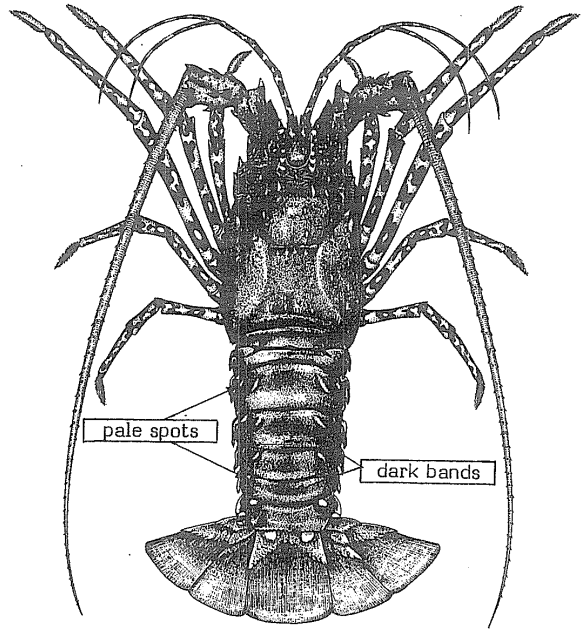
Loc. names : Kamba-koche

FAO names : En - Ornate spiny lobster
Fr - Langouste ornée
Sp - Langosta ornamentada

Size : Max.: body length 50 cm; common to 35 cm

Fishing gear : Usually taken by hand or with spears

Habitat : Shallow, sometimes turbid coastal waters to 8 m depth. The dominant species in East Africa



Panulirus penicillatus (Olivier, 1791)

Synonyms : None

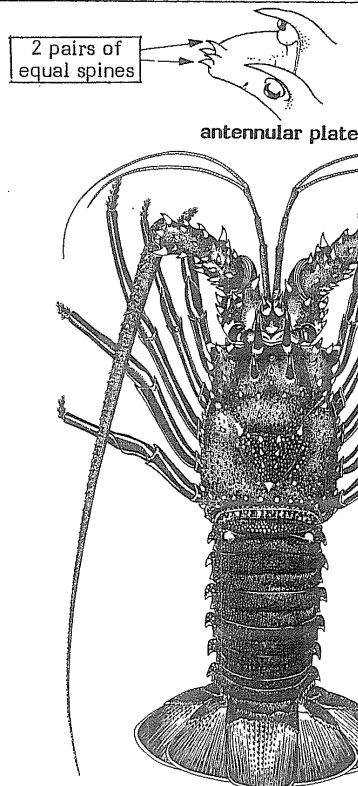
Loc. names : Kamba-koche

FAO names : En - Pronghorn spiny lobster
Fr - Langouste fourchette
Sp - Langosta horquilla

Size : Max.: body length 40 cm; common to 30 cm

Fishing gear : Usually caught by hand or with spears

Habitat : Hard bottoms, mostly from 1 to 4 m depth



LOBSTERS

Panulirus versicolor (Latreille, 1804)

PALINURIDAE

Synonyms :None

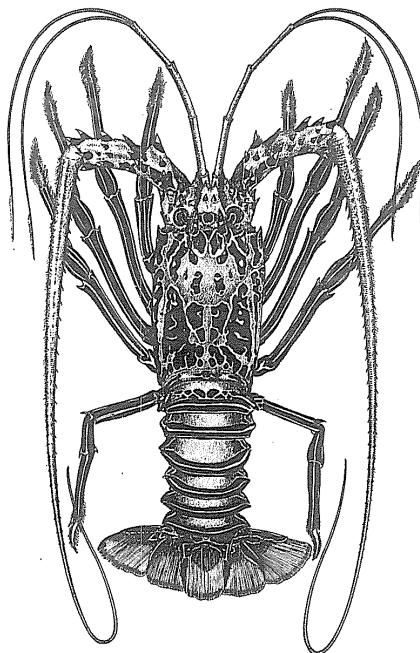
Loc. names :Kamba-koche

FAO names :En - Painted spiny lobster
Fr - Langouste barriolée
Sp - Langosta colorete

Size :Max.: body length, 40 cm; common to 30 cm

Fishing gear :Taken by hand or speared (especially at night)

Habitat :Coral reef areas, to 15 m depth



Thenus orientalis (Lund, 1793)

SCYLLARIDAE

Synonyms :None

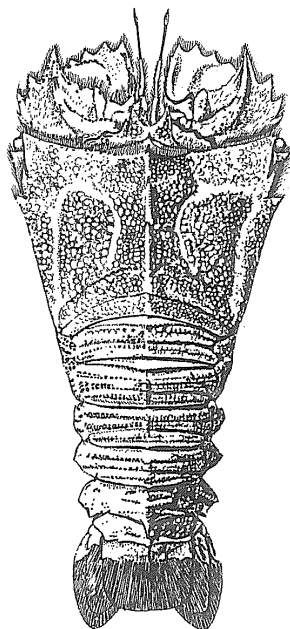
Loc. names :Kamba

FAO names :En - Flathead locust lobster
Fr - Cigale raquette
Sp - Cigarro chato

Size :Max.: 25 cm total length

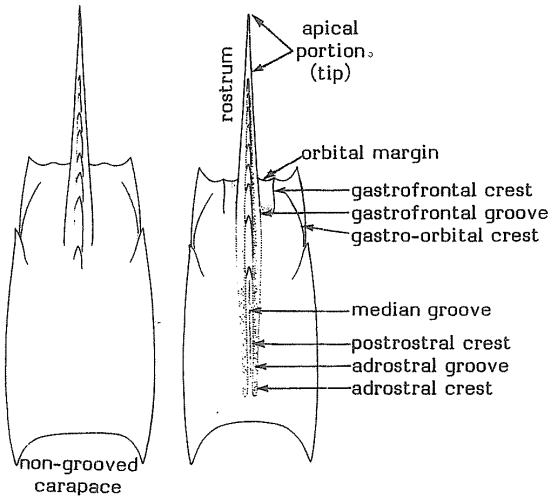
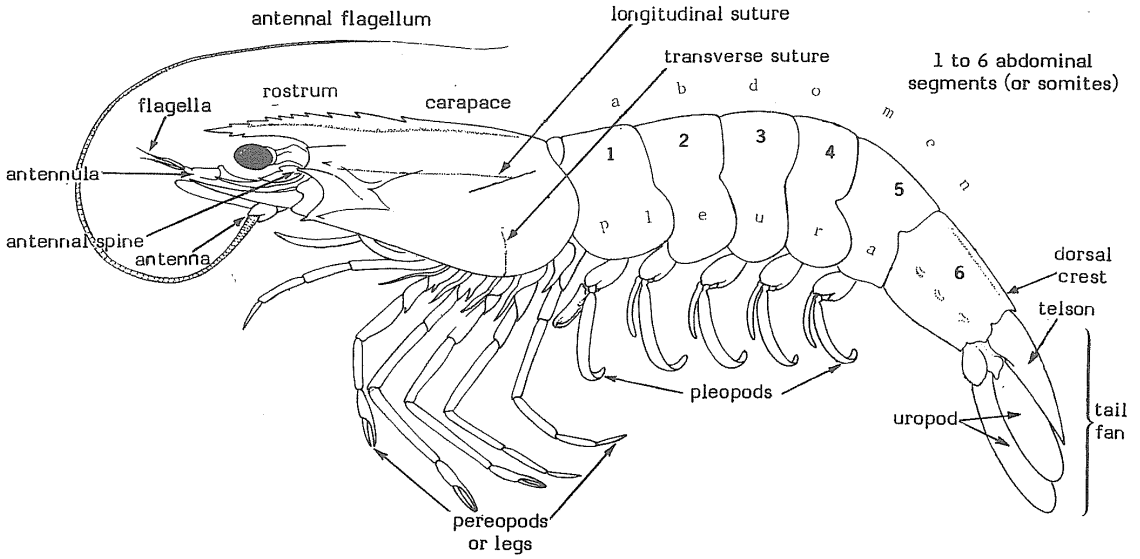
Fishing gear :Usually in trawlers but also taken by divers

Habitat :Soft bottoms, between 8 and 70 m depth

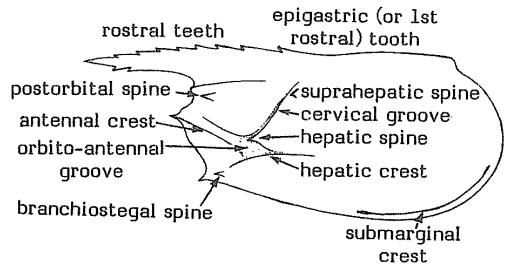


SHRIMPS AND PRAWNS

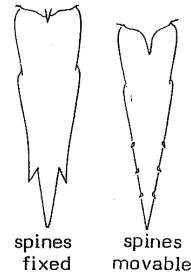
TECHNICAL TERMS



carapace (dorsal view)



carapace (lateral view)



types of spined telsons

SHRIMPS AND PRAWNS

HIPPOLYTIDAE

Exhippolysmata ensirostris (Kemp, 1914)

3 or 4 widely-spaced teeth

elevated crest

Synonyms : Hippolysmata ensirostris (Kemp, 1914)

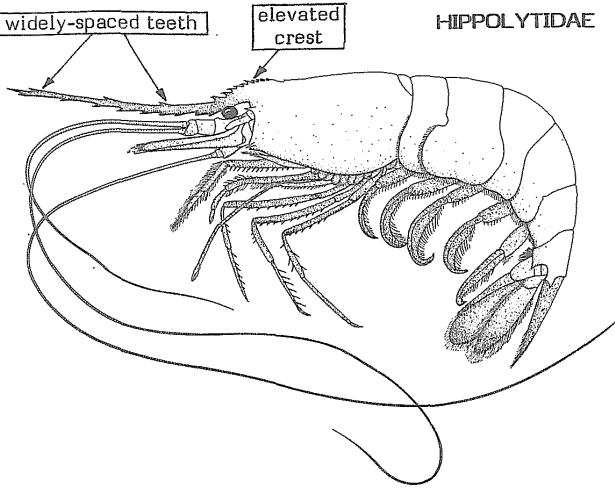
Loc. names : Kamba

FAO names : En - Hunter shrimp
Fr - Bouc chasseur
Sp - Camarón cazador

Size : Max.: 8 cm total length

Fishing gear : Stakenets, shore and boat seines

Habitat : Shallow marine or estuarine waters;
often together with Nematopalaemon tenuipes



Macrobrachium rude (Heller, 1862)

PALAEMONIDAE

Synonyms : Palaemon rudis Heller, 1862

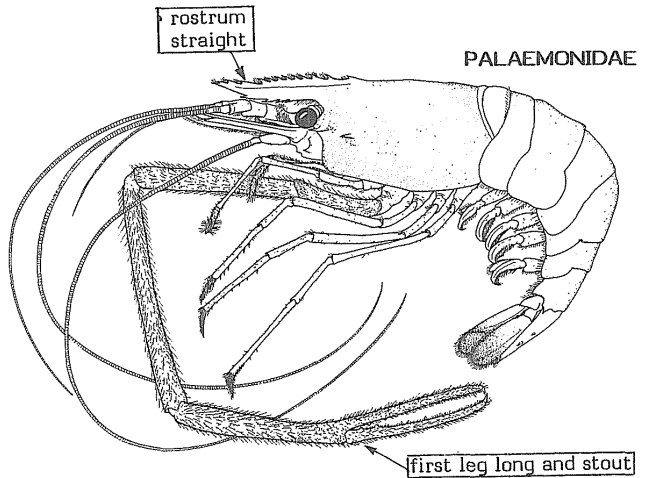
Loc. names : Kamba

FAO names : En - Hairy river prawn
Fr - Bouquet velu
Sp - Camarón de cerda

Size : Max.: 13 cm total length

Fishing gear : Traps, setnets and shore seines

Habitat : Rivers and estuarine areas



Nematopalaemon tenuipes (Henderson, 1893)

no teeth on dorsal margin

elevated crest,
with 4 to 7 teeth

Synonyms : Leander tenuipes Henderson, 1893
Palaemon tenuipes (Henderson, 1893)

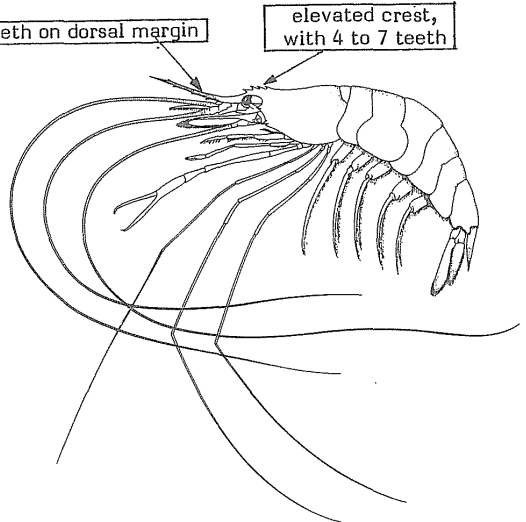
Loc. names : Kamba

FAO names : En - Spider prawn
Fr - Bouquet araignée
Sp - Camarón araña

Size : Max.: 8 cm total length

Fishing gear : Stakenets, shore and boat seines

Habitat : Shallow coastal waters to 20 m depth,
estuaries and brackish waters



SHRIMPS AND PRAWNS

Metapenaeus monoceros (Fabricius, 1798)

PENAEIDAE

Synonyms : None

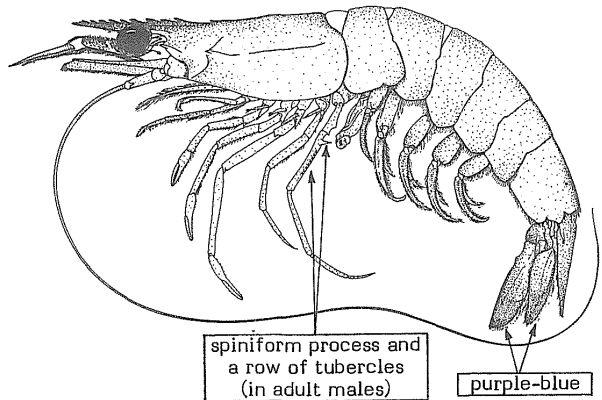
Loc. names : Kamba

FAO names : En - Speckled shrimp
Fr - Crevette mouchetée
Sp - Camarón moteado

Size : Max.: males to 15 cm total length; females to 20 cm

Fishing gear : Boat and shore seines, stakenets and scoopnets

Habitat : From the coastline to about 70 m depth, mainly on mud, sandy-mud or silt; juveniles in estuaries



all body hairy

Metapenaeus stebbingi Nobili, 1904

Synonyms : None

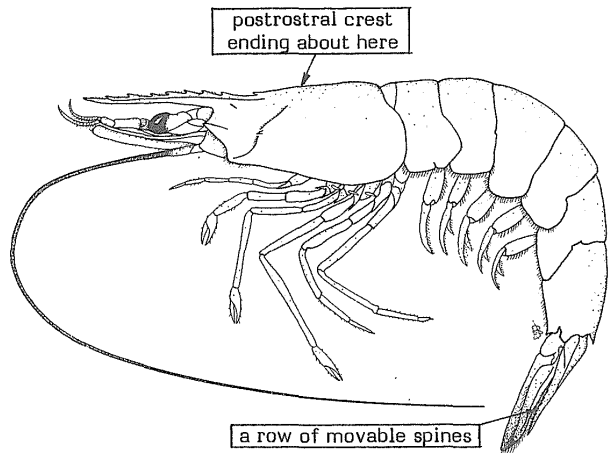
Loc. names : Kamba

FAO names : En - Peregrine shrimp
Fr - Crevette fauçon
Sp - Camarón peregrino

Size : Max.: males to 11 cm total length; females to 14 cm

Fishing gear : Bottom trawls, stakenets, shore seines and castnets

Habitat : From the shore to 90 m depth on sand or mud bottoms



all body naked

Penaeus (Fenneropenaeus) indicus H. Milne Edwards, 1837

Synonyms : None

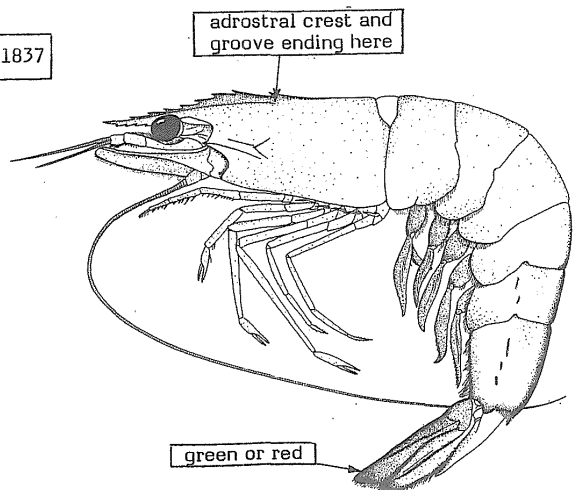
Loc. names : Kamba

FAO names : En - Indian white shrimp
Fr - Crevette royale blanche (des Indes)
Sp - Camarón blanco de la India

Size : Max.: males to about 18 cm total length; females to 23 cm

Fishing gear : Driftnets, stakenets and beach seines

Habitat : From the coastline to 90 m depth on sand or mud bottoms



SHRIMPS AND PRAWNS

Penaeus (Marsupenaeus) japonicus Bate, 1888

PENAEIDAE

Synonyms : None

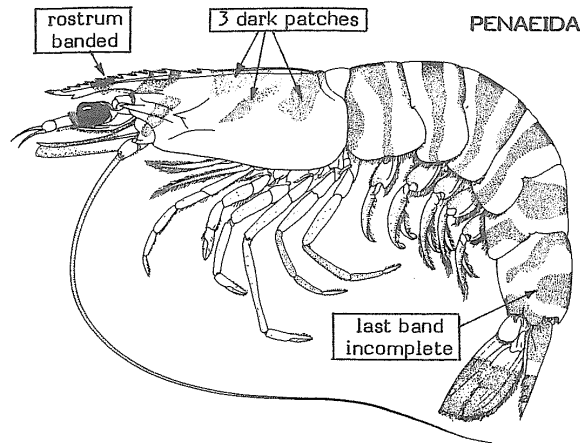
Loc. names : Kamba

FAO names : En - Kuruma shrimp
Fr - Crevette kuruma
Sp - Camarón kuruma

Size : Max.: males to 20 cm total length; females to about 24 cm

Fishing gear : Trawls, driftnets and stakenets

Habitat : Most abundant on sandy bottoms in less than 50 m depth, but found to 90 m



Penaeus (Melicertus) canaliculatus (Olivier, 1811)

Synonyms : None

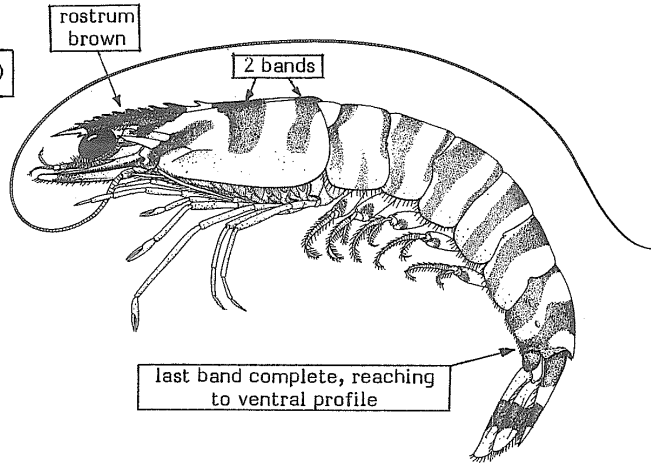
Loc. names : Kamba

FAO names : En - Witch prawn
Fr - Crevette sorcière
Sp - Camarón brujo

Size : Max.: males to 14.5 cm total length; females to 18.2 cm

Fishing gear : Stakenets and trawls

Habitat : From the coastline to 50 m depth; juveniles in estuaries



Penaeus (Melicertus) latisulcatus Kishinouye, 1896

Synonyms : None

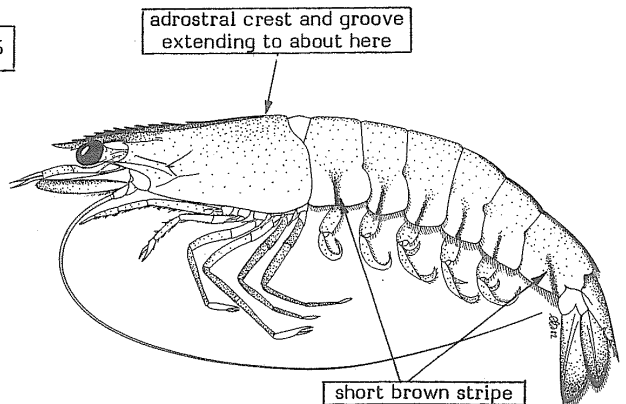
Loc. names : Kamba

FAO names : En - Western king prawn
Fr - Crevette royale occidentale
Sp - Camarón real

Size : Max.: males to 16 cm total length; females to 20 cm

Fishing gear : Trawls and various types of artisanal gear

Habitat : From the coastline to about 80 m depth on sandy/mud bottoms



SHRIMPS AND PRAWNS

Penaeus (Penaeus) monodon Fabricius, 1798

Synonyms : Penaeus bubulus Kubo, 1949

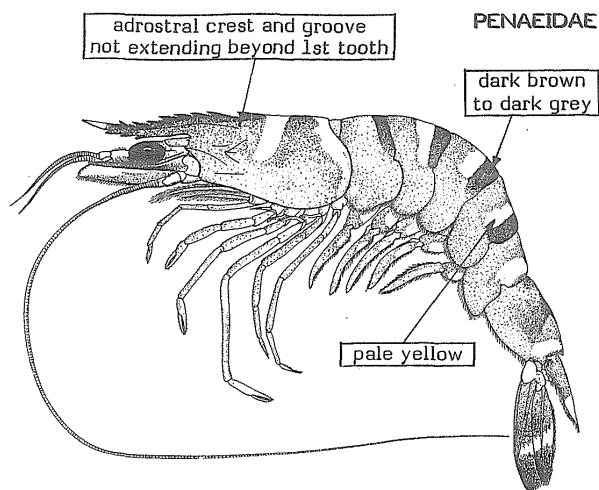
Loc. names : Kamba
Kaji (large specimens)

FAO names : En - Giant tiger prawn
Fr - Crevette géante tigrée
Sp - Camarón tigre gigante

Size : Max.: males to 27 cm total length; females to 34 cm

Fishing gear : Trawls, boat and shore seines, stakenets and traps

Habitat : Largest concentrations are found in waters less than 60 m deep, on sand or mud; juveniles are found in mangrove swamps and estuaries



Penaeus (Penaeus) semisulcatus De Haan, 1844

Synonyms : None

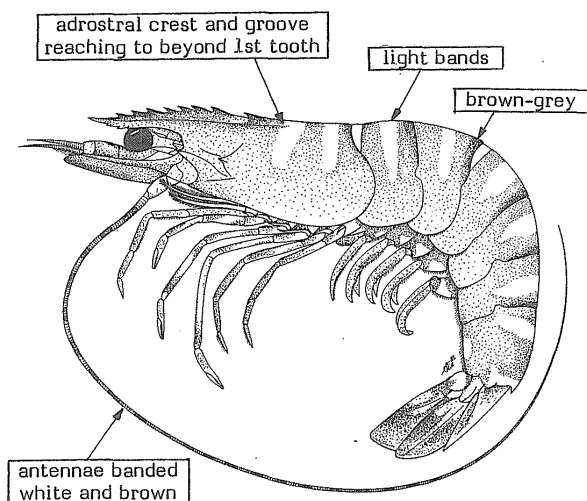
Loc. names : Kamba

FAO names : En - Green tiger prawn
Fr - Crevette tigrée verte
Sp - Camarón tigre verde

Size : Max.: males to 18 cm total length; females to 23 cm

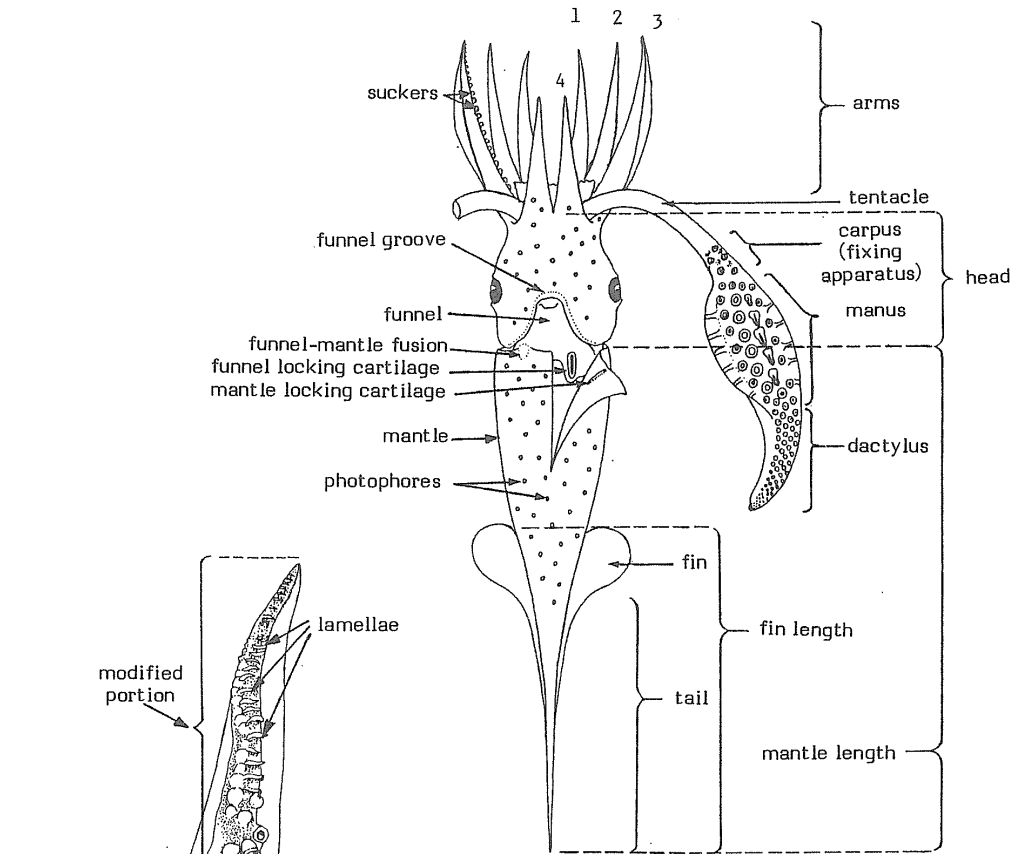
Fishing gear : Trawls, driftnets, boat and shore seines

Habitat : Most abundant in waters less than 60 m deep, on soft bottoms



CEPHALOPODS

TECHNICAL TERMS



a composite diagram illustrating
basic squid (teuthoid) features

ventral view

example of hectocotylized
arm in male (*Illex*)

arm I (dorsal)

CEPHALOPODS

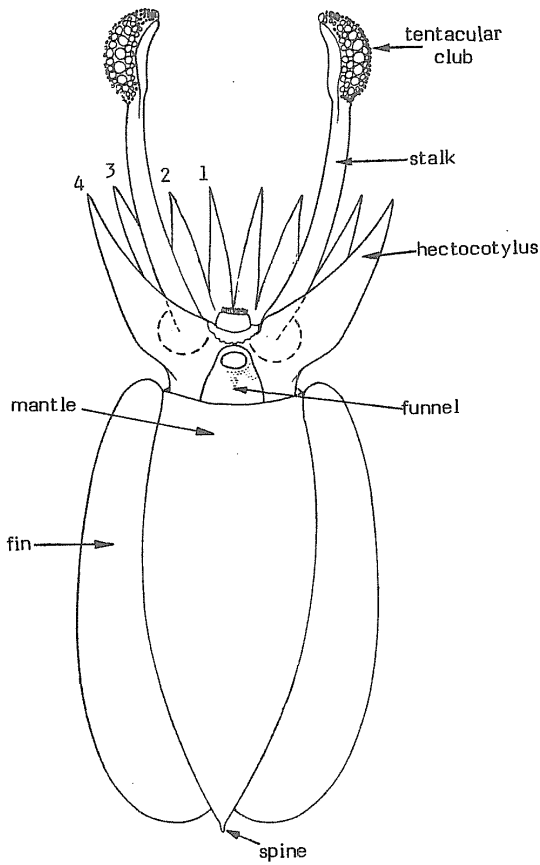


diagram of basic cuttlefish features
(ventral view)

