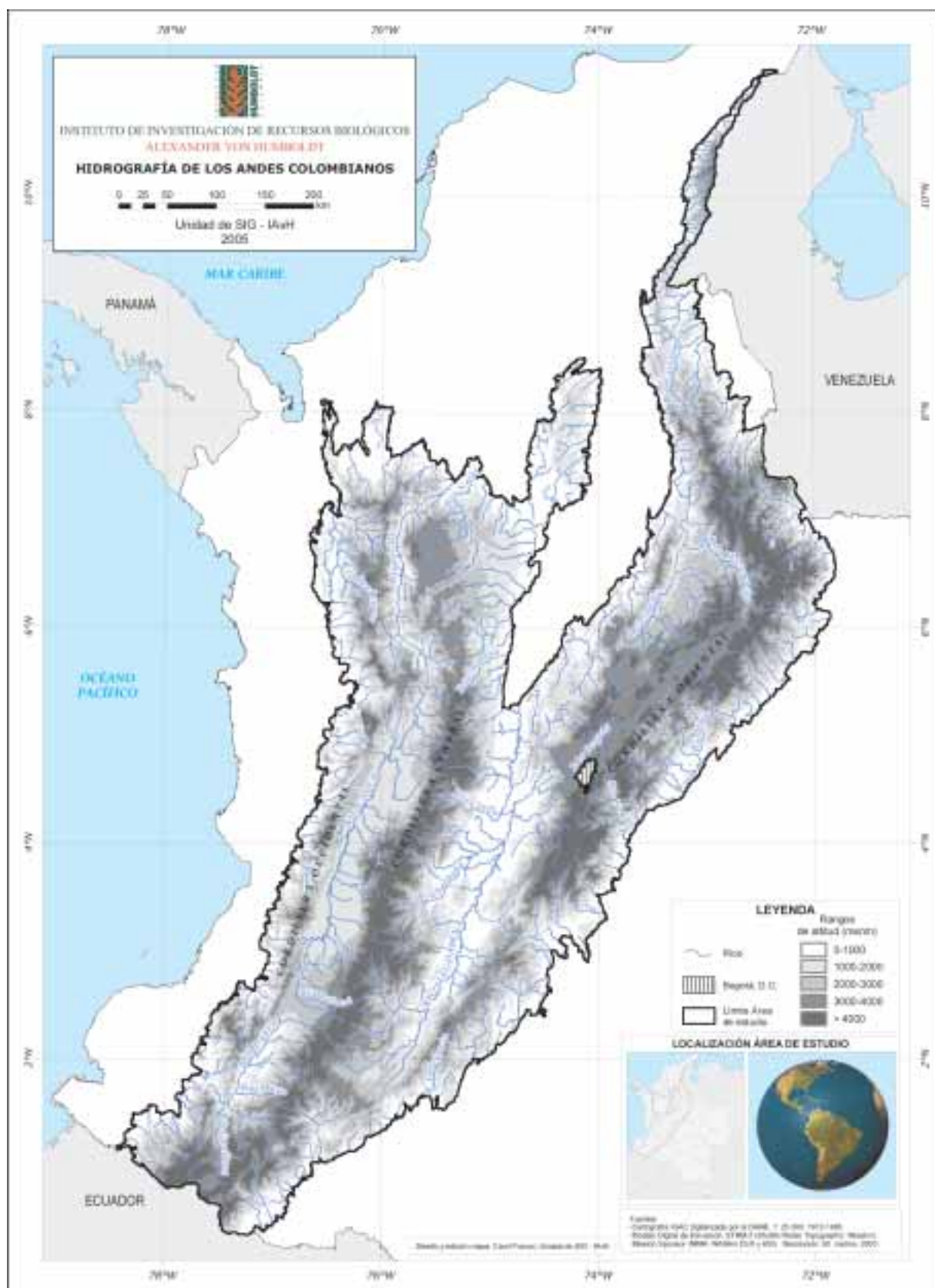


Anexo I Mapa de los Andes colombianos



Anexo II Lista de peces de los Andes de Colombia

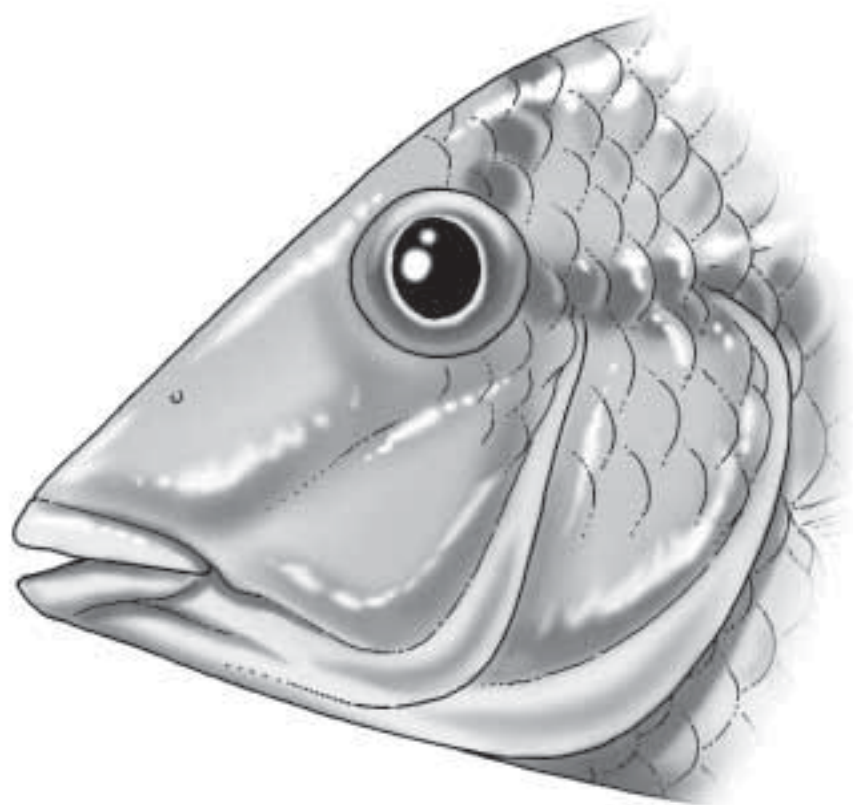
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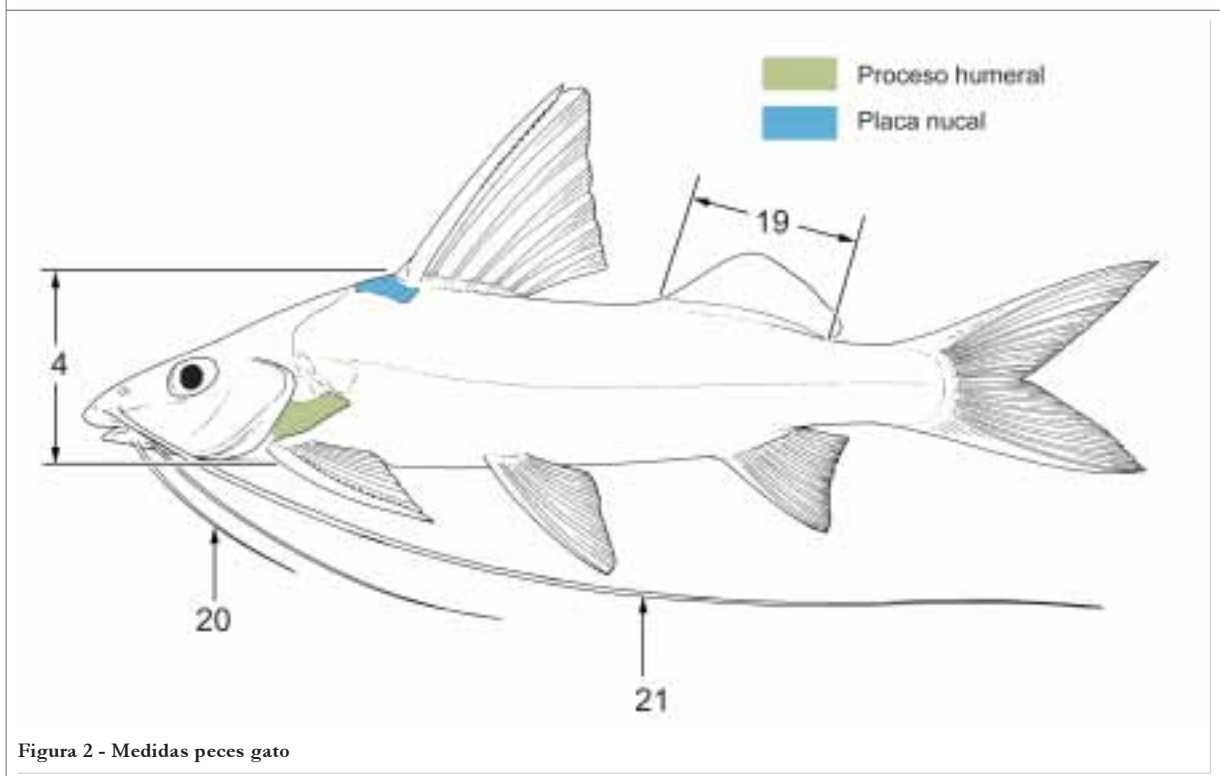
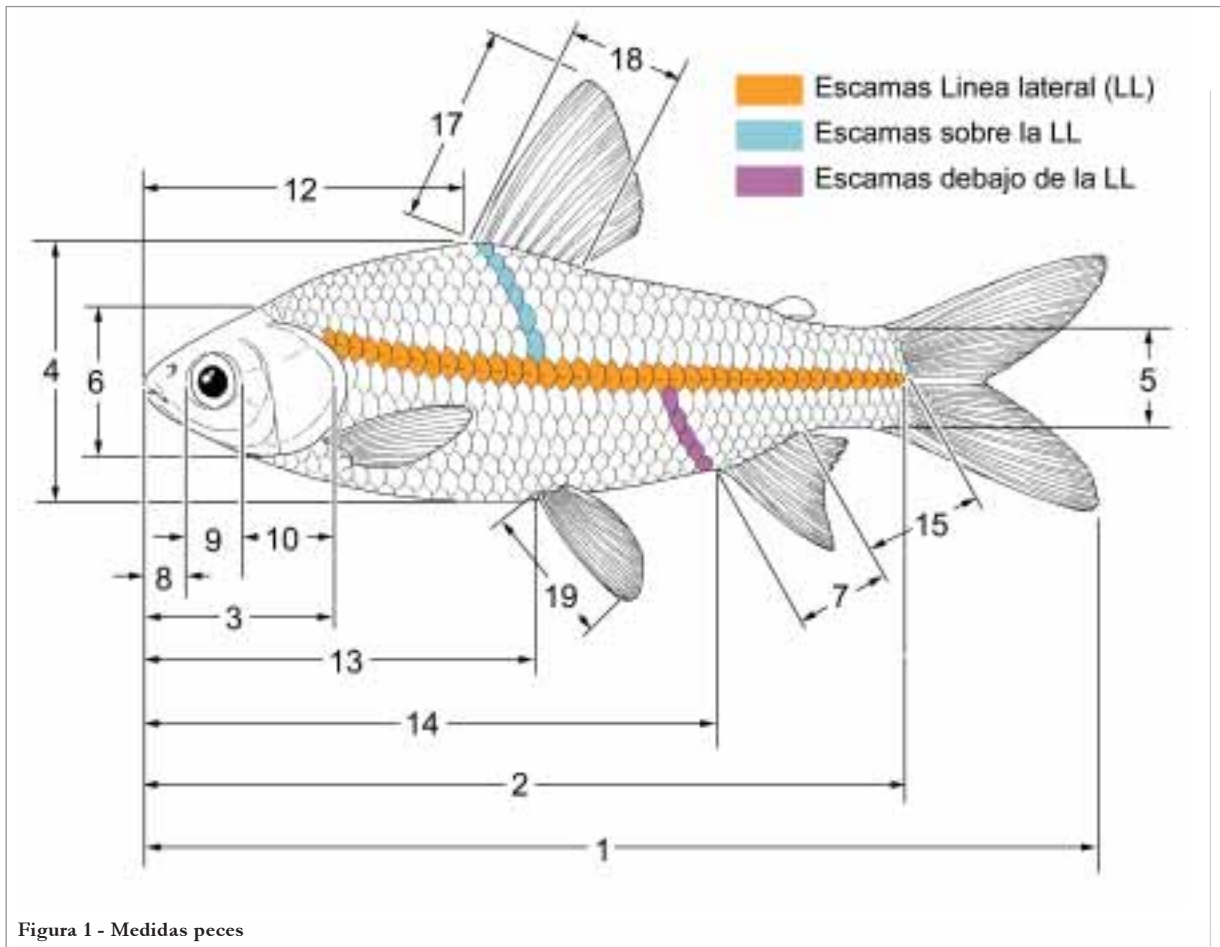
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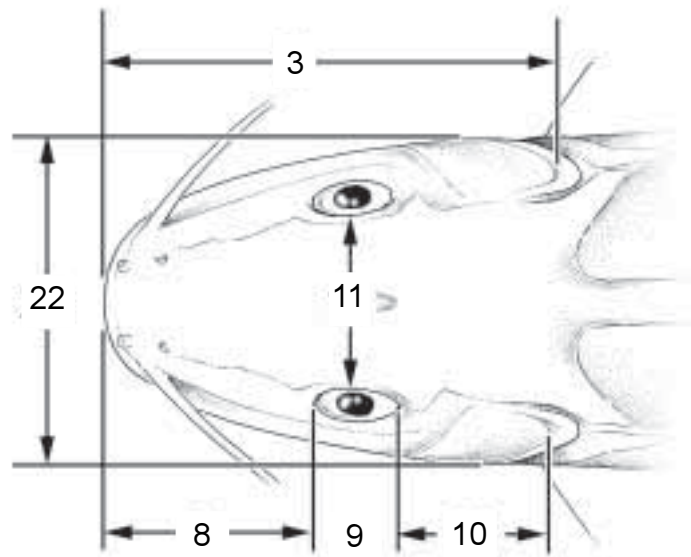
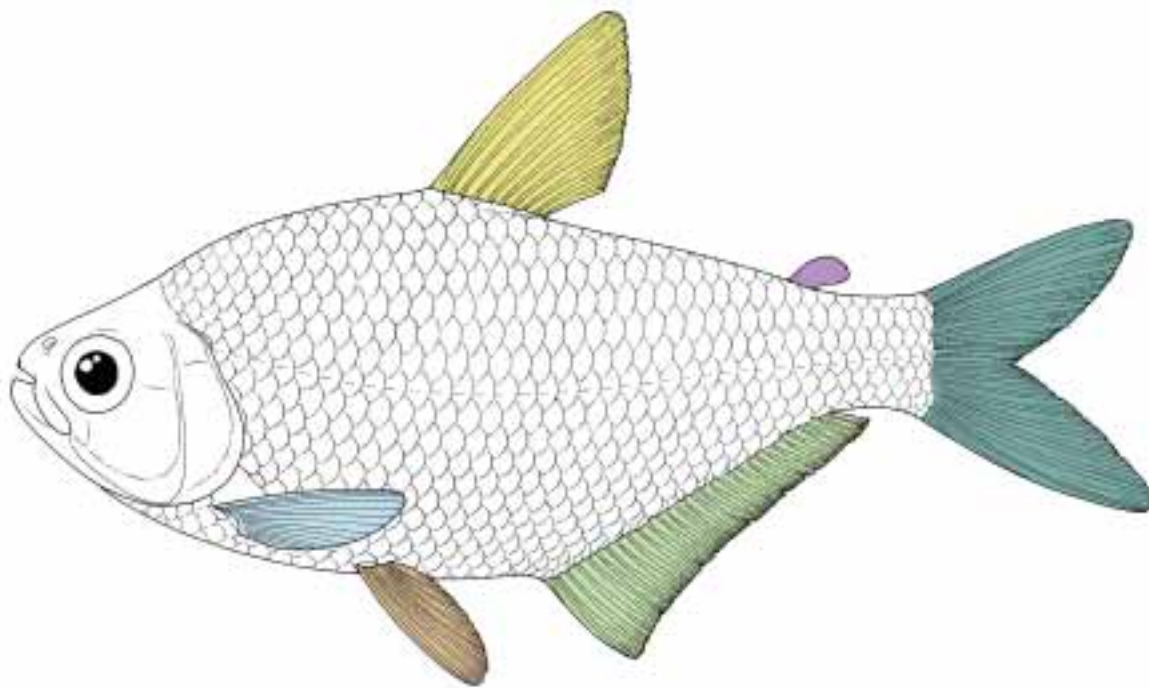


Figura 3 - Medidas cabeza



- | | | | |
|---|----------------------|---|--------------------------|
|  | Aleta dorsal |  | Aleta anal |
|  | Aleta adiposa |  | Aletas ventrales |
|  | Aleta caudal |  | Aletas pectorales |

Figura 4 - Aletas

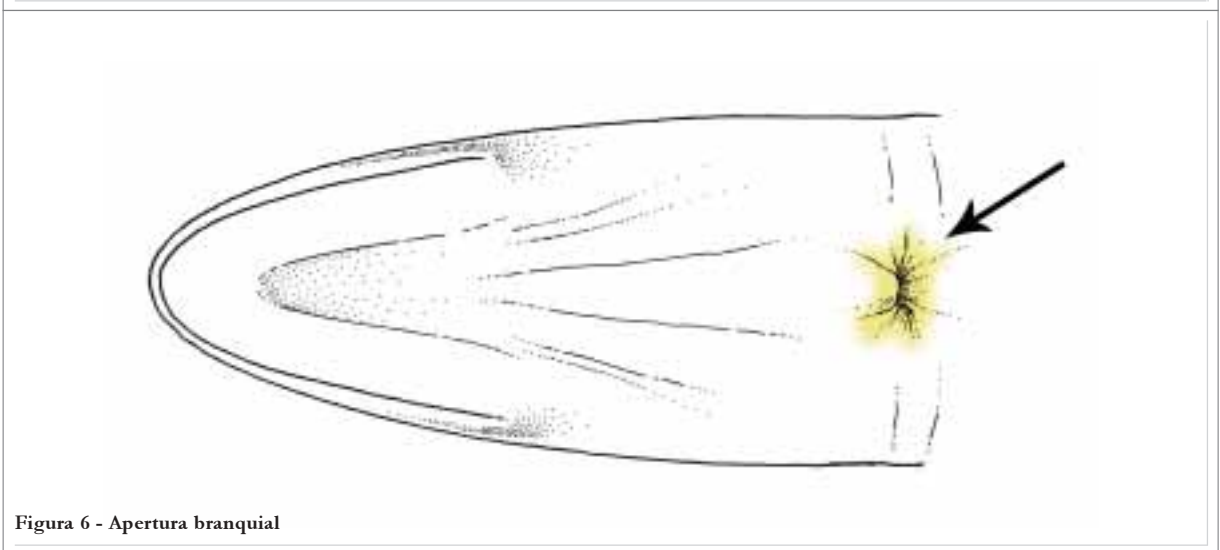
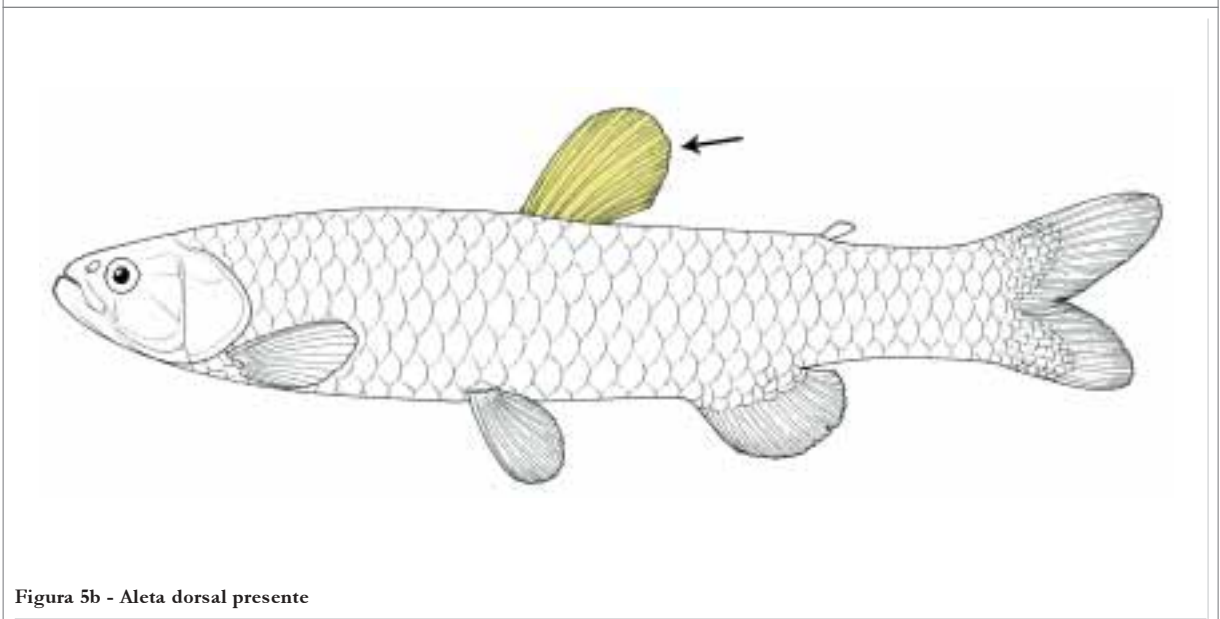
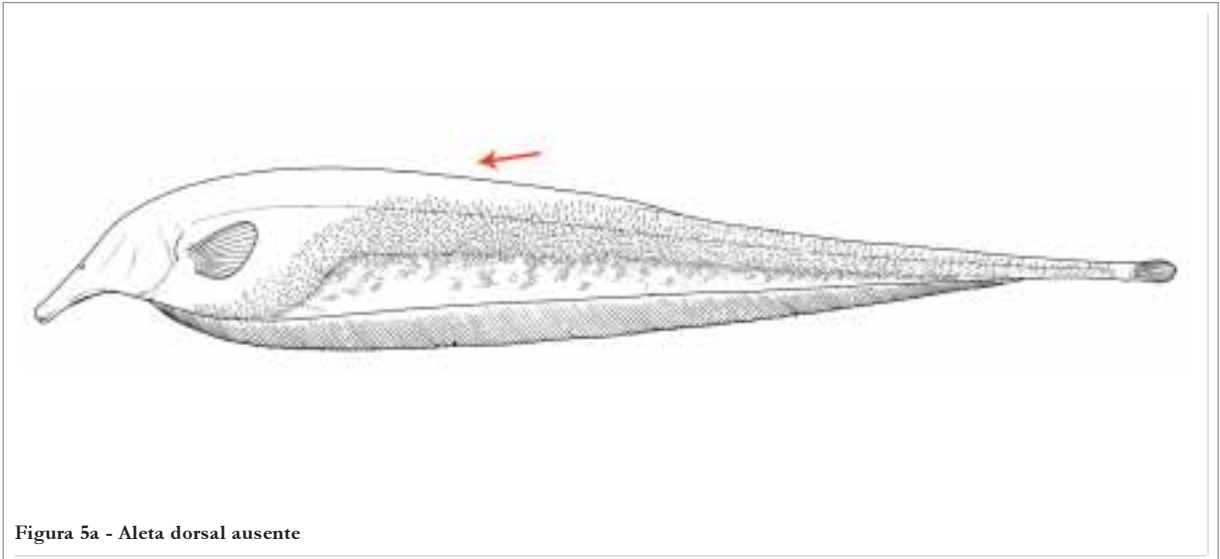




