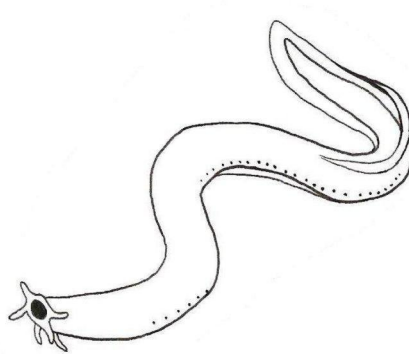


Ichtsys

System of the recent fishlike and fishes

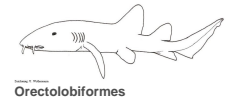
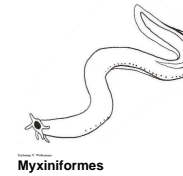


Sketch: Ute Wollermann

Compiled by
Arne Hübner

Created on Friday 07th of September 2012

- 1 Subphylum: Craniota (craniates)
- 2 Infraphylum: Myxinoidea
- 3 Superclass: Myxiniomorpha (hagfishes and relatives)
- 4 Class: Myxini (hagfishes)
- 5 Order: Myxiniiformes (hagfishes)
- 6 Family: Myxiniidae (hagfishes)
- 7 Infraphylum: Vertebrata (vertebrates)
- 8 Superclass: Petromyzontomorpha (lampreys and relatives)
- 9 Class: Petromyzontida (lampreys)
- 10 Order: Petromyzontiformes (lampreys)
- 11 Family: Petromyzontidae (lampreys)
- 12 Family: Geotriidae (-) [position uncertain]
- 13 Family: Mordaciidae (-) [position uncertain]
- 14 Superclass: Gnathostomata (gnathostomes jawed vertebrates)
- 15 Class: Chondrichthyes (cartilaginous fishes)
- 16 Subclass: Elasmobranchii (elasmobranchs, shark-like fishes)
- 17 Infraclass: Euselachii (true sharks)
- 18 Superdivision: Neoselachii (modern sharks)
- 19 Division: Galea [= Galeomorpha] (sharklike sharks)
- 20 Order: Heterodontiformes (bullhead sharks)
- 21 Family: Heterodontidae (bullhead-, horn-, Port Jackson sharks)
- 22 Order: Orectolobiformes (carpet sharks)
- 23 Suborder: Parascyloidei
- 24 Family: Parascyllidae (collared carpet sharks)
- 25 Suborder: Orectoloboidei
- 26 Family: Brachaeluridae (blind sharks)
- 27 Family: Orectolobidae (carpet-nurse sharks)
- 28 Family: Hemiscyllidae (bamboo sharks)
- 29 Family: Stegostomatidae (zebra sharks)
- 30 Family: Ginglymostomatidae (nurse sharks)
- 31 Family: Rhincodontidae [= Rhinodontidae] (whale sharks)
- 32 Order: Lamniformes (mackerel sharks)
- 33 Family: Odontaspidae [= Carchariidae] (sand tigers)
- 34 Family: Mitsukurinidae (goblin sharks)
- 35 Family: Pseudocarchariidae (crocodile sharks)
- 36 Family: Megachasmidae (megamouth sharks)
- 37 Family: Alopiidae (thresher sharks)
- 38 Family: Cetorhinidae (basking sharks)
- 39 Family: Lamnidae (mackerel sharks)
- 40 Order: Carcharhiniformes (ground sharks)
- 41 Family: Scyliorhinidae (cat sharks)
- 42 Family: Proscyllidae (finback catsharks)
- 43 Family: Pseudotriakidae (false catsharks)
- 44 Family: Leptochariidae (barbeled houndsharks)
- 45 Family: Triakidae (houndsharks)
- 46 Family: Hemigaleidae (weasel sharks)
- 47 Family: Carcharinidae (requiem sharks)
- 48 Family: Sphyrnidae (hammerhead-, bonnethead-, scoophead sharks)
- 49 Division: Squalea [= Squalomorpha] (raylike sharks and rays)
- 50 Order: Chlamydoselachiformes (frill sharks)