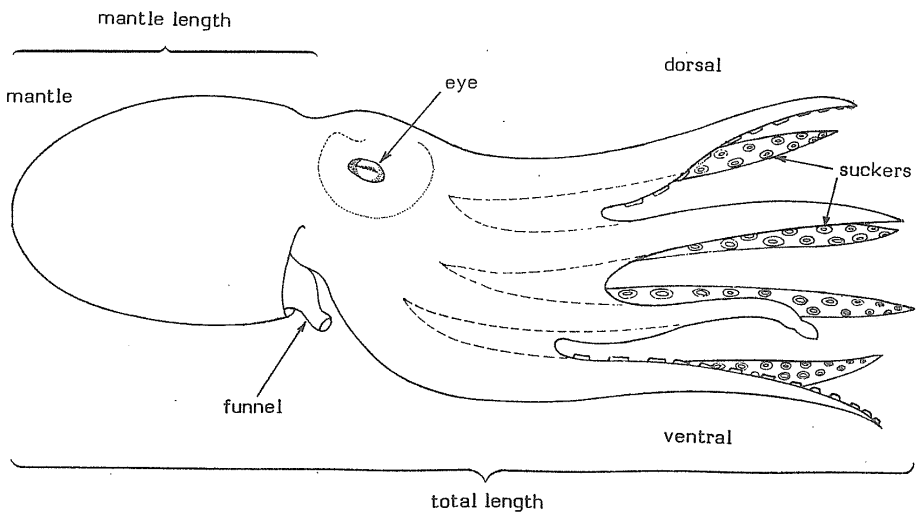
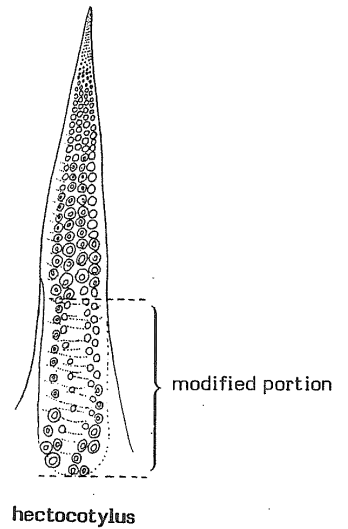
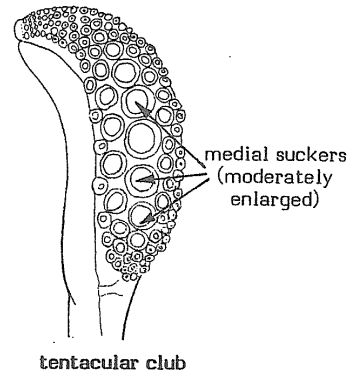


diagram of basic octopus features (lateral view)

CEPHALOPODS

SEPIIDAE

Sepia latimanus Quoy & Gaimard, 1832

Synonyms : Sepia rappiana Ferussac, 1835
Sepia mozambica Rochebrune, 1884
Sepia hercules Pilsbry, 1894

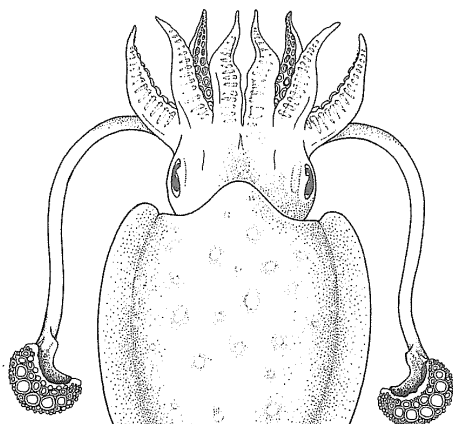
Loc. names : Dome (T)

FAO names : En - Broadclub cuttlefish
Fr - Seiche grandes mains
Sp - Sepia mazuda

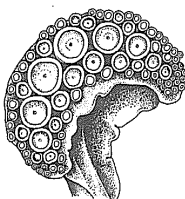
Size : Max.: 50 cm mantle length

Fishing gear : Handlines, setnets and spears

Habitat : Shallow waters, coral reefs, to at least 30 m depth



dorsal view



tentacular club

Sepia pharaonis Ehrenberg, 1831

Synonyms : Sepia rouxi Orbigny, 1841
Sepia formosana Berry, 1912
Sepia formosana Sasaki, 1929
Sepia tigris Sasaki, 1929

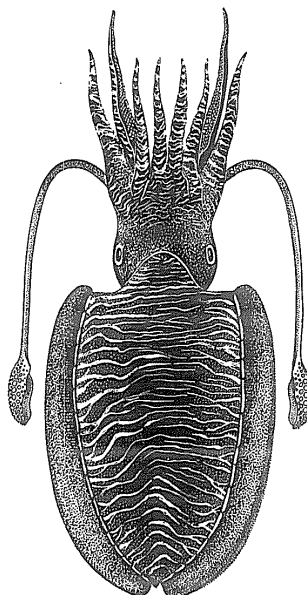
Loc. names : Dome (T)

FAO names : En - Pharac cuttlefish
Fr - Seiche faraon
Sp - Sepia faraónica

Size : Max.: 36 cm mantle length (males); 30 cm (females)

Fishing gear : Handlines, setnets, spears and trawls

Habitat : From the coastline to about 100 m depth; most abundant in shallow waters, especially during the reproduction season



dorsal view

CEPHALOPODS

SEPIIDAE

Sepia prashadi Winckworth, 1936

Synonyms : None

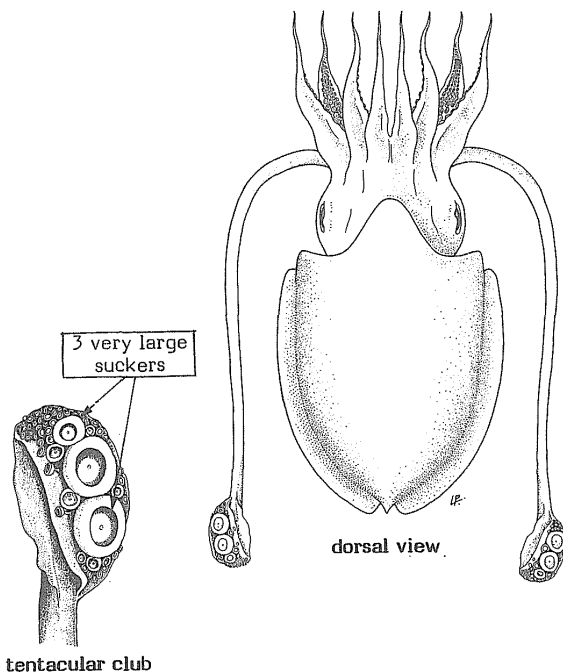
Loc. names : Dome

FAO names : En - Hooded cuttlefish
Fr - Seiche capuchon
Sp - Sepia caperuza

Size : Max.: 14 cm mantle length;
common to 11 cm

Fishing gear : Trawls

Habitat : Shallow waters, from the coastline to about 40 m depth



Loligo duvauceli Orbigny, 1848

LOLIGINIDAE

Synonyms : Loligo oshimai Sasaki, 1929
Loligo indica Pfeffer, 1884

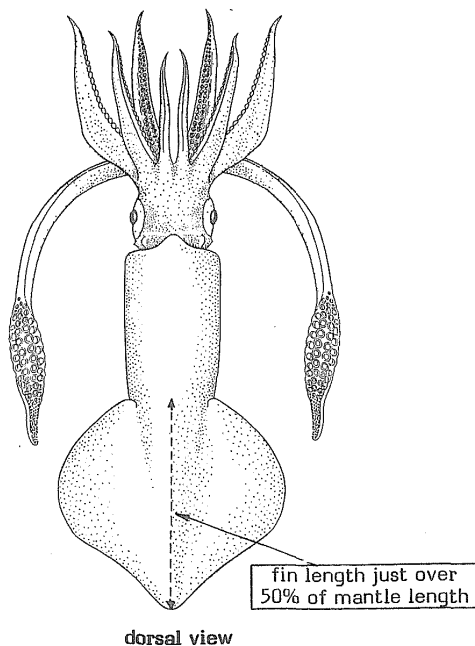
Loc. names : Ngisi (T)(D)

FAO names : En - Indian squid
Fr - Calmar indien
Sp - Calamar indico

Size : Max.: 29 cm mantle length

Fishing gear : Trawls and seines

Habitat : Continental shelf, from 30 to 170 m depth; forms large aggregations during the spawning season



CEPHALOPODS

Loligo forbesi Steenstrup, 1856

LOLIGINIDAE

Synonyms : None

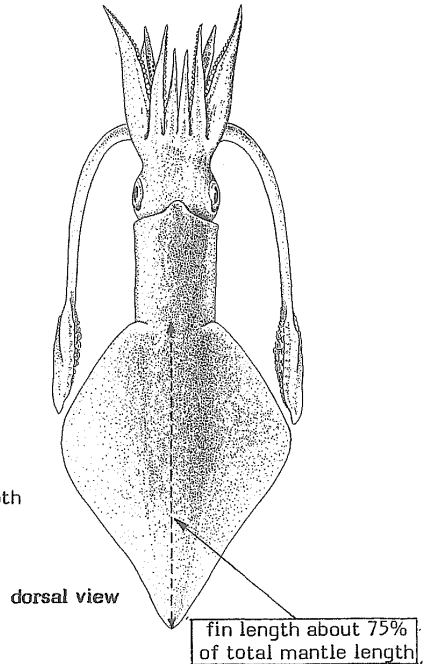
Loc. names : Ngisi-msumari (T)
Ngisi

FAO names : En - Veined squid
Fr - Encornet veiné
Sp - Calamar veteadó

Size : Max.: 90 cm mantle length
(males); 41 cm (females)

Fishing gear : Trawls

Habitat : Mainly continental shelf but ranging from 100 to 400 m depth



Onychoteuthis banksi (Leach, 1817)

ONYCHOTEUTHIDAE

Synonyms : Loligo banksi Leach, 1817

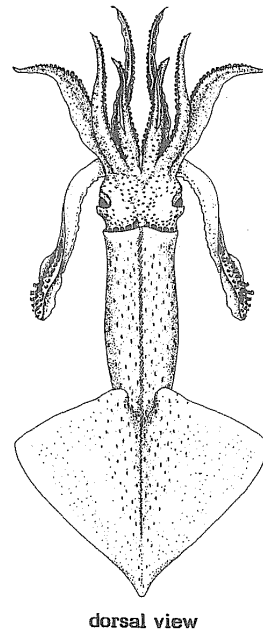
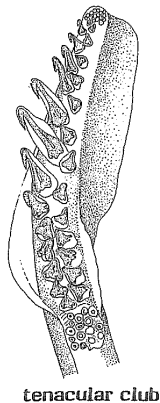
Loc. names :

FAO names : En - Common clubhook squid
Fr - Cornet crochu
Sp - Luria ganchuda

Size : Max.: 30 cm mantle length

Fishing gear : Not exploited at present

Habitat : Oceanic, from the surface to 150 m depth, but found as deep as 800 m



CEPHALOPODS

OMMASTREPHIDAE

Ommastrephes bartrami (LeSueur, 1821)

Synonyms : Loligo bartrami LeSueur, 1821
Sthenoteuthis bartrami (invalid generic name)

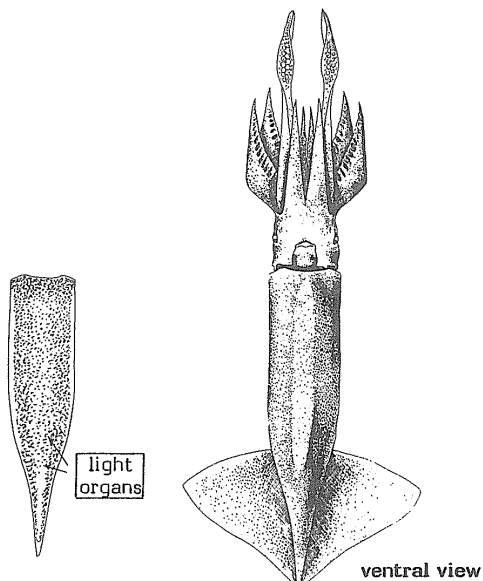
Loc. names :

FAO names : En - Neon flying squid
Fr - Encornet volant
Sp - Pota saltadora

Size : Max.: 50 cm mantle length
(females); males smaller

Fishing gear : Not exploited at present

Habitat : Oceanic, from the surface to
1,500 m depth



ventral view

fin length 40 to 45%
of mantle length

Symplectoteuthis oualaniensis (Lesson, 1830)

Synonyms : Loligo oualaniensis Lesson, 1830
Loligo vanicoriensis Quoy & Gaimard, 1832
Ommastrephes oceanicus Orbigny, 1835-1848

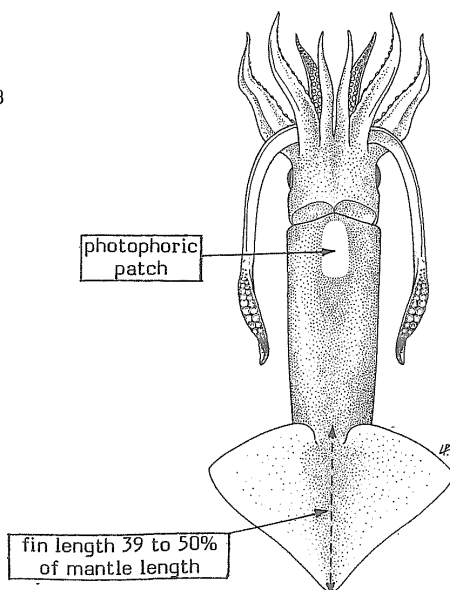
Loc. names :

FAO names : En - Purpleback flying squid
Fr - Encornet bande violette
Sp - Pota cárdena

Size : Max.: 35 cm mantle length

Fishing gear : Not exploited at present

Habitat : Oceanic, from the surface to
1,000 m depth



dorsal view

fin length 39 to 50%
of mantle length

CEPHALOPODS

Thysanoteuthis rhombus Troschel, 1857

THYSANOTEUTHIDAE

Synonyms : Thysanoteuthis nuchalis Pfeffer, 1912

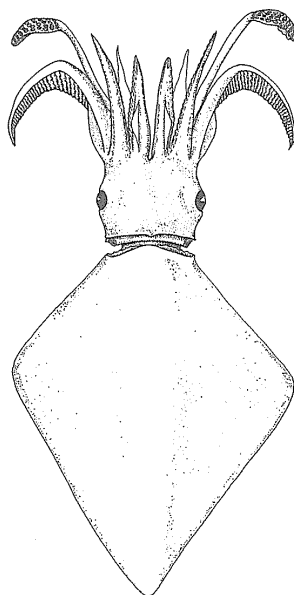
Loc. names :

FAO names : En - Diamondback squid
Fr - Chipiloua commun
Sp - Chipirón volantín

Size : Max.: 1 m mantle length; common to 60 cm

Fishing gear : Not exploited at present

Habitat : At the surface, in the open ocean



dorsal view

Octopus aegina Gray, 1849

OCTOPODIDAE

Synonyms : Octopus kagoshimensis Ortmann, 1888

Loc. names : Pweza

FAO names : En - Sandbird octopus
Fr - Poulpe des sables
Sp - Pulpo reticulado

Size : Max.: 30 cm total length

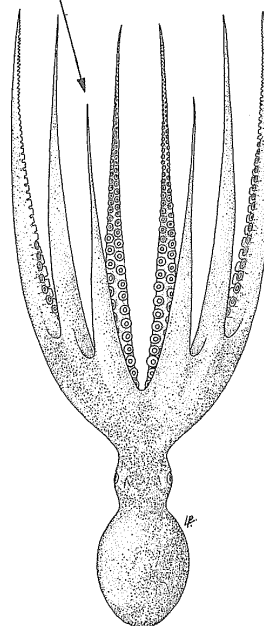
Fishing gear : Traps or hook-and-line

Habitat : On the bottom, from 30 to 120 m depth



tip of hectocotylized right arm IV of male

1st arm much shorter than others



dorsal view

CEPHALOPODS

Octopus cyaneus Gray, 1849

OCTOPODIDAE

Synonyms : Octopus marmoratus Hoyle, 1885; Joubin, 1894; Berry, 1909
Octopus horsti Joubin, 1898

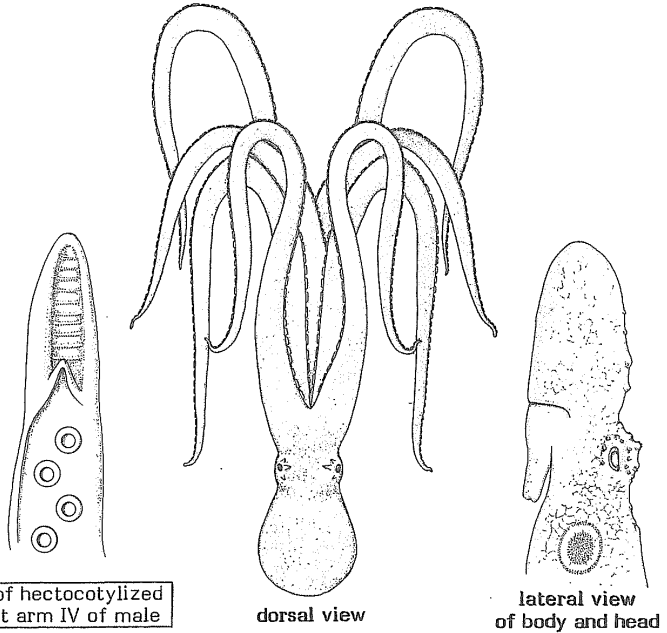
Loc. names : Pweza

FAO names : En - Big blue octopus
 Fr - Gros poulpe bleu
 Sp - Pulpo azulón

Size : Max.: 120 cm total length

Fishing gear : Traps and spears (using light attraction devices)

Habitat : Shallow waters on coral reefs



Octopus macropus Risso, 1826

Synonyms : Octopus cuvier Orbigny, 1840
Octopus longimanus Orbigny, 1840
Octopus bermudensis Hoyle, 1885
Octopus chromatus Heilprins, 1888

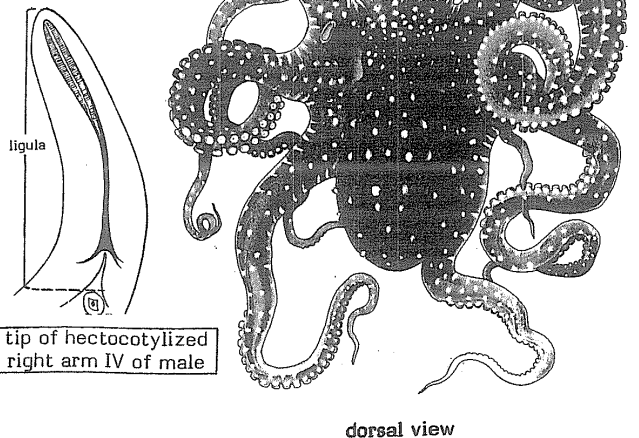
Loc. names : Kangu (T)
 Pweza

FAO names : En - White-spotted octopus
 Fr - Poulpe tacheté
 Sp - Pulpo manchado

Size : Max.: 150 cm total length

Fishing gear : Spears, hook-and-line and traps

Habitat : A shallow water species, in coral reefs, reef flats and open bottoms



CEPHALOPODS

Octopus vulgaris Cuvier, 1797

OCTOPODIDAE

Synonyms : Octopus vulgaris Lamark, 1798

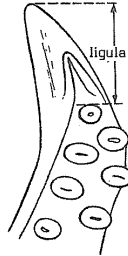
Loc. names : Kangu (T)
Pweza

FAO names : En - Common octopus
Fr - Pieuvre
Sp - Pulpo común

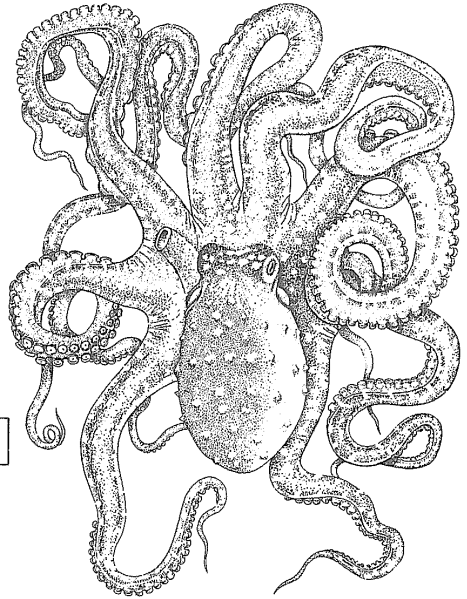
Size : Max.: 1.2 m total length
(females); 1.3 m (males)

Fishing gear : Spears and hook-and-line

Habitat : Found on a variety of habitats
(rocks, coral reefs, grass beds)
from the coastline to about
200 m depth



tip of hectocotylized
right arm IV of male

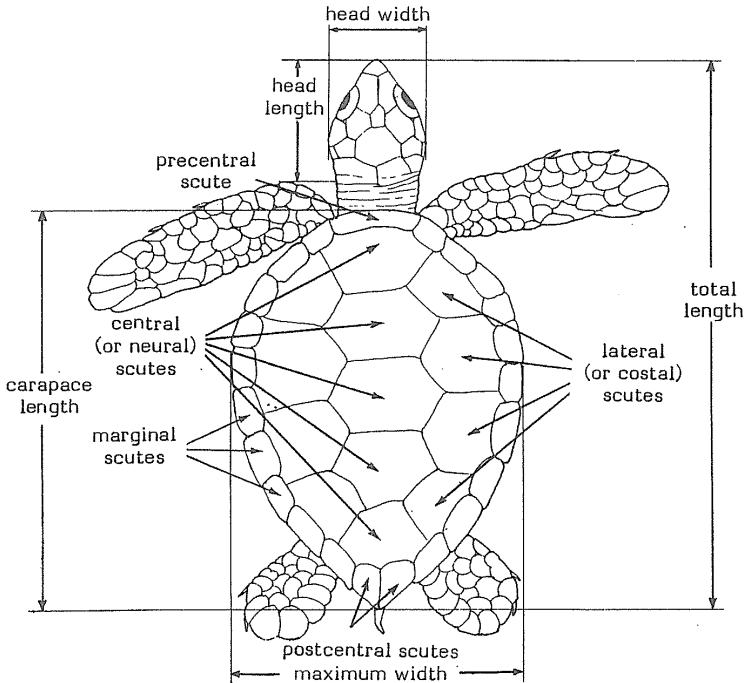


dorsal view

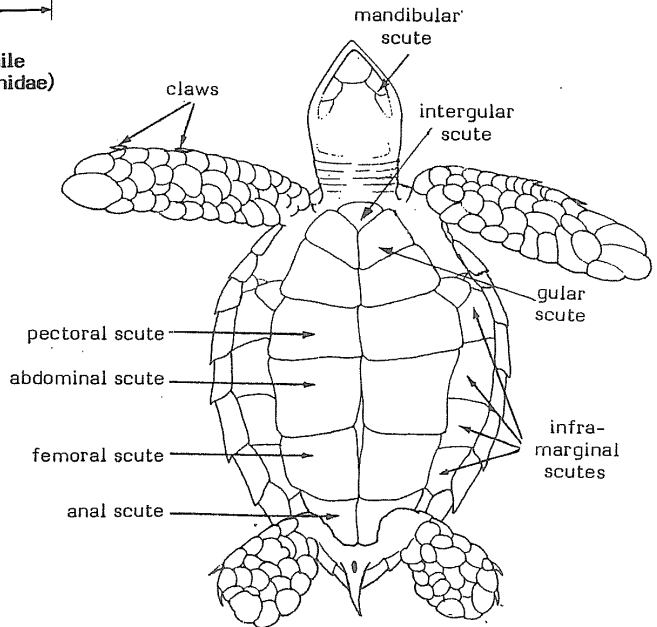
SEA TURTLES

TECHNICAL TERMS AND PRINCIPAL MEASUREMENTS

(Straight-line distances)



**dorsal view of a juvenile
sea turtle (Family Cheloniidae)**



**ventral view of a juvenile
sea turtle (Family Cheloniidae)**

SEA TURTLES

CHELONIDAE

Caretta caretta gigas (Deraniyagala, 1939)

Synonyms : None

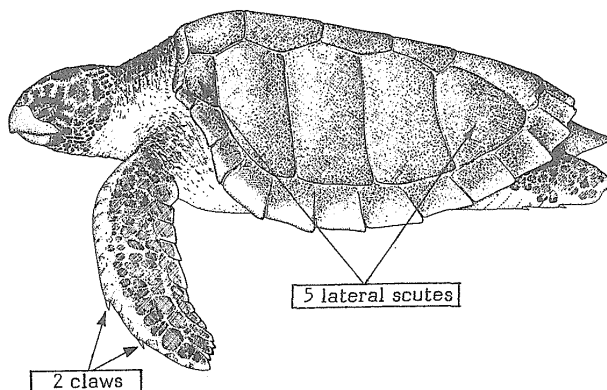
Loc. names : Kasa

FAO names : En - Pacific loggerhead turtle
Fr - Tortue caouane du Pacifique
Sp - Tortuga cahuama del Pacifico

Size : Max.: carapace length 125 cm;
common to 110 cm

Fishing gear : Nets, harpoons or on the beach
by turning the animal on its back

Habitat : Open sea, river mouths and
brackish water



Chelonia mydas agassizii (Bocourt, 1868)

Synonyms : None

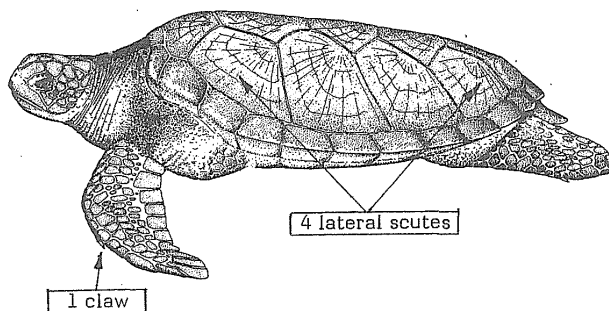
Loc. names : Kasa

FAO names : En - Pacific green sea turtle
Fr - Tortue verte du Pacifique
Sp - Tortuga verde del Pacifico

Size : Max.: carapace length 120 cm;
common to 80 cm

Fishing gear : Nets, harpoons and on the beach
by turning the animal on its back

Habitat : Shallow water with abundance of
submerged vegetation



Eretmochelys imbricata bissa (Rüppell, 1835)

Synonyms : None

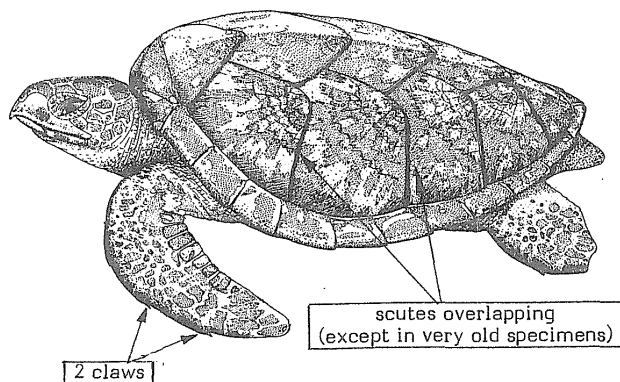
Loc. names : Kasa

FAO names : En - Pacific hawksbill turtle
Fr - Tortue caret du Pacifique
Sp - Tortuga de carey del Pacifico