Figura 7 - Cinco aperturas branquiales

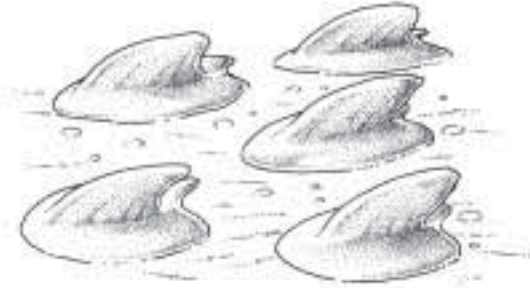


Figura 8a - Escamas placoideas



Figura 8b - Escamas ctenoideas



Figura 8c - Escamas cicloideas

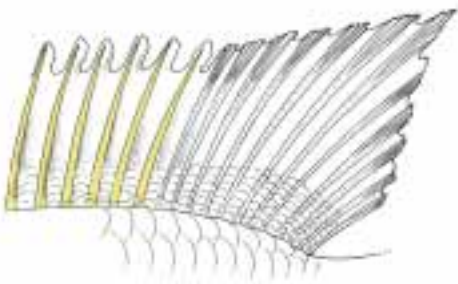


Figura 9a - Aleta dorsal con espinas

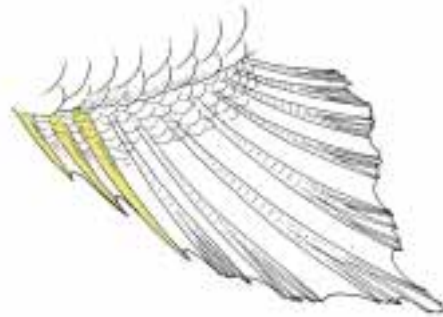


Figura 9b - Aleta anal con espinas

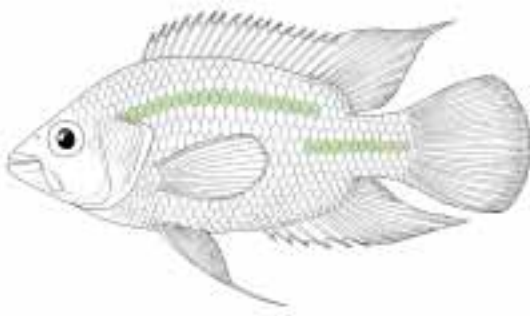


Figura 10a - Línea lateral interrumpida

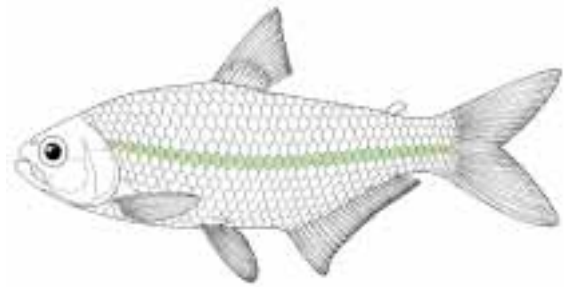


Figura 10b - Línea lateral completa



Figura 10c - Línea lateral incompleta

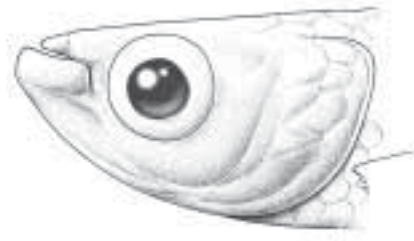


Figura 11a - Boca superior



Figura 11b - Boca terminal



Figura 12 - Aleta anal modificada en gonopodio

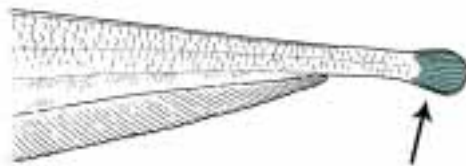


Figura 13a - Aleta caudal presente



Figura 13b - Aleta caudal ausente

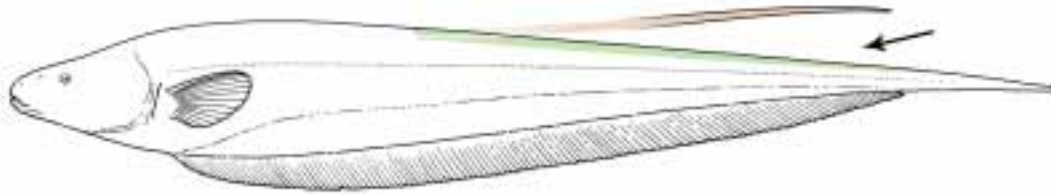


Figura 14 - Filamento dorsal

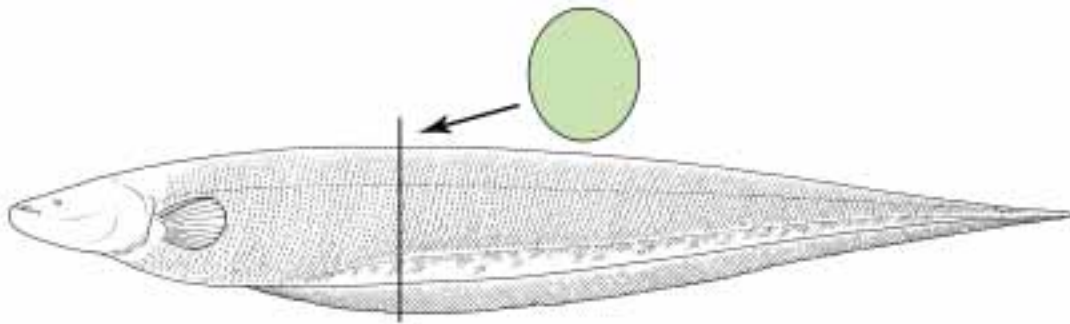


Figura 15 - Cuerpo cilíndrico



Figura 16a - Borde orbital cubierto

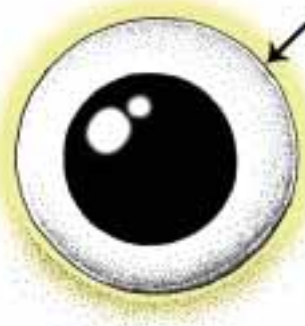


Figura 16b - Borde orbital libre



Figura 17a - Barbicelos mentonianos ausentes



Figura 17b - Barbicelos mentonianos presentes



Figura 18a - Placas en más de dos hileras

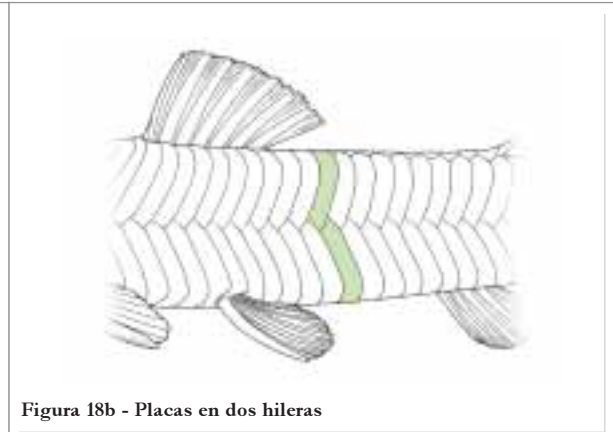


Figura 18b - Placas en dos hileras

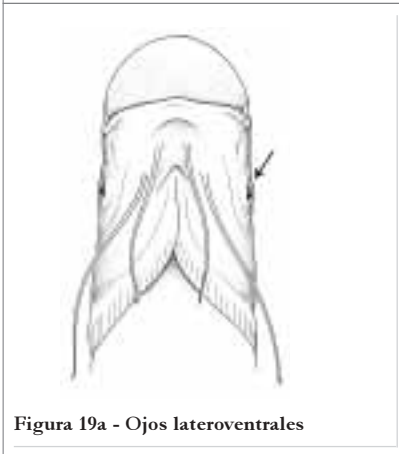


Figura 19a - Ojos lateroventrales

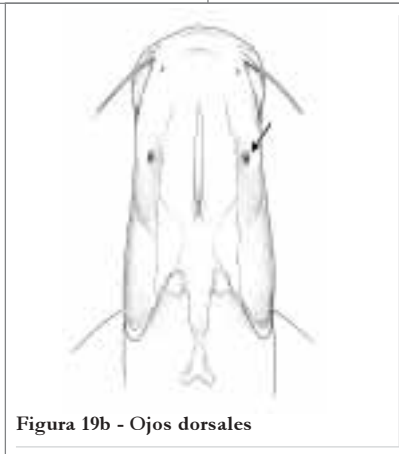


Figura 19b - Ojos dorsales

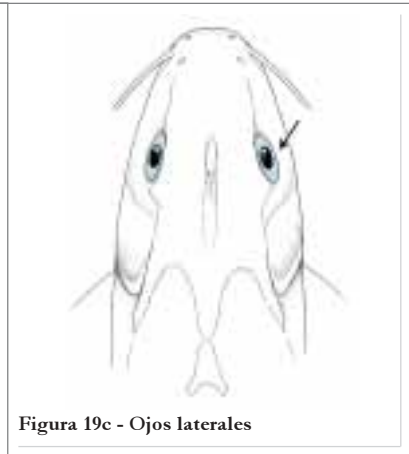


Figura 19c - Ojos laterales

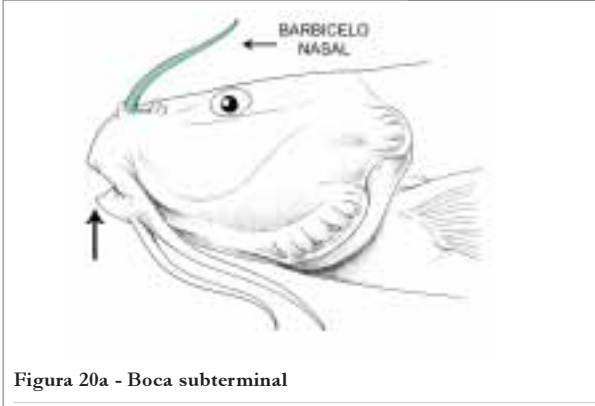


Figura 20a - Boca subterminal

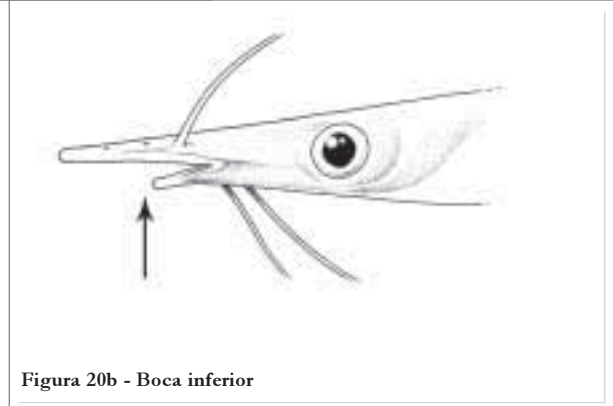


Figura 20b - Boca inferior



Figura 20c - Boca inferior ventosa

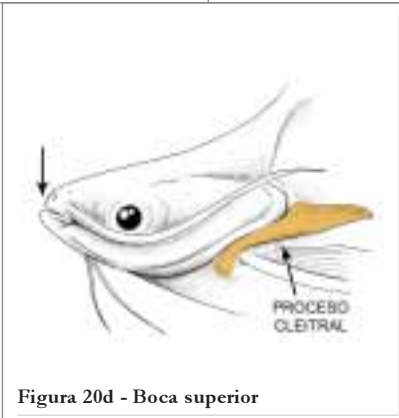


Figura 20d - Boca superior

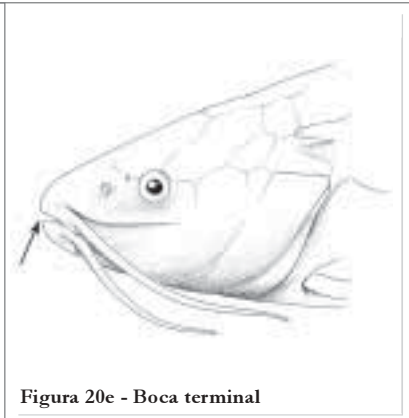


Figura 20e - Boca terminal

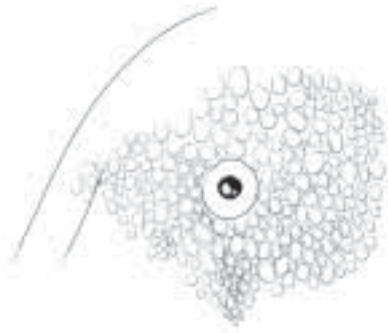


Figura 21 - Piel queratinizada

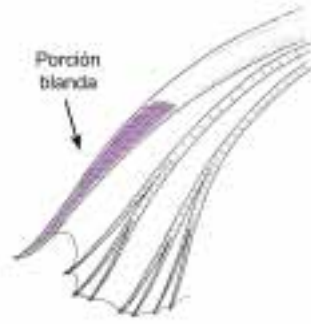


Figura 22a - Primer radio blando

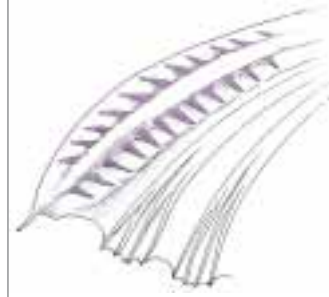
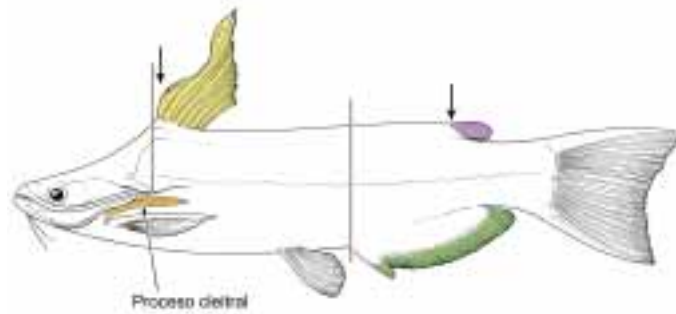
Figura 22b - Primer radio aserrado
ambos ladosFigura 22c - Primer radio aserrado
posteriormente

Figura 23a - Origen de la dorsal sobre el proceso cleitral

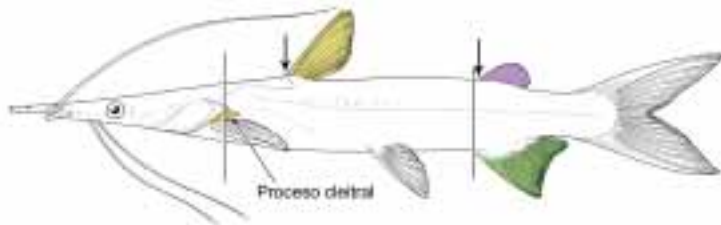


Figura 23b - Origen de la dorsal posterior al cleitro

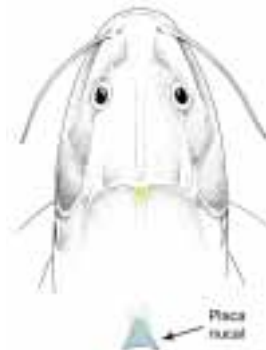
Figura 24a - Supraoccipital no en contacto
con nugalFigura 24b - Supraoccipital en contacto
con nugal