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Suborder: Chlamydoselachoidei
Family: Chlamydoselachidae (frilled sharks)
Order: Hexanchiformes (six-gill sharks)
Suborder: Hexanchoidei
Family: Hexanchidae (cow sharks)
Order: Echinorhiniformes (bramble sharks)
Family: Echinorhinidae (bramble sharks)
Order: Dalatiiformes (kitefin sharks)
Family: Etmopteridae (lantern sharks)
Family: Dalatiidae (kitefin sharks)
Family: Somniosidae (sleeper sharks)
Order: Centrophoriformes (gulper sharks)
Family: Centrophoridae (gulper sharks)
Order: Squaliformes (dogfish sharks)
Suborder: Squaloidei
Family: Squalidae (dogfish sharks)
Subdivision: Hypnosqualea
Order: Squatiniformes (angel sharks)
Family: Squatinidae (angel sharks)
Order: Pristiophoriformes (saw sharks)
Family: Pristiophoridae (saw sharks)
Subdivision: Batoidea
Order: Torpediniformes (electric rays)
Family: Torpedinidae (electric rays)
Family: Narcinidae (numbfishes)
Order: Pristiformes (sawfishes)
Family: Pristidae (sawfishes)
Order: Rajiiformes (skates)
Family: Rhynchobatidae (wedgfishes)
Family: Rhinobatidae (guitarfishes)
Family: Rajidae (skates)
Family: Anacanthobatidae (smooth skates)
Order: Myliobatiformes (eagle rays)
Suborder: Platyrrhinoidei
Family: Platyrrhinidae (thornbacks)
Suborder: Zanobatoidei [position uncertain]
Family: Zanobatidae (panrays) [position uncertain]
Suborder: Myliobatoidei
Superfamily: Hexatrygonoidea
Family: Hexatrygonidae (sixgill stingrays)
Superfamily: Urolophoidea
Family: Plesiobatidae (deep-water stingrays)
Family: Urolophidae (round rays)
Superfamily: Dasyatoidea
Family: Dasyatidae (stingrays)
Family: Potamotrygonidae (river stingrays, freshwater stingrays)
Family: Gymnuridae (butterfly rays)
Family: Myliobatidae (eagle rays, manta rays)
Family: Rhinopteridae (cownose rays) [position uncertain]
Subclass: Subterbranchialia



Hexanchiformes



Echinorhiniformes



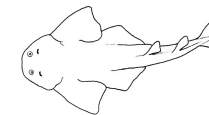
Dalatiiformes



Centrophoriformes



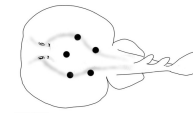
Squaliformes



Squatiniformes



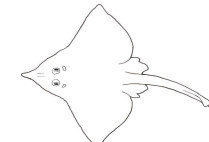
Pristiophoriformes



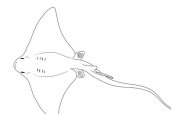
Torpediniformes



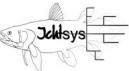
Pristiformes



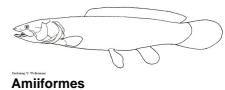
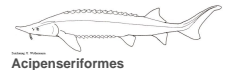
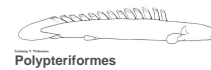
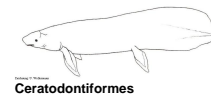
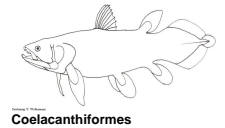
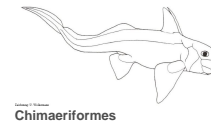
Rajiiformes



Myliobatiformes

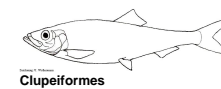
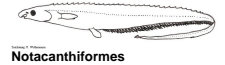
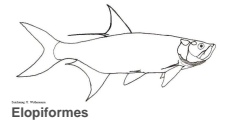