Size : Max.: carapace length 100 cm;
common to 80 cm

Fishing gear : Nets, seines, harpoons or as
bycatch in trawls

Habitat : Coastal waters, on shallow vege-
tated bottoms, bays, lagoons
with muddy or coral-line
bottoms



SEA TURTLES

Lepidochelys olivacea (Eschscholtz, 1829)

CHELONIDAE

Synonyms : None

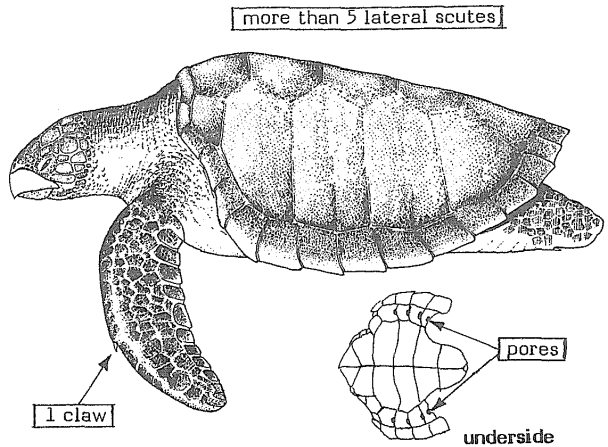
Loc. names : Kasa

FAO names : En - Pacific ridley turtle
Fr - Tortue ridley du Pacifique
Sp - Tortuga golfina

Size : Max.: carapace length 76 cm;
common to 70 cm

Fishing gear : On the beach, by turning the animal on its back; or as bycatch in trawls

Habitat : Shallow coastal waters as well as open sea



Dermochelys coriacea schlegelii (Garman, 1884)

DERMOCHELIDAE

Synonyms : None

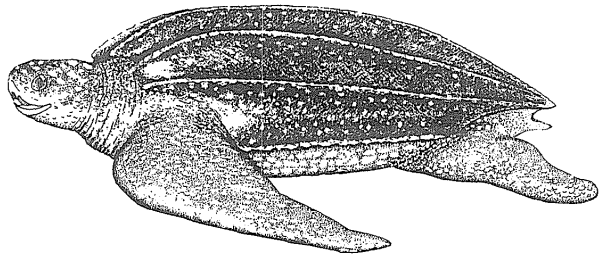
Loc. names : Kasa

FAO names : En - Pacific leatherback turtle
Fr - Tortue luth du Pacifique
Sp - Tortuga laúd del Pacífico

Size : Max.: carapace length 180 cm;
common to 140 cm

Fishing gear : Nets and harpoons

Habitat : Mainly oceanic, approaching beaches seasonally



INDEX OF SCIENTIFIC AND VERNACULAR NAMES

EXPLANATION OF THE SYSTEM

Type faces used:

- Italics*** \ : Valid scientific names (genera and species)
 : Synonyms (preceded by an asterisk)
- ROMAN (caps)** / : Family Names
- Roman** : International (FAO) species names
 : Local names

PAGE

PAGE

A

* <i>Abalistes stellaris</i>	127
<i>Abalistes stellatus</i>	127
<i>Ablennes hians</i>	24
<i>Abudefduf saxatilis</i>	97
<i>Acanthocybium solandri</i>	116
<i>Acanthopagrus berda</i>	86
<i>Acanthopagrus bifasciatus</i>	87
ACANTHURIDAE	112-114
<i>Acanthurus bleekeri</i>	112
<i>Acanthurus dussumieri</i>	112
* <i>Acanthurus fulginosus</i>	112
<i>Acanthurus leucosternon</i>	114
<i>Acanthurus lineatus</i>	114
* <i>Acanthurus matoides</i>	112
<i>Acanthurus tennentii</i>	114
<i>Acanthurus triostegus</i>	114
<i>Acanthurus xanthopterus</i>	112
<i>acinaces, Gerres</i>	60
<i>acuta, Dussumieria</i>	4
<i>Aethaloperca rogae</i>	29
* <i>affinis, Caranx</i>	44
<i>affinis, Euthynnus</i>	117
* <i>afra, Allanetta</i>	22
<i>African coris</i>	109
<i>African longfin eel</i>	15
<i>African mottled eel</i>	15
<i>African pompano</i>	43,55
<i>African sea catfish</i>	16
<i>African spadefish</i>	96
<i>africana, Coris gaimard</i>	109
<i>africanus, Arius</i>	16
<i>africanus, Atherion</i>	22
* <i>africanus, Tachysurus</i>	16
<i>africanus, Trachinotus</i>	55
<i>Aguja azul</i>	122
<i>Aguja negra</i>	122
<i>Agujeta de Dussumier</i>	24
<i>Agujeta de Lutke</i>	23
<i>Agujeta manchada</i>	23
<i>Agujón cintado</i>	25
<i>Agujón de quilla</i>	24
<i>Agujon needlefish</i>	25
<i>Agujón sable</i>	24
<i>Aiguille crocodile</i>	25
<i>Aiguille voyeuse</i>	25
<i>Aiguillette ruban</i>	25
* <i>ajax, Carangoides</i>	43
* <i>akame, Liza</i>	98
* <i>alalunga, Germa</i>	120
<i>alalunga, Thunnus</i>	120
<i>albacares, Thunnus</i>	120
* <i>albacora, Neothunnus</i>	120
<i>Albacore</i>	120
<i>albella, Sardinella</i>	7
<i>albimarginata, Variola</i>	38
<i>albimarginatus, Carcharhinus</i>	131
<i>albomarginata, Gracila</i>	36
* <i>Albula glossodonta</i>	3
* <i>Albula neoguinaica</i>	3

<i>Albula vulpes</i>	3
ALBULIDAE	3
* <i>aldabrensis, Dermatolepis</i>	31
<i>Alectis ciliaris</i>	43
* <i>Alectis crinitus</i>	43
<i>Alectis indicus</i>	43
<i>Alepes djedaba</i>	44
* <i>Allanetta afra</i>	22
* <i>Allanetta klunzingeri</i>	22
<i>Almaco jack</i>	54
<i>Alopias vulpinus</i>	130
ALOPIIDAE	130
<i>Alose palli</i>	6
<i>Alose-écaille indienne</i>	6
* <i>altifrontalis, Lutjanus</i>	64
* <i>altissimus, Carangoides</i>	44
<i>Alutera monoceros</i>	128
* <i>Aluteres monoceros</i>	128
* <i>amarulus, Mugil</i>	100
* <i>amblycephala, Umbrina</i>	89
* <i>amblycephalus, Johnius</i>	89
<i>Amblygaster leiogaster</i>	4
<i>Amblygaster sirm</i>	4
<i>Amzani</i>	130
<i>Anchois bombra</i>	10
<i>Anchois boucanier</i>	9
<i>Anchois devis</i>	10
<i>Anchois douanier</i>	9
<i>Anchois indien</i>	9
<i>Anchois japonais</i>	8
<i>Anchois-moustache</i>	11
<i>cristal</i>	
<i>Anchois-moustache</i>	10
<i>sardin</i>	
<i>Anchois-moustache cornu</i>	11
<i>Anchoita japonese</i>	8
<i>Anchova de banco</i>	42
* <i>Anchoviella commersonii</i>	10
* <i>Anchoviella heterolobus</i>	9
* <i>Anchoviella indica</i>	9
<i>Angel fishes</i>	97
<i>Anguila de aleta corta</i>	15
<i>Anguila de aleta larga</i>	15
<i>(de Africa)</i>	
<i>Anguila moteada</i>	15
<i>(de Africa)</i>	
<i>Anguilla bengalensis</i>	15
<i>labiata</i>	
* <i>Anguilla bicolor</i>	15
<i>Anguilla bicolor bicolor</i>	15
<i>Anguilla mossambica</i>	15
* <i>Anguilla nebulosa labiata</i>	15
* <i>anguillaris, Plotosus</i>	18
<i>Anguille à longue</i>	15
<i>nageoire (d'Afrique)</i>	
<i>Anguille à nageoire</i>	15
<i>courte</i>	
<i>Anguille marbrée</i>	15
<i>(d'Afrique)</i>	
ANGUILLIDAE	15
* <i>angulata, Coris</i>	105
* <i>angustilineata, Umbrina</i>	90
<i>angustirostris,</i>	123
<i>Tetrapturus</i>	
<i>annulatus, Hologymnosus</i>	106

	PAGE		PAGE
Anoli à grandes écaïlles	19	Atún blanco	120
Anoli d'Engleman	19	Atún tongol	121
Anoli grêle	18	* audax, Makaira	123
Anoli serpent	20	audax, Tetrapturus	123
Anoli tumbil	19	AULOSTOMIDAE	27
Anolie bigarre	20	Aulostomus chinensis	27
* anpinensis, Liza	99	aurantia, Cephalopholis	30
Antepa	121	aurolineatus, Gnathodentex	81
Anyperodon leucogrammicus	29	* Authistes puta	39
Aphareus furcatus	61	Auxide	117
Aphareus rutilans	61	* Auxis hira	117
APOGONIDAE	40	* Auxis tapeinosoma	117
Apogons	40	Auxis thazard	117
* Apolectus niger	53	* axillaris, Mugil	101
Aprion virescens	62	aygula, Coris	105
Apsilus fuscus	62		
Arabian monocle bream	74		
* arab, Plotosus	18		
Aranque banda azul	5		
* arcticus, Galeocerdo	130	B	
Arencon de alella blanca	12		
Arencón dorab	11		
Arenque manchado	5		
Arenquillo de banda	8		
Arenquillo fino	8		
Areolated grouper	32	Bacoreta oriental	117
areolatus, Epinephelus	32	Baelama anchovy	10
argalus, Platybelone	24	* baelama, Thrissina	10
argenteus, Monodactylus	95	* baelama, Thriassocles	10
* argenteus, Otolithes	90	baelama, Thyryssa	10
* argenteus, Otolithus	90	Baga delagoa	72
argenteus, Siganus	115	Baga elegante	73
argentimaculatus, Lutjanus	63	Baga japonesa	73
* argentivittatus, Thynnus	120	bagio, Muraenesox	13
* arge, Upeneus	93	Bagre africano	16
argus, Cephalopholis	30	Bagre malgache	16
* argyrogrammicus,	70	Bagre mozambiqueño	16
Pristipomoides		Bagre titán	17
* argyrophanes, Saurida	19	Bagre veteadó	17
Argyrops filamentosus	87	baillonii, Trachinotus	55
Argyrops spinifer	87	bajad, Carangoides	46
ARIIDAE	16-17	Balibot aille noire	17
Arius africanus	16	Balibot rayé	18
Arius madagascariensis	16	Baliste dents rouges	127
Arius polystaphylodon	16	Baliste étoilé	127
* Arius serratus	17	Baliste masqué	127
Arius thalassinus	17	BALISTIDAE	127
Arius venosus	17	Balloofish	128
armatus, Carangoides	46	Banane	3
* Arndha zebra	13	Banded grunt	80
arsius, Pseudorhombus	125	Banded needlefish	25
asper, Rogadius	29	Bangra	118
* Atherina forskalii	21	Baraonga aurora	38
Athérine à nez râpeux	22	Baraonga jarbúa	39
Athérine samoan	22	Baraonga ronco	39
Athérine tête	21	Baraonga tigre	39
Athérine de Barnes	22	barberinus, Parupeneus	91
ATHERINIDAE	21-22	Barbero de aguijón azul	113
Atherinomorus lacunosus	21	Barbero liso	113
Atherion africanus	22	Barbudo de mancha	104
* Atinga orbicularis	128	Barbudo índio	103
coeruleus		Barbudo rayado	103
* Atule djedaba	44	Barbure indien	103
Atule mate	44	Barbure rayé	103
		Barbure tache noire	104

	PAGE		PAGE
Barcheek trevally	47	Black-saddled coral-	36
Barnes' silverside	22	trout	
<i>barnesi</i> , <i>Hypoatherina</i>	22	Blackbanded trevally	55
Barracuda	101	Blackeye thicklip	106
Barracuda jello	102	Blackmouth angler	21
<i>barracuda</i> , <i>Sphyaena</i>	101	Blackspot snapper	64
Barred rubberlip	79	Blackspot threadfin	104
Barred thicklip	109	Blackspotted rubberlip	76
Bartail flathead	28	Blacktail snapper	65
* <i>Bassetina hullianus</i>	56	Blacktip sardinella	6
Batfish	98	Blacktip trevally	49
Bati	58	Blanche commune	61
Baudroie bouche noire	21	Blanche élégante	61
Baudroie marache	20	Blanche fil	60
Bearded croaker	89	Blanche gouvernail	60
Beauclaire de roche	40	Bleeker's surgeonfish	112
Beauclaire miroir	40	<i>bleekeri</i> , <i>Acanthurus</i>	112
Bécune chevronnée	102	<i>bleekeri</i> , <i>Nemipterus</i>	72
Bécune de Forster	101	* <i>bleekeri</i> , <i>Sphyaena</i>	102
Bécune obtuse	102	* <i>Blepharis crinitus</i>	43
Bécune queue jaune	103	<i>blochii</i> , <i>Trachinotus</i>	56
* <i>Belone ciconia</i>	25	Blowfishes	126
* <i>Belone leiurus</i>	25	Blubberlip snapper	67
* <i>Belone platyura</i>	24	Bludger	47
* <i>Belone platyura</i>	24	Blue and gold fusilier	71
BELONIDAE	24-25	Blue and yellow grouper	33
Bengal snapper	63	Blue fusilier	71
<i>bengalensis</i> , <i>Lutjanus</i>	63	Blue marlin	122
Bensasi goatfish	92	Blue sea chub	95
<i>bensasi</i> , <i>Upeneus</i>	92	Blue trevally	46
Berber ponyfish	59	Blue-lined large-eye	81
<i>berbis</i> , <i>Leiognathus</i>	59	bream	
<i>berda</i> , <i>Acanthopagrus</i>	86	Blue-spot mullet	101
* <i>berda</i> , <i>Mylio</i>	86	Blue-tail mullet	100
Besugato cariblanco	74	Bluedotted coral-trout	36
Besugato de Arabia	74	Bluefin trevally	48
Besugato de San Pedro	74	Bluefish	42
Besugato rosado	73	Bluelined hind	30
* <i>bicolor</i> , <i>Anguilla</i>	15	Blueskin seabream	88
<i>bicolor</i> , <i>Anguillabicolor</i>	15	Bluespine unicornfish	113
* <i>bicolor</i> , <i>Bolbometopon</i>	110	Bluespotted cornetfish	27
<i>bicolor</i> , <i>Cetoscarus</i>	110	Bluespotted jobfish	70
Bicolour parrotfish	110	Bluestripe herring	5
<i>bifasciatus</i> , <i>Acanthopagrus</i>	87	Bluntnose lizardfish	20
* <i>bifasciatus</i> , <i>Mylio</i>	87	* <i>Blythsciaena dussumieri</i>	89
<i>bifasciatus</i> , <i>Parupeneus</i>	94	Bocarte belama	10
* <i>bifasciatus</i> , <i>Sparus</i>	87	Bocarte cristal	11
* <i>bifer</i> , <i>Novaculichthys</i>	106	Bocarte de cuernos	11
Bigeye barracuda	101	<i>Bodianus bilunulatus</i>	104
Bigeye scad	54	<i>bilunulatus</i>	
Bigeye snapper	66	<i>Bodianus diana</i>	108
Bigeye trevally	49	<i>Bodianus trilineatus</i>	108
Bigeye tuna	120	<i>bohar</i> , <i>Lutjanus</i>	63
Bigspot grouper	33	* <i>Bolbometopon bicolor</i>	110
<i>bilunulatus</i> , <i>Bodianus</i>	104	<i>Bolbometopon muricatum</i>	110
<i>bilunulatus</i>		Bombache tigre moyer	90
* <i>bilunulatus</i> , <i>Lepidaplois</i>	104	Bonefish	3
<i>bimaculatus</i> , <i>Scolopsis</i>	74	Bonite à gros yeux	117
<i>bipinnulata</i> , <i>Elagatis</i>	51	Bonite à ventre rayé	118
Bird wrasse	109	Bonite oriental	118
Birdbeak burrfish	128	Bonito mono	118
Black marlin	122	Boquerón aduanero	9
Black pomfret	53	Boquerón bomba	10
Black-and-white snapper	69	Boquerón bucanero	9
Black-barred halfbeak	23	Boquerón de Devis	10

	PAGE		PAGE
* <i>Caranx mate</i>	44	<i>chanos, Chanos</i>	18
* <i>Caranx medusicola</i>	48	<i>Chanos chanos</i>	18
<i>Caranx melampygu</i>	48	<i>Chascanopsetta lugubris</i>	124
* <i>Caranx mentalis</i>	56	Chato cirroso	28
<i>Caranx papuensis</i>	49	Chato cocodrilo	28
* <i>Caranx regularis</i>	49	Chato espinudo	29
* <i>Caranx sansun</i>	49	Chato índico	28
<i>Caranx sem</i>	49	Chauffet soleil	97
<i>Caranx sexfasciatus</i>	49	Chazanda	63
* <i>Caranx speciosus</i>	52	Cheche	3
* <i>Caranx stellatus</i>	48	Checkerboard wrasse	109
<i>Caranx tille</i>	50	Cheeklined wrasse	108
* <i>Caranx typus</i>	45	<i>Cheilinus chlorurus</i>	108
* <i>Caranx williamsi</i>	49	<i>Cheilinus diagrammus</i>	108
<i>carbunculus, Etelis</i>	62	<i>Cheilinus fasciatus</i>	108
CARCHARHINIDAE	130-131	<i>Cheilinus trilobatus</i>	108
<i>Carcharhinus</i>	131	<i>Cheilinus undulatus</i>	104
<i>albimarginatus</i>		<i>Cheilio inermis</i>	105
<i>Carcharhinus falciformis</i>	130	<i>Cheimerius nufar</i>	88
Cardenales	40	Cherna estrellada	30
Cardinal fishes	40	Cherna roga	29
Carite canadí	119	Chevron barracuda	102
Carite estriado del	119	Chewa	29-31,36-38
Indo-Pacífico		Chewa (Ng'ombe)	31-32
Carolines parrotfish	110	* <i>chewa, Epinephelus</i>	32
<i>carolinus, Calotomus</i>	110	Chicharro ojón	54
Casarte ojón	117	Chije	39
Castagnoline noire	53	<i>Chilomycterus orbicularis</i>	128
Catalufa de roca	40	<i>chinensis, Aulostomus</i>	27
Catalufa espejuelo	40	Chinese trumpetfish	27
Catemo manchado	96	Chirocentre dorab	11
* <i>celetus, Caranx</i>	49	Chirocentre sabre	12
<i>centiquadrus, Halichoeres</i>	109	CHIROCENTRIDAE	11-12
<i>hortulanus</i>		<i>Chirocentrus dorab</i>	11
<i>Cephalopholis argus</i>	30	<i>Chirocentrus nudus</i>	12
<i>Cephalopholis aurantia</i>	30	Chirurgien aile jaune	112
<i>Cephalopholis formosa</i>	30	Chirurgien couronné	112
<i>Cephalopholis miniata</i>	30	Chirurgien de Bleeker	112
* <i>Cephalopholis rogaa</i>	29	Chirurgien strié	113
<i>Cephalopholis sexmaculata</i>	30	Chiseltooth wrasse	107
<i>Cephalopholis sonnerati</i>	30	<i>chlorostigma, Epinephelus</i>	32
<i>cephalus, Mugil</i>	99	<i>chlorurus, Cheilinus</i>	108
* <i>ceramensis, Liza</i>	99	<i>Choerodon robustus</i>	108
<i>Cetoscarus bicolor</i>	110	* <i>choerorynchus, Lethrinus</i>	84
* <i>ceylonensis, Mugil</i>	100	<i>chondropus, Sillago</i>	41
Chaa	60-61	<i>(Sillaginopodys)</i>	
Chache	3	Chopa azul	95
* <i>Chaetodon punctata</i>	96	* <i>Chorinemus commersonnianus</i>	53
CHAETODONTIDAE	96	* <i>Chorinemus orientalis</i>	53
Chafi	115	* <i>Chorinemus sanctipetri</i>	53
Chali	67	* <i>Chorinemus tol</i>	54
Changu	64-65,82-85	Christmas wrasse	109
Changu mdomo nyamvi	85	* <i>chrysophryoides,</i>	45
Changu-chaa	81	<i>Carangoides</i>	
Changu-choie	74	<i>chrysophrys, Carangoides</i>	45
Changu-chole	74	* <i>chrysophrys, Caranx</i>	45
Changu-doa	82	* <i>chrysotaenia, Sphyaena</i>	102
Changu-fimbo	62	* <i>chrysotaenia, Sphyaenella</i>	102
Changu-kibaba	67	<i>chrysozona, Pterocaesio</i>	71
Changu-mdomo	82	* <i>chrysozonus, Rastrelliger</i>	118
Changu-ndizi	82	Chub mackerel	119
Changu-tewa	84	* <i>chubbi, Gaterin</i>	75
CHANIDAE	18	<i>chubbi, Plectorhinchus</i>	75
Chano	18	Chuchunge	23
Chanos	18	Chuchunge tili	23

PAGE		PAGE	
* <i>ciconia, Belone</i>	25	Common silver-biddy	61
Cigar wrasse	105	Compères	126
<i>ciliaris, Alectis</i>	43	* <i>conchyliata, Lethrinella</i>	82
<i>cinerascens, Kyphosus</i>	95	<i>conchyliatus, Lethrinus</i>	82
* <i>cinereus, Conger</i>	12	* <i>Conger cinereus</i>	12
<i>cinereus, Conger</i>	12	<i>Conger cinereus cinereus</i>	12
<i>cinereus</i>		Congre gracile	12
Cinnabar goatfish	94	Congre oiro	12
<i>cinnabarinus, Parupeneus</i>	94	CONGRIDAE	12
Cirujano de Bleeker	112	Congrio coludo	12
Cirujano estriado	113	Congrio de aleta larga	12
* <i>Citula halli</i>	53	(Africa)	
* <i>civis, Lutjanus</i>	63	Convict surgeonfish	114
Clarisse clown	105	Cordonnier fil	43
Clown wrasse	105	Cordonnier plume	43
Clubfoot sillago	41	<i>cordyla, Megalaspis</i>	52
CLUPEIDAE	4-8	* <i>Coris angulata</i>	105
Coachwhip trevally	47	<i>Coris aygula</i>	105
Coastal trevally	44	<i>Coris formosa</i>	108
* <i>coatesi, Lutjanus</i>	63	<i>Coris gaimard africana</i>	109
Cobia	42	Corneta colorada	27
* <i>coccineus, Lutjanus</i>	68	Corneta pintada	27
<i>Cociella crocodila</i>	28	Cornette à taches	27
Cock grunter	78	bleues	
<i>coeruleopunctatus,</i>	88	Cornette rouge	27
<i>Polysteganus</i>		Corocoro gallito	78
* <i>coeruleus, Atinga</i>	128	Corocoro jabalina	78
<i>orbicularis</i>		Corocoro montura	78
<i>coeruleus, Gomphosus</i>	109	<i>coruscans, Etelis</i>	62
Cohana delogoia	72	Corvina china	89
Cohana élégante	73	Corvina de barba	89
Cohana japonaise	73	* <i>Corvina sina</i>	89
Colas bagnard	70	CORYOHAENIDAE	57
Colas dentu	70	<i>Coryphaena equiselis</i>	57
Colas fil	70	* <i>Coryphaena equisetis</i>	57
* <i>colburni, Seriola</i>	54	<i>Coryphaena hippurus</i>	57
* <i>colias, Pneumatophorus</i>	119	Coryphène commune	57
* <i>colias, Scomber</i>	119	Coryphène dauphin	57
Colombina anillada	106	Cottonmouth jack	56
Colombine annelée	106	Courbine barbiche	89
Comet grouper	31	Courbine chinoise	89
* <i>cometae, Epinephelus</i>	31	* <i>coxii, Trichiurus</i>	121
Comète fine	50	* <i>crassispina,</i>	76
Comète indienne	51	<i>Plectorhynchus</i>	
Comète maouane	51	<i>crenidens, Crenidens</i>	88
Comète maqueraeu	50	<i>Crenidens crenidens</i>	88
Comète saumon	51	<i>crenilabis, Crenimugil</i>	98
Comète torpille	52	<i>Crenimugil crenilabis</i>	98
Commerson's anchovy	10	Crimson snapper	64
* <i>commersoni, Cybium</i>	119	* <i>crinitus, Alectis</i>	43
* <i>commersoni, Hemiramphus</i>	23	* <i>crinitus, Blepharis</i>	43
* <i>commersonii, Anchoviella</i>	10	<i>crocodila, Cociella</i>	28
<i>commersonii, Fistularia</i>	27	Crocodile flathead	28
<i>commersonii, Stolephorus</i>	10	* <i>crocodilus, Platycephalus</i>	28
<i>commersoni, Pomadasys</i>	80	<i>crocodilus, Tylosurus</i>	25
* <i>commersonnianus,</i>	53	<i>crocodilus</i>	
<i>Chorinemus</i>		Croissant queue blanche	38
<i>commersonnianus,</i>	53	Croissant queue jaune	38
<i>Scomberoides</i>		Croupia roche	75
<i>commerson, Scomberomorus</i>	119	<i>cruentatus, Priacanthus</i>	40
Common bluestripe	65	<i>cruenophthalmus, Selar</i>	54
snapper		* <i>cruenophthalmus,</i>	54
Common dolphinfish	57	<i>Trachurops</i>	
Common pike conger	13	<i>Ctenochaetus striatus</i>	113
Common ponyfish	59	Cuchillo pavo real	107

	PAGE		PAGE
<i>cunnesius, Valamugil</i>	100	Dentón azul	88
<i>cuvieri, Galeocerdo</i>	130	Dentón nufar	88
* <i>Cybbium commersoni</i>	119	* <i>dermatogenys, Synodus</i>	20
* <i>Cyclichthys orbicularis</i>	128	* <i>Dermatolepis aldabrensis</i>	31
<i>cyclostomus, Parupeneus</i>	94	<i>Dermatolepis striolatus</i>	31
* <i>cynodon, Caranx</i>	50	Devis' anchovy	10
CYNOGLOSSIDAE	125-126	<i>devisi, Stolephorus</i>	10
<i>Cynoglossus lachneri</i>	125	<i>Diagramma pictum</i>	75
<i>Cynoglossus zanzibarensis</i>	126	<i>diagramma, Pterocaesio</i>	72
<i>cyprinoides, Megalops</i>	3	Diagramme à lèvres rouges	77
		Diagramme citron	75
		Diagramme ménestrel	77
		Diagramme moucheté	76
		Diagramme noire	76
		Diagramme oriental	77
		Diagramme sombre	76
		Diagramme voilier	75
		<i>diagrammus, Cheilinus</i>	108
		Diana's hogfish	108
		<i>diana, Bodianus</i>	108
		<i>dinema, Carangoides</i>	46
		<i>Diodon holocanthus</i>	128
Dagaa	5-6,8, 10-11,21-22, 58,60	* <i>Diodon maculifer</i>	128
Dagaa la papa	6	* <i>Diodon paraholocanthus</i>	128
Dagaa papa	5,11	DIODONTIDAE	128
Dagaa simu	4	Disque africain	96
Dagaa-damu	4	<i>ditchela, Pellona</i>	6
Dagaa-donzi	40	<i>djedaba, Alepes</i>	44
Dagaa-la-gege	40	* <i>djedaba, Atule</i>	44
Dagaa-la-papa	4	* <i>djedaba, Caranx</i>	44
Dagaa-mcheli	9-10	Dogtooth tuna	117
Dagaa-papa	4-7,10-11	<i>doliatus, Hologymnosus</i>	109
Dagaa-parata	6	* <i>dollfusi, Harengula</i>	7
Dagaa-suli	4	Doncella alguera	106
Dalapugán	98	Doncella circense	105
Danzi	28-29	Doncella de mareas	107
Dark-banded fusilier	72	Dorab wolf-herring	11
Darkfin eel catfish	17	<i>dorab, Chirocentrus</i>	11
Dash-and-dot goatfish	91	Dorado	57
* <i>Decapterus canonoides</i>	50	Dorado común	57
* <i>Decapterus jacobus</i>	50	Dormilona	75
* <i>Decapterus kiliche</i>	51	Dot-dash grouper	35
<i>Decapterus kurroides</i>	51	Double-band surgeonfish	114
* <i>Decapterus lajang</i>	51	Double-lined fusilier	72
* <i>Decapterus londini</i>	44	Doublebar goatfish	94
<i>Decapterus macarellus</i>	50	Doublelined tonguesole	126
<i>Decapterus macrosoma</i>	50	Doublespotted queenfish	53
* <i>Decapterus normani</i>	44	<i>Drepane punctata</i>	96
* <i>Decapterus pinnulatus</i>	50	DREPANIDAE	96
* <i>Decapterus politus</i>	44	<i>ductor, Naucrates</i>	52
<i>Decapterus russelli</i>	51	Dumbwara	68
Delagoa threadfin bream	72	Dusky rubberlip	76
* <i>delagoae, Nemipterus</i>	72	Dusky spinefoot	115
Delicate round herring	8	Dussumier's halfbeak	24
* <i>delicatulul, Lactarius</i>	42	<i>Dussumieria acuta</i>	4
* <i>delicatulul, Spratelloides</i>	8	<i>dussumieri, Acanthurus</i>	112
* <i>delicatulul, Stolephorus</i>	8	* <i>dussumieri, Blythsciaena</i>	89
Demi-bec bagnard	23	* <i>dussumieri, Dendrophysa</i>	89
Demi-bec de Dussumier	24	<i>dussumieri, Hyporhamphus</i>	24
Demi-bec de Lutke	23	<i>dussumieri, Johnius</i>	89
Demoiselles	97	* <i>dussumieri, Sciaena</i>	89
* <i>Dendrophysa dussumieri</i>	89	* <i>dussumieri, Umbrina</i>	89
Denté à points bleus	88		
Denté nufar	88		
* <i>Dentex nufar</i>	88		