Figura 25a - Fontanela dividida



Figura 25b - Una sola fontanela

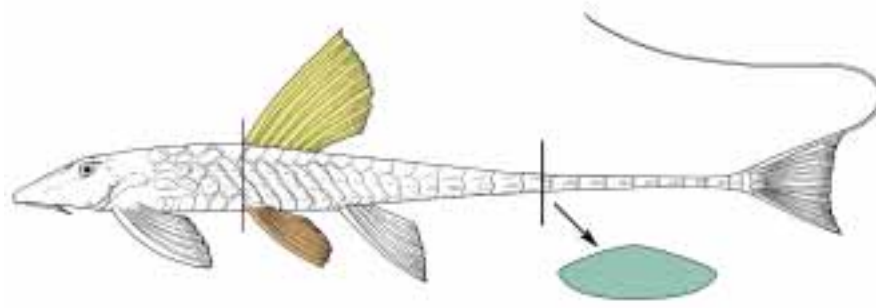


Figura 26a - Pedúnculo caudal deprimido

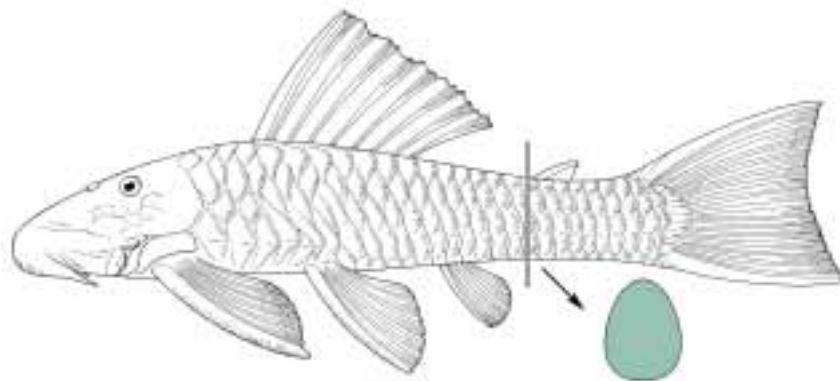


Figura 26b - Pedúnculo caudal comprimido



Figura 26c - Aleta dorsal sobre anal

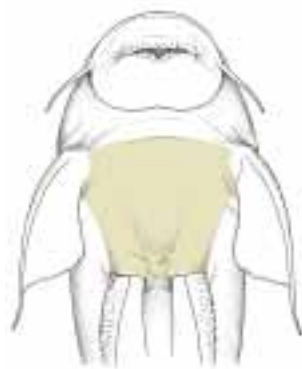


Figura 27a - Abdómen desnudo



Figura 27b - Abdómen parcialmente cubierto

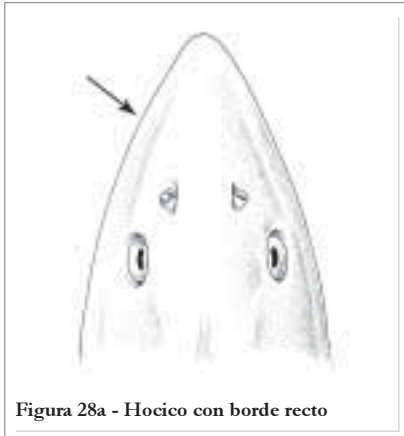


Figura 28a - Hocico con borde recto

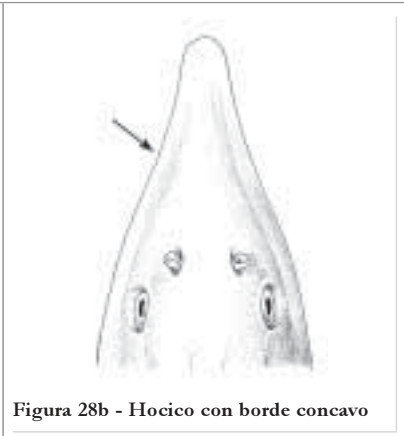


Figura 28b - Hocico con borde concavo

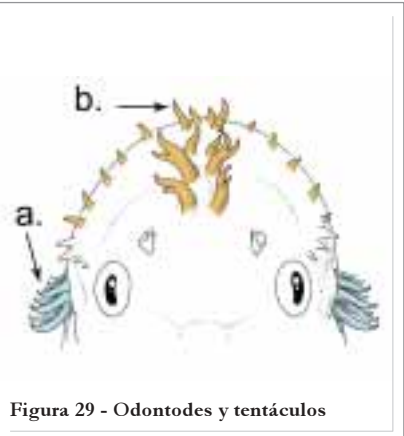


Figura 29 - Odontodes y tentáculos

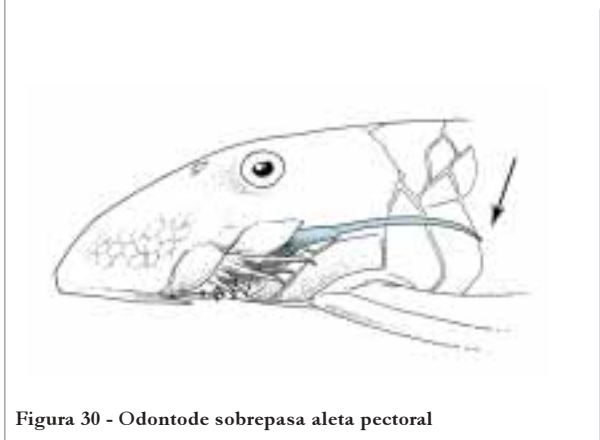


Figura 30 - Odontode sobrepasa aleta pectoral

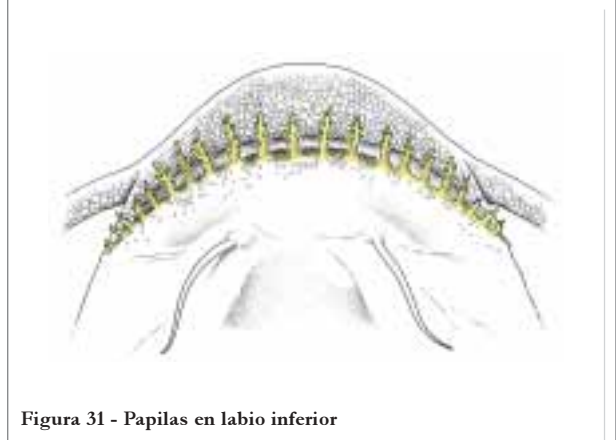


Figura 31 - Papilas en labio inferior

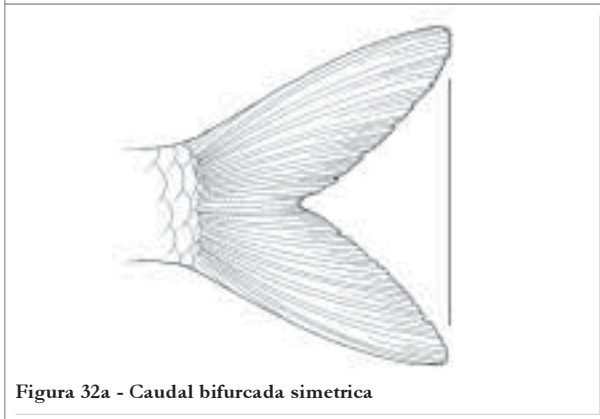


Figura 32a - Caudal bifurcada simetrica

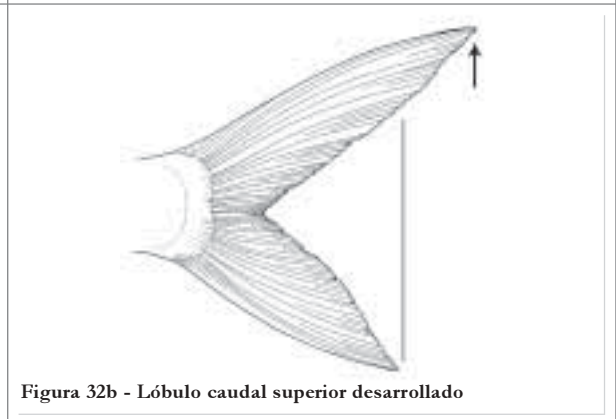


Figura 32b - Lóbulo caudal superior desarrollado



Figura 32c - Lóbulo caudal inferior desarrollado

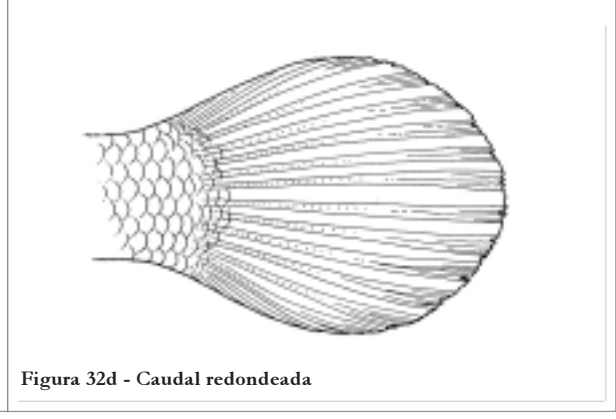
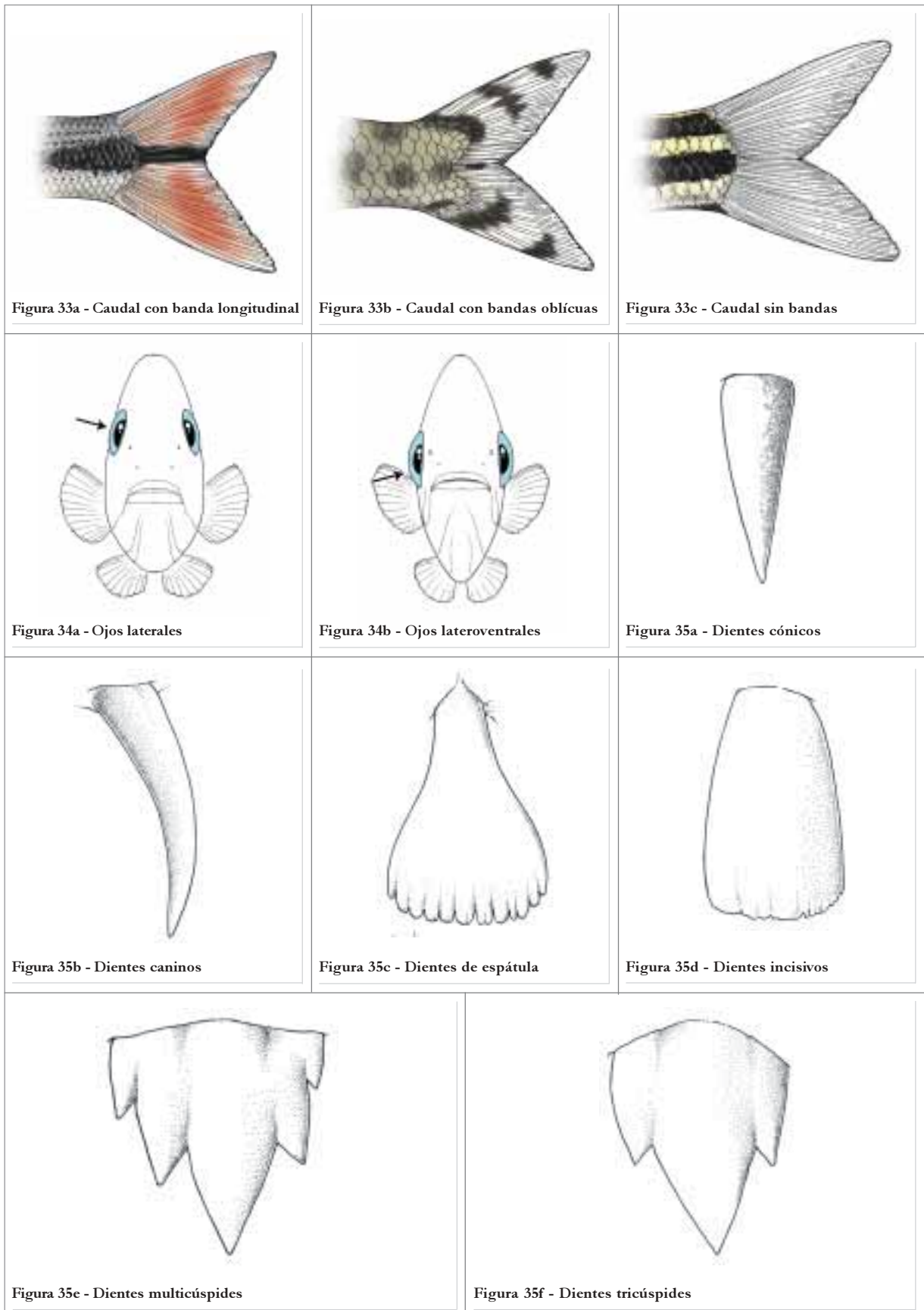


Figura 32d - Caudal redondeada



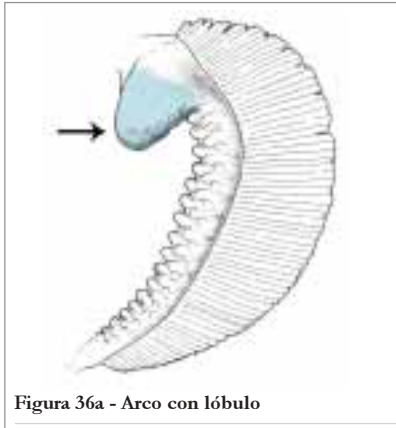


Figura 36a - Arco con lóbulo

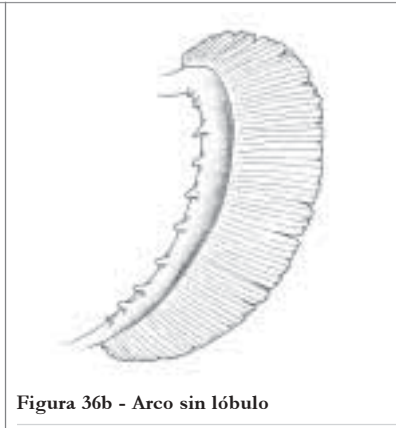


Figura 36b - Arco sin lóbulo

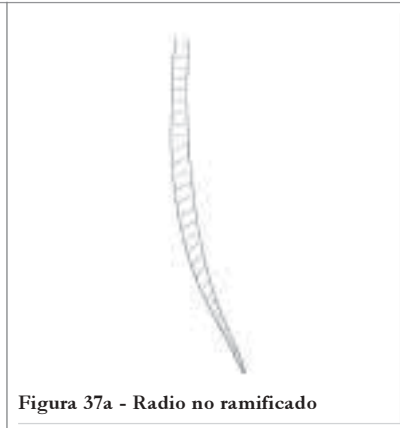


Figura 37a - Radio no ramificado

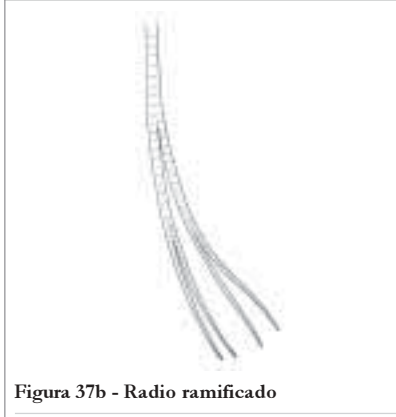


Figura 37b - Radio ramificado

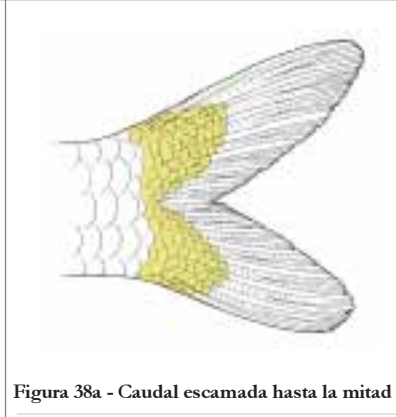


Figura 38a - Caudal escamada hasta la mitad

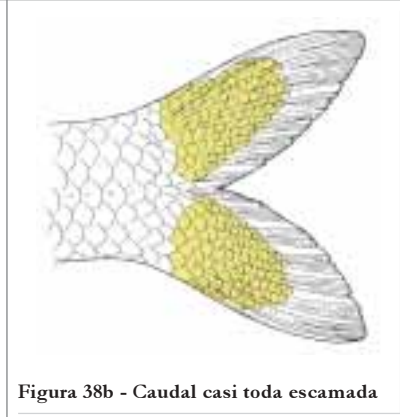


Figura 38b - Caudal casi toda escamada

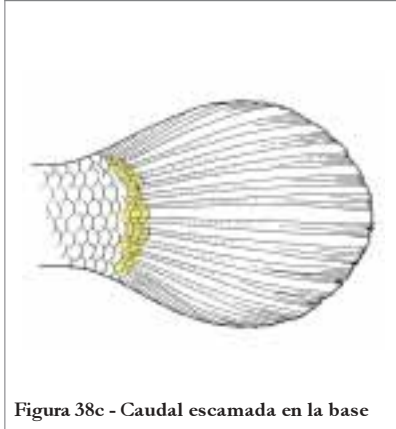


Figura 38c - Caudal escamada en la base

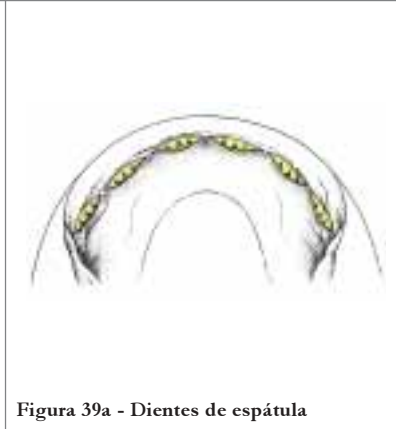


Figura 39a - Dientes de espátula

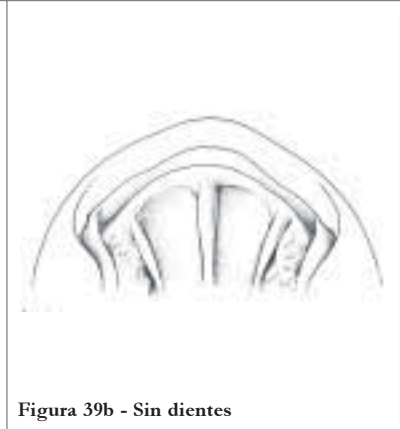


Figura 39b - Sin dientes

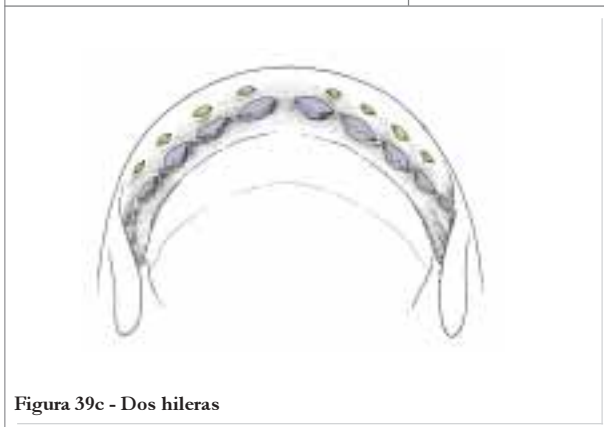


Figura 39c - Dos hileras

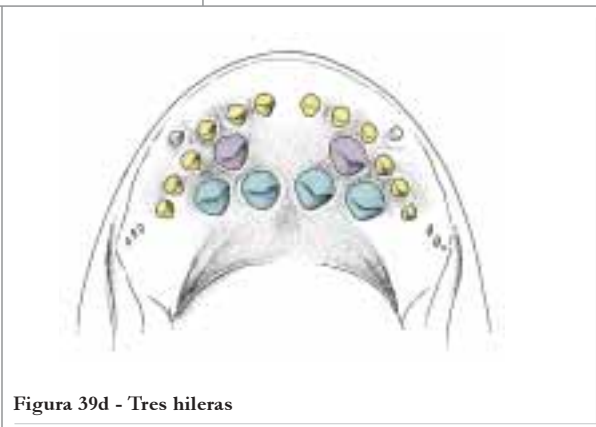
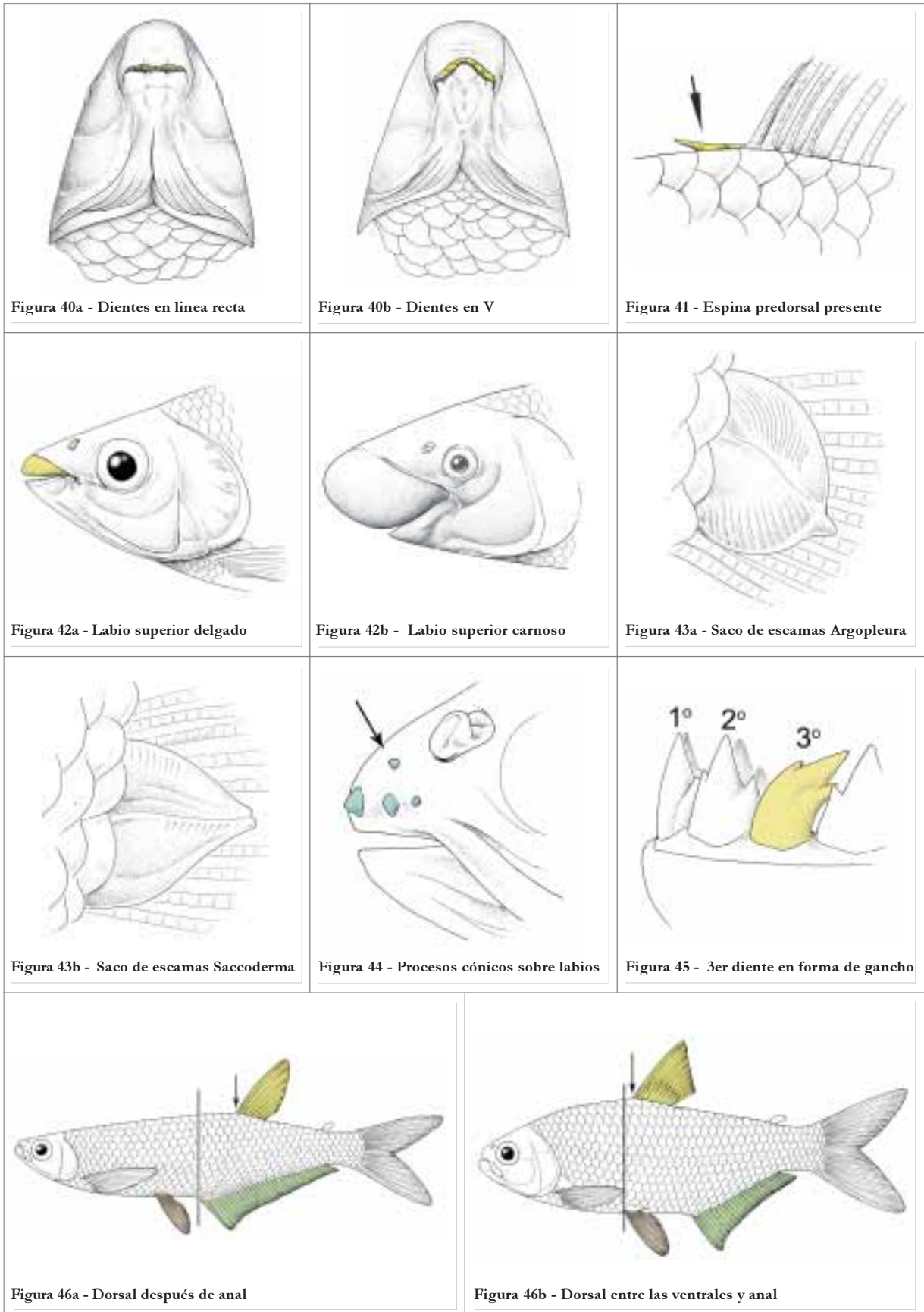