- 101 **Superorder: Holocephali**
- 102 **Order: Chimaeriformes (chimaeras)**
- 103 **Suborder: Chimaeroidei**
- 104 **Superfamily: Chimaeroidea**
- 105 **Family: Chimaeridae (shortnose chimaeras, ratfishes)**
- 106 **Family: Rhinochimaeridae (longnose chimaeras)**
- 107 **Superfamily: Callorhinchoidea**
- 108 **Family: Callorhynchidae (plownose chimaeras)**
- 109 **Class: Osteognathostomata (= Euteleostomi, former Osteichthyes, bony fishes)**
- 110 **Subclass: Sarcopterygii (lobe-finned fishes)**
- 111 **Infraclass: Actinistia (coelacanth)**
- 112 **Superorder: Coelacanthimorpha**
- 113 **Order: Coelacanthiformes (coelacanth)**
- 114 **Family: Latimeridae (gombessas)**
- 115 **Infraclass: Dipnoi (lungfishes)**
- 116 **Superorder: Ceratodontimorpha**
- 117 **Order: Ceratodontiformes (australian lungfishes)**
- 118 **Family: Ceratodontidae (australian lungfishes)**
- 119 **Order: Lepidosireniformes (southam. a. afrik. Lungfishes)**
- 120 **Family: Lepidosirenidae (aestivating lungfishes)**
- 121 **Family: Protopteridae (african lungfishes)**
- 122 **Subclass: Actinopterygii (ray-finned fishes)**
- 123 **Infraclass: Cladistia (bichirs)**
- 124 **Order: Polypteriformes (bichirs)**
- 125 **Family: Polypteridae (bichirs)**
- 126 **Infraclass: Actinopteri (modern ray-finned fishes)**
- 127 **Superdivision: Chondrostei (sturgeons and paddlefishes)**
- 128 **Order: Acipenseriformes (sturgeons)**
- 129 **Suborder: Acipenseroidei**
- 130 **Family: Acipenseridae (sturgeons)**
- 131 **Suborder: Polyodontoidei**
- 132 **Family: Polyodontidae (paddlefishes)**
- 133 **Superdivision: Neopterygii ("newfins")**
- 134 **Division: Ginglymodi (alligatorfishes) [former = Holostei]**
- 135 **Order: Lepisosteiformes (also: Semionotiformes, gars)**
- 136 **Family: Lepisosteidae (gars)**
- 137 **Division: Halecostomi**
- 138 **Subdivision: Halecomorphi (bowfins and relatives)**
- 139 **Order: Amiiformes (bowfins)**
- 140 **Family: Amiidae (bowfins)**
- 141 **Subdivision: Teleostei (true bony fishes)**
- 142 **Infradivision: Osteoglossomorpha (bonytongues and relatives)**
- 143 **Order: Osteoglossiformes (bonytongues)**
- 144 **Suborder: Osteoglossoidei**
- 145 **Family: Osteoglossidae (arowanas)**
- 146 **Family: Pantodontidae (freshwater butterflyfishes)**
- 147 **Suborder: Notopteroidei**
- 148 **Family: Hiodontidae (mooneyes)**
- 149 **Family: Notopteridae (featherbacks, knifefishes)**
- 150 **Family: Mormyridae (elephantfishes)**

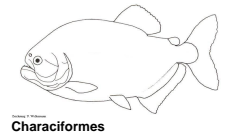
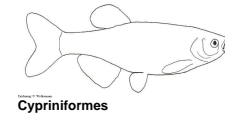


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- Family: **Gymnarchidae** (aba)
- Infradivision: **Elopocephala**
- Cohort: **Elopomorpha** (tarpons and relatives)
 - Order: **Elopiiformes** (tarpons, tenpounders)
 - Suborder: **Elopoidei**
 - Family: **Elopidae** (tenpounders)
 - Family: **Megalopidae** (tarpons)
 - Order: **Albuliformes** (bonefishes)
 - Suborder: **Albuloidei**
 - Family: **Albulidae** (bonefishes)
 - Order: **Notacanthiformes** (spiny eels)
 - Suborder: **Halosauroidae**
 - Family: **Halosauridae** (halosaurs)
 - Suborder: **Notacanthoidei**
 - Family: **Notacanthidae** (deep-sea spiny eels)
 - Order: **Anguilliformes** (eels)
 - Suborder: **Anguilloidei**
 - Family: **Anguillidae** (freshwater eels)
 - Family: **Heterenchelyidae** (mud eels)
 - Family: **Moringuidae** (worm-, spaghetti eels)
 - Suborder: **Muraenoidei**
 - Family: **Chlopsidae** (false morays)
 - Family: **Myrocongridae** (myroconger eels)
 - Family: **Muraenidae** [= **Heteromyridae**] (moray eels)
 - Suborder: **Congroidei**
 - Family: **Synphobranchidae** (cutthroat eels)
 - Family: **Ophichthyidae** (snake eels)
 - Family: **Colocongridae** (shorttail eels)
 - Family: **Derichthyidae** (longneck eels)
 - Family: **Muraenesocidae** (pike congers)
 - Family: **Nemichthyidae** (snipe eels)
 - Family: **Congridae** (conger-, garden eels)
 - Family: **Nettastomatidae** (duckbill eels)
 - Family: **Serrivomeridae** (sawtooth eels)
 - Order: **Saccopharyngiformes** (sackpharynx fishes)
 - Suborder: **Cyematoidei**
 - Family: **Cyematidae** (bobtail snipe eels)
 - Suborder: **Saccopharyngoidei**
 - Family: **Saccopharyngidae** (swallowers)
 - Family: **Eurypharyngidae** (gulpers)
 - Family: **Monognathidae** (onejaw gulpers)
 - Cohort: **Clupeocephala**
 - Subcohort: **Otocephala**
 - Superorder: **Clupeomorpha** (herrings and relatives)
 - Order: **Clupeiformes** (herrings)
 - Suborder: **Denticipitoidei**
 - Family: **Denticipidae** (denticle herrings)
 - Suborder: **Clupeoidei**
 - Family: **Engraulidae** (anchovies)
 - Family: **Chirocentridae** (wolf herrings)