	PAGE		PAGE
E		<i>Ephinephelus modestus</i>	34
East African sardinella	7	EPHIPPIDAE	96
ECHENEIDAE	43	Epibule gourami	105
<i>Echeneis naucrates</i>	43	<i>Epibulus insidiator</i>	105
<i>Echidna nebulosa</i>	13	<i>Epinephelus areolatus</i>	32
<i>Echidna zebra</i>	13	<i>Epinephelus</i>	32
Ehrenberg's snapper	64	<i>caeruleopunctatus</i>	
<i>ehrenbergi</i> , Lutjanus	64	* <i>Epinephelus chewa</i>	32
* <i>elacate</i> , Caranx	49	<i>Epinephelus chlorostigma</i>	32
<i>Elagatis bipinnulata</i>	51	* <i>Epinephelus cometae</i>	31
* <i>elongatus</i> , <i>Epinephelus</i>	32	<i>Epinephelus elongatus</i>	32
<i>elongatus</i> , <i>Leiognathus</i>	58	<i>Epinephelus epistictus</i>	32
<i>elongatus</i> , <i>Lethinus</i>	82	<i>Epinephelus fasciatus</i>	33
ELOPIDAE	3	<i>Epinephelus faveatus</i>	33
<i>Elops machnata</i>	3	<i>Epinephelus flavocaeruleus</i>	33
* <i>Elops saurus</i>	3	<i>Epinephelus fuscoguttatus</i>	33
* <i>emburyi</i> , Turrum	45	<i>Epinephelus longispinis</i>	33
Emperador boca de vino	82	<i>Epinephelus malabaricus</i>	31
Emperador boquidulce	84	<i>Epinephelus merra</i>	34
Emperador de	83	<i>Epinephelus microdon</i>	34
lentejuelas		<i>Epinephelus miliaris</i>	34
Emperador de bandas	85	* <i>Epinephelus miniatus</i>	30
Emperador de manchas	83	<i>Epinephelus morrhuia</i>	31
Emperador estriado	81	<i>Epinephelus multinotatus</i>	34
Emperador gris	81	<i>Epinephelus ongus</i>	34
Emperador jorobado	86	<i>Epinephelus poecilonotus</i>	35
Emperador mahsena	83	<i>Epinephelus rivulatus</i>	35
Emperador maquillado	85	<i>Epinephelus spilotoceps</i>	35
Emperador moteado	85	<i>Epinephelus tauvina</i>	32
Emperador relámpago	84	<i>Epinephelus tukula</i>	35
Emperador saburbir	84	<i>Epinephelus undulosus</i>	35
Emperador San Pedro	82	<i>epistictus</i> , <i>Epinephelus</i>	32
Emperador tatuado	81	<i>equisetis</i> , <i>Coryphaena</i>	57
Emperador trompa	86	* <i>equisetis</i> , <i>Coryphaena</i>	57
amarilla		<i>equula</i> , <i>Carangoides</i>	46
Emperador trompudo	82	* <i>Equulites novaehollandiae</i>	58
Empéreur à bandes	85	<i>equulus</i> , <i>Leiognathus</i>	59
oranges		<i>eriomma</i> , <i>Parascopopsis</i>	73
Empéreur bas cou	85	<i>erumei</i> , <i>Psettodes</i>	123
Empéreur bec de cane	86	<i>erythropterus</i> , <i>Lutjanus</i>	64
Empéreur bossu	86	Espadon	121
Empéreur capitaine	83	* <i>estara</i> , <i>Xiphias</i>	121
Empéreur dame berris	84	* <i>estara</i> , <i>Xiphias gladius</i>	121
Empéreur gris	81	Estornino	119
Empéreur gueule de vin	82	<i>Etelis carbunculus</i>	62
Empéreur gueule longue	82	<i>Etelis coruscans</i>	62
Empéreur honteux	85	* <i>Etelis marshi</i>	62
Empéreur lentilles	83	<i>Etrumeus teres</i>	5
Empéreur mahsena	83	* <i>Eumakaira nigra</i>	122
Empéreur moris	84	* <i>Eutheraapon theraps</i>	39
Empéreur Saint Pierre	82	<i>Euthynnus affinis</i>	117
Empéreur strié	81	* <i>Euthynnus pelamis</i>	118
Empéreur tatué	81	* <i>Euthynnus yaito</i>	117
Empéreur tidents	84	* <i>Evenchelys macrurus</i>	14
Emperor red snapper	68	Exocets	23
<i>engeli</i> , <i>Valamugil</i>	100	EXOCTETIDAE	23
Engleman's lizardfish	19	Eyestripe surgeonfish	112
<i>englemani</i> , <i>Synodus</i>	19		
ENGRAULIDAE	9-11		
* <i>Engraulis capensis</i>	8		
<i>Engraulis japonicus</i>	8		

PAGE

PAGE

F

* <i>falcata</i> , <i>Seriola</i>	54
<i>falciformis</i> , <i>Carcharhinus</i>	130
<i>falciformis</i> , <i>Monodactylus</i>	95
False trevally	42
Falusi	57
<i>far</i> , <i>Hemiramphus</i>	23
<i>fasciatus</i> , <i>Cheilinus</i>	108
<i>fasciatus</i> , <i>Epinephelus</i>	33
<i>fasciatus</i> , <i>Hemigymnus</i>	109
<i>fasciatus</i> , <i>Leiognathus</i>	59
<i>faveatus</i> , <i>Epinephelus</i>	33
<i>ferdau</i> , <i>Carangoides</i>	46
* <i>filamentosa</i> , <i>Pertica</i>	60
<i>filamentosus</i> , <i>Argyrops</i>	87
<i>filamentosus</i> , <i>Gerres</i>	60
<i>filamentosus</i> , <i>Pristipomoides</i>	70
Fimbo	62
Fin-stripe goatfish	93
Finless sole	125
<i>Fistularia commersonii</i>	27
<i>Fistularia petimba</i>	27
* <i>Fistularia serrata</i>	27
* <i>Fistularia villosa</i>	27
FISTULARIIDAE	27
Five-finger wrasse	109
Flat needlefish	24
Flathead mullet	99
<i>flavicauda</i> , <i>Sphyræna</i>	103
<i>flavocaeruleus</i> , <i>Epinephelus</i>	33
<i>flavolineatus</i> , <i>Mulloidæ</i>	94
* <i>flavomaculatus</i> , <i>Gaterin</i>	76
<i>flavomaculatus</i> , <i>Plectorhinchus</i>	76
* <i>fletus</i> , <i>Lethrinus</i>	84
Floral wrasse	108
* <i>floridus</i> , <i>Lethrinus</i>	82
Flyingfishes	23
Forgeron tatcheté	96
Forktail snapper	62
* <i>Formio niger</i>	53
<i>formosa</i> , <i>Cephalopholis</i>	30
<i>formosa</i> , <i>Coris</i>	108
* <i>formosanus</i> , <i>Caranx</i>	44
* <i>forskali</i> , <i>Atherina</i>	21
<i>forsteri</i> , <i>Sphyræna</i>	101
Fourlined terapon	38
Foursaddle grouper	35
* <i>fraenatus</i> , <i>Lethrinus</i>	84
<i>fraenatus</i> , <i>Sufflamen</i>	127
Freckled goatfish	93
Frigate tuna	117
Fringelip mullet	98
Fuatundu	68
* <i>fuliginosus</i> , <i>Acanthurus</i>	112
Full moony	95
Fulusi	57
<i>fulviflamma</i> , <i>Lutjanus</i>	64
* <i>fulviflammus</i> , <i>Lutjanus</i>	64

<i>fulvoguttatus</i> , <i>Carangoides</i>	45
* <i>fulvoguttatus</i> , <i>Caranx</i>	45
<i>fulvus</i> , <i>Lutjanus</i>	65
Fumi	16-17
<i>furcatus</i> , <i>Aphareus</i>	61
<i>furcatus</i> , <i>Pomadasys</i>	80
Fusca croaker	90
* <i>fusca</i> , <i>Umbrina</i>	90
<i>fuscoguttatus</i> , <i>Epinephelus</i>	33
* <i>fuscolineata</i> , <i>Umbrina</i>	89-90
<i>fuscum</i> , <i>Thalassoma</i>	109
<i>fuscus</i> , <i>Apsilus</i>	62
Fusilero aleta amarilla	71
Fusilero azul	71
Fusilier aile jaune	71

G

Gala-gala	123-126
* <i>Galeocерdo arcticus</i>	130
<i>Galeocерdo cuvieri</i>	130
* <i>Galeocерdo rayneri</i>	130
Garangue royale jaune	52
* <i>Gaterin chubbii</i>	75
* <i>Gaterin flavomaculatus</i>	76
* <i>Gaterin gaterinus</i>	76
* <i>Gaterin niger</i>	76
* <i>Gaterin orientalis</i>	77
* <i>Gaterin schotaf</i>	77
* <i>Gaterin sordidus</i>	77
* <i>gaterinus</i> , <i>Gaterin</i>	76
<i>gaterinus</i> , <i>Plectorhinchus</i>	76
Gayo-gayo	123-126
<i>Gazza minuta</i>	58
Gege-muamba	74
* <i>Germo alalunga</i>	120
Germon	120
* <i>germo</i> , <i>Thunnus</i>	120
GERREIDAE	60-61
<i>Gerres acinaces</i>	60
<i>Gerres filamentosus</i>	60
* <i>Gerres macracanthus</i>	60
<i>Gerres oblongus</i>	61
<i>Gerres oyena</i>	61
* <i>Gerres punctatus</i>	60
<i>ghanam</i> , <i>Scolopsis</i>	74
Ghawi	104
<i>ghobban</i> , <i>Scarus</i>	111
Giant catfish	17
Giant slender moray	14
Giant trevally	48
<i>gibbosa</i> , <i>Sardinella</i>	7
<i>gibbosus</i> , <i>Plectorhinchus</i>	76
<i>gibbus</i> , <i>Lutjanus</i>	65
Girelle hublot	107
* <i>gladius</i> , <i>Histiophorus</i>	122
* <i>gladius</i> , <i>Istiophorus</i>	122
<i>gladius</i> , <i>Xiphias</i>	121

	PAGE		PAGE
Glasseye	40	Hareng à bande bleue	5
* <i>glossodonta</i> , <i>Albula</i>	3	Hareng gracile	8
<i>Gnathanodon speciosus</i>	52	Hareng rond	8
<i>Gnathodentex aurolineatus</i>	81	Hareng tacheté	5
Goatsbeard brotula	21	* <i>Harengula dollfusi</i>	7
* <i>gobio</i> , <i>Hypoatherina</i>	22	* <i>Harengula ovalis</i>	5
Goldband fusilier	71	* <i>Harengula punctata</i>	5
Goldband goatfish	92	<i>harid</i> , <i>Hipposcarus</i>	111
Golden trevally	52	* <i>harid</i> , <i>Scarus</i>	111
Goldlined seabream	89	Harry hotlips	76
Goldsaddle goatfish	94	* <i>hasta</i> , <i>Pristipoma</i>	78
Goldstripe sardinella	7	* <i>haumela</i> , <i>Trichiurus</i>	121
<i>Gomphosus coeruleus</i>	109	<i>hedlandensis</i> , <i>Carangoides</i>	47
Goret à trois bandes	79	* <i>heidi</i> , <i>Uraspis</i>	56
Goromwe	19	<i>Hemigymnus fasciatus</i>	109
<i>Gracila albomarginata</i>	36	<i>Hemigymnus melapterus</i>	106
Gracile lizardfish	18	* <i>Hemipteronotus pavo</i>	107
<i>gracilis</i> , <i>Saurida</i>	18	* <i>Hemipteronotus taeniourus</i>	106
<i>gracilis</i> , <i>Spratelloides</i>	8	HEMIRAMPHIDAE	23-24
Grande verrue tigre	90	* <i>Hemiramphus commersoni</i>	23
* <i>grandidieri</i> , <i>Platycephalus</i>	28	<i>Hemiramphus far</i>	23
* <i>grandisquamis</i> , <i>Saurida</i>	19	<i>Hemiramphus lutkei</i>	23
<i>grandoculis</i> , <i>Monotaxis</i>	86	* <i>Herklotsichthys punctatus</i>	5
Greasy grouper	32	<i>Herklotsichthys</i>	5
Great barracuda	101	<i>quadrifasciatus</i>	
Greater lizardfish	19	* <i>heterolobus</i> , <i>Anchoviella</i>	9
Green humphead	110	<i>heterolobus</i> , <i>Stolephorus</i>	9
parrotfish		<i>hexacanthus</i> , <i>Naso</i>	113
Green jobfish	62	<i>hians</i> , <i>Ablennes</i>	24
Grey large-eye bream	81	* <i>Hilsa kanagurta</i>	6
<i>griseus</i> , <i>Gymnocranius</i>	81	<i>Hilsa kelee</i>	6
Grondeur coq	78	<i>Hipposcarus harid</i>	111
Grondeur javelot	78	* <i>Hipposcarus harid vexillus</i>	111
Grondeur selle	78	<i>hippurus</i> , <i>Coryphaena</i>	57
Guinée saumon	3	* <i>hira</i> , <i>Auxis</i>	117
Gumberi	104	* <i>hirsutus</i> , <i>Lepidaplois</i>	104
<i>Gymnocranius griseus</i>	81	* <i>Histiophorus gladius</i>	122
<i>Gymnocranius robinsoni</i>	81	* <i>Histiophorus orientalis</i>	122
* <i>Gymnosarda nuda</i>	117	* <i>hoevenii</i> , <i>Pellona</i>	6
<i>Gymnosarda unicolor</i>	117	<i>holocanthus</i> , <i>Diodon</i>	128
<i>gymnostethus</i> , <i>Carangoides</i>	47	HOLOCENTRIDAE	26
* <i>Gymnothorax meleagris</i>	14	* <i>Holocentrus servus</i>	39
* <i>Gymnothorax pictus</i>	14	<i>Hologymnosus annulatus</i>	106
		<i>Hologymnosus doliatus</i>	109
		* <i>Hologymnosus semidiscus</i>	106
		Honeycomb grouper	34
		Honeyfin grouper	34
		Hongwe	16-17
		Hound needlefish	25
		* <i>hullianus</i> , <i>Bassettina</i>	56
		* <i>hullianus</i> , <i>Caranx</i>	56
		Humpback red snapper	65
		Humphead snapper	68
		Humphead wrasse	104
		Humpnose big-eye bream	86
		<i>Hypoatherina barnesi</i>	22
		* <i>Hypoatherina gobio</i>	22
		<i>Hypoatherina temminckii</i>	22
		* <i>Hypoatherina uisila</i>	22
		<i>Hyporhamphus dussumieri</i>	24
		* <i>hypozona</i> , <i>Trachinocephalus</i>	20
HAEMULIDAE	75-80		
Halfmoon grouper	35		
<i>Halichoeres hortulanus</i>	109		
<i>centiquadrus</i>			
* <i>halli</i> , <i>Citula</i>	53		
Halua	53		
<i>hamrur</i> , <i>Priacanthus</i>	40		
Hanisi	3		
Hanithi	3		
Haraki	65		
<i>harak</i> , <i>Lethrinus</i>	82		
Hardyhead silverside	21		

PAGE

PAGE

I

<i>ignobilis, Caranx</i>	48
Indian anchovy	9
Indian goatfish	91
Indian mackerel	118
Indian pellona	6
Indian scad	51
Indian spiny turbot	123
Indian threadfin	103
Indian threadfish	43
* <i>indica, Anchoviella</i>	9
<i>indica, Makaira</i>	122
<i>indicus, Aleotis</i>	43
* <i>indicus, Istiompax</i>	122
* <i>indicus, Naucratus</i>	52
<i>indicus, Parupeneus</i>	91
<i>indicus, Platycephalus</i>	28
* <i>indicus, Polydactylus</i>	103
<i>indicus, Polynemus</i>	103
<i>indicus, Stolephorus</i>	9
Indo-Pacific tarpon	3
<i>inermis, Cheilio</i>	105
* <i>Iniistius pavo</i>	107
<i>insidiator, Epibulus</i>	105
* <i>insidiator, Leiognathus</i>	60
* <i>insidiator, Platycephalus</i>	28
<i>insidiator, Secutor</i>	60
Isabelitas	97
Island trevally	47
* <i>Istiompax indicus</i>	122
* <i>Istiompax marlina</i>	122
ISTIOPHORIDAE	122-123
* <i>Istiophorus gladius</i>	122
* <i>Istiophorus orientalis</i>	122
<i>Istiophorus platypterus</i>	122

J

* <i>jacobus, Decapterus</i>	50
Janja	65-66
Janja	63-64,66-68
Japanese anchovy	8
Japanese threadfin	73
bream	
<i>japonicus, Engraulis</i>	8
* <i>japonicus, Mugil</i>	99
<i>japonicus, Nemipterus</i>	73
<i>japonicus, Scomber</i>	119
* <i>japonicus, Stolephorus</i>	8
* <i>japonicus, Trichiurus</i>	121
* <i>japonicus, Trichiurus</i>	121
<i>lepturus</i>	
Jaqueta de Jordan	97
Jarbua terapon	39

<i>jarbua, Terapon</i>	39
Javelin grunter	78
<i>jello, Sphyræna</i>	102
Jodari	117,120-121
Jogoo	43
<i>Johnieops sina</i>	89
* <i>Johnius (Jonieops) sina</i>	89
* <i>Johnius amblycephalus</i>	89
<i>Johnius dussumieri</i>	89
Jordan's damselfish	97
<i>jordani, Teixeiraichthys</i>	97
Jule cocoli	49
Julia larguirucha	105
Jurel bronceado	49
Jurel centellante	45
Jurel costero	44
Jurel de aleta azul	48
Jurel dorado	52
Jurel gigante	48
Jurel malabárico	45
Jurel peñero	56
Jurel rabo amarillo	44
Jurel sable	53
Jurel saltador	53
Jurel saltarín	54
Jurel subari	44
Jurel tapir	45
Jurel tille	50
Jurel volantín	56
Jurel voraz	49
* <i>jussieu, Sardinella</i>	7

K

<i>kaakan, Pomadasys</i>	78
Kagaa	58
<i>kallopterus, Lethrinus</i>	83
Kanadi kingfish	119
* <i>kanagurta, Hilsa</i>	6
<i>kanagurta, Rastrelliger</i>	118
Kanda	75,100
* <i>kandavensis, Mugil</i>	100
Kangaja	112-113
Karage	130
Karamamba	78
Karambizi	45,48-50
Karanteen seabream	88
<i>kasmira, Lutjanus</i>	65
<i>Katsuwonus pelamis</i>	118
Kawakawa	117
Keeltail needlefish	24
* <i>kelaarii, Mugil</i>	100
Kelea	64-65
Kelee shad	6
<i>kelee, Hilsa</i>	6
* <i>kelee, Macrura</i>	6
Kenge	79
* <i>kesteveni, Oedalechilus</i>	100

PAGE

PAGE

<i>Lethrinus lentjan</i>	83	<i>Lophiomus setigerus</i>	21
* <i>Lethrinus lentjanus</i>	83	Loro candelamoa	111
<i>Lethrinus mahsena</i>	83	Loro cototo verde	110
<i>Lethrinus mahsenoides</i>	84	Loro de Carolinas	110
<i>Lethrinus microdon</i>	84	Loro de escamas	111
* <i>Lethrinus miniata</i>	82	amarillas	
<i>Lethrinus nebulosus</i>	84	Loro de manchas rojas	110
* <i>Lethrinus obsoletus</i>	85	Loro jaspeado	111
* <i>Lethrinus opercularis</i>	84	<i>Iouti, Variola</i>	38
<i>Lethrinus ramak</i>	85	<i>Iugubris, Chascanopsetta</i>	124
* <i>Lethrinus rhodopterus</i>	82	<i>Iunare, Thalassoma</i>	109
* <i>Lethrinus rostratus</i>	82	<i>Iunaris, Caesio</i>	71
<i>Lethrinus rubrioperculatus</i>	85	Lunartail snapper	66
* <i>Lethrinus sanguineus</i>	83	Lune d'argent	95
<i>Lethrinus variegatus</i>	85	Lune pleine	95
* <i>Lethrinus waigiensis</i>	82	Lunero	57
<i>Lethrinus xanthochilus</i>	86	Luneur	57
<i>leuciscus, Leiognathus</i>	58	Lungu	50-51
<i>leucogrammicus, Anyperodon</i>	29	<i>lunulatus, Lutjanus</i>	66
<i>leucosternon, Acanthurus</i>	114	* <i>lurida, Teuthis</i>	115
Lija barbuda	128	<i>luridus, Siganus</i>	115
<i>limbatus, Plotosus</i>	17	LUTJANIDAE	61-70
<i>lineatus, Acanthurus</i>	114	* <i>Lutjanus altifrontalis</i>	64
<i>lineatus, Plotosus</i>	18	<i>Lutjanus argentimaculatus</i>	63
Lined surgeonfish	114	<i>Lutjanus bengalensis</i>	63
* <i>lineolatus, Lutjanus</i>	66	<i>Lutjanus bohar</i>	63
Lisa de aleta larga	100	* <i>Lutjanus civis</i>	63
Lisa de mancha azul	101	* <i>Lutjanus coatesi</i>	63
Lisa godeya	98	* <i>Lutjanus coccineus</i>	68
Lisa labiada	98	<i>Lutjanus ehrenbergi</i>	64
Lisa mopiro	99	<i>Lutjanus erythropterus</i>	64
Lisa ojo de perdiz	100	<i>Lutjanus fulviflamma</i>	64
Lisa otomebora	99	* <i>Lutjanus fulviflammus</i>	64
Lisa rabo azul	100	<i>Lutjanus fulvus</i>	65
Listado	118	<i>Lutjanus gibbus</i>	65
<i>lituratus, Naso</i>	114	<i>Lutjanus kasmira</i>	65
Live sharksucker	43	* <i>Lutjanus lineolatus</i>	66
* <i>Liza akame</i>	98	<i>Lutjanus lunulatus</i>	66
* <i>Liza anpinensis</i>	99	<i>lutjanus, Lutjanus</i>	66
* <i>Liza ceramensis</i>	99	<i>Lutjanus lutjanus</i>	66
<i>Liza macrolepis</i>	98	* <i>Lutjanus malabaricus</i>	64,66
<i>Liza melinoptera</i>	99	* <i>Lutjanus marginatus</i>	65
* <i>Liza oligolepis</i>	99	<i>Lutjanus monostigma</i>	67
<i>Liza vaigiensis</i>	99	<i>Lutjanus rivulatus</i>	67
<i>Lobotes surinamensis</i>	75	<i>Lutjanus russelli</i>	67
LOBOTIDAE	75	<i>Lutjanus sanguineus</i>	68
* <i>londini, Decapterus</i>	44	<i>Lutjanus sebae</i>	68
Longarm mullet	100	* <i>Lutjanus vaigiensis</i>	65
Longbarbel goatfish	91	<i>Lutjanus vitta</i>	68
Longface emperor	82	* <i>Lutjanus vittus</i>	68
Longfin African conger	12	Lutke's halfbeak	23
Longfin trevally	46	<i>lutkei, Hemiramphus</i>	23
<i>longiceps, Papilloculiceps</i>	28	<i>Lycodontis meleagris</i>	14
* <i>longiceps, Platycephalus</i>	28	* <i>Lycondontis pictus</i>	14
* <i>longiceps, Sardinella</i>	7	<i>lysan, Scomberoides</i>	53
* <i>longimanus, Mugil</i>	100		
<i>longispinis, Epinephelus</i>	33		
Longjaw thryssa	11		
Longnose trevally	45		
Longrakered trevally	56		
Longtail silver-biddy	60		
Longtail tuna	121		
Longue girelle	105		
LOPHIIDAE	20-21		
<i>Lophiodes mutilus</i>	20		