Figura 39d - Tres hileras



LÁMINAS DE ESPECIES

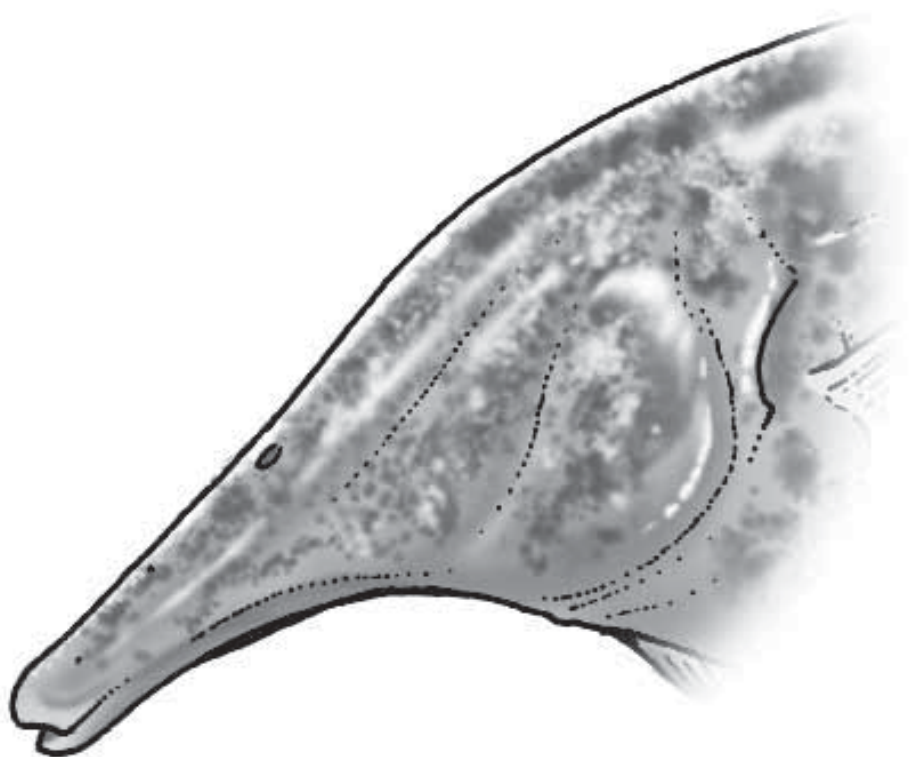


Figura - 47

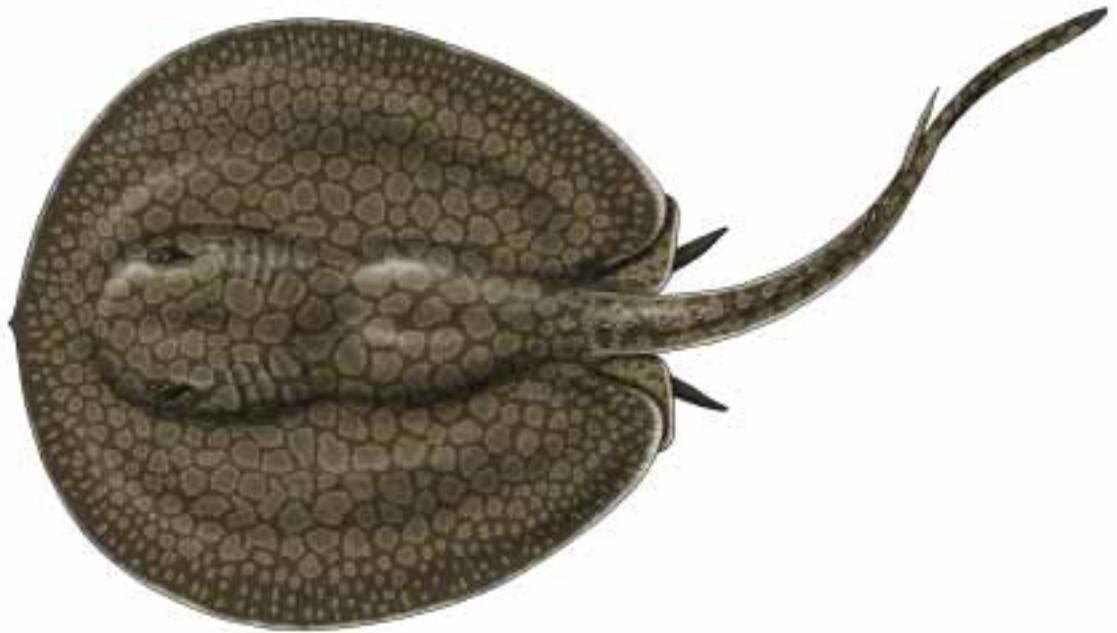
Potamotrygon magdalenae

Figura - 48

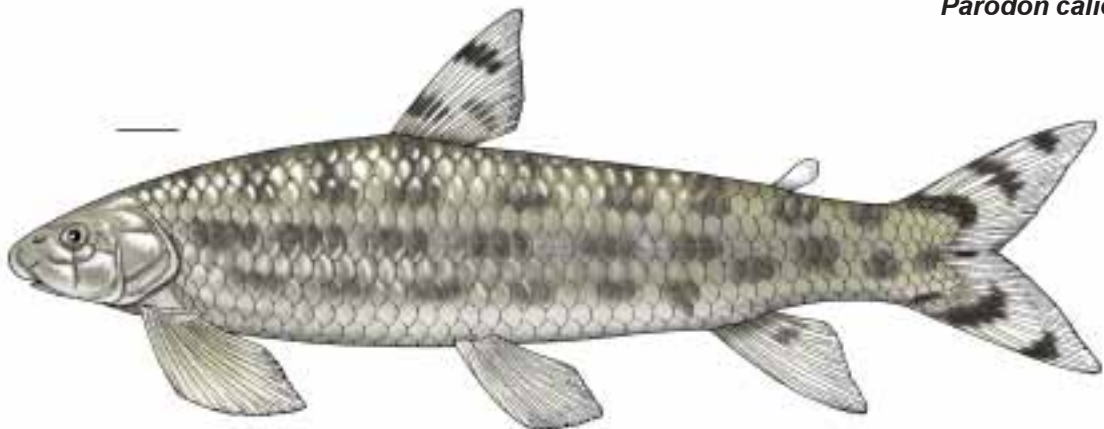
Parodon caliensis

Figura - 49

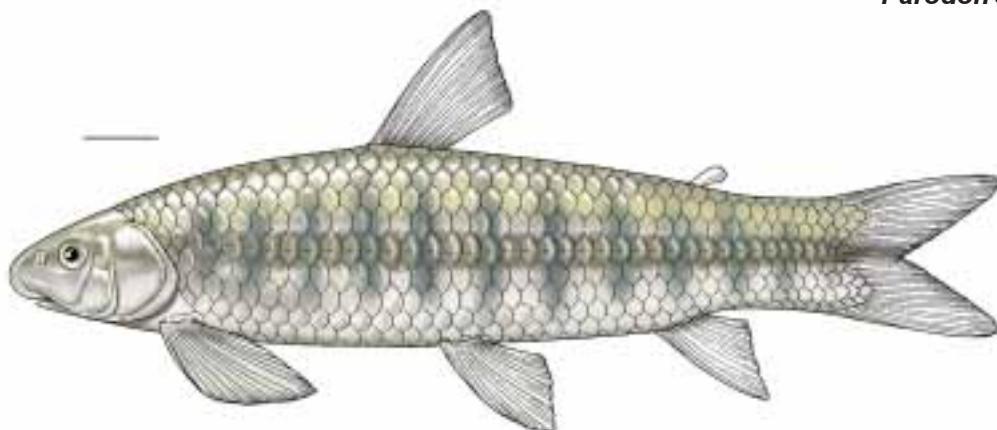
Parodon suborbitalis

Figura - 50

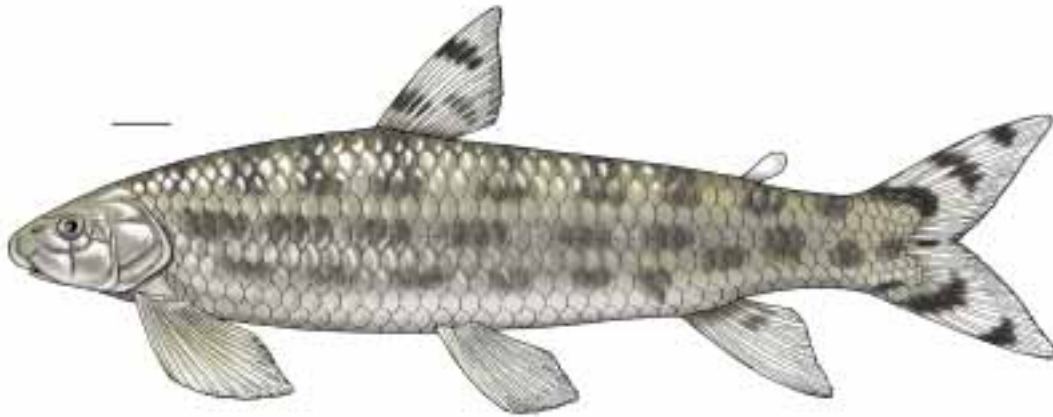
Saccodon dariensis

Figura - 51

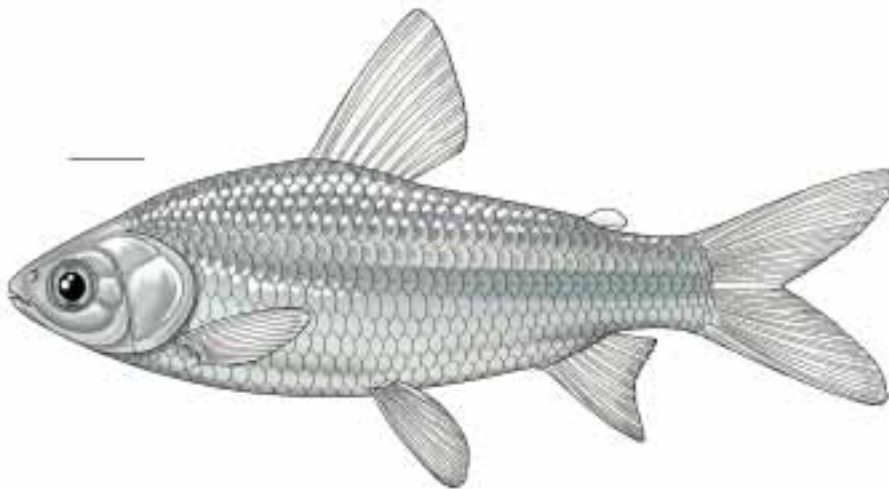
Cyphocharax magdalenae

Figura - 52

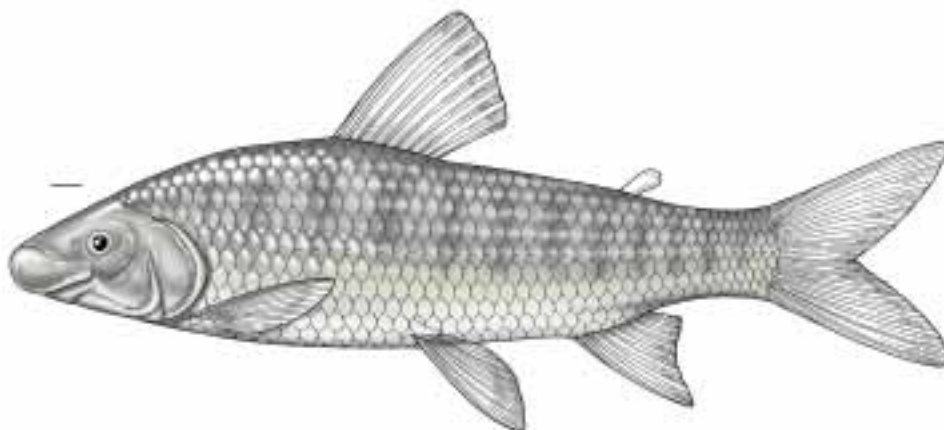
Ichthyoelephas longirostris

Figura - 53

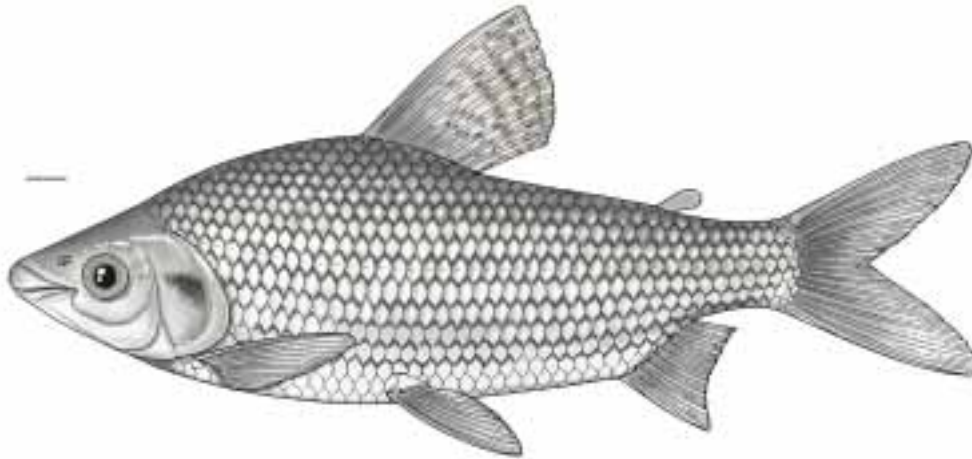
Prochilodus magdalenae

Figura - 54

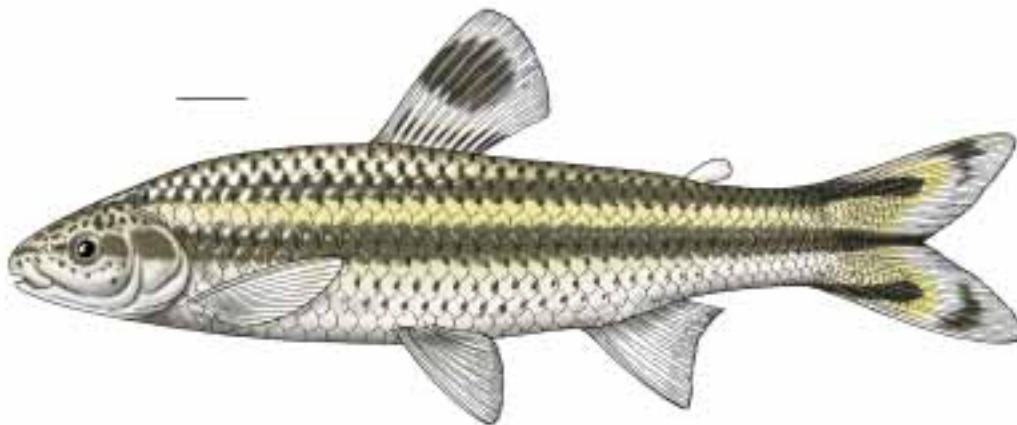
Leporellus vittatus

Figura - 55

Leporinus striatus

Figura - 56

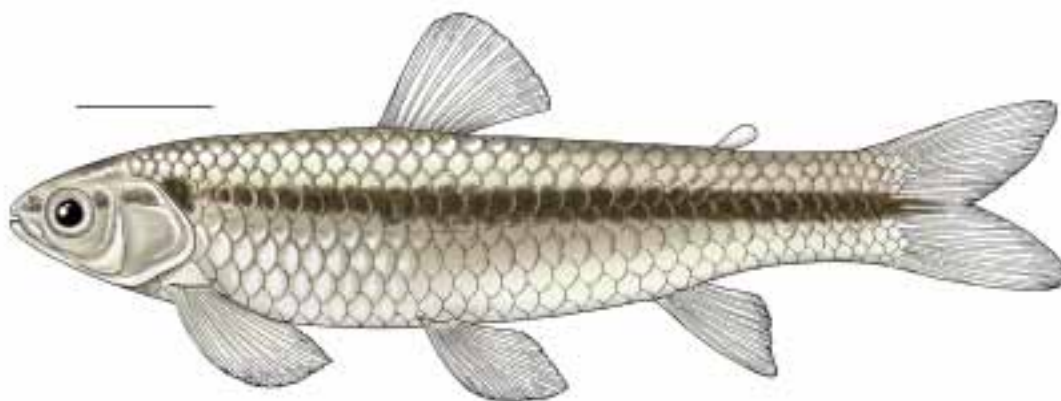
Characidium caucanum

Figura - 57

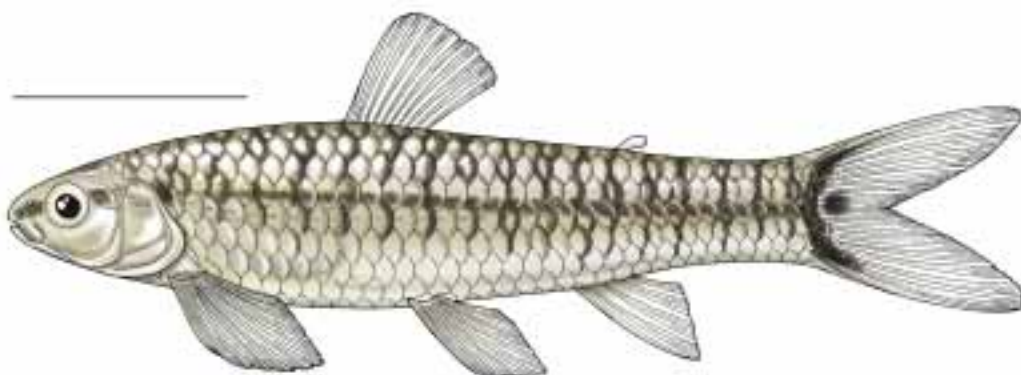
Characidium fasciatum

Figura - 58

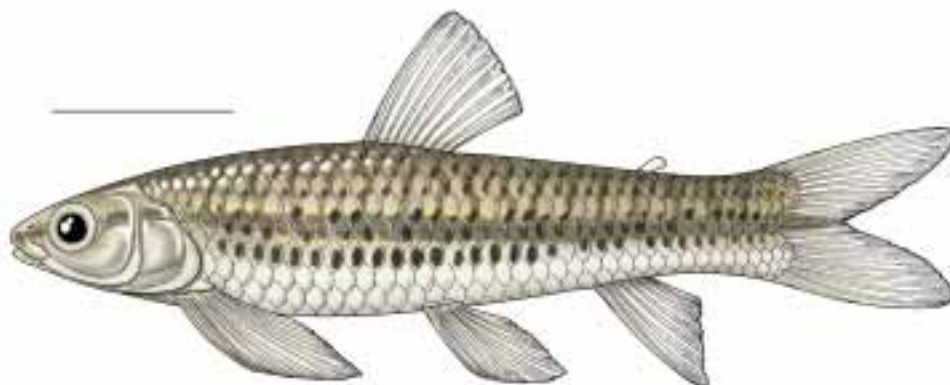
Characidium phoxocephalum

Figura - 59

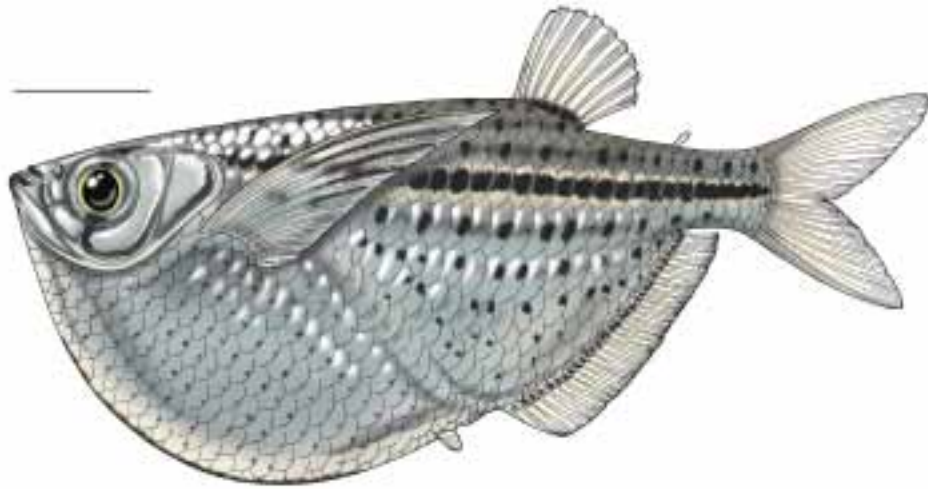
Gasteropelecus maculatus

Figura - 60

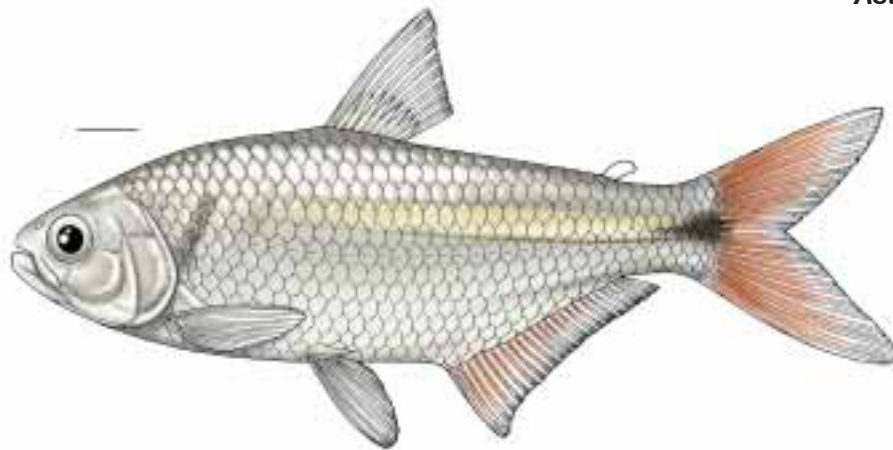
Astyanax fasciatus

Figura - 61

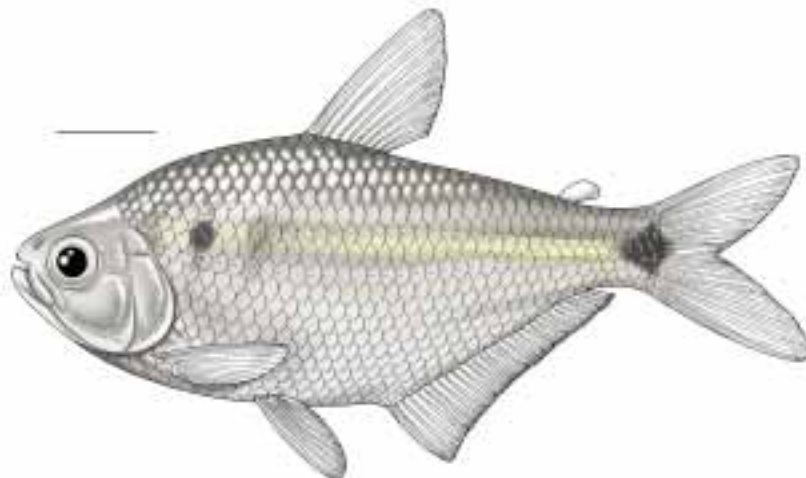
Astyanax magdalenae

Figura - 62

Astyanax microlepis

Figura - 63

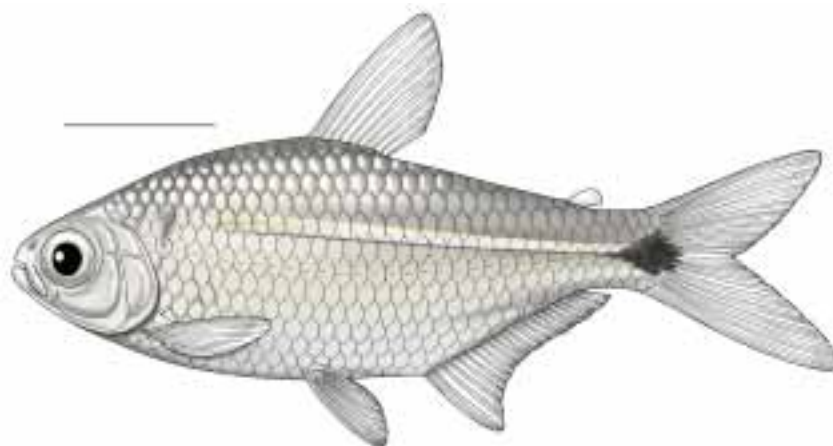
Astyanax ruberrimus

Figura - 64

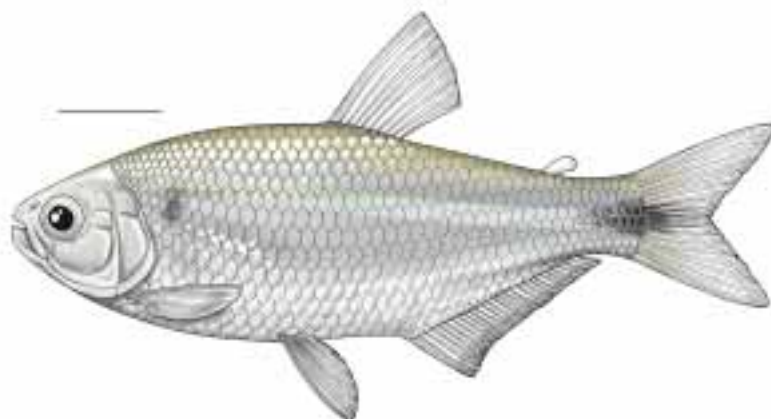
Bryconamericus caucanus

Figura - 65

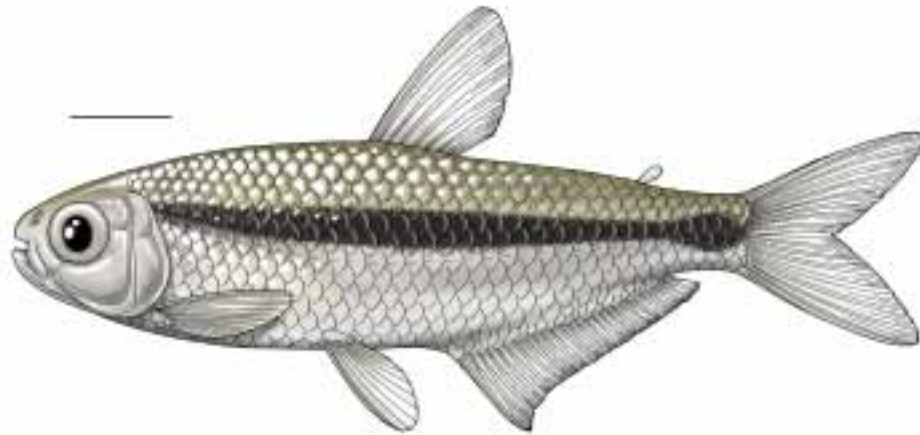
Bryconamericus emperador

Figura - 66

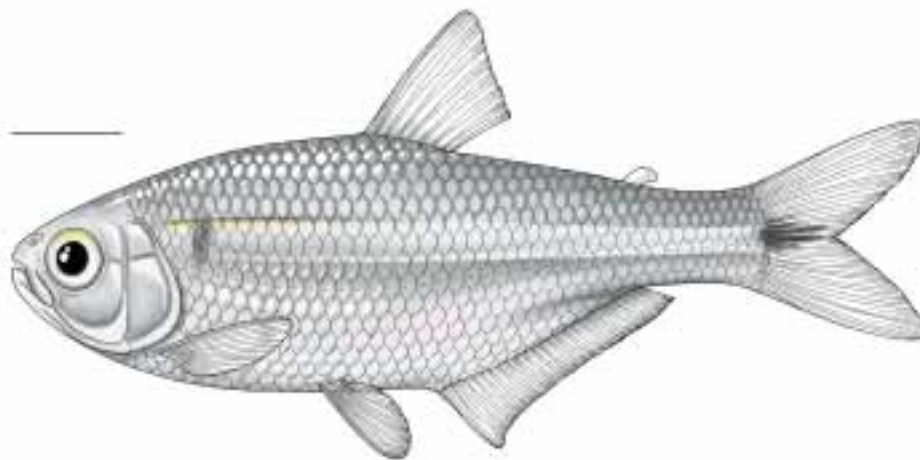
Bryconamericus tolimae

Figura - 67

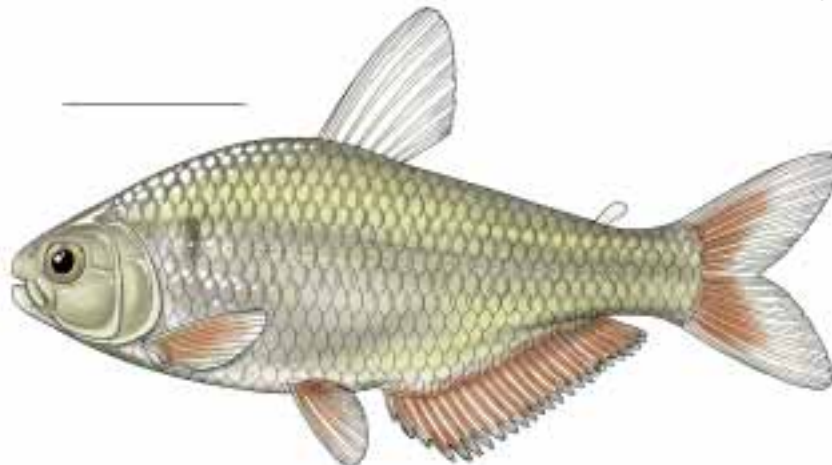
Carlastyanax aurocaudatus

Figura - 68

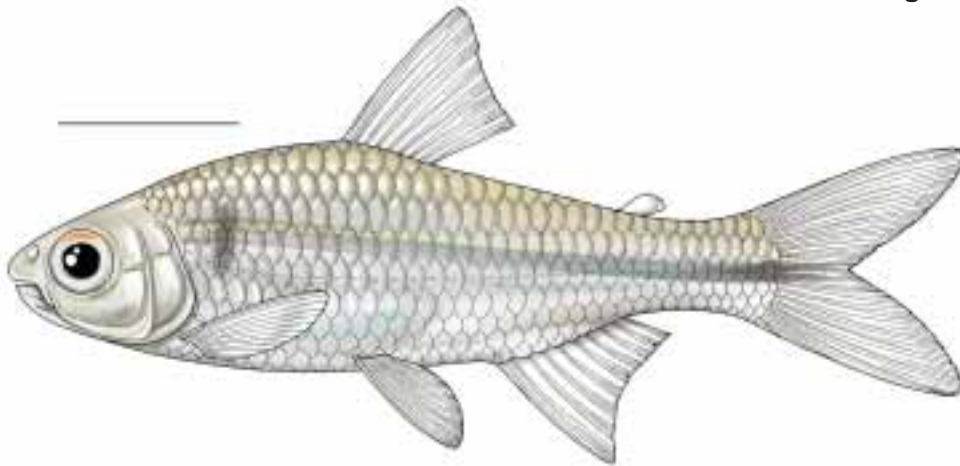
Creagrutus brevipinnis

Figura - 69

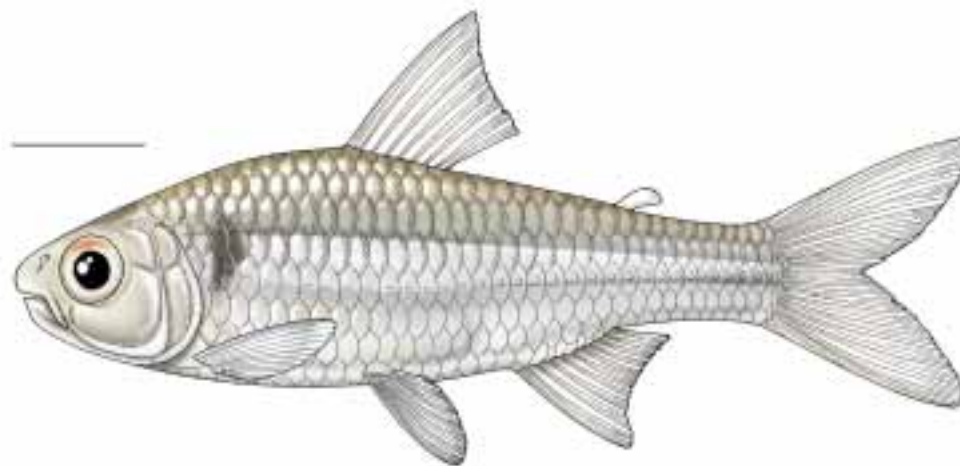
Creagrutus caucanus

Figura - 70

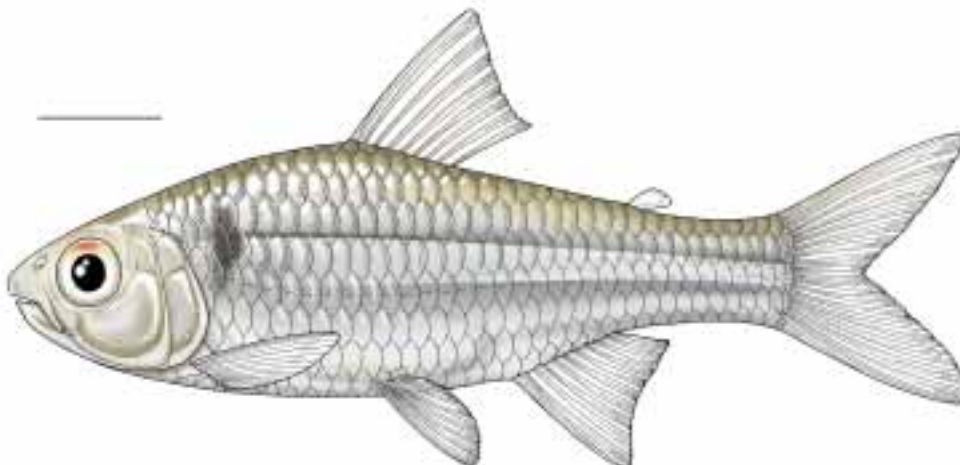
Creagrutus magdalenae

Figura - 71

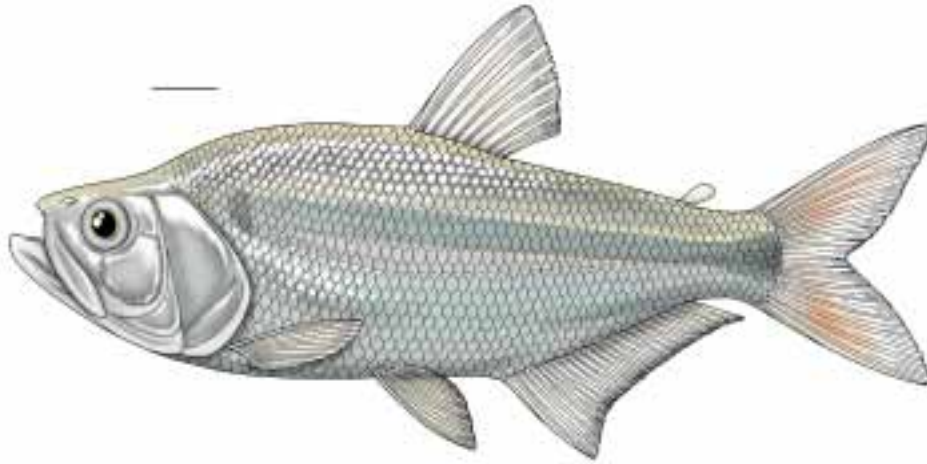
Genycharax tarpon

Figura - 72

Grundulus bogotensis

Figura - 73

Grundulus cochae

Figura - 74

Hemibrycon boquiae

Figura - 75

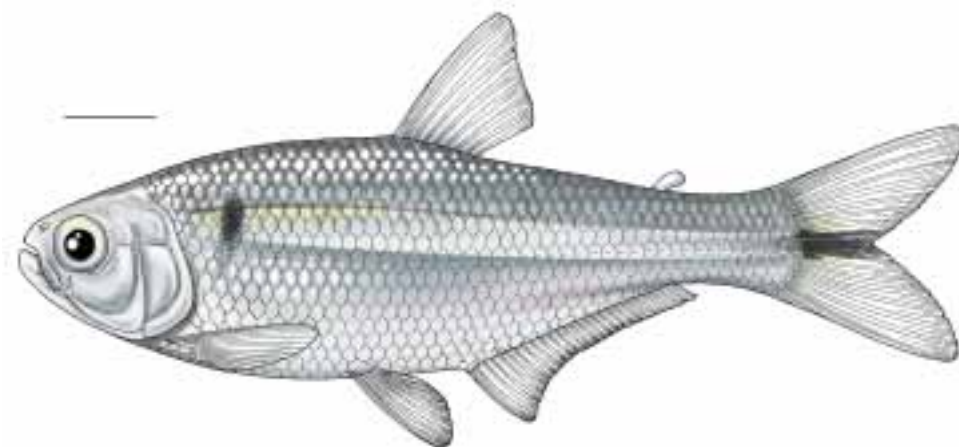
Hemibrycon colombianus

Figura - 76

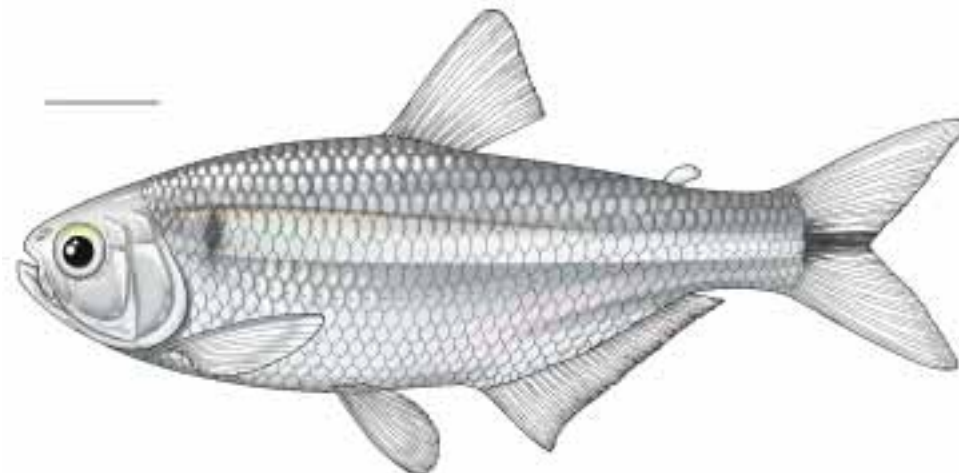
Hemibrycon dentatus

Figura - 77

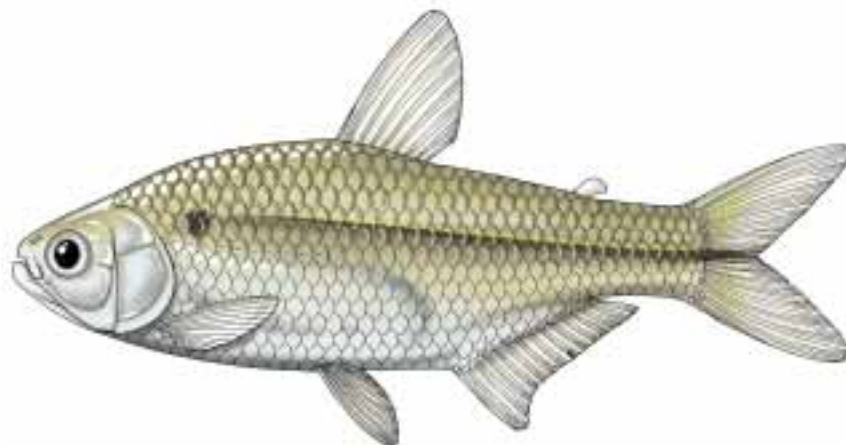
Hyphessobrycon poecilioides