	PAGE		PAGE
M			
Macabí	3	Mamila joues blanches	74
Macarela alicorta	50	Mamila rosée	73
Macarela caballa	50	Mamila Saint Pierre	74
Macarela índica	51	* <i>mandibularis</i> , <i>Caranx</i>	56
Macarela maouana	51	* <i>mandibularis</i> , <i>Ulua</i>	56
Macarela salmón	51	Mangrove red snapper	63
Macarela torpedo	52	Maquereau des Indes	118
<i>macarellus</i> , <i>Decapterus</i>	50	Maquereau espagnol	119
<i>machnata</i> , <i>Elops</i>	3	Marao lisero	25
Macho-gololi	54	Marao ojón	25
Machogololi	118	Marbled parrotfish	111
Mâchoiron africain	16	* <i>marginatus</i> , <i>Caranx</i>	49
Mâchoiron barbarin	16	* <i>marginatus</i> , <i>Lutjanus</i>	65
Mâchoiron malgache	16	Marignans	26
Mâchoiron titan	17	Mariposas	96
Mâchoiron veiné	17	Marlín rayado	123
Mackerel scad	50	Marlin rayé	123
* <i>macolor</i> , <i>Macolor</i>	69	Marlín trompa corta	123
* <i>Macolor macolor</i>	69	* <i>marlina</i> , <i>Istiompax</i>	122
<i>Macolor niger</i>	69	* <i>marlina</i> , <i>Makaira</i>	122
* <i>macracanthus</i> , <i>Gerres</i>	60	* <i>marmorata</i> , <i>Paraplagusia</i>	126
* <i>macrocheilus</i> , <i>Mugil</i>	98	<i>marmoratus</i> , <i>Pardachirus</i>	125
<i>macrolepis</i> , <i>Liza</i>	98	* <i>marmoratus</i> , <i>Plectropomus</i>	37
<i>macronema</i> , <i>Parupeneus</i>	91	* <i>marshi</i> , <i>Etelis</i>	62
* <i>macropterus</i> , <i>Neothunnus</i>	120	<i>masculatum</i> , <i>Pomadasys</i>	78
<i>macrosoma</i> , <i>Decapterus</i>	50	Masiwa	27
* <i>Macrura kelee</i>	6	Masked triggerfish	127
<i>macrura</i> , <i>Thyrsoidea</i>	14	<i>mate</i> , <i>Atule</i>	44
* <i>macrurus</i> , <i>Evenchelys</i>	14	* <i>mate</i> , <i>Caranx</i>	44
<i>maculata</i> , <i>Mene</i>	57	* <i>matoides</i> , <i>Acanthurus</i>	112
<i>maculata</i> , <i>Sillago</i>	41	<i>mazara</i> , <i>Makaira</i>	122
<i>maculatus</i> , <i>Plectropomus</i>	37	Mbamba menyo	130
* <i>maculifer</i> , <i>Diodon</i>	128	Mbarata	6
Madagascar sea catfish	16	Mbilliili	28-29
<i>madagascariensis</i> , <i>Arius</i>	16	Mbono	71
* <i>madagascariensis</i> , <i>Tachysurus</i>	16	Mbooyamvuvi	105
Maïou	42	Mbumbura	19
Mahsena emperor	83	Mbuzi-bahari	43
<i>mahsena</i> , <i>Lethrinus</i>	83	Mchone	75-77
<i>mahsenoides</i> , <i>Lethrinus</i>	84	* <i>mebachi</i> , <i>Parathunnus</i>	120
* <i>Makaira audax</i>	123	Medregal limón	54
<i>Makaira indica</i>	122	Medregal listado	55
* <i>Makaira marlina</i>	122	* <i>medusicola</i> , <i>Caranx</i>	48
<i>Makaira mazara</i>	122	<i>Megalaspis cordyla</i>	52
* <i>Makaira mitsukurii</i>	123	MEGALOPIDAE	3
Makaire à rostre court	123	<i>Megalops cyprinoides</i>	3
Makaire bleu	122	<i>melampygus</i> , <i>Caranx</i>	48
Makaire noir	122	* <i>melanoleucus</i> , <i>Plectropomus</i>	36
Malabar blood snapper	66	<i>melanotus</i> , <i>Tylosacus</i>	25
Malabar grouper	31	<i>melanura</i> , <i>Sardinella</i>	6
Malabar trevally	45	<i>melapterus</i> , <i>Hemigymnus</i>	106
<i>malabaricus</i> , <i>Carangoides</i>	45	* <i>meleagris</i> , <i>Gymnothorax</i>	14
* <i>malabaricus</i> , <i>Caranx</i>	45	<i>meleagris</i> , <i>Lycodontis</i>	14
<i>malabaricus</i> , <i>Epinephelus</i>	31	<i>melinoptera</i> , <i>Liza</i>	99
* <i>malabaricus</i> , <i>Lutjanus</i>	64,66	Melva	117
Malacho salmón	3	<i>Mene maculata</i>	57
Mamangumu	21	MENIDAE	57
Mambangumu	22	* <i>menoni</i> , <i>Wak</i>	89
Mamila arabe	74	* <i>mentalis</i> , <i>Caranx</i>	56
		<i>mentalis</i> , <i>Ulua</i>	56
		Mero celestial	36
		Mero cometa	31
		Mero de coral	37
		Mero elegante	29
		Mero ensillado	36

	PAGE		PAGE
Mero lanceolado	37	<i>Monotaxis grandoculis</i>	86
Mero liso	31	Moon wrasse	109
Mero luna creciente	38	Moonfish	57
Mero lutra	32	Moontail bullseye	40
Mero malabárico	31	Moontail seabass	38
Mero paranjero	36	Morani	24
Mero pecoso	37	Morena estrellada	13
Mero rabiblanco	38	Morena sideral	14
Mérou bord rouge	36	Morena via lactea	14
Mérou comète	31	Morénésocé commun	13
Mérou élégant	29	Morenilla gigante	14
Mérou étoiles bleues	36	Morenocio común	13
Mérou lancéolé	37	<i>morrhua, Epinephelus</i>	31
Mérou lisse	31	<i>mossambica, Anguilla</i>	15
Mérou loutre	32	* <i>mossambica, Muraena</i>	15
Mérou malabare	31	Motambo boxeador	60
Mérou pointillé	37	Motambo de hebra	58
Mérou sellé	36	Motambo dentado	58
<i>merra, Epinephelus</i>	34	Motambo elegante	58
<i>metopias, Nemipterus</i>	73	Mottled coral-trout	37
Mgema	105	Moustached grouper	34
<i>microdon, Epinephelus</i>	34	Mozambican sea catfish	16
* <i>microdon, Lethrinella</i>	84	Mpigazumari	27
<i>microdon, Lethrinus</i>	84	Msiwa	27
* <i>microdon, Pristipomoides</i>	70	Msumari	50-51
* <i>microlepis, Pristipomoides</i>	70	Msumba	82
Midwater grouper	35	Msusa	101-102
Mikeka	76	Mtambaanchi	41
<i>miliaris, Epinephelus</i>	34	* <i>Mugil amarulus</i>	100
Milkfish	18	* <i>Mugil axillaris</i>	101
<i>miniata, Cephalopholis</i>	30	* <i>Mugil borneensis</i>	98
* <i>miniata, Lethrinus</i>	82	* <i>Mugil caeruleomaculatus</i>	101
* <i>miniatus, Epinephelus</i>	30	<i>Mugil cephalus</i>	99
Minstrel sweetlips	77	* <i>Mugil ceylonensis</i>	100
<i>minuta, Gazza</i>	58	MUGILIDAE	98-101
* <i>mitsukurii, Makaira</i>	123	* <i>Mugil japonicus</i>	99
* <i>mitsukurii, Tetrapturus</i>	123	* <i>Mugil kandavensis</i>	100
Mjombo	38	* <i>Mugil kelaartii</i>	100
Mkandaa	38	* <i>Mugil longimanus</i>	100
Mkizi	98-101	* <i>Mugil macrocheilus</i>	98
Mkizi komo maji	103-104	* <i>Mugil ophuysenii</i>	100
Mkongé	11-12, 121	* <i>Mugil our</i>	99
Mkongé-bahari	121	* <i>Mugil strongylocephalus</i>	100
Mkongé-kuti	121	* <i>Mugil troschellii</i>	98
Mkubwa	130	Muhaluwa	51
Mkule	24-25	Mulet à grandes	98
Mkundaji	91-93	écailles	
Mkunga	12-15	Mulet à queue bleue	100
Mkunga-chui	13-14	Mulet à tache bleue	101
Mleya	76	Mulet boxeur	98
Mnyimbi	3	Mulet cabot	99
<i>modestus, Epinephelus</i>	34	Mulet longue aile	100
Mojarra común	61	Mulet mopirop	99
Mojarra de hebra	60	Mulet oeil de perdrix	100
Mojarra elegante	61	Mulet otomebora	99
Mojarra timonera	60	MULLIDAE	91-94
<i>moluccanus, Pseudodax</i>	107	<i>Mulloidés flavolineatus</i>	94
<i>moluccensis, Upeneus</i>	92	<i>Mulloidés vanicolensis</i>	94
MONACANTHIDAE	128	<i>multibarbata, Brotula</i>	21
<i>monoceros, Alutera</i>	128	<i>multimaculatum, Pomadasys</i>	78
* <i>monoceros, Aluteres</i>	128	<i>multinotatus, Epinephelus</i>	34
MONODACTYLIDAE	95	* <i>Muraena mossambica</i>	15
<i>Monodactylus argenteus</i>	95	MURAENESOCIDAE	13
<i>Monodactylus falciformis</i>	95	<i>Muraenesox bagio</i>	13
<i>monostigma, Lutjanus</i>	67	* <i>Muraenesox yamaguchiensis</i>	13

[illegible]

	PAGE		PAGE
OPHIDIIDAE	21	Papa kinengo	130
* <i>ophuysenii</i> , <i>Mugil</i>	100	Papa ngusi	130
* <i>oramin</i> , <i>Siganus</i>	115	<i>Papilloculiceps longiceps</i>	28
Orange-spotted emperor	83	Papillons	96
Orangemouth anchovy	11	<i>papuensis</i> , <i>Caranx</i>	49
Orangespine unicornfish	114	<i>Paracaesio xanthurus</i>	69
Orangespotted trevally	46	* <i>paraholocanthus</i> , <i>Diodon</i>	128
<i>orbicularis</i> , <i>Chilomycterus</i>	128	Parapela	25
* <i>orbicularis</i> , <i>Cyclichthys</i>	128	* <i>Paraplagusia marmorata</i>	126
<i>orbicularis</i> , <i>Platax</i>	98	<i>Parascloopsis eriomma</i>	73
<i>orbis</i> , <i>Tripteronodon</i>	96	<i>Parastromateus niger</i>	53
Oriental sweetlips	77	* <i>Parathunnus mebachii</i>	120
* <i>orientalis</i> , <i>Chorinemus</i>	53	* <i>Parathunnus sibi</i>	120
* <i>orientalis</i> , <i>Gaterin</i>	77	<i>Pardachirus marmoratus</i>	125
* <i>orientalis</i> , <i>Histiophorus</i>	122	Pardete	99
* <i>orientalis</i> , <i>Istiophorus</i>	122	Pargo bitilla	68
<i>orientalis</i> , <i>Plectorhinchus</i>	77	Pargo blanco y negro	69
<i>orientalis</i> , <i>Sarda</i>	118	Pargo boquidulce	61
Orphie carène	24	Pargo cabezón	68
Orphie plate	24	Pargo carmesí	64
<i>orthogrammus</i> , <i>Carangoides</i>	47	Pargo carpón	64
* <i>Otolithes argenteus</i>	90	Pargo de Bengala	63
<i>Otolithes ruber</i>	90	Pargo de dos manchas	63
* <i>Otolithus argenteus</i>	90	Pargo de Madras	66
Otomebora mullet	99	Pargo de manglar	63
* <i>oür</i> , <i>Mugil</i>	99	Pargo de rayas azules	65
Oval flounder	124	Pargo eglefino	67
* <i>ovalis</i> , <i>Harengula</i>	5	Pargo imperial	68
<i>oyena</i> , <i>Gerres</i>	61	Pargo jorobado	65
		Pargo malabárico	66
		Pargo maorí	67
		Pargo ojo de buey	67
		Pargo rabo negro	65
		Pargo raboluna	66
		Pargo rosado	69
		Pargo rubí	62
		Pargo tijera	62
		Pargo tintero	64
		Pargo verde	62
		<i>Parupeneus barberinus</i>	91
		<i>Parupeneus bifasciatus</i>	94
		<i>Parupeneus cinnabarinus</i>	94
		<i>Parupeneus cyclostomus</i>	94
		<i>Parupeneus indicus</i>	91
		<i>Parupeneus macronema</i>	91
		<i>Parupeneus pleurostigma</i>	94
		<i>Parupeneus rubescens</i>	94
		* <i>parva</i> , <i>Sciaena</i>	89
		Pastel wrasse	109
		Pata	6,10-11
Pagapa	42	Patima-mashowers	97
Pagre double bande	87	Patudo	120
Pagre picnic	86	Patuna aleta negra	17
Paguala africana	96	Patuna rayada	18
Painted sweetlips	75	<i>paulayi</i> , <i>Plectorhinchus</i>	79
Pakawe	95	* <i>pavo</i> , <i>Hemipteronotus</i>	107
Palawe	58,60	* <i>pavo</i> , <i>Iniistius</i>	107
Palometa negra	53	* <i>pavoninus</i> , <i>Xrichtys</i>	107
Pampaneau africain	55	<i>pavo</i> , <i>Xyrichtys</i>	107
Pampaneau muscadin	55	Pawali	6
Pámpano abotonado	55	Peacock grouper	30
Pámpano africano	55	Peacock wrasse	107
Pámpano de hebra	43	Pêche-madame argenté	41
Pámpano índico	43	Pêche-madame diabolito	41
Pámpano lunero	56	Pêche-madame trompette	41
Panchito dentón	70		
Panchito hebra	70		
Panchito rayado	70		
Panchote rabo amarillo	69		
Pandu	53-56		
<i>pantherinus</i> , <i>Bothus</i>	124		
Panya	3		
Panzi bahari	23		
Papa	130		
Papa bunshu	130		
Papa kinenawe	130		

P

PAGE		PAGE
	Pegatimón	43
	Pejepuerco dentirojo	127
	Pejepuerco estrellado	127
	Pejerizo balón	128
	Pejerrey cabezón	21
	Pejerrey de Barnes	22
	Pejerrey lijador	22
	Pejerrey samoano	22
*	<i>pelamis</i> , <i>Euthynnus</i>	118
	<i>pelamis</i> , <i>Katsuwonus</i>	118
	<i>Pelates quadrilineatus</i>	38
	Péliau chanos	42
	Pelican flounder	124
	<i>Pellona ditchela</i>	6
*	<i>Pellona hoevenii</i>	6
	<i>pentadactylus</i> , <i>Xyrichtys</i>	109
*	<i>perforata</i> , <i>Sardinella</i>	7
	Perpeire pélican	124
	Perroquet à écailles jaunes	111
	Perroquet à points rouges	110
	Perroquet bossu vert	110
	Perroquet candelamoa	111
	Perroquet des Carolines	110
	Perroquet marbré	111
*	<i>Pertica filamentosa</i>	60
	Petaca rayada	97
	<i>petimba</i> , <i>Fistularia</i>	27
	Peto	116
	Pez espada	121
	Pez piloto	52
	Pez sable	121
	Pez vela	122
	Pickhandle barracuda	102
	Picnic seabream	86
	<i>picta</i> , <i>Siderea</i>	14
	<i>pictum</i> , <i>Diagramma</i>	75
*	<i>pictus</i> , <i>Gymnothorax</i>	14
*	<i>pictus</i> , <i>Lycondontis</i>	14
*	<i>pictus</i> , <i>Plectorhynchus</i>	75
*	<i>pictus</i> , <i>Spilotichthys</i>	75
	Picuda barracuda	101
	Picuda de Forster	101
	Picuda galoneada	102
	Picuda obtusa	102
	Picuda rabo amarillo	103
	Picuda serpentina	102
*	<i>picuda</i> , <i>Sphyræna</i>	101
	Pilottfish	52
*	<i>pinguis</i> , <i>Pranesus</i>	21
	Pinjalo snapper	69
	<i>pinjalo</i> , <i>Pinjalo</i>	69
	<i>Pinjalo pinjalo</i>	69
*	<i>pinnulatus</i> , <i>Decapterus</i>	50
	<i>pisang</i> , <i>Pterocaesio</i>	72
	<i>plagiodesmus</i> , <i>Plectorhinchus</i>	79
	<i>plagiotaenia</i> , <i>Carangoides</i>	47
	PLATACIDAE	98
	<i>Platax orbicularis</i>	98
*	<i>Platax vespertilio</i>	98
	Platcéphale indien	28
*	<i>platyura</i> , <i>Belone</i>	24
	<i>Platybelone argalus</i>	24
	Platycéphale crocodile	28
	Platycéphale épineux	29
	Platycéphale tentaculé	28
	PLATYCEPHALIDAE	28-29
*	<i>Platycephalus crocodilus</i>	28
*	<i>Platycephalus grandidieri</i>	28
	<i>Platycephalus indicus</i>	28
*	<i>Platycephalus insidiator</i>	28
*	<i>Platycephalus longiceps</i>	28
*	<i>Platycephalus punctatus</i>	28
*	<i>Platycephalus tentaculatus</i>	28
	<i>platypterus</i> , <i>Istiophorus</i>	122
*	<i>platyura</i> , <i>Belone</i>	24
	<i>playfairi</i> , <i>Plectorhinchus</i>	80
*	<i>plebeius</i> , <i>Polydactylus</i>	103
	<i>plebeius</i> , <i>Polynemus</i>	103
	<i>Plectorhinchus chubbi</i>	75
	<i>Plectorhinchus</i>	76
	<i>flavomaculatus</i>	
	<i>Plectorhinchus gaterinus</i>	76
	<i>Plectorhinchus gibbosus</i>	76
	<i>Plectorhinchus orientalis</i>	77
	<i>Plectorhinchus paulayi</i>	79
	<i>Plectorhinchus</i>	79
	<i>plagiodesmus</i>	
	<i>Plectorhinchus playfairi</i>	80
	<i>Plectorhinchus schotaf</i>	77
	<i>Plectorhinchus sordidus</i>	77
*	<i>Plectorhynchus crassispina</i>	76
*	<i>Plectorhynchus nigrus</i>	76
*	<i>Plectorhynchus pictus</i>	75
	<i>Plectropomus laevis</i>	36
	<i>Plectropomus leopardus</i>	36
	<i>Plectropomus maculatus</i>	37
*	<i>Plectropomus marmoratus</i>	37
*	<i>Plectropomus melanoleucus</i>	36
	<i>Plectropomus punctatus</i>	37
	<i>pleurostigma</i> , <i>Parupeneus</i>	94
	PLOTOSIDAE	17-18
*	<i>Plotosus anguillaris</i>	18
*	<i>Plotosus arab</i>	18
	<i>Plotosus limbatus</i>	17
	<i>Plotosus lineatus</i>	18
	<i>plurilineatus</i> , <i>Scomberomorus</i>	119
*	<i>Pneumatophorus colias</i>	119
	<i>poecilonotus</i> , <i>Epinephelus</i>	35
	Poisson pilote	52
	Poisson sabre commun	121
*	<i>politus</i> , <i>Decapterus</i>	44
*	<i>Polydactylus indicus</i>	103
*	<i>Polydactylus plebeius</i>	103
*	<i>Polydactylus sextarius</i>	104
	POLYNEMIDAE	103-104
	<i>Polynemus indicus</i>	103
	<i>Polynemus plebeius</i>	103
	<i>Polynemus sextarius</i>	104
*	<i>polyspilus</i> , <i>Pseudorhombus</i>	125
	<i>polystaphylodon</i> , <i>Arius</i>	16
*	<i>polystaphylodon</i> , <i>Tachysurus</i>	16
	<i>Polysteganus</i>	88
	<i>coeruleopunctatus</i>	
	POMACANTHIDAE	97
	POMACENTRIDAE	97

	PAGE		PAGE
Rite dentu	125	Salmonete barberino	91
<i>rivoliana, Seriola</i>	54	Salmonete barborín	93
<i>rivulatus, Epinephelus</i>	35	Salmonete bensasi	92
<i>rivulatus, Lutjanus</i>	67	Salmonete de banda	92
Roba	82,84	dorada	
<i>robinsoni, Gymnocranius</i>	81	Salmonete estriado	93
* <i>robinsoni, Umbrina</i>	90	Salmonete índico	91
Robust tuskfish	108	Salmonete naranjero	93
<i>robustus, Choerodon</i>	108	* <i>saltator, Pomatomus</i>	42
Rockmover wrasse	106	* <i>saltator, Temnodon</i>	42
<i>rogaa, Aethaloperca</i>	29	<i>saltatrix, Pomatomus</i>	42
* <i>rogaa, Cephalopholis</i>	29	Samoan silverside	22
<i>Rogadius asper</i>	29	Samsuli	122-123
* <i>Rogadius pristiger</i>	29	Samsuru	123
Rombou léopard	124	* <i>sanctipetri, Chorinemus</i>	53
Rombou oval	124	* <i>sandwicensis, Calotomus</i>	110
<i>ronchus, Umbrina</i>	90	* <i>sanguineus, Lethrinus</i>	83
Ronco de tres bandas	79	<i>sanguineus, Lutjanus</i>	68
* <i>Rooseveltia brighami</i>	70	Sansuli	121
* <i>rostratus, Lethrinus</i>	82	* <i>sansun, Caranx</i>	49
* <i>rostratus, Siganus</i>	115	Santer seabream	88
Rosy dwarf monocle	73	Sapsap boxeur	60
bream		Sapsap dentu	58
Rosy goatfish	94	Sapsap élégant	58
Rouget-barbet bandeau	91	Sapsap fil	58
Rouget-barbet barberin	91	<i>sarba, Rhabdosargus</i>	89
Rouget-barbet indien	91	* <i>sarba, Sparus</i>	89
Rouget-souris à bande	93	<i>Sarda orientalis</i>	118
sombre		Sardina arco iris	4
Rouget-souris aurore	92	* <i>Sardinella perforata</i>	7
Rouget-souris bande or	92	Sardinata índica	6
Rouget-souris bensasi	92	Sardine arc-en-ciel	4
Rouget-souris orangé	93	Sardinela africana	7
Rouget-souris rayé	93	oriental	
Round herring	5	Sardinela blanca	7
<i>rubenscens, Parupeneus</i>	94	Sardinela daniva	4
<i>ruber, Otolithes</i>	90	Sardinela dorada	7
<i>rubrioperculatus,</i>	85	Sardinela manchada	4
<i>Lethrinus</i>		Sardinela rabo negro	6
Ruby snapper	62	Sardinella daniva	4
Ruguu	97	<i>Sardinella albella</i>	7
* <i>rüppelli, Pranesuspinguis</i>	21	* <i>Sardinella bulan</i>	7
Russell's snapper	67	<i>Sardinella gibbosa</i>	7
<i>russelli, Decapterus</i>	51	* <i>Sardinella jussieu</i>	7
<i>russelli, Lutjanus</i>	67	* <i>Sardinella leiogaster</i>	4
<i>rutilans, Aphareus</i>	61	* <i>Sardinella longiceps</i>	7
		<i>Sardinella melanura</i>	6
		<i>Sardinella neglecta</i>	7
		* <i>Sardinella sirm</i>	4
		* <i>Sardinella taiwanensis</i>	7
		* <i>Sardinella tembang</i>	7
		Sardinelle blanche	7
		Sardinelle dorée	7
		Sardinelle est	7
		africaine	
		Sardinelle queue noir	6
		Sardinelle tachetée	4
		Sardineta canalera	5
		Sare-sare	61
Sábalo chandano	6	Sargo de dos bandas	87
Saburbir emperor	84	Sargo dorado	89
Saddle grunt	78	Sargo picnic	86
Sailfin tang	114	Sargo real	87
Sailfish	122	Sargo soldado	87
Salema del Mar Rojo	88	<i>Sargocent</i>	26
Salisuli	123		
Salmonete aurora	92		
Salmonete bandón	91		

S

	PAGE		PAGE
Sargue doré	89	* <i>setirostris</i> , <i>Thrissocles</i>	11
Saupe de la Mer Rouge	88	<i>setirostris</i> , <i>Thryssa</i>	11
* <i>Saurida argyrophanes</i>	19	<i>sexfasciatus</i> , <i>Caranx</i>	49
<i>Saurida gracilis</i>	18	<i>sexmaculata</i> , <i>Cephalopholis</i>	30
* <i>Saurida grandisquamis</i>	19	* <i>sextarius</i> , <i>Polydactylus</i>	104
<i>Saurida tumbil</i>	19	<i>sextarius</i> , <i>Polynemus</i>	104
<i>Saurida undosquamis</i>	19	Shadine ronde	5
* <i>saurus</i> , <i>Elops</i>	3	Shadow trevally	46
Sauteur leurre	54	Shana	96
Sauteur sabre	53	Sharptooth jobfish	70
Sauteur talang	53	Shembea	10-11
<i>saxatilis</i> , <i>Abudefduf</i>	97	Shoemaker spinefoot	116
SCARIDAE	110-111	Shortbill spearfish	123
<i>Scarus ghobban</i>	111	Shortfin eel	15
* <i>Scarus harid</i>	111	Shortfin scad	50
* <i>schotaf</i> , <i>Gaterin</i>	77	Shorthead anchovy	9
<i>schotaf</i> , <i>Plectorhinchus</i>	77	Shrimp scad	44
* <i>Sciaena capensis</i>	90	* <i>sibi</i> , <i>Parathunnus</i>	120
* <i>Sciaena dussumieri</i>	89	<i>Siderea picta</i>	14
* <i>Sciaena parva</i>	89	Sidespot goatfish	94
* <i>Sciaena sinuata</i>	90	Sigan cordonnier	116
SCIAENIDAE	89-90	Sigan marguerite	116
<i>Scolopsis bimaculatus</i>	74	Sigan pintade	115
<i>Scolopsis ghanam</i>	74	Sigan sombre	115
* <i>Scolopsis kurite</i>	74	Sigan vermiculé	115
* <i>Scolopsis torquatus</i>	74	SIGANIDAE	115-116
<i>Scolopsis vosmeri</i>	74	Sigano margarita	116
* <i>Scomber colias</i>	119	Sigano nebuloso	115
<i>Scomber japonicus</i>	119	Sigano pintado	115
<i>Scomberoides</i>	53	Sigano veteado	115
<i>commersonnianus</i>		Sigano zapatero	116
<i>Scomberoides lysan</i>	53	<i>Siganus argenteus</i>	115
<i>Scomberoides tol</i>	54	<i>Siganus canaliculatus</i>	115
<i>Scomberomorus commerson</i>	119	<i>Siganus luridus</i>	115
* <i>Scomberomorus leopardus</i>	119	* <i>Siganus oramin</i>	115
<i>Scomberomorus</i>	119	* <i>Siganus rostratus</i>	115
<i>plurilineatus</i>		<i>Siganus stellatus</i>	116
SCOMBRIDAE	116-121	<i>Siganus sutor</i>	116
<i>sebae</i> , <i>Lutjanus</i>	68	<i>sihama</i> , <i>Sillago</i>	41
<i>secunda</i> , <i>Uraspis</i>	56	Silago pateta	41
<i>Secutor insidiator</i>	60	Silago plateado	41
<i>seheli</i> , <i>Valamugil</i>	101	Silago trompetero	41
Sehewa	117	Silky shark	130
Sélar coulisou	54	SILLAGINIDAE	41
Sélar queue jaune	44	<i>Sillago (Sillaginopodys)</i>	41
Sélar subarí	44	<i>chondropus</i>	
<i>Selar crumenophthalmus</i>	54	<i>Sillago maculata</i>	41
<i>sem</i> , <i>Caranx</i>	49	<i>Sillago sihama</i>	41
* <i>semidiscus</i> , <i>Hologymnosus</i>	106	Silver moony	95
Sergeant de Jordan	97	Silver sillago	41
Sergeant major	97	Simsimu	50-51
* <i>Seriola bovinoculata</i>	54	Sin croaker	89
* <i>Seriola colburni</i>	54	* <i>sina</i> , <i>Corvina</i>	89
* <i>Seriola falcata</i>	54	<i>sina</i> , <i>Johnieops</i>	89
<i>Seriola rivoliana</i>	54	* <i>sina</i> , <i>Johnius</i>	89
* <i>Seriola songoro</i>	54	(<i>Jonieops</i>)	
Sériole amourez	55	* <i>sina</i> , <i>Wak</i>	89
Sériole limon	54	* <i>sinuata</i> , <i>Sciaena</i>	90
<i>Seriolina nigrofasciata</i>	55	* <i>sinuata</i> , <i>Umbrina</i>	90
SERRANIDAE	29-38	Sio	55-56
* <i>serrata</i> , <i>Fistularia</i>	27	<i>sirm</i> , <i>Amblygaster</i>	4
* <i>serratus</i> , <i>Arius</i>	17	* <i>sirm</i> , <i>Sardinella</i>	4
* <i>serratus</i> , <i>Tachysurus</i>	17	Sixblotch hind	30
* <i>servus</i> , <i>Holocentrus</i>	39	Skipjack tuna	118
<i>setigerus</i> , <i>Lophiomus</i>	21	Sleek unicornfish	113