Figura - 78

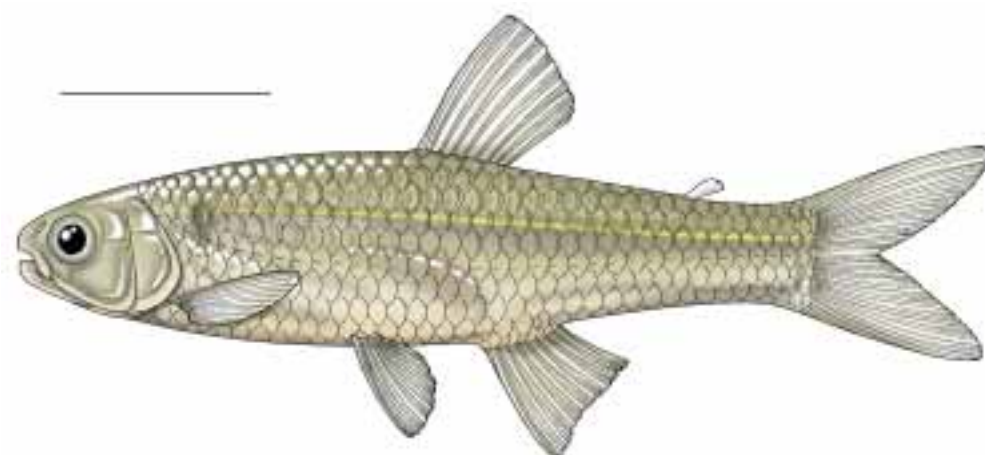
Microgenys minuta

Figura - 79

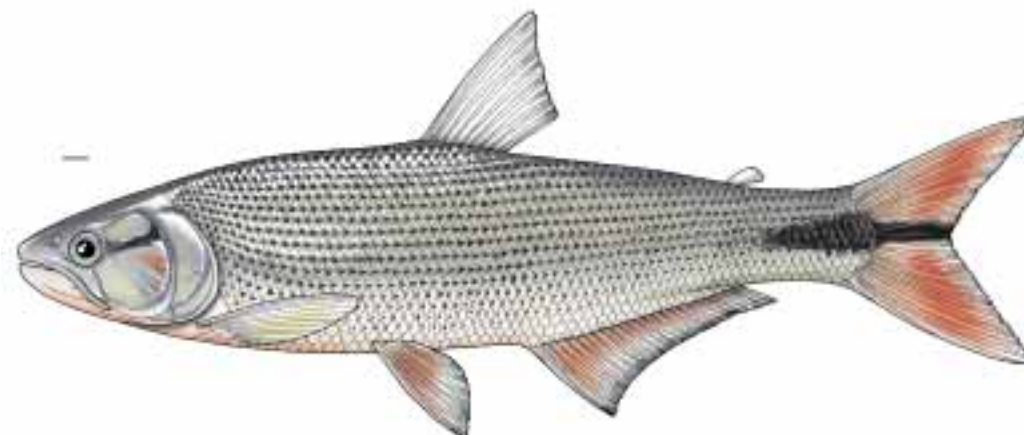
Salminus affinis

Figura - 80

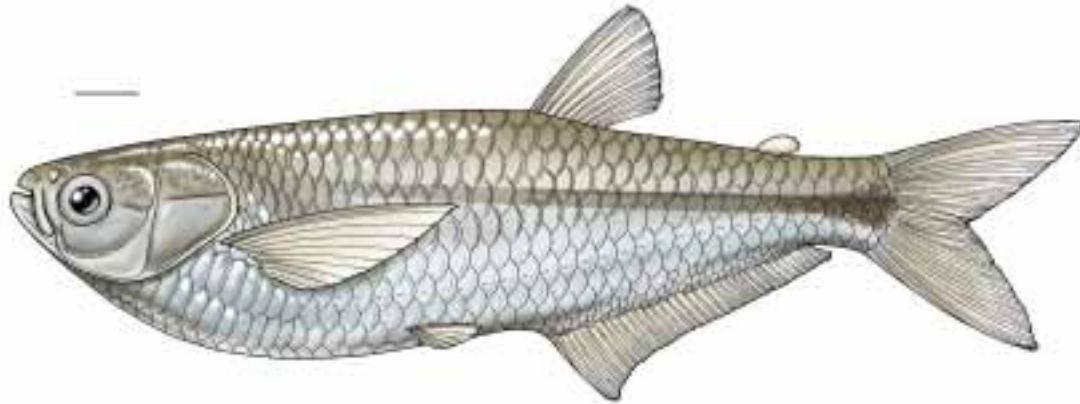
Triportheus magdalenae

Figura - 81

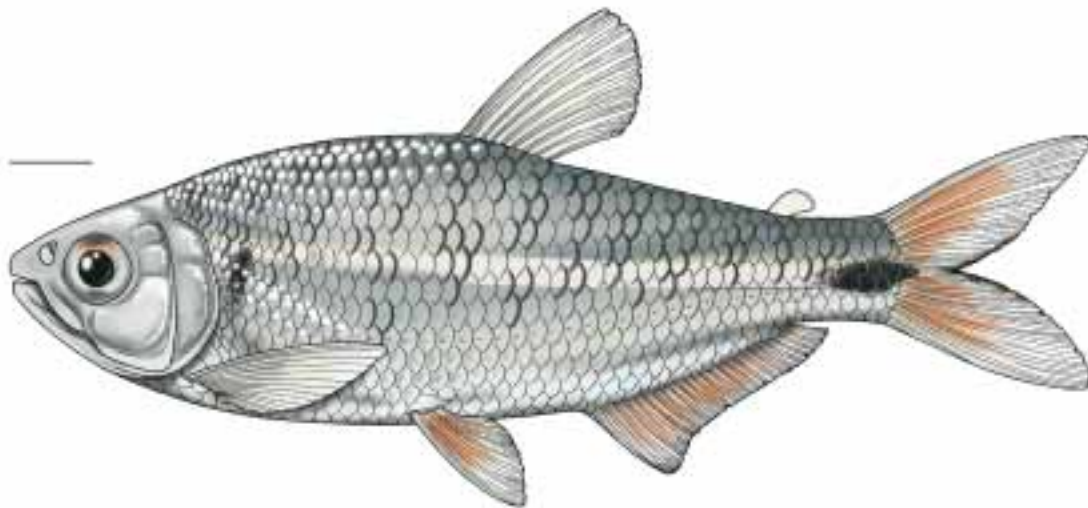
Brycon fowleri

Figura - 82

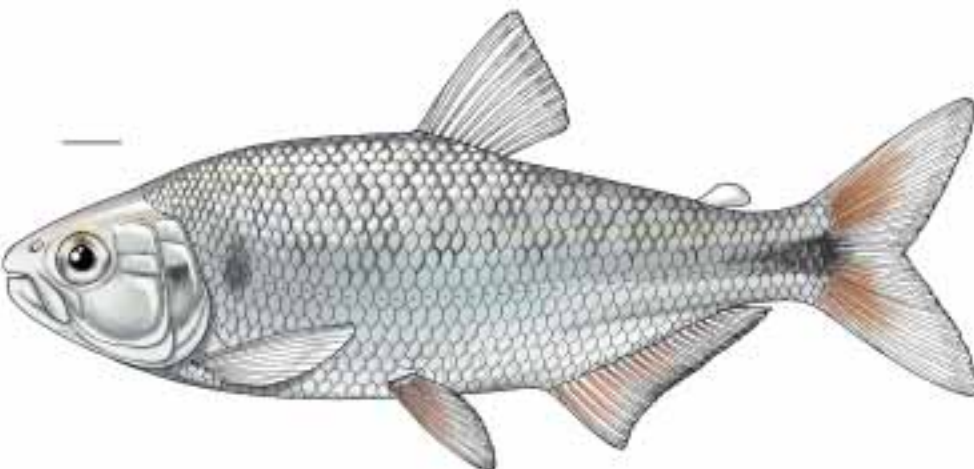
Brycon henni

Figura - 83

Brycon medemi

Figura - 84

Brycon moorei

Figura - 85

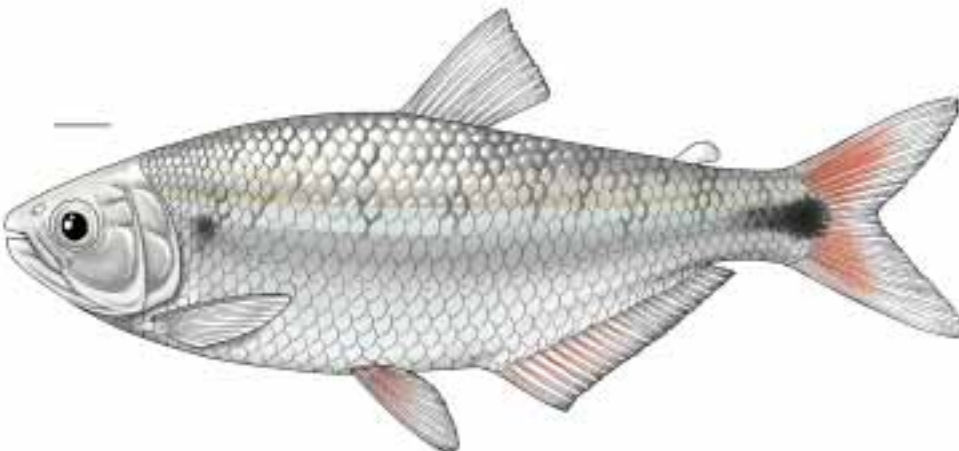
Brycon oligolepis

Figura - 86

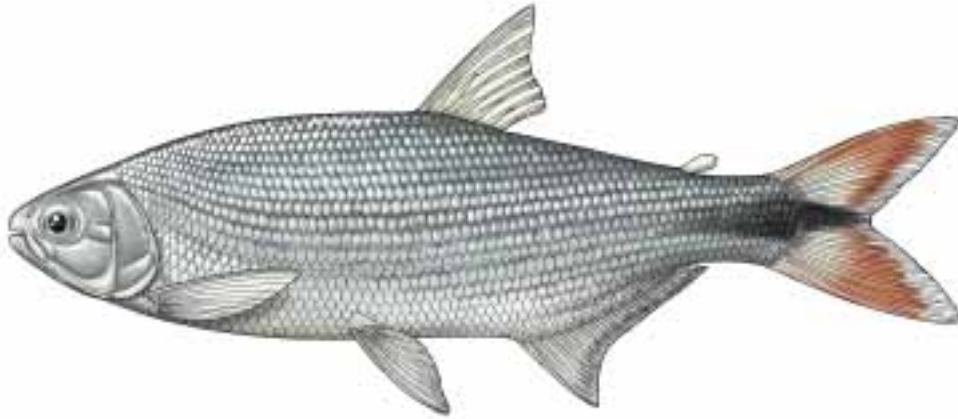
Brycon rubricauda

Figura - 87

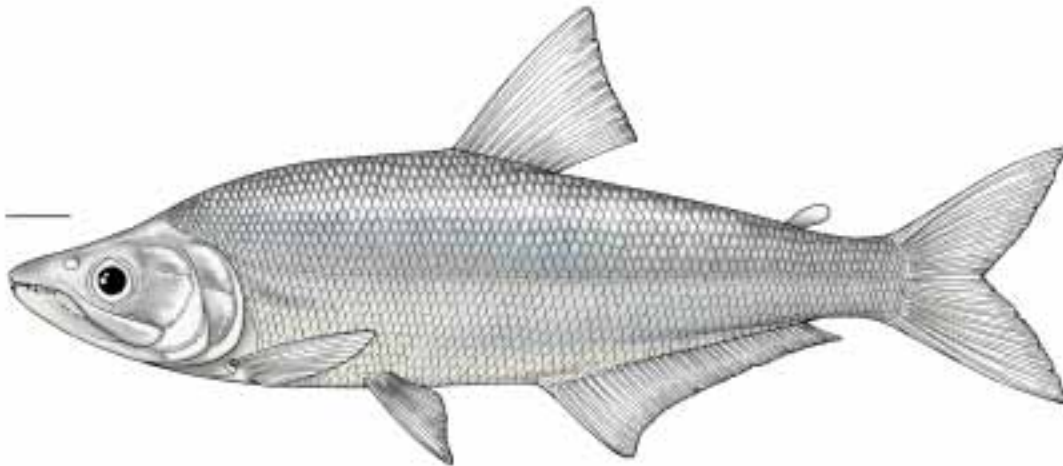
Acestrocephalus anomalus

Figura - 88

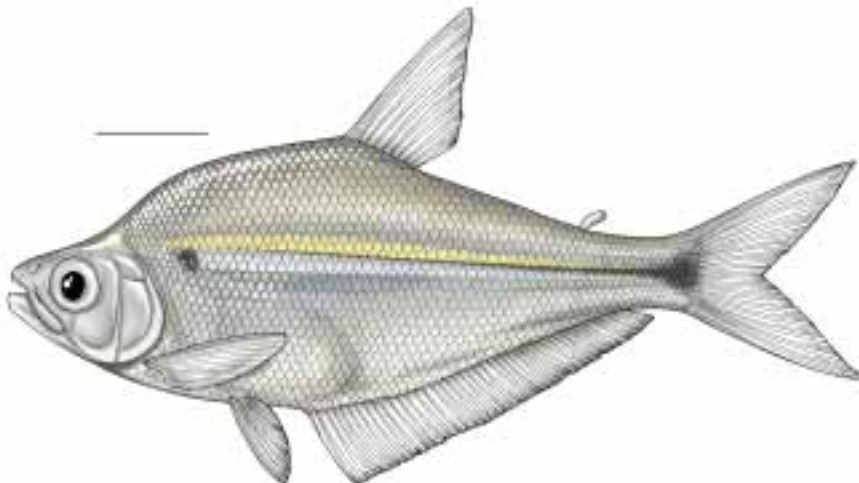
Roeboides dayi

Figura - 89

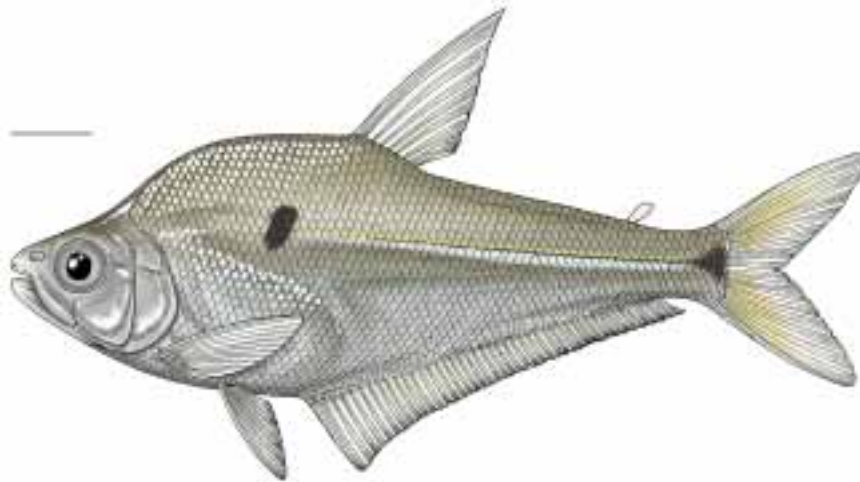
Roeboides occidentalis

Figura - 90

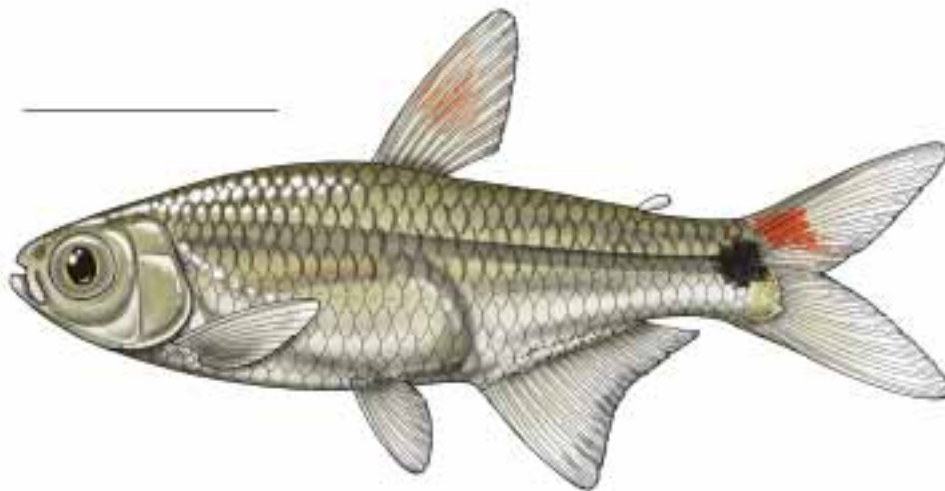
Saccoderma hastatus

Figura - 91

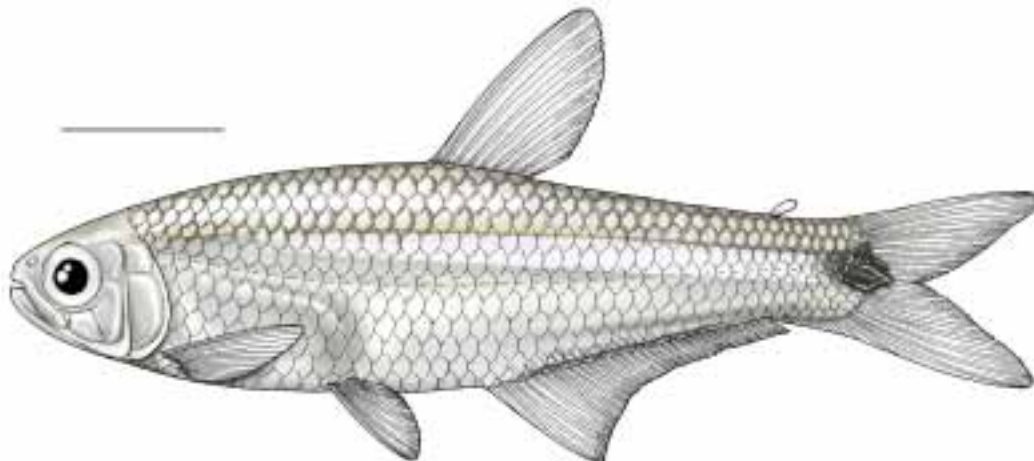
Argopleura magdalenensis

Figura - 92

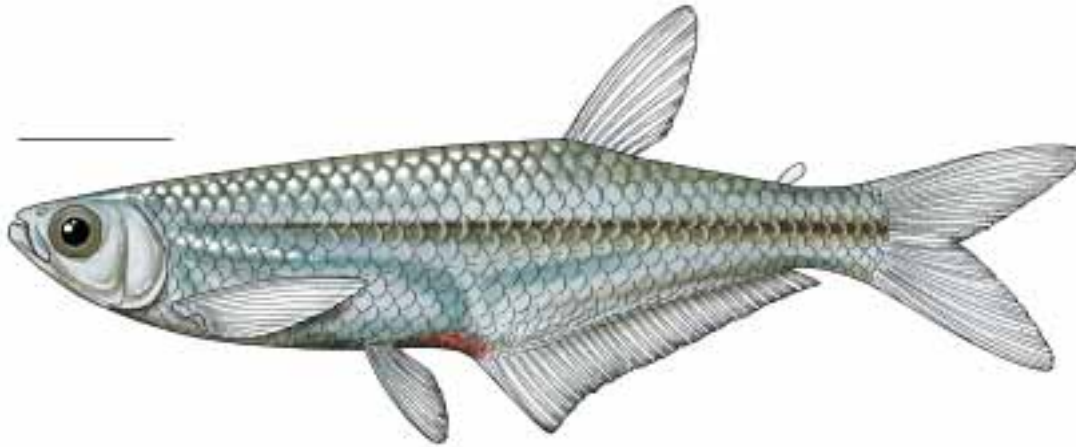
Gephyrocharax caucanus

Figura - 93

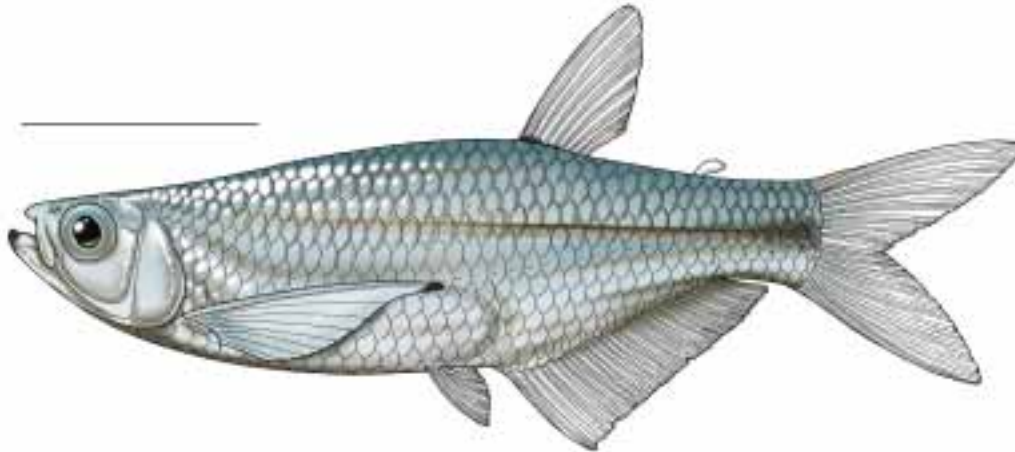
Gephyrocharax melanocheir

Figura - 94