PAGE		PAGE	
Slender conger	12	<i>Spratelloides delicatulus</i>	8
Slender fusilier	72	<i>Spratelloides gracilis</i>	8
Slender grouper	29	Square-tail mullet	99
Slender ponyfish	58	Squirrelfishes	26
Slender silver-biddy	61	Starry moray	13
Slender threadfin bream	73	Starry triggerfish	127
Sling-jaw wrasse	105	* <i>stellaris</i> , <i>Abalistes</i>	127
Smallscaled terapon	39	* <i>stellata</i> , <i>Teuthis</i>	116
Smallspotted dart	55	<i>stellatus</i> , <i>Abalistes</i>	127
Smallspotted grunter	80	* <i>stellatus</i> , <i>Caranx</i>	48
Smalltooth emperor	84	<i>stellatus</i> , <i>Siganus</i>	116
Smalltoothed jobfish	61	* <i>Stolephorus buccaneeri</i>	9
Smooth angler	20	<i>Stolephorus commersonii</i>	10
Smooth grouper	31	* <i>Stolephorus delicatulus</i>	8
Smoothbelly sardinella	4	<i>Stolephorus devisi</i>	10
Snubnose pompano	56	<i>Stolephorus heterolobus</i>	9
<i>solandri</i> , <i>Acanthocybium</i>	116	<i>Stolephorus indicus</i>	9
Soldier bream	87	* <i>Stolephorus japonicus</i>	8
Soldierfishes	26	<i>Stolephorus punctifer</i>	9
Sole de lait	125	Streaky-spot grouper	33
SOLEIDAE	125	Streamlined spinefoot	115
Sondo	41	* <i>striata</i> , <i>Umbrina</i>	90
Songawa	29	Striated surgeonfish	113
Songoro	42	<i>striatus</i> , <i>Ctenochaetus</i>	113
* <i>songoro</i> , <i>Seriola</i>	54	<i>stridens</i> , <i>Pomadasys</i>	79
Songwa	28	* <i>stridens</i> , <i>Rhonciscus</i>	79
<i>sonnerati</i> , <i>Cephalopholis</i>	30	<i>striolatus</i> , <i>Dermatolepis</i>	31
Sonneurs	40	Striped bonito	118
Sordid rubberlip	77	Striped eel catfish	18
* <i>sordidus</i> , <i>Gaterin</i>	77	Striped goatfish	93
<i>sordidus</i> , <i>Plectorhinchus</i>	77	Striped large-eye bream	81
Sorora	66	Striped marlin	123
Spangled emperor	84	Striped piggy	79
Spare royal	87	Striped ponyfish	59
Spare soldat	87	Striped round herring	8
SPARIDAE	87-89	Striped threadfin	103
* <i>Sparus bifasciatus</i>	87	* <i>strongylocephalus</i> , <i>Mugil</i>	100
* <i>Sparus sarba</i>	89	<i>Strongylura leiura</i>	25
* <i>Sparus spinifer</i>	87	* <i>Sufflamen capistratus</i>	127
* <i>speciosus</i> , <i>Caranx</i>	52	<i>Sufflamen fraenatus</i>	127
<i>speciosus</i> , <i>Gnathanodon</i>	52	Sulphur goatfish	92
Speckled siderial moray	14	<i>sulphureus</i> , <i>Upeneus</i>	92
<i>Sphyaena barracuda</i>	101	Surge wrasse	107
* <i>Sphyaena bleekeri</i>	102	<i>surinamensis</i> , <i>Lobotes</i>	75
* <i>Sphyaena chrysotaenia</i>	102	Sururu	74
<i>Sphyaena flavicauda</i>	103	Susu	121
<i>Sphyaena forsteri</i>	101	<i>sutor</i> , <i>Siganus</i>	116
<i>Sphyaena jello</i>	102	Swordfish	121
<i>Sphyaena obtusata</i>	102	SYNODONTIDAE	18-20
* <i>Sphyaena picuda</i>	101	* <i>Synodus bouliti</i>	20
<i>Sphyaena putnamiae</i>	102	* <i>Synodus dermatogenys</i>	20
* <i>Sphyaenella chrysotaenia</i>	102	<i>Synodus englemani</i>	19
SPHYRAENIDAE	101-103	<i>Synodus variegatus</i>	20
* <i>Spilotichthys pictus</i>	75	* <i>Synodus varius</i>	20
<i>spiloticeps</i> , <i>Epinephelus</i>	35		
* <i>spinidens</i> , <i>Calotomus</i>	110		
<i>spinifer</i> , <i>Argyrops</i>	87		
* <i>spinifer</i> , <i>Sparus</i>	87		
<i>splendens</i> , <i>Leiognathus</i>	59		
Splendid ponyfish	59		
Spotcheek emperor	85		
Spotted coral-trout	37		
Spotted herring	5		
Spotted sardinella	4		
Spotted sicklefish	96		

PAGE

PAGE

T

		<i>theraps, Terapon</i>	39
		Thon mignon	121
		Thon obèse	120
		Thonine orientale	117
		Thorny flathead	29
* <i>Tachysurus africanus</i>	16	Threeline hogfish	108
* <i>Tachysurus</i>	16	Thresher shark	130
<i>madagascariensis</i>		* <i>Thrissina baelama</i>	10
* <i>Tachysurus polystaphylodon</i>	16	* <i>Thrissocles baelama</i>	10
* <i>Tachysurus serratus</i>	17	* <i>Thrissocles setirostris</i>	11
* <i>Tachysurus thalassinus</i>	17	* <i>Thrissocles vitrirostris</i>	11
* <i>Tachysurus venosus</i>	17	<i>Thryssa baelama</i>	10
<i>taeniopterus, Upeneus</i>	93	<i>Thryssa setirostris</i>	11
* <i>taeniourus, Hemipteronotus</i>	106	<i>Thryssa vitrirostris</i>	11
<i>taeniourus, Novaculichthys</i>	106	Thumbprint emperor	82
* <i>taiwanensis, Sardinella</i>	7	Thumbprint monocle	74
Talang queenfish	53	bream	
Tamarin verde	106	<i>Thunnus alalunga</i>	120
Tamarin vert	106	<i>Thunnus albacares</i>	120
Tambanji	41	* <i>Thunnus germo</i>	120
Tamboriles	126	<i>Thunnus obesus</i>	120
Tanda	58,60	<i>Thunnus tonggol</i>	121
* <i>tapeinosoma, Auxis</i>	117	* <i>Thynnus argentivittatus</i>	120
Tarpon indo-pacífico	3	<i>Thyrsoidea macrura</i>	14
Tarpon indo-pacifique	3	Tiburón jaquetón	130
Tarry hogfish	104	Tiger shark	130
Tasi	115-116	Tigertooth croaker	90
Tasi-muamba	116	<i>tile, Pterocaesio</i>	72
Tassergal	42	Tili	23
<i>tauvina, Epinephelus</i>	32	Tille trevally	50
<i>Teixeirichthys jordani</i>	97	<i>tille, Caranx</i>	50
* <i>tembang, Sardinella</i>	7	Tintorera	130
Tembo	64	Tobies	126
Tembo-uzi	65	* <i>tol, Chorinemus</i>	54
Tembouzi	66	<i>tol, Scomberoides</i>	54
<i>temminckii, Hypoatherina</i>	22	Tomato hind	30
* <i>Temnodon saltator</i>	42	* <i>tonggol, Kishinoella</i>	121
<i>tennentii, Acanthurus</i>	114	<i>tonggol, Thunnus</i>	121
Tenpounder	3	Toothpony	58
Tentacled flathead	28	Torpedo scad	52
* <i>tentaculatus,</i>	28	* <i>torquatus, Scolopsis</i>	74
<i>Platycephalus</i>		* <i>Trachinocephalus hypozona</i>	20
TERAPONIDAE	38-39	<i>Trachinocephalus myops</i>	20
<i>Terapon jarbua</i>	39	<i>Trachinotus africanus</i>	55
<i>Terapon puta</i>	39	<i>Trachinotus baillonii</i>	55
<i>Terapon theraps</i>	39	<i>Trachinotus blochii</i>	56
<i>teres, Etrumeus</i>	5	* <i>Trachurops</i>	54
TETRAODONTIDAE	126	<i>crumenophthalmus</i>	
<i>Tetrapturus angustirostris</i>	123	<i>tragula, Upeneus</i>	93
<i>Tetrapturus audax</i>	123	TRICHIURIDAE	121
* <i>Tetrapturus mitsukurii</i>	123	* <i>Trichiurus coxii</i>	121
* <i>Teuthis lurida</i>	115	* <i>Trichiurus haumela</i>	121
* <i>Teuthis stellata</i>	116	* <i>Trichiurus japonicus</i>	121
<i>thalassinus, Arius</i>	17	<i>Trichiurus lepturus</i>	121
* <i>thalassinus, Netuma</i>	17	* <i>Trichiurus lepturus</i>	121
* <i>thalassinus, Tachysurus</i>	17	<i>japonicus</i>	
<i>Thalassoma fuscum</i>	109	<i>trilineatus, Bodianus</i>	108
<i>Thalassoma lunare</i>	109	<i>trilobatus, Cheilinus</i>	108
<i>Thalassoma purpureum</i>	107	<i>triostegus, Acanthurus</i>	114
Thazard kanadi	119	Tripletail	75
Thazard rayé	119	Tripletail wrasse	108
(Indo-Pacifique)		<i>Tripteronodon orbis</i>	96
Thazard-bâtard	116	Trompetero chino	27
<i>thazard, Auxis</i>	117	Trompette chinoise	27
* <i>theraps, Eutherapon</i>	39	* <i>Tropidinius zonatus</i>	70

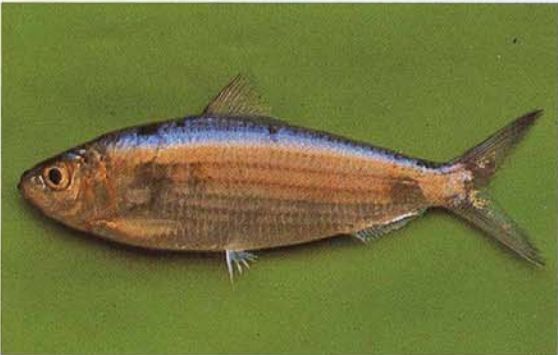
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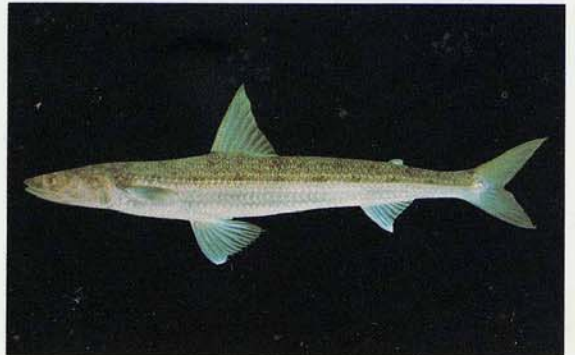
1) *Megalops cyprinoides*