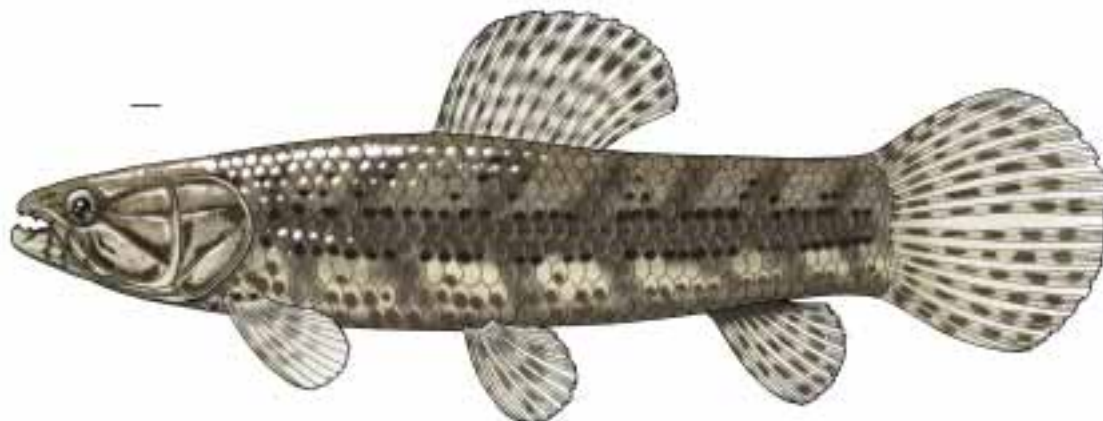
Hoplias malabaricus

Figura - 95

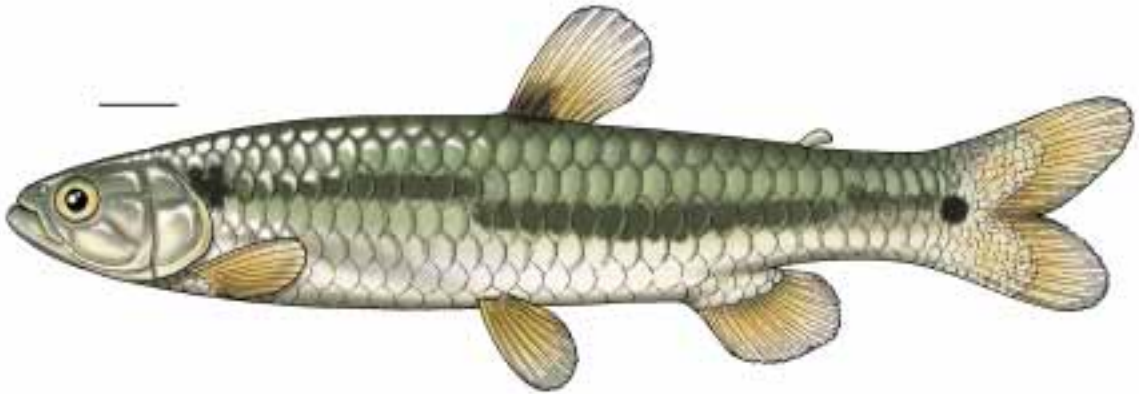
Lebiasina chucuriensis

Figura - 96

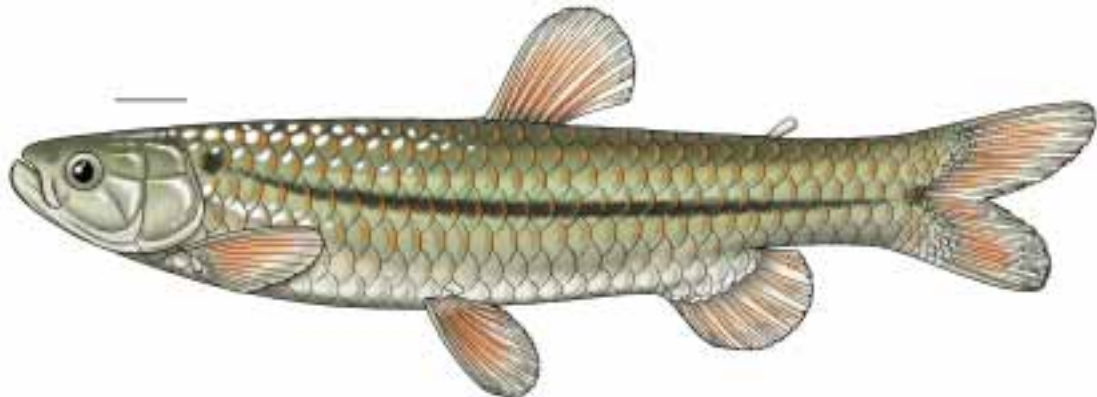
Lebiasina erythrinoides

Figura - 97

Lebiasina floridablancaensis

Figura - 98

Ctenolucius hujeta

Figura - 99

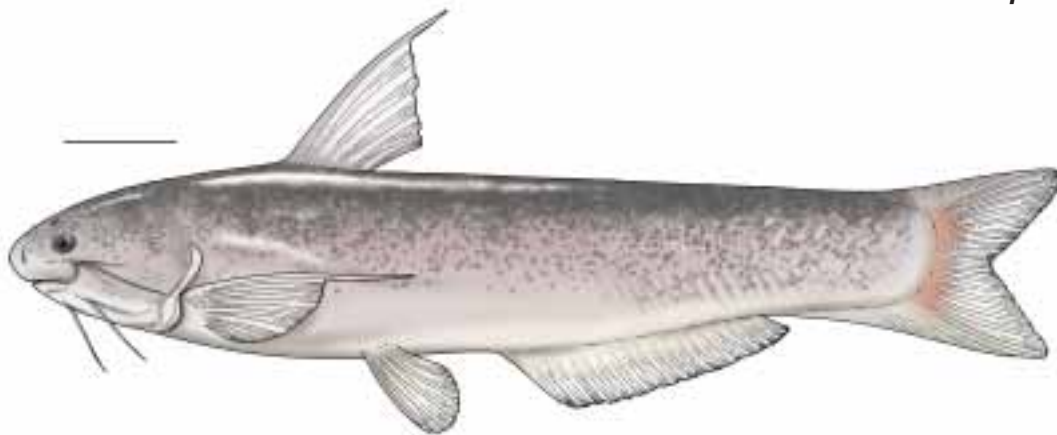
Pseudocetopsis othonops

Figura - 100

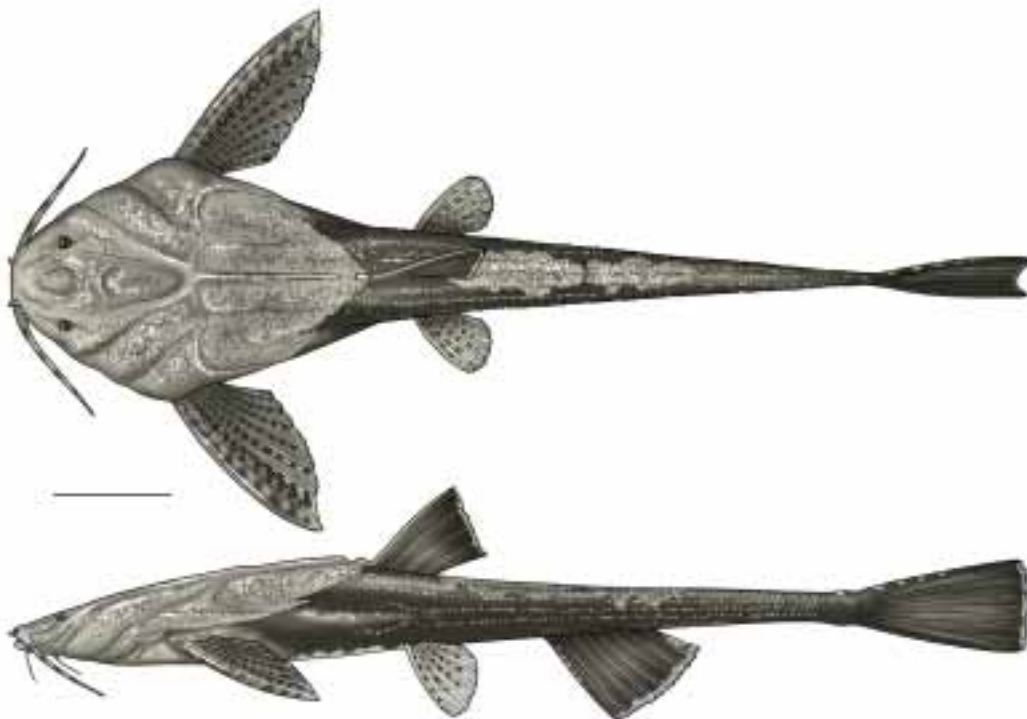
Bunocephalus colombianus

Figura - 101

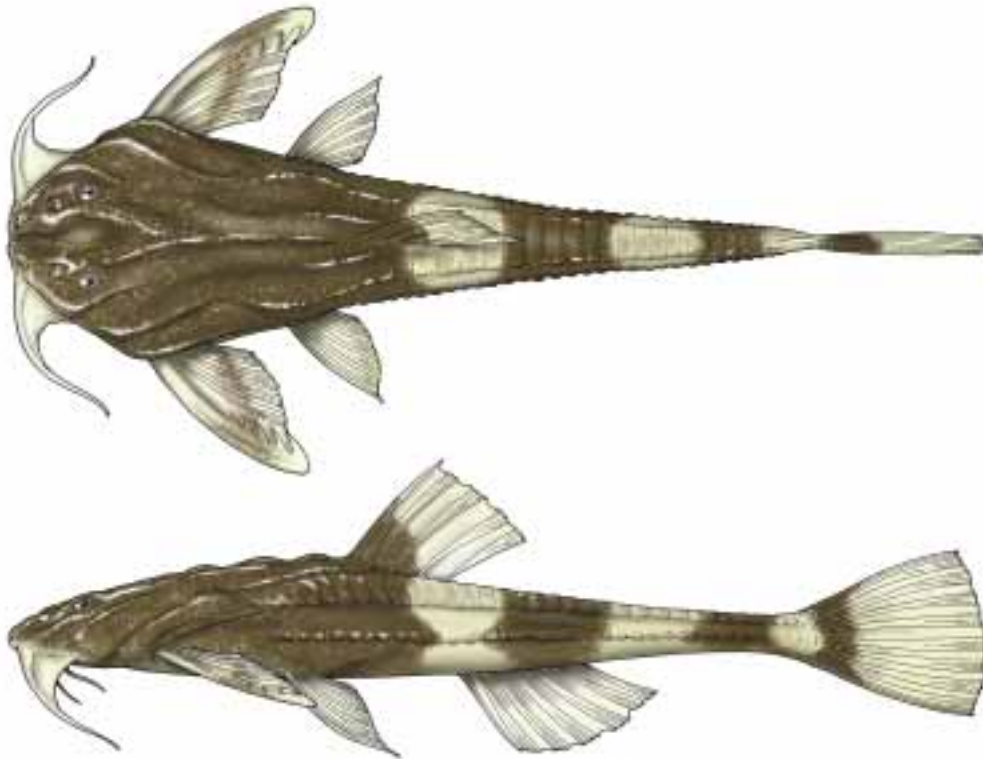
Dupouyichthys sapito

Figura - 102

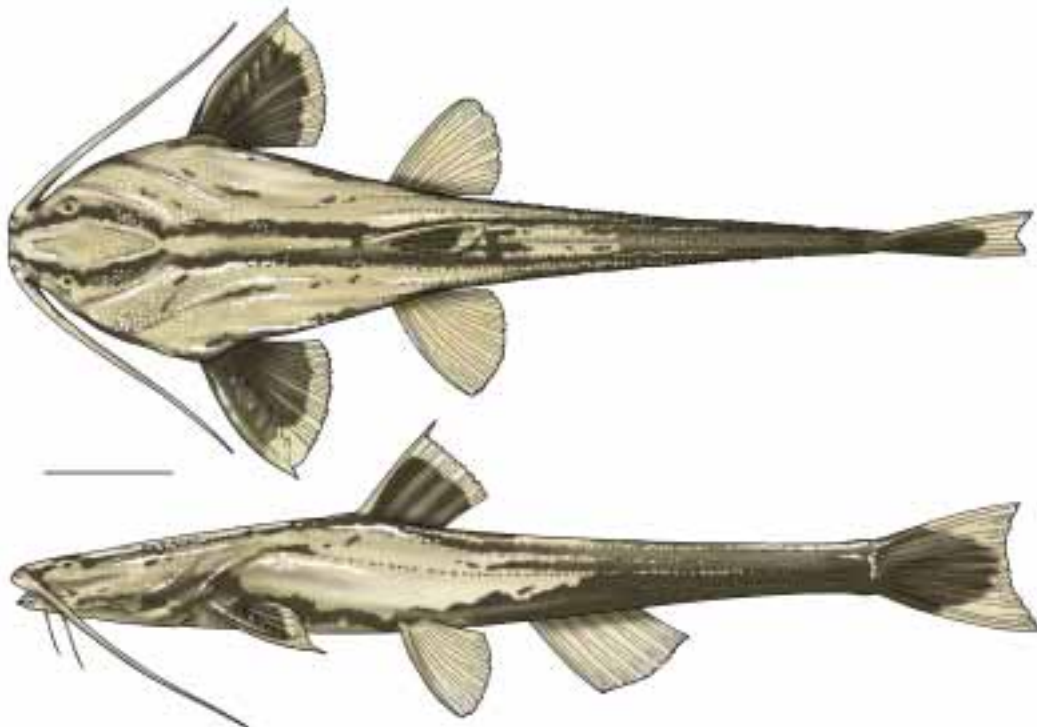
Xyliphius magdalenae

Figura - 103

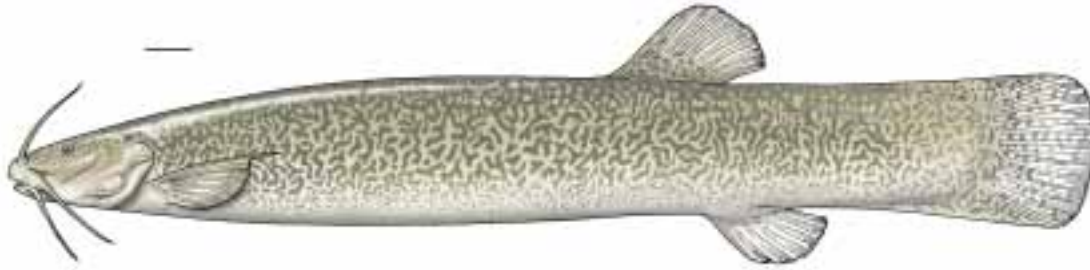
Eremophilus mutisii

Figura - 104

Rhizosomichthys totae

Figura - 105

Trichomycterus banneai

Figura - 106

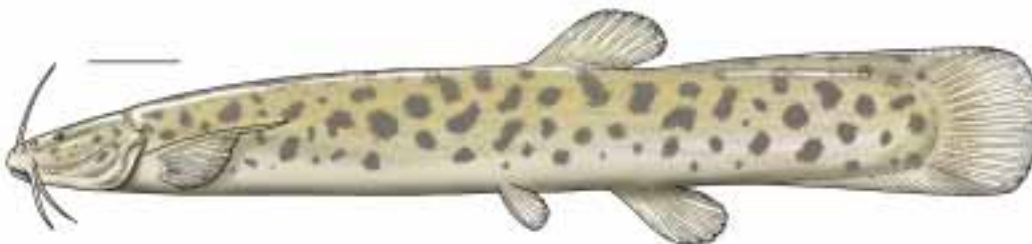
Trichomycterus bogotense

Figura - 107

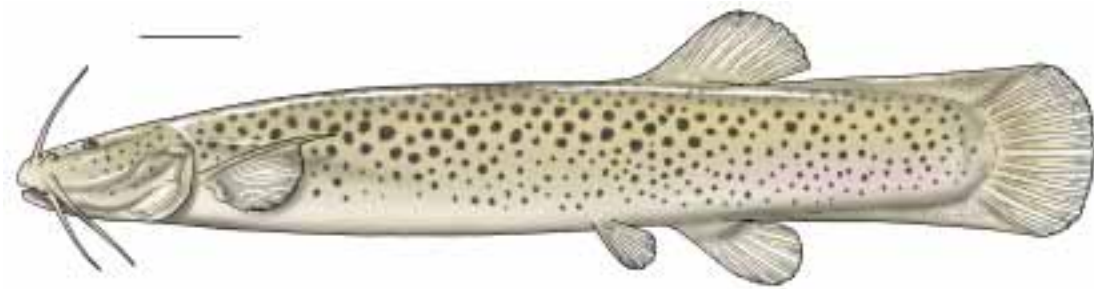
Trichomycterus caliense

Figura - 108

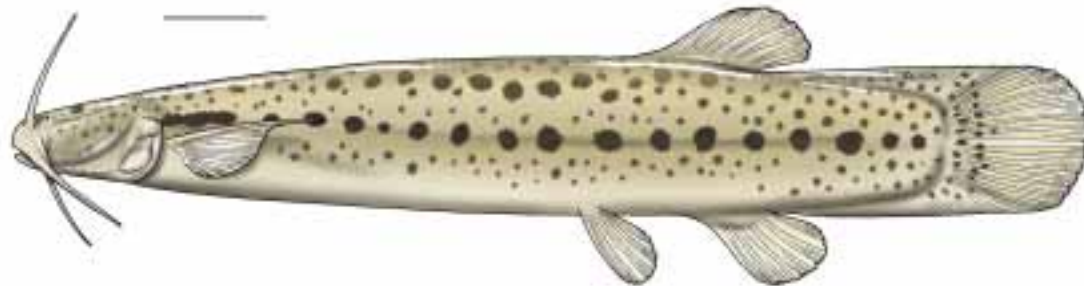
Trichomycterus chapmani

Figura - 109

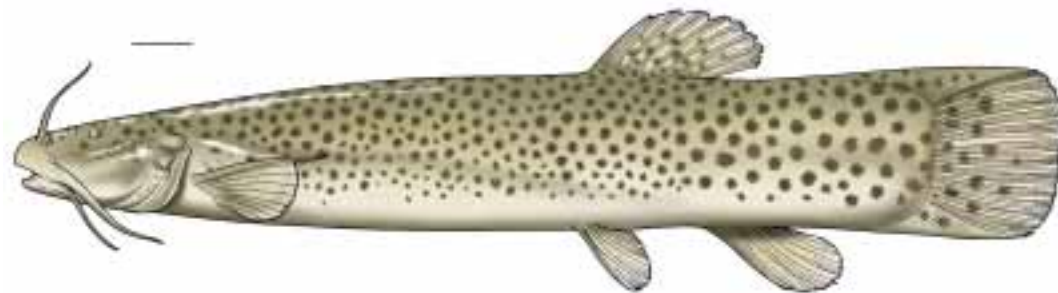
Trichomycterus nigromaculatus

Figura - 110

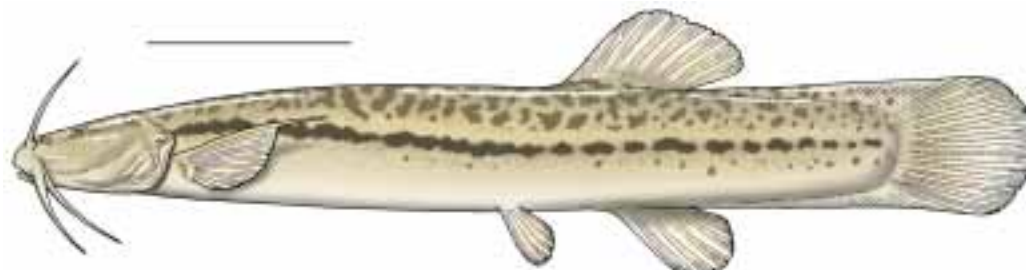