2) *Hilsa kelee*



3) *Sardinella albella*



4) *Saurida undosquamis*



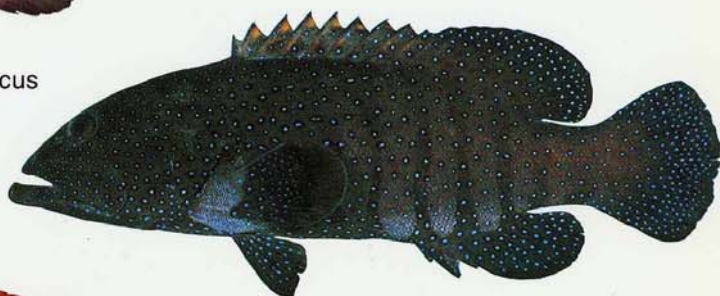
5) *Hemiramphus far*



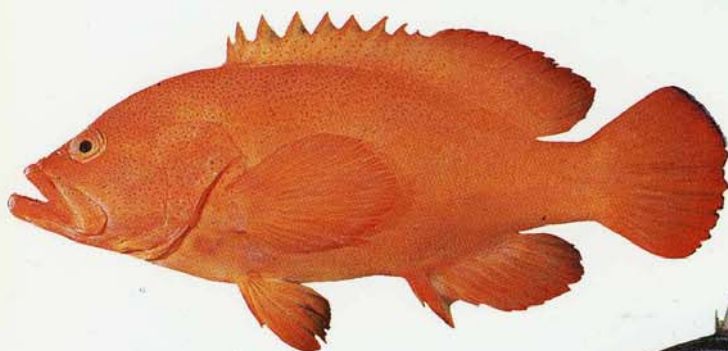
6) *Aethaloperca rogaa*



7) *Anyperodon leucogrammicus*



8) *Cephalopholis argus*



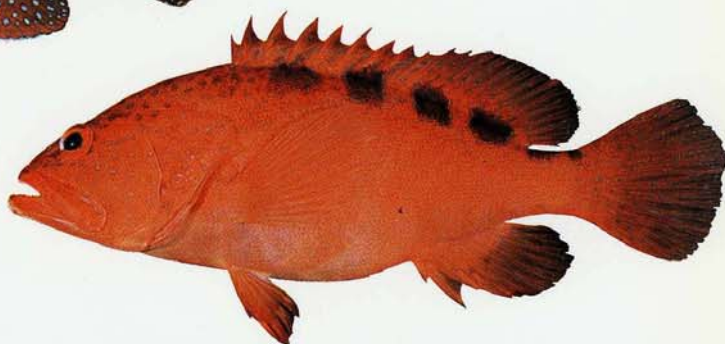
9) *Cephalopholis aurantia*



10) *Cephalopholis formosa*



11) *Cephalopholis miniata*



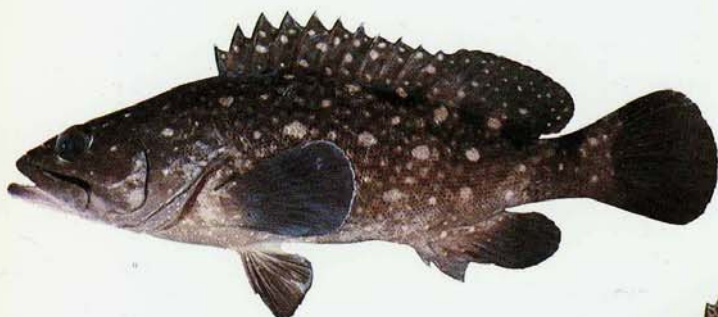
12) *Cephalopholis sexmaculata*



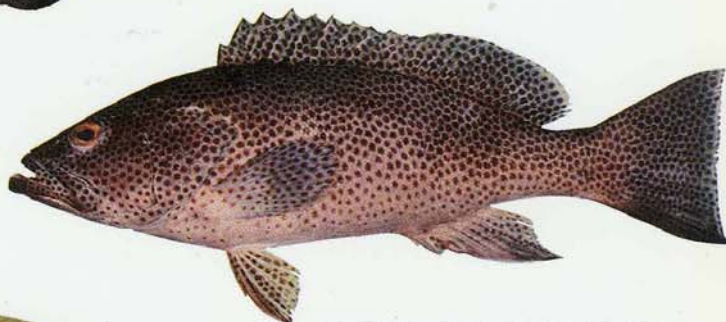
13) *Cephalopholis sonnerati*



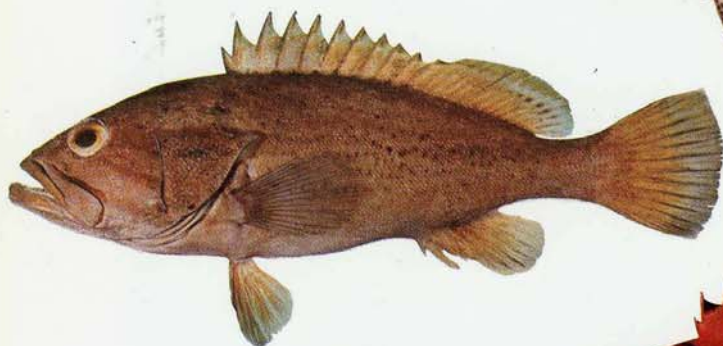
14) *Epinephelus areolatus*



15) *Epinephelus caeruleopunctatus*



16) *Epinephelus chlorostigma*



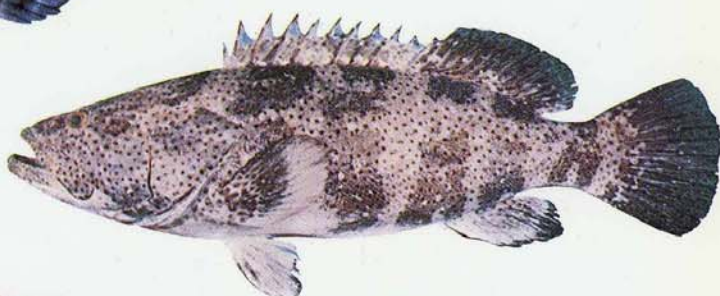
17) *Epinephelus epistictus*



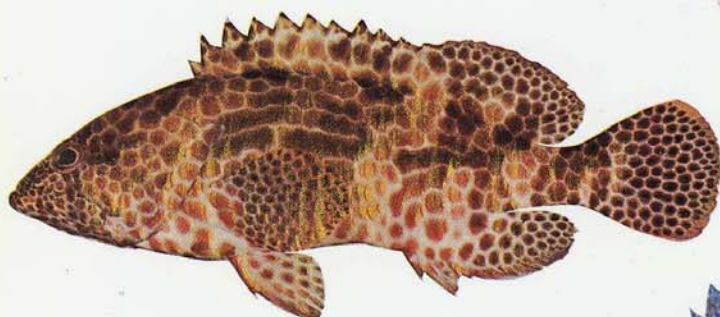
18) *Epinephelus fasciatus*



19) *Epinephelus fuscoguttatus*



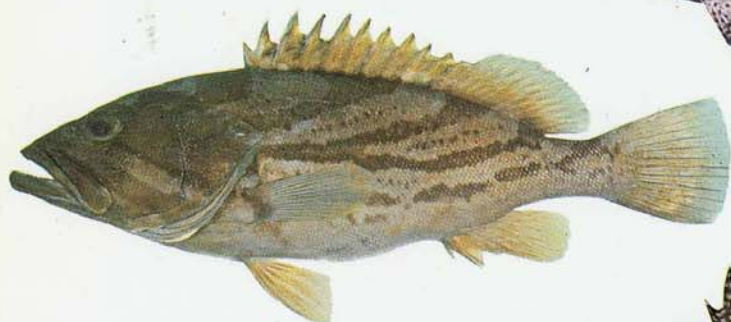
20) *Epinephelus malabaricus*



21) *Epinephelus merra*



22) *Epinephelus microdon*



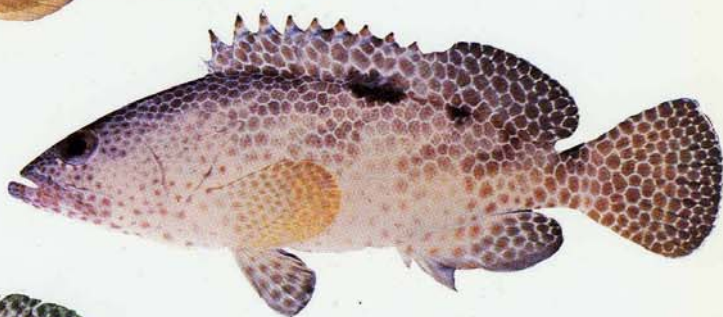
23) *Epinephelus morrhua*



24) *Epinephelus ongus*



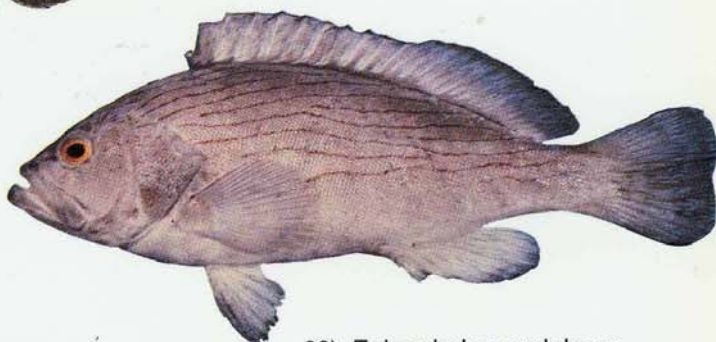
25) *Epinephelus rivulatus*



26) *Epinephelus spilotoceps*



27) *Epinephelus tauvina*



28) *Epinephelus undulosus*



29) *Plectropomus laevis*



30) *Plectropomus maculatus*



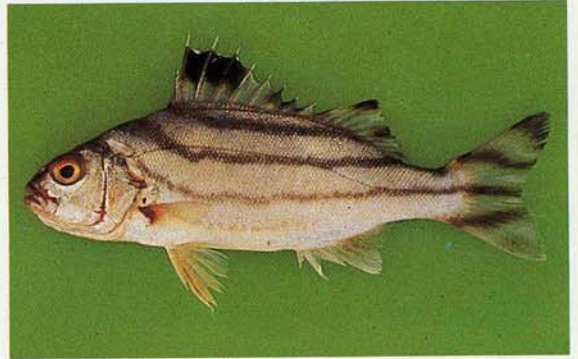
31) *Plectropomus punctatus*



32) *Variola albimarginata*



33) *Variola louti*



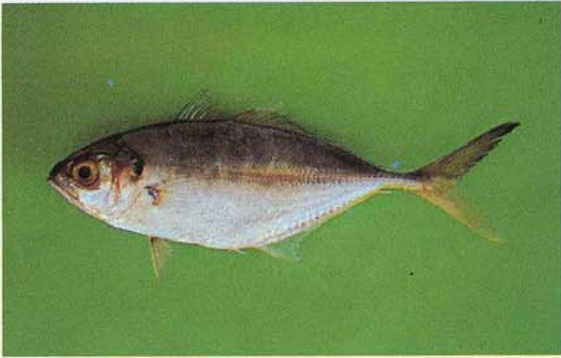
34) *Terapon jarbua*



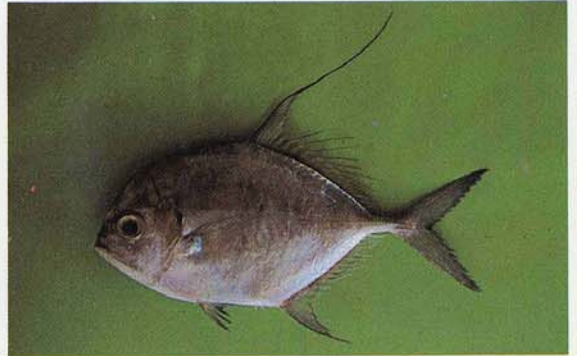
35) *Terapon puta*



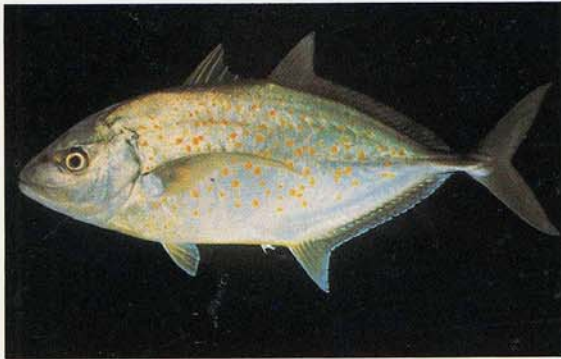
36) *Alectis indicus*



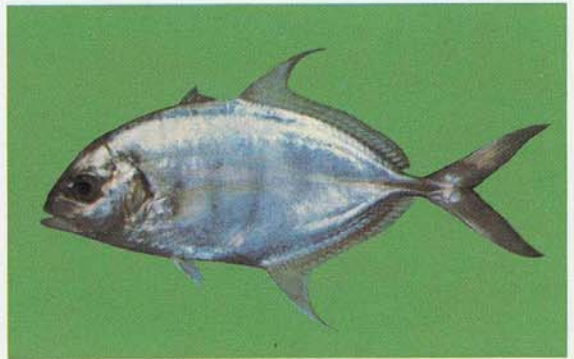
37) *Alepes djedaba*



38) *Carangoides armatus*



39) *Carangoides bajad*



40) *Carangoides ferdau*



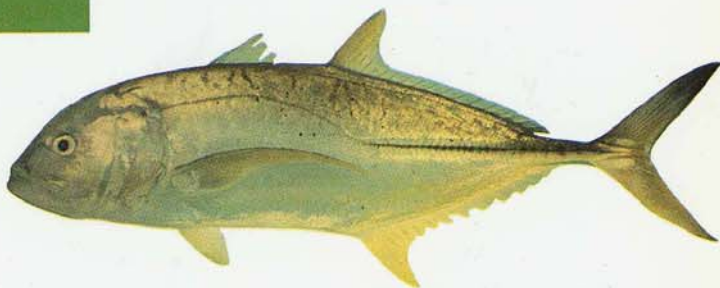
41) *Carangoides malabaricus*



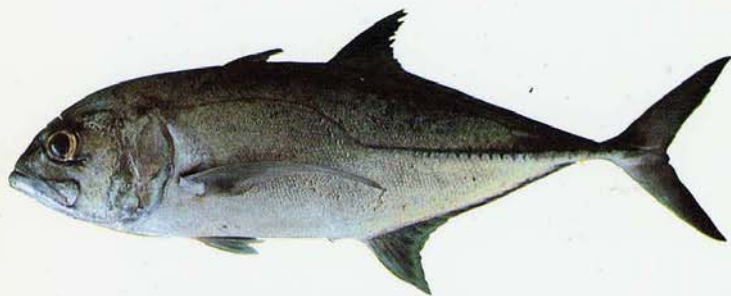
42) *Caranx ignobilis*



43) *Caranx papuensis*



44) *Caranx sem*



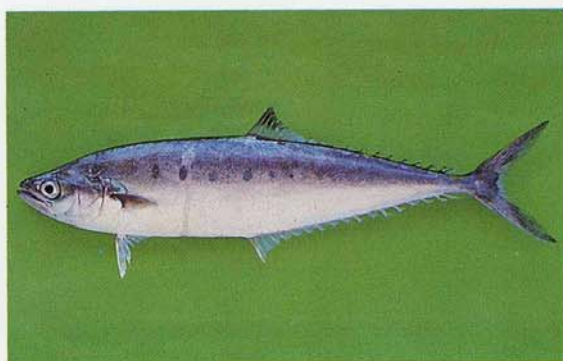
45) *Caranx sexfasciatus*



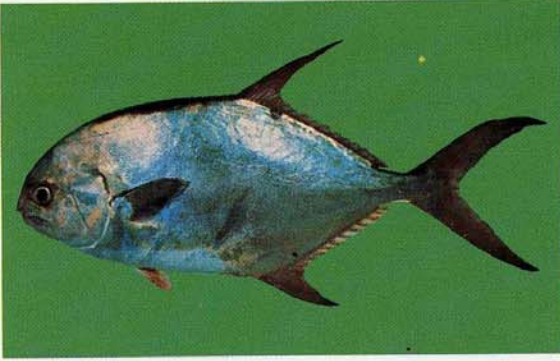
46) *Megalaspis cordyla*



47) *Scomberoides lysan*



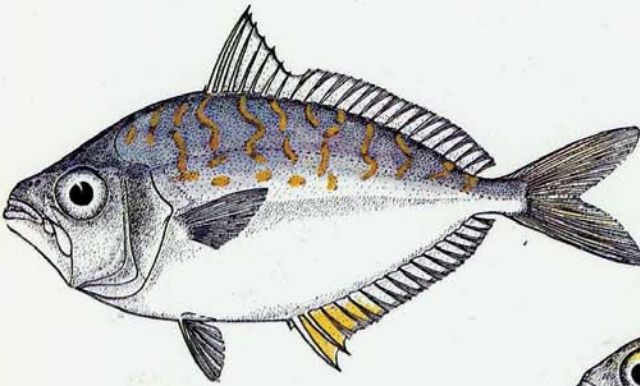
48) *Scomberoides tol*



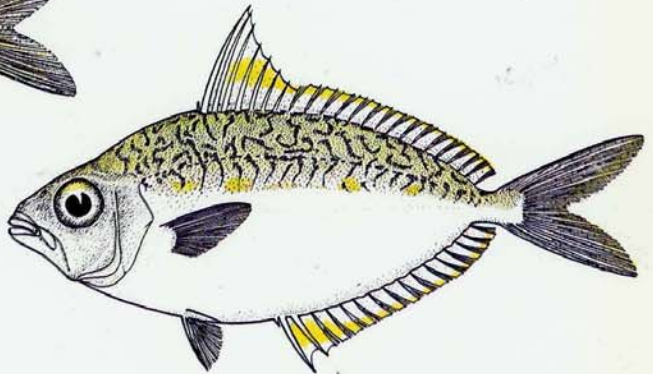
49) *Trachinotus blochii*



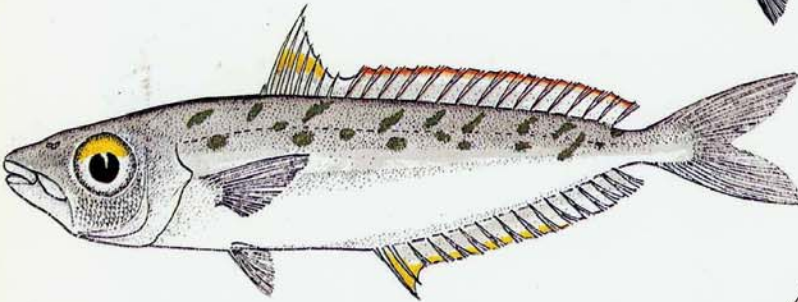
50) *Mene maculata*



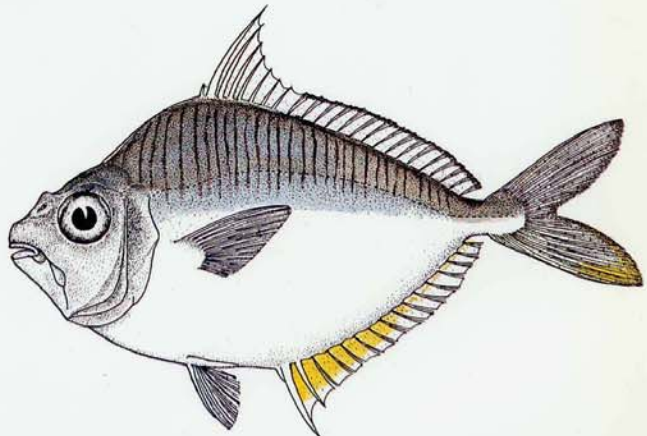
51) *Gazza minuta*



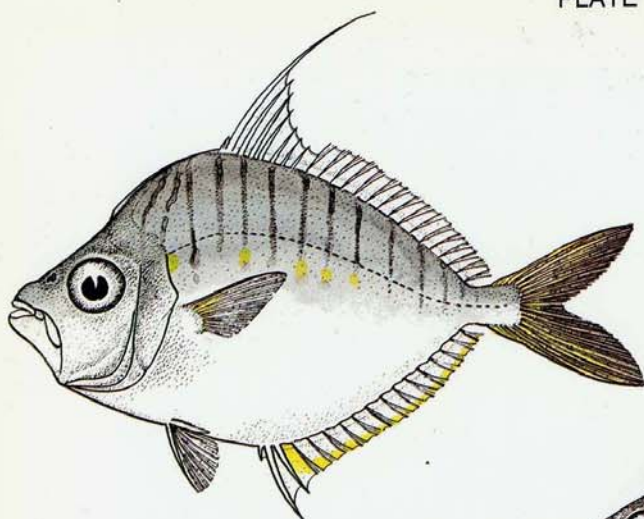
52) *Leiognathus berbis*



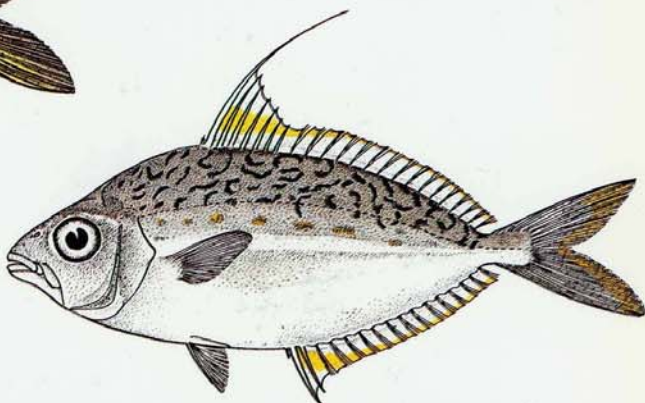
53) *Leiognathus elongatus*



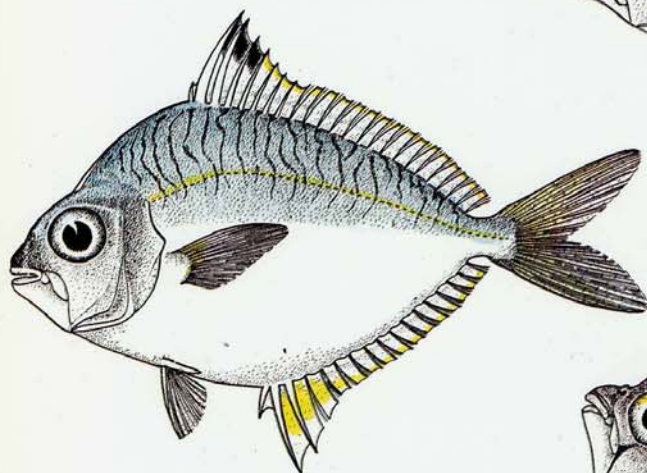
54) *Leiognathus equulus*



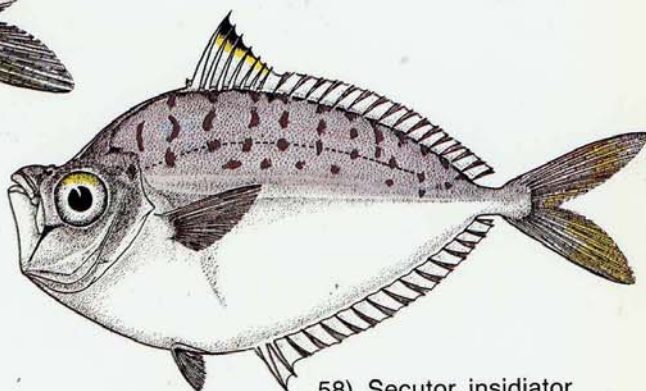
55) *Leiognathus fasciatus*



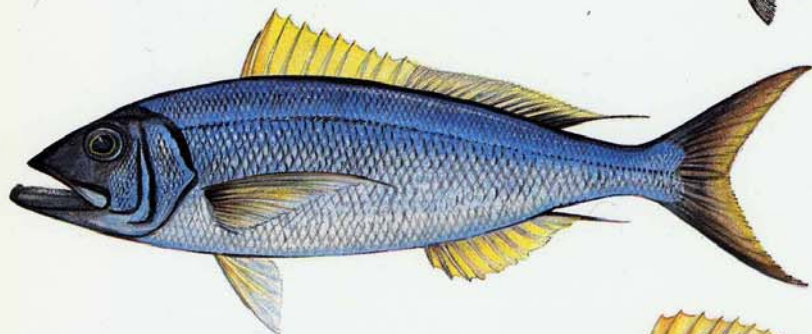
56) *Leiognathus leuciscus*



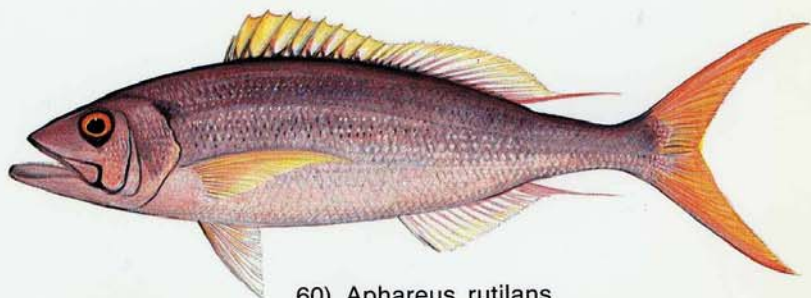
57) *Leiognathus splendens*



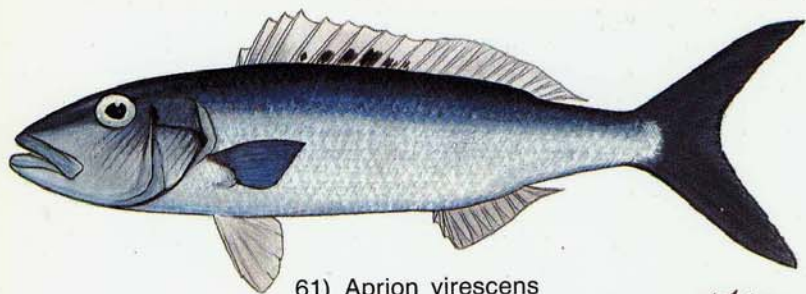
58) *Secutor insidiator*



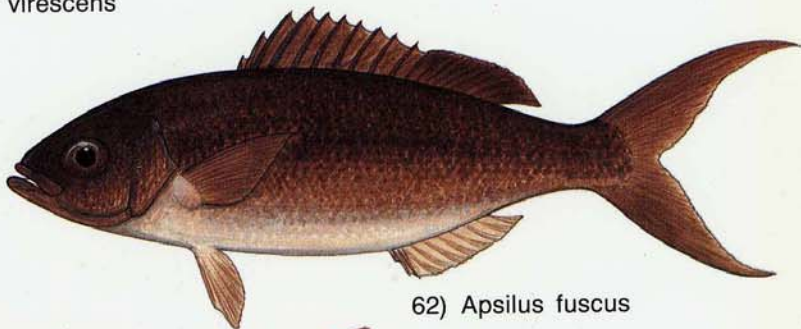
59) *Aphareus furcatus*



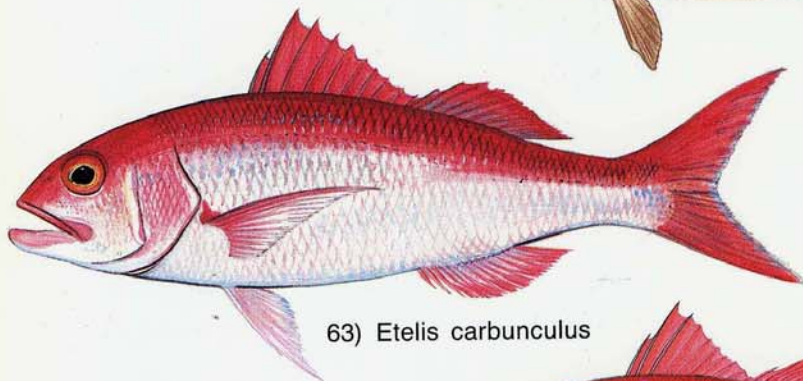
60) *Aphareus rutilans*



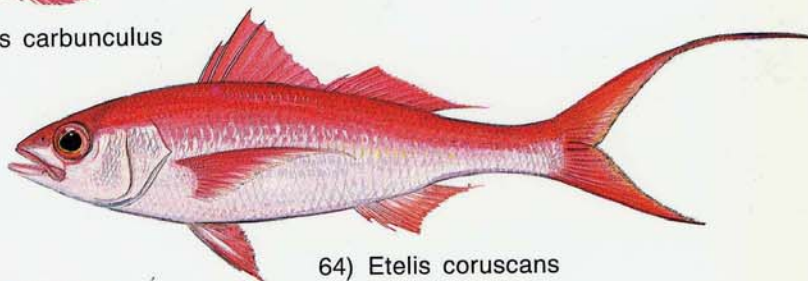
61) *Aprion virescens*



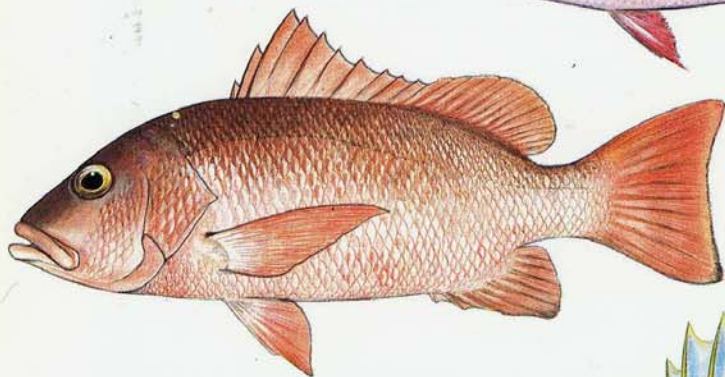
62) *Apsilus fuscus*



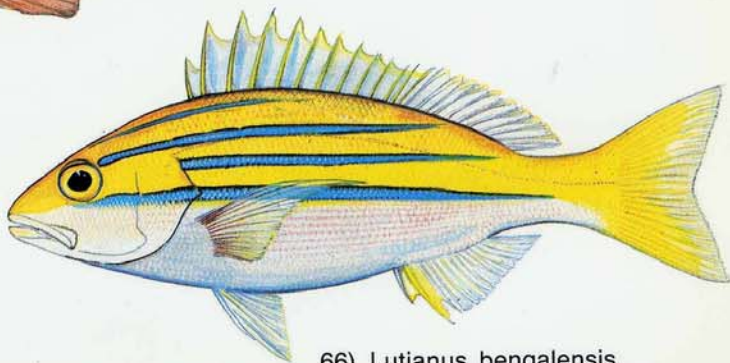
63) *Etelis carbunculus*



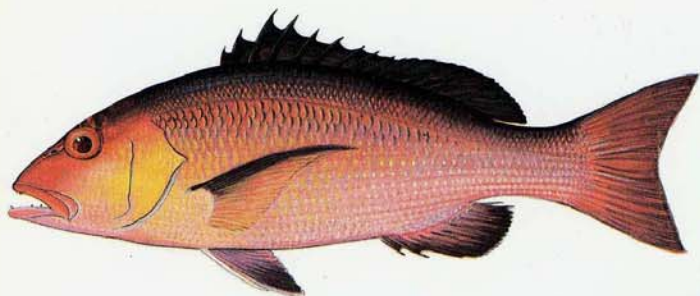
64) *Etelis coruscans*



65) *Lutjanus argentimaculatus*



66) *Lutjanus bengalensis*



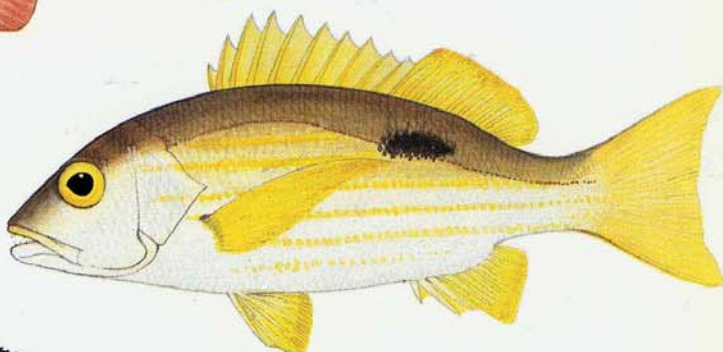
67) *Lutjanus bohar*



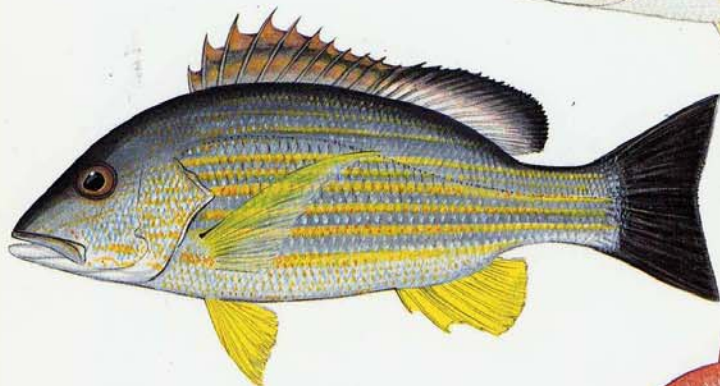
68) *Lutjanus ehrenbergi*



69) *Lutjanus erythropterus*



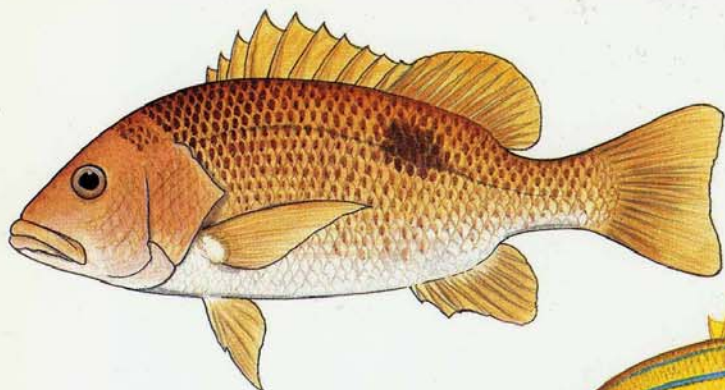
70) *Lutjanus fulviflamma*



71) *Lutjanus fulvus*



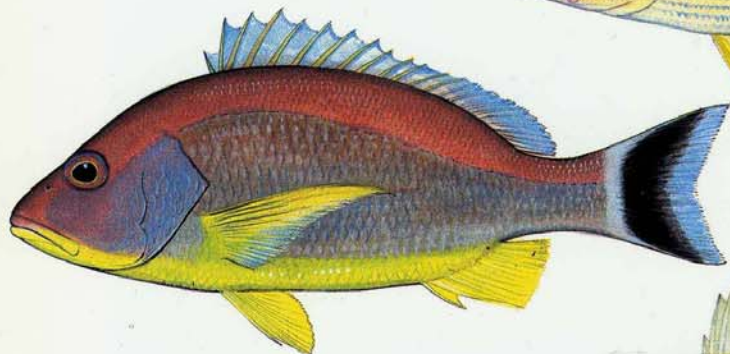
72) *Lutjanus gibbus*



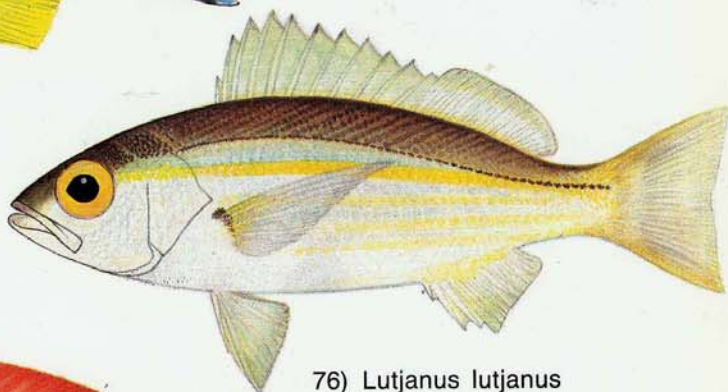
73) *Lutjanus johnii*



74) *Lutjanus kasmira*



75) *Lutjanus lunulatus*



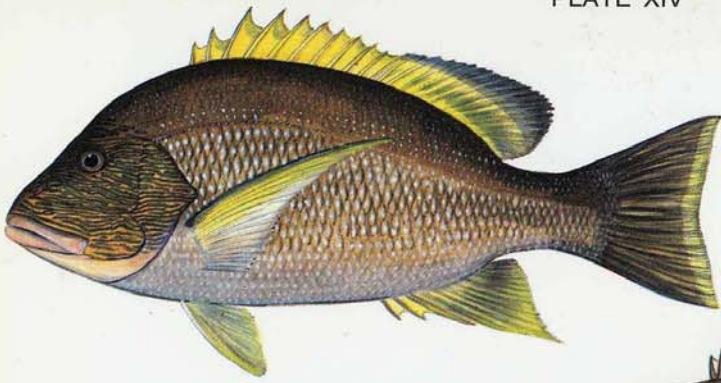
76) *Lutjanus lutjanus*



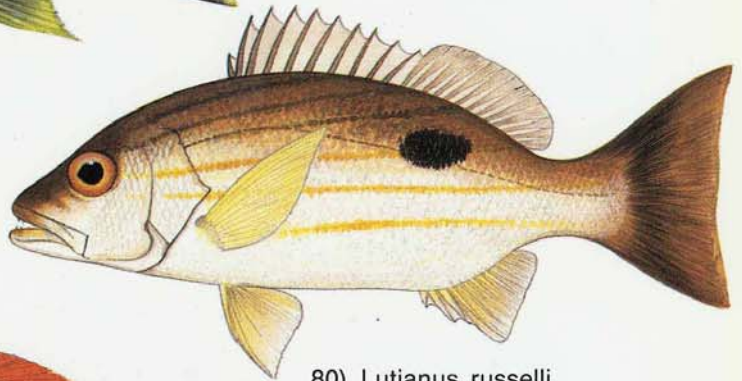
77) *Lutjanus malabaricus*



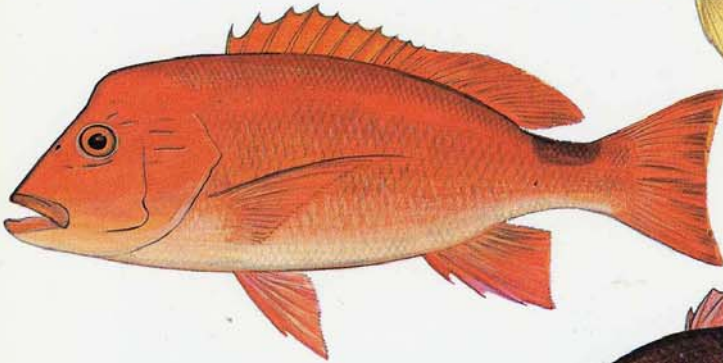
78) *Lutjanus monostigma*



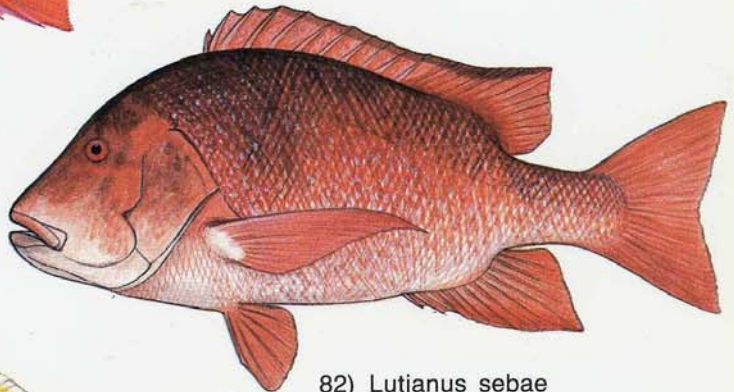
79) *Lutjanus rivulatus*



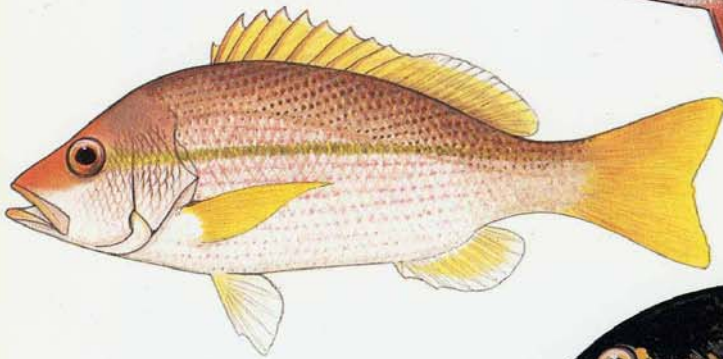
80) *Lutjanus russelli*



81) *Lutjanus sanguineus*



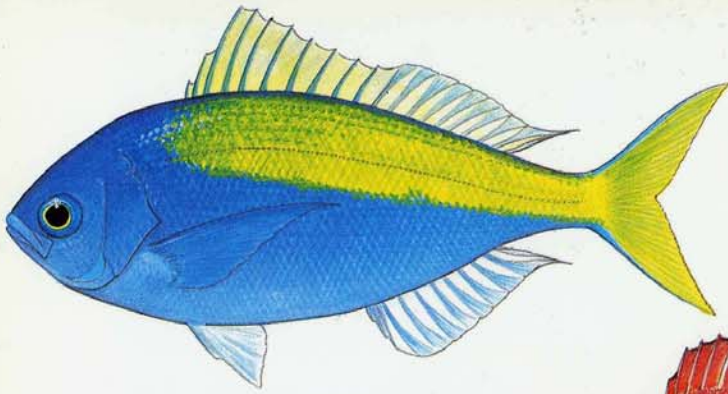
82) *Lutjanus sebae*



83) *Lutjanus vitta*



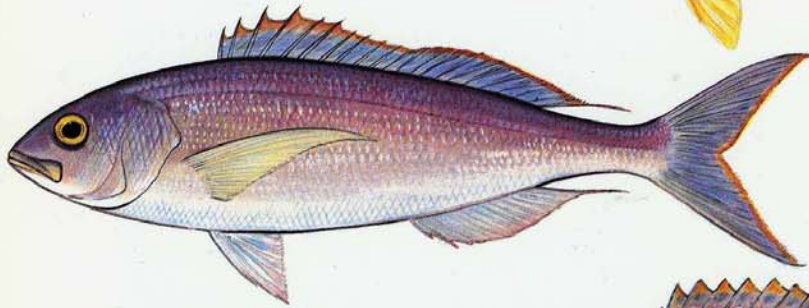
84) *Macolor niger*



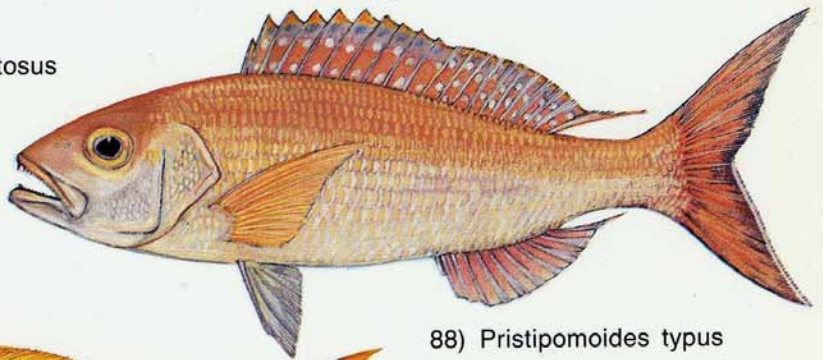
85) *Paracaesio xanthurus*



86) *Pinjalo pinjalo*



87) *Pristipomoides filamentosus*



88) *Pristipomoides typus*



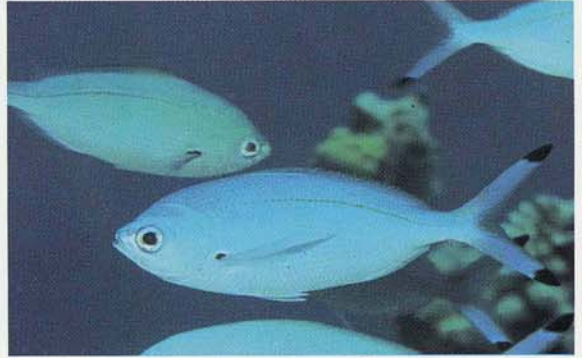
89) *Pristipomoides zonatus*



90) *Caesio caerulaureus*



91) *Caesio xanthonotus*



92) *Caesio lunaris*



93) *Pterocaesio chrysozona*



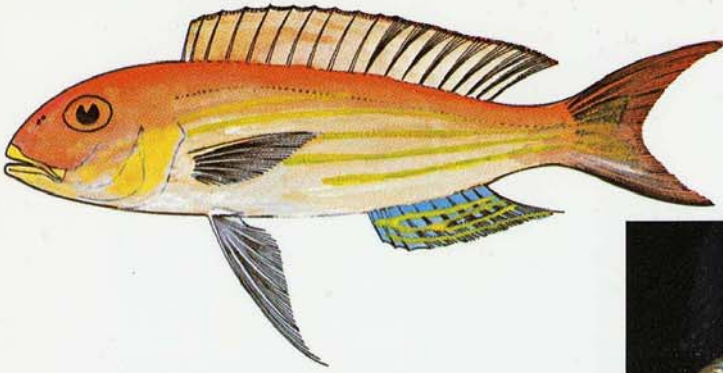
94) *Pterocaesio diagramma*



95) *Pterocaesio pisang*



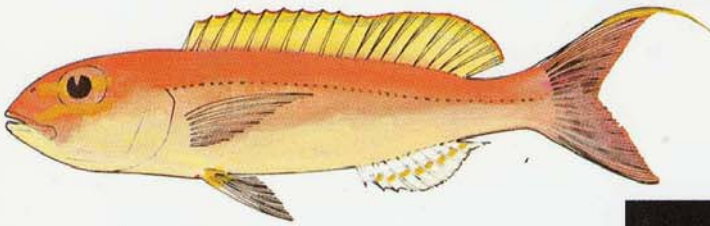
96) *Pterocaesio tile*



97) *Nemipterus bleekeri*



98) *Nemipterus japonicus*



99) *Nemipterus metopias*



100) *Parascolopis eriomma*



101) *Scolopsis vosmeri*



102) *Scolopsis bimaculatus*



103) *Scolopsis ghanam*



104) *Lobotes surinamensis*



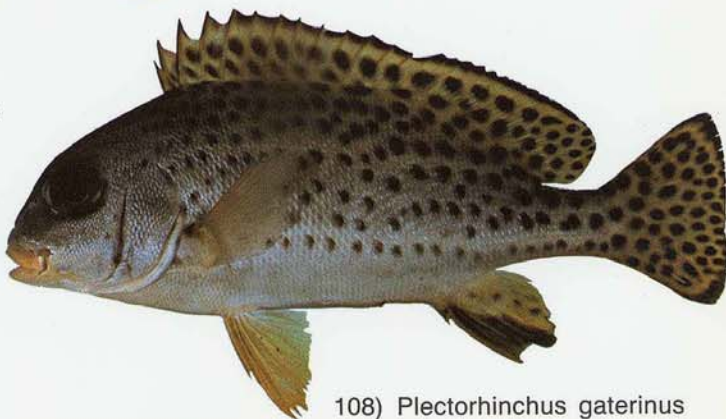
105) *Diagramma pictum*



106) *Plectorhinchus chubbi*



107) *Plectorhinchus flavomaculatus*



108) *Plectorhinchus gaterinus*



109) *Plectorhinchus gibbosus*



110) *Plectorhinchus orientalis*



111) *Plectorhinchus playfairi*



112) *Plectorhinchus schotaf*



113) *Plectorhinchus sordidus*



114) *Pomadasys furcatus*



115) *Pomadasys kaakan*



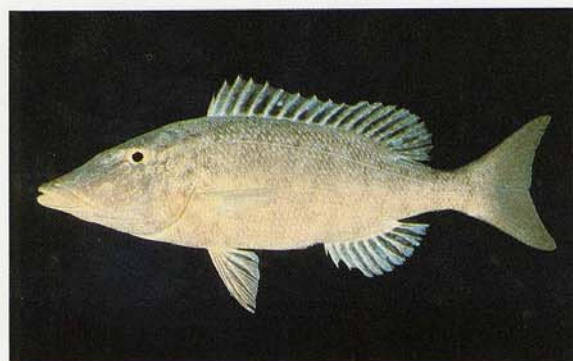
116) *Gnathodentex aurolineatus*



117) *Gymnocranius robinsoni*



118) *Lethrinus conchylatus*



119) *Lethrinus elongatus*



120) *Lethrinus harak*



121) *Lethrinus kallopterus*



122) *Lethrinus lentjan*



123) *Lethrinus mahsena* (198 mm SL)