Trichomycterus retropinnis

Figura - 111

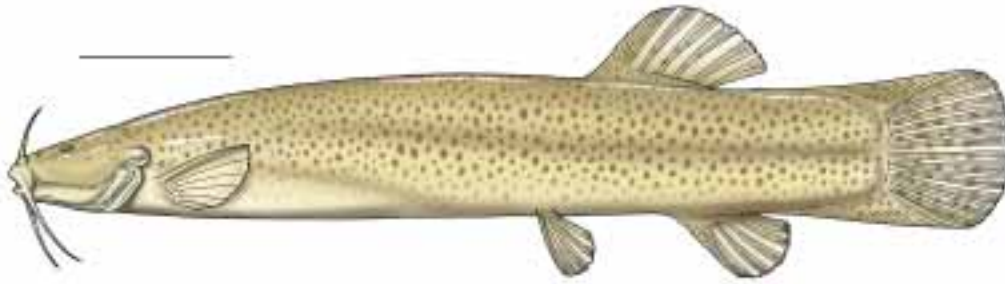
Trichomycterus spilosoma

Figura - 112

Trichomycterus stramineus

Figura - 113

Trichomycterus striatus

Figura - 114

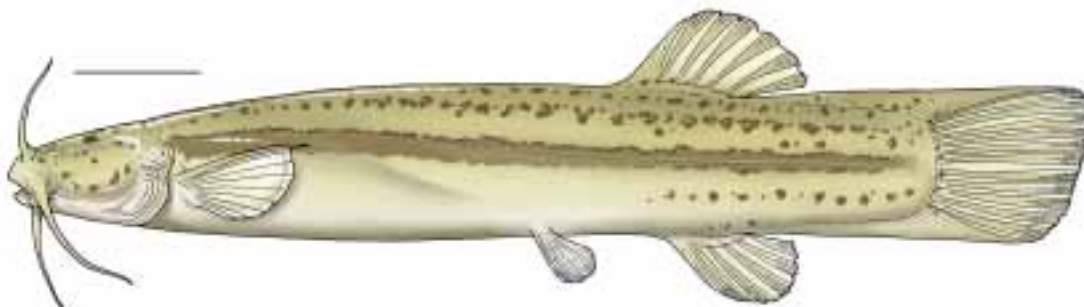
Trichomycterus taenia

Figura - 115

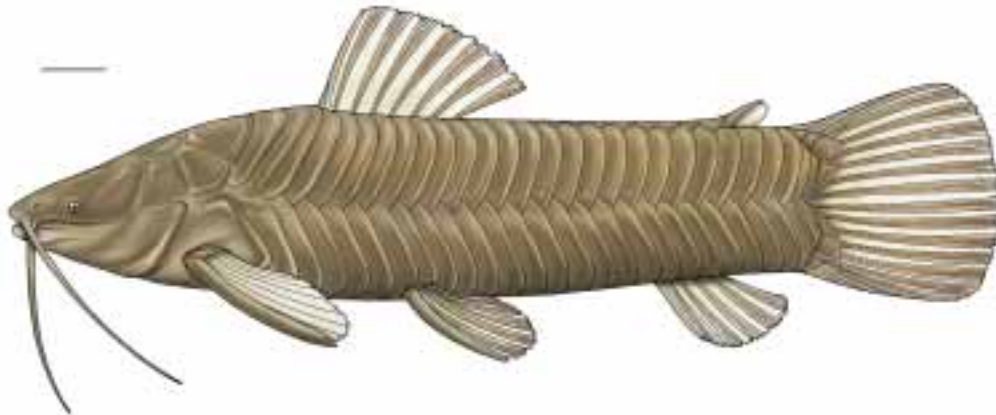
Callichthys fabricioi

Figura - 116

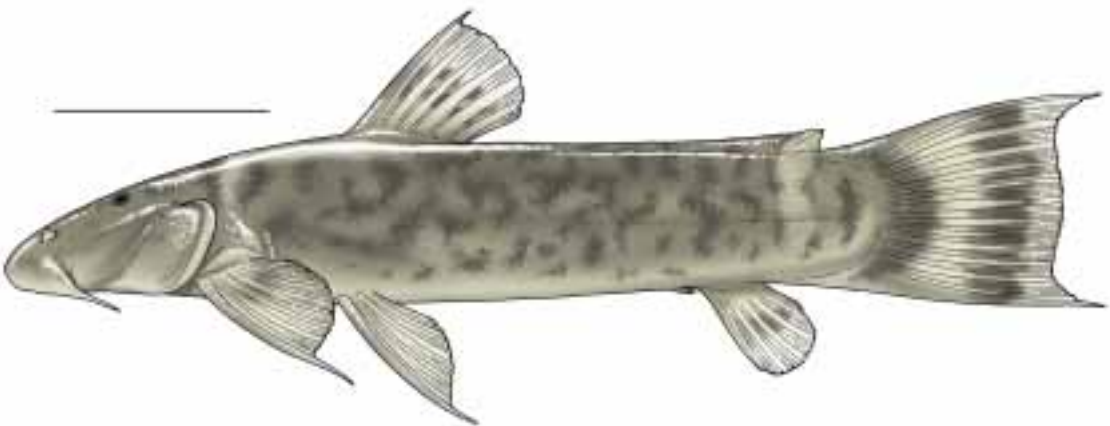
Astroblepus chapmani

Figura - 117

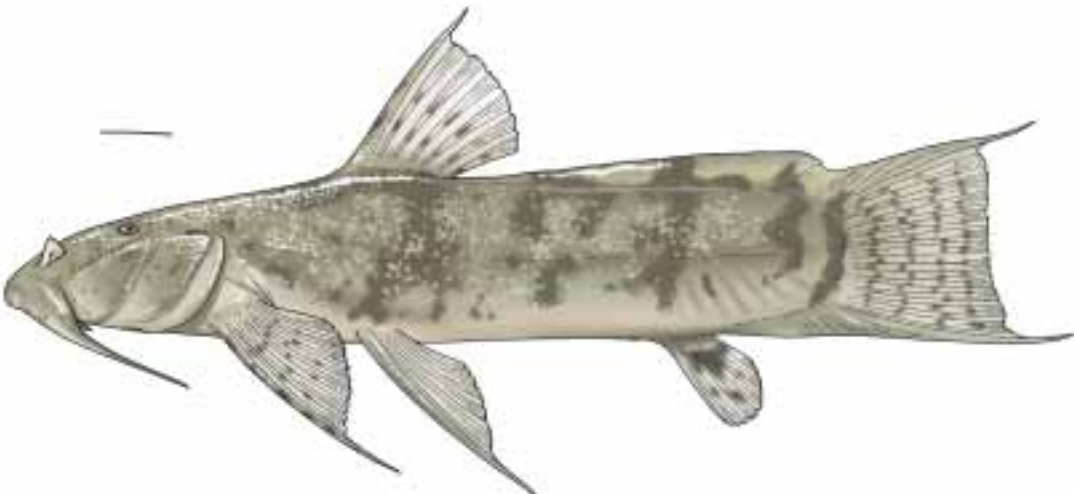
Astroblepus chotae

Figura - 118

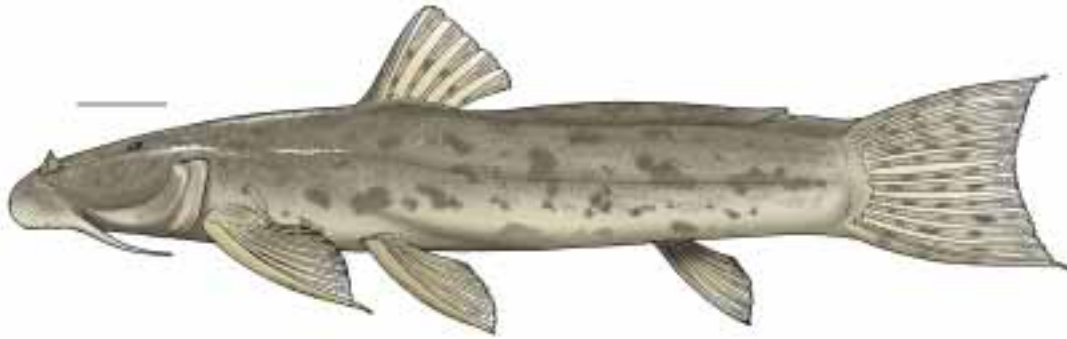
Astroblepus cirratus

Figura - 119

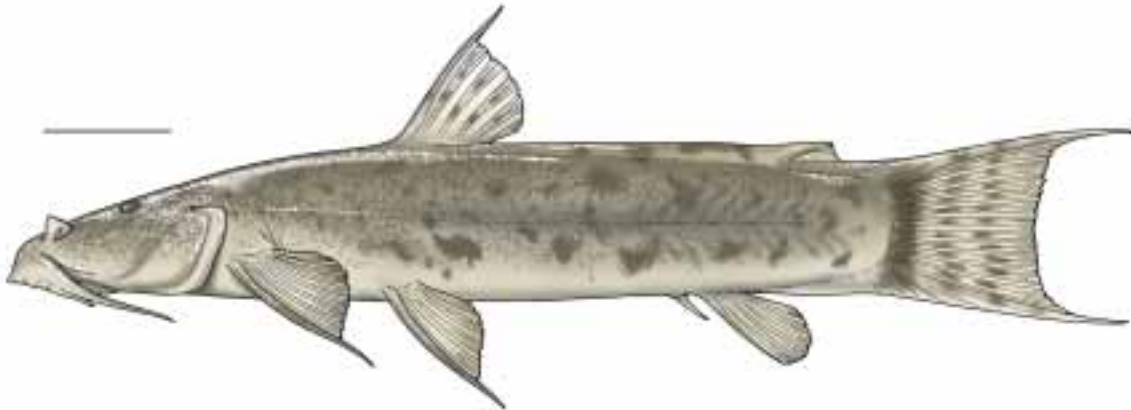
Astroblepus cyclopus

Figura - 120

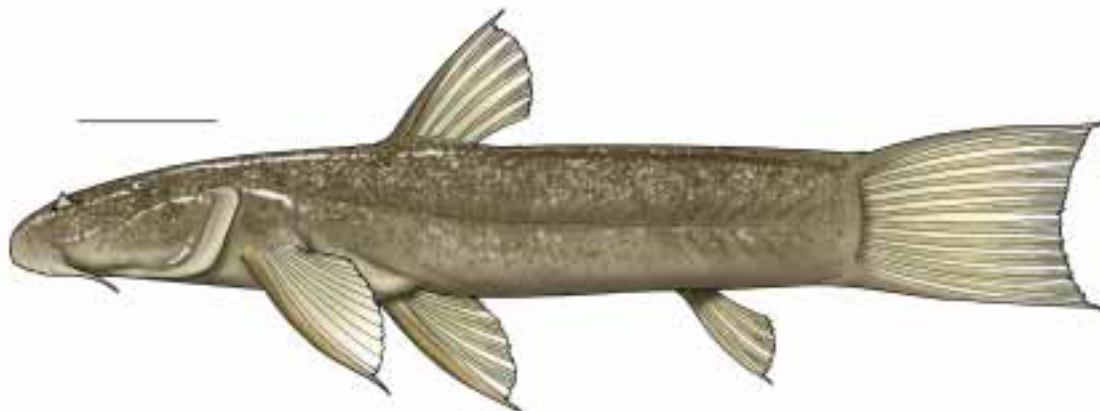
Astroblepus frenatus

Figura - 121

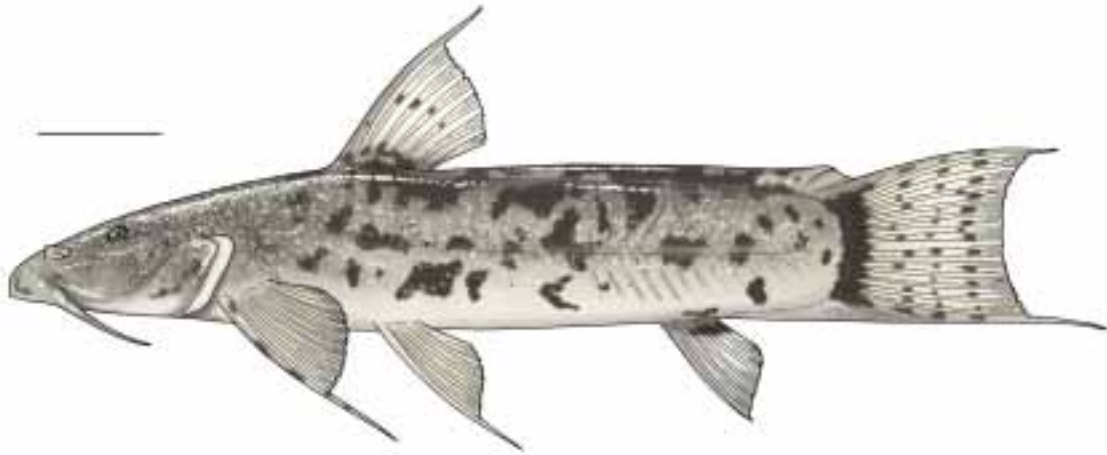
Astroblepus grivalvii

Figura - 122

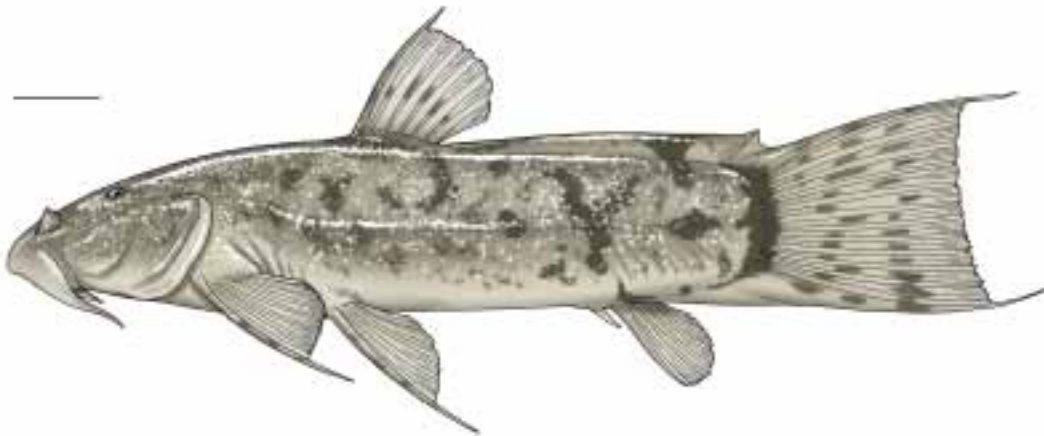
Astroblepus homodon

Figura - 123

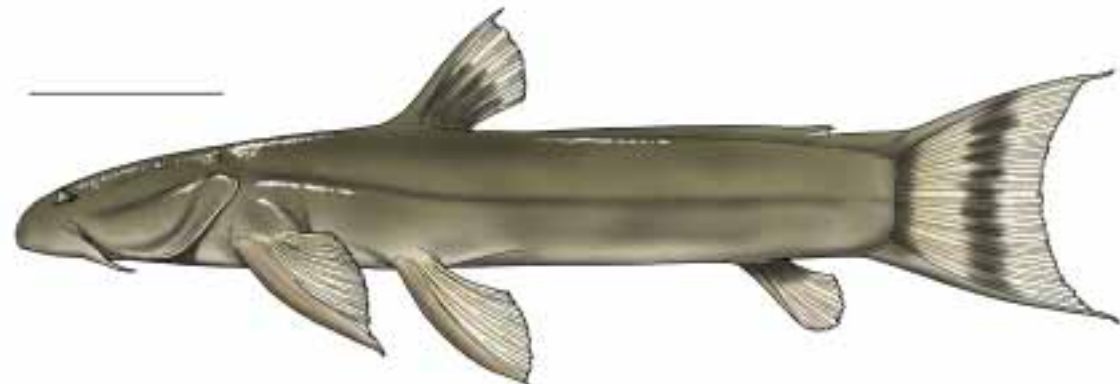
Astroblepus latidens

Figura - 124

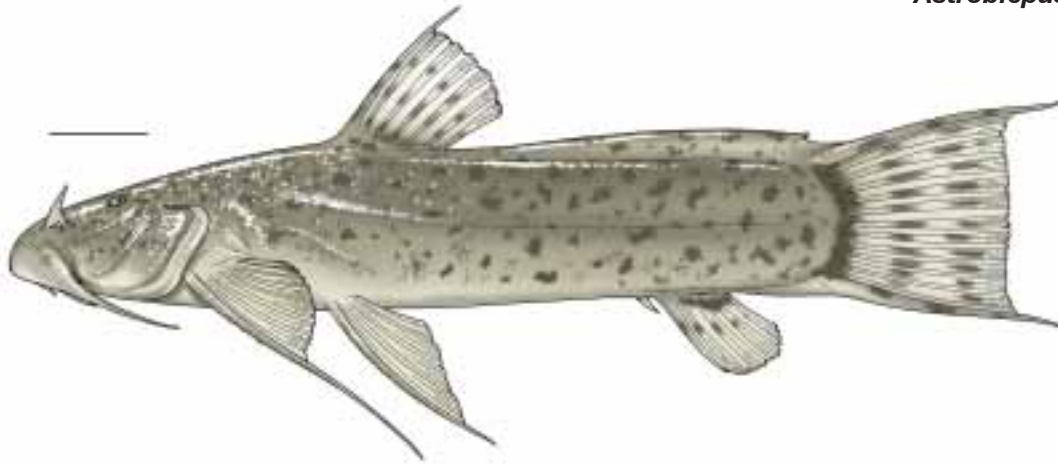
Astroblepus longifilis

Figura - 125

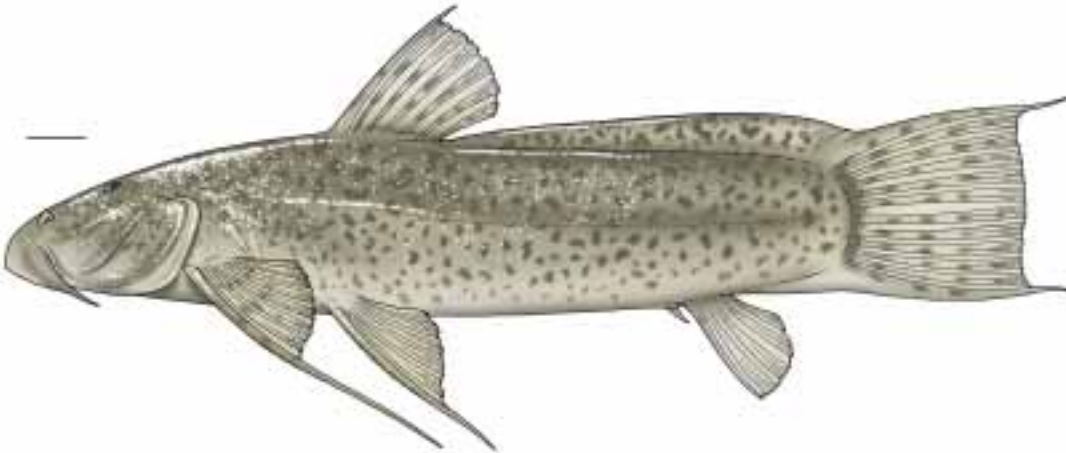
Astroblepus micrescens

Figura - 126

Astroblepus rosei