124) *Lethrinus mahsena* (252 mm SL)



125) *Lethrinus mahsenoides*



126) *Lethrinus microdon*



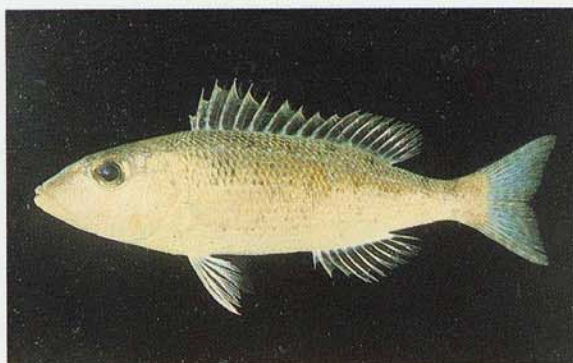
127) *Lethrinus nebulosus*



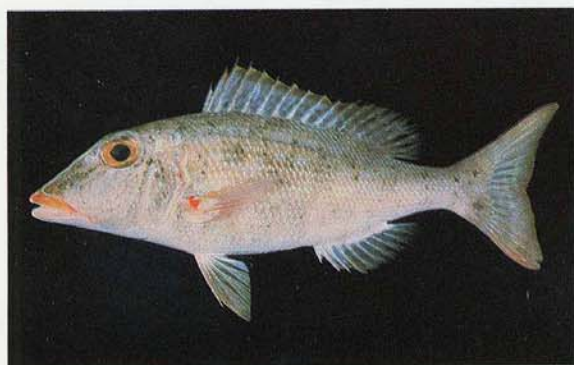
128) *Lethrinus ramak*



129) *Lethrinus rubrioperculatus*



130) *Lethrinus variegatus*



131) *Lethrinus xanthochilus*



132) *Monotaxis grandoculis*



133) *Acanthopagrus berda*



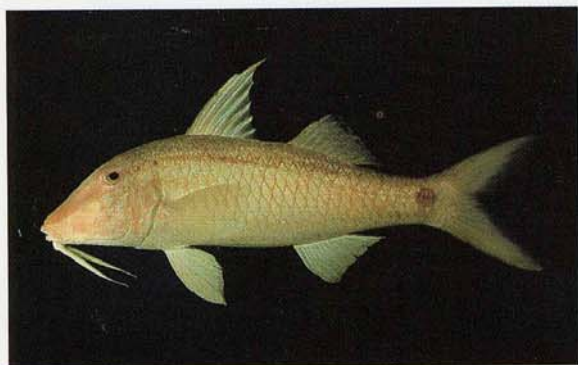
134) *Crenidens crenidens*



135) *Mulloides flavolineatus*



136) *Mulloides vanicolensis*



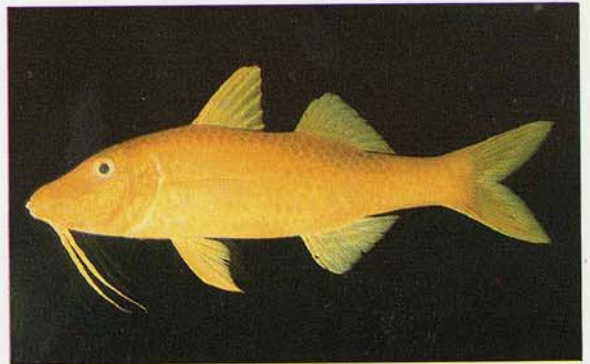
137) *Parupeneus barberinus*



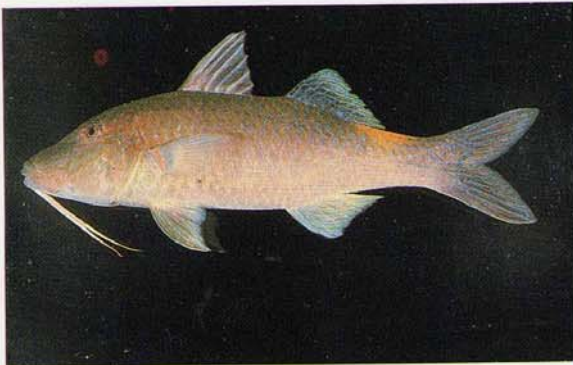
138) *Parupeneus bifasciatus*



139) *Parupeneus cinnabarinus*



140) *Parupeneus cyclostomus* (159 mm SL)



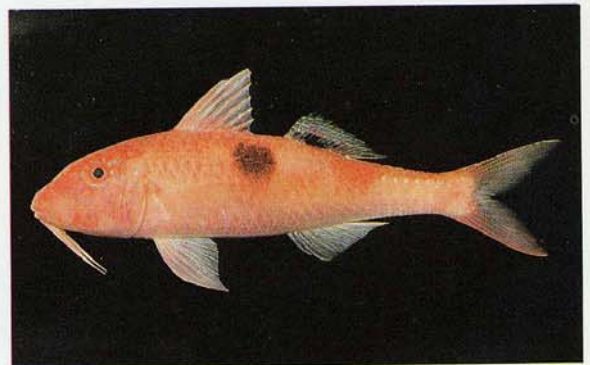
141) *Parupeneus cyclostomus* (222 mm SL)



142) *Parupeneus indicus*



143) *Parupeneus macronema*



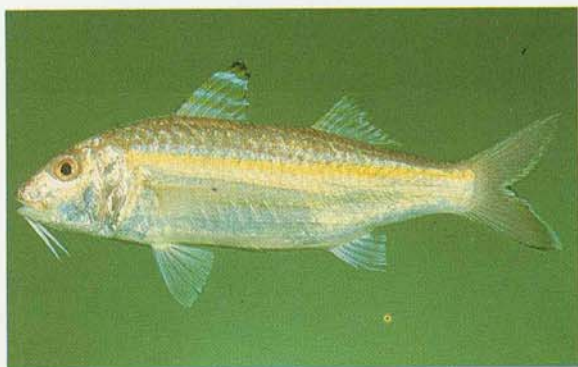
144) *Parupeneus pleurostigma*



145) *Upeneus bensasi*



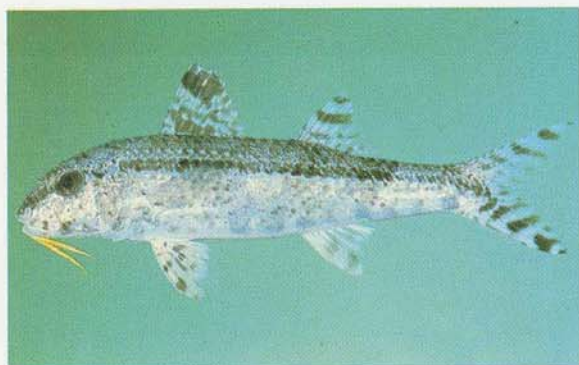
146) *Upeneus moluccensis*



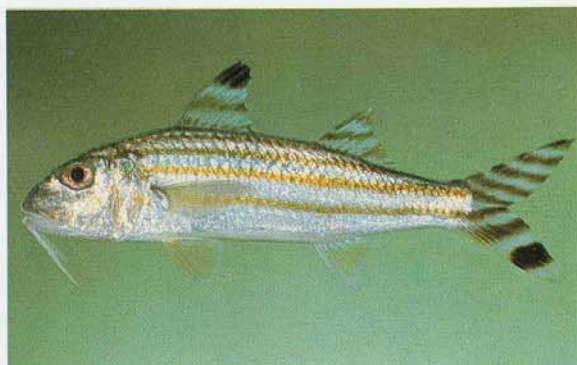
147) *Upeneus sulphureus*



148) *Upeneus taeniopterus*



149) *Upeneus tragula*



150) *Upeneus vittatus*



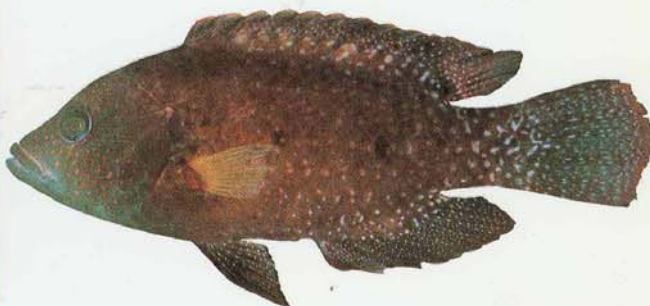
151) *Monodactylus argenteus*



152) *Polynemus sextarius*



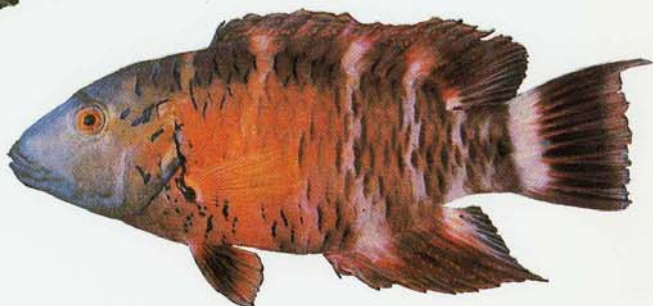
153) *Bodianus bilunulatus*



154) *Cheilinus chlorurus*



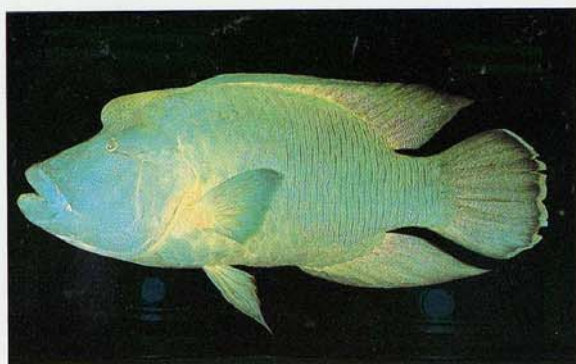
155) *Cheilinus diagrammus*



156) *Cheilinus fasciatus*



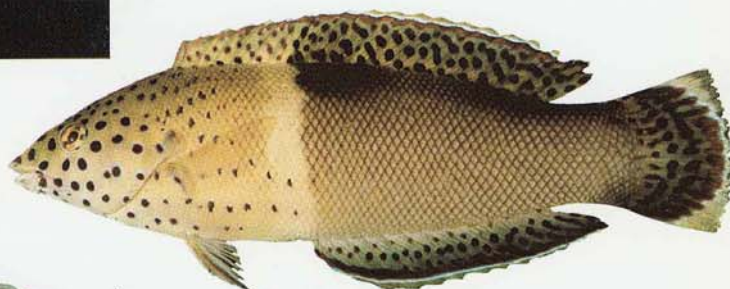
157) *Cheilinus trilobatus*



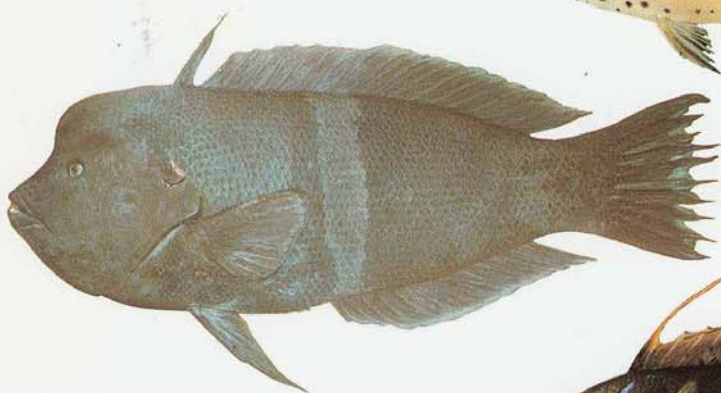
158) *Cheilinus undulatus*



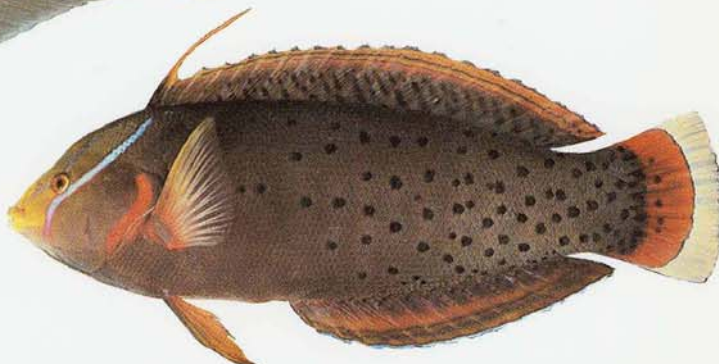
159) *Cheilio inermis*



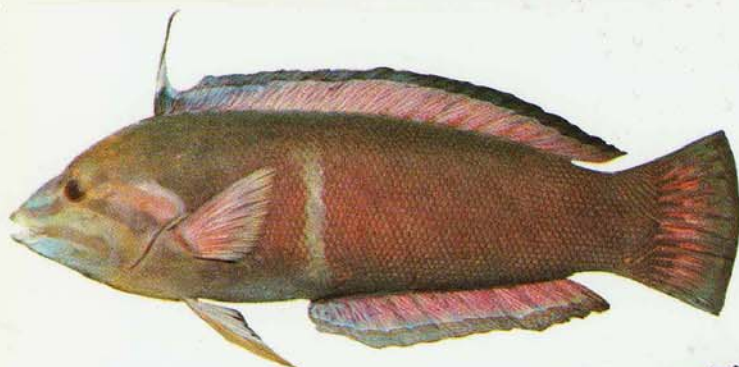
160) *Coris aygula* (115 mm SL)



161) *Coris aygula* (465 mm SL)



162) *Coris formosa*



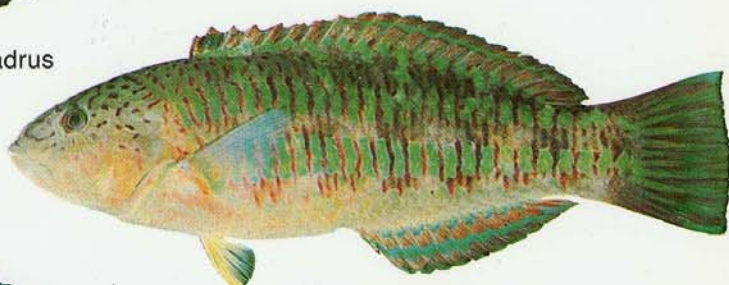
163) *Coris gaimard africana*



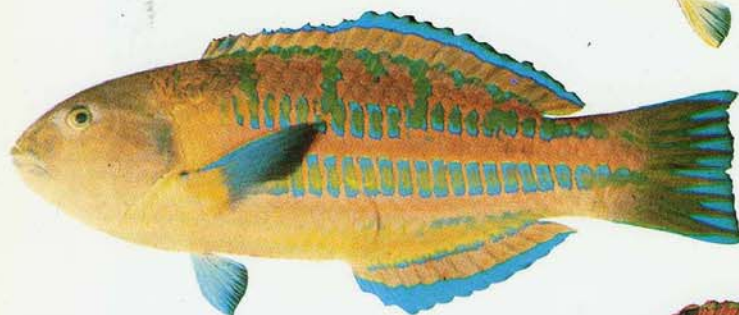
164) *Gomphosus coeruleus*



165) *Halichoeres hortulanus centiquadrus*



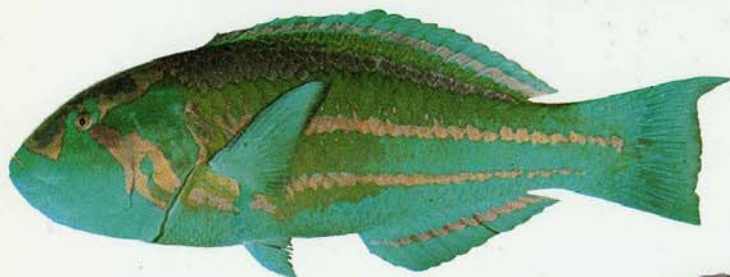
166) *Thalassoma fuscum*, initial phase
(153 mm SL)



167) *Thalassoma fuscum*, terminal phase
(162 mm SL)



168) *Thalassoma purpureum*, female (150 mm SL)



169) *Thalassoma purpurum*, male
(310 mm SL)



170) *Bolbometopon muricatum*



171) *Calotomus carolinus*, initial phase female
(235 mm SL)



172) *Calotomus carolinus*, terminal phase male
(318 mm SL)



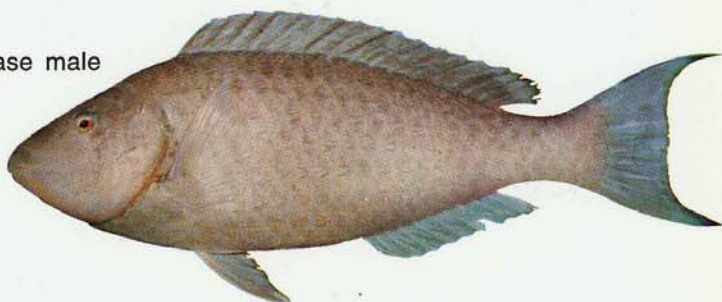
173) *Cetoscarus bicolor*, juvenile
(123 mm SL)



174) *Cetoscarus bicolor*, initial phase female,
(348 mm SL)



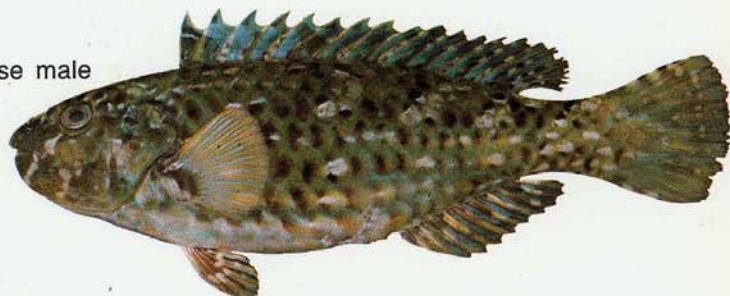
175) *Cetoscarus bicolor*, terminal phase male
(365 mm SL)



176) *Hipposcarus harid*, initial phase female
(328 mm SL)



177) *Hipposcarus harid*, terminal phase male
(335 mm SL)



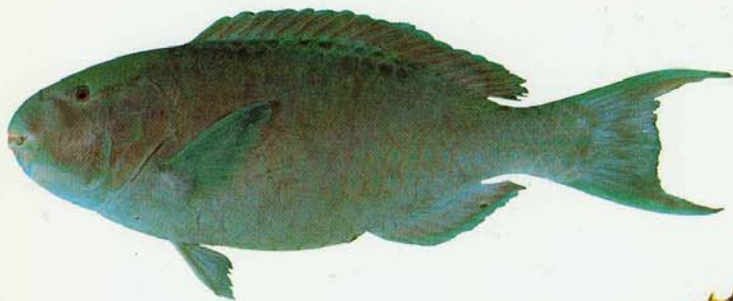
178) *Leptoscarus vaigiensis*, initial phase
female (159 mm SL)



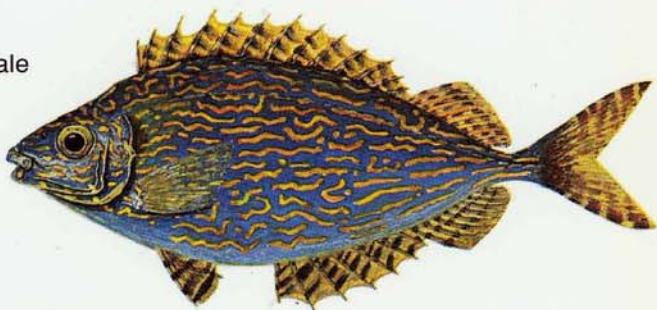
179) *Leptoscarus vaigiensis*, terminal phase male
(179 mm SL)



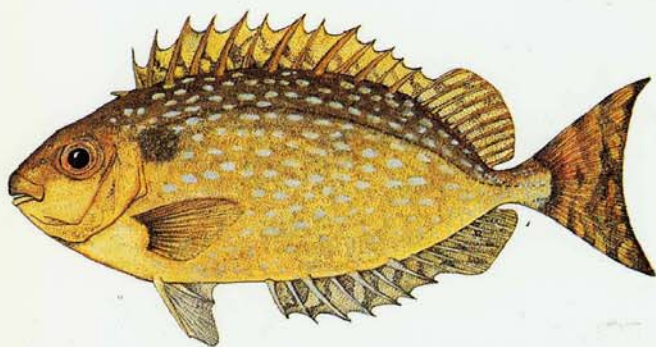
180) *Scarus ghobban*, initial phase female
(228 mm SL)



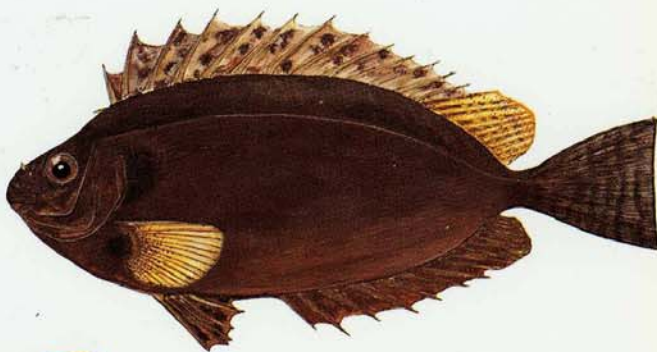
181) *Scarus ghobban*, terminal phase male
(450 mm SL)



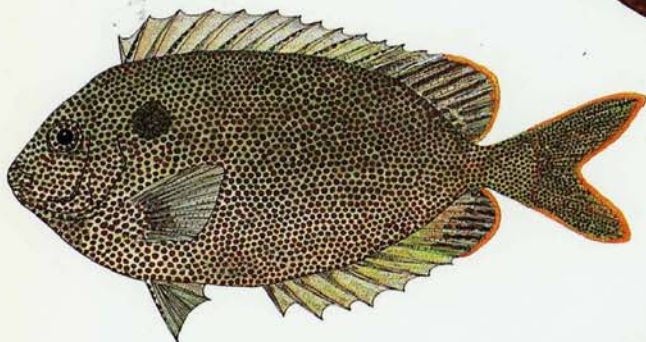
182) *Siganus argenteus*



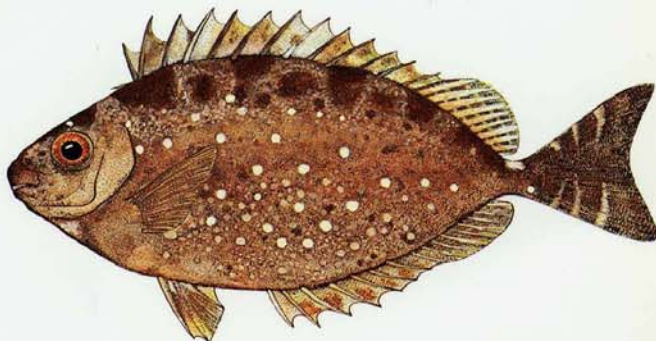
183) *Siganus canaliculatus*



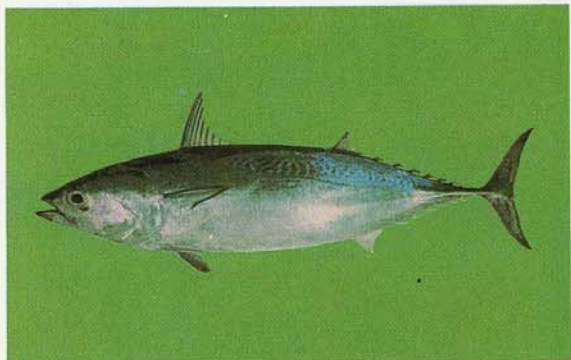
184) *Siganus luridus*



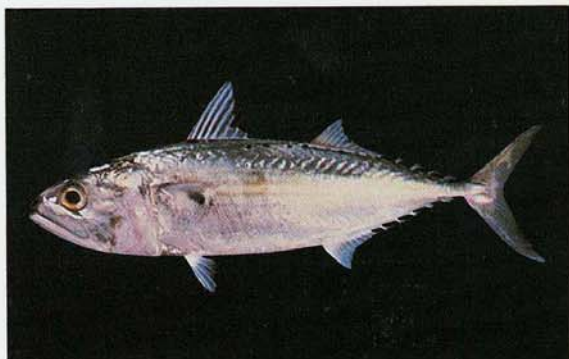
185) *Siganus stellatus*



186) *Siganus sutor*



187) *Auxis thazard*



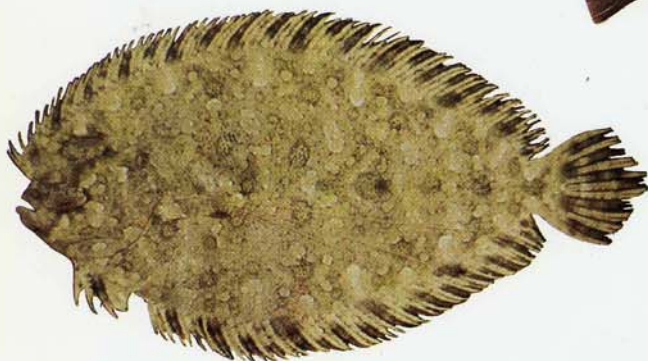
188) *Rastrelliger kanagurta*



189) *Scomberomorus commerson*



190) *Psettodes erumei*



191) *Bothus pantherinus*



192) *Abalistes stellatus*