201 Family: Clupeidae (herrings, shads, sardines, menhadens)
 202 Family: Sundasalangidae (sundaland noodlefishes)
 203 Superorder: Ostariophysa (ostariophysans)
 204 Series: Anotophysa
 205 Order: Gonorynchiformes (milkfishes)
 206 Suborder: Chanoidei
 207 Family: Chanidae (milkfishes)
 208 Suborder: Gonorynchoidei
 209 Family: Gonorynchidae (beaked salmons)
 210 Suborder: Kneroidei
 211 Family: Kneriidae (shellears)
 212 Family: Phractolaemidae (hingemouths)
 213 Series: Otophysa
 214 Subseries: Cyprinophysa
 215 Order: Cypriniformes (carps)
 216 Superfamily: Cyprinoidea
 217 Family: Cyprinidae (minnows, carps)
 218 Family: Psilorhynchidae (mountain carps)
 219 Superfamily: Cobitoidea
 220 Family: Gyrinocheilidae (algae eaters)
 221 Family: Catostomidae (suckers)
 222 Family: Cobitidae (loaches)
 223 Family: Balitoridae [= Homalopteridae] (river loaches)
 224 Subseries: Characiphysa
 225 Order: Characiformes (characins)
 226 Suborder: Citharinoidei
 227 Family: Citharinidae (lutefishes)
 228 Suborder: Characoidei
 229 Superfamily: Parodontoidea
 230 Family: Parodontidae (scrapetooths)
 231 Superfamily: Anostomoidea
 232 Family: Curimatidae (toothless characins)
 233 Family: Anostomidae (toothed headstanders)
 234 Family: Chilodontidae (headstanders)
 235 Superfamily: Crenuchoidea
 236 Family: Crenuchidae (south american darters)
 237 Superfamily: Hemiodontoidea
 238 Family: Hemiodontidae (halfteeths)
 239 Superfamily: Alestioidea
 240 Family: Alestidae (african tetras)
 241 Superfamily: Characoidea
 242 Family: Gasteropelecidae (freshwater hatchetfishes)
 243 Family: Characidae (characids, characins)
 244 Superfamily: Cynodontoidea
 245 Family: Acestrorhynchidae (acestrorhynchids)
 246 Family: Cynodontidae (cynodontids)
 247 Superfamily: Erythrinioidea
 248 Family: Erythrinidae (trahiras)
 249 Family: Lebiasinidae (pencil fishes)
 250 Family: Ctenoluciidae (pike-characids)



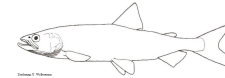
251 Family: Hepsetidae (african pikes)
 252 Subseries: Siluriphysi
 253 Order: Siluriformes (catfishes)
 254 Suborder: Siluroidei
 255 Superfamily: Diplomystoidea
 256 Family: Diplomystidae (velvet catfishes)
 257 Superfamily: Cetopsoidea
 258 Family: Cetopsidae (whale catfishes)
 259 Family: Helogenidae (helogenid catfishes) [position uncertain]
 260 Superfamily: Loricarioidea
 261 Family: Amphiliidae (loach catfishes)
 262 Family: Trichomycteridae (pencil-, parasitic catfishes)
 263 Family: Callichthyidae (callichthyid armored catfishes)
 264 Family: Scoloplacidae (spiny dwarf catfishes)
 265 Family: Astroblepidae (naked sucker-mouth catfishes)
 266 Family: Loricariidae (armored catfishes)
 267 Superfamily: Sisoroidea
 268 Family: Amblycipitidae (torrent catfishes)
 269 Family: Akysidae (stream catfishes)
 270 Family: Parakysidae (parakysid catfishes)
 271 Family: Sisoridae (sisorid catfishes)
 272 Family: Erethistidae (south asian river catfishes)
 273 Family: Aspredinidae (banjo catfishes)
 274 Superfamily: Pseudopimelodoidea
 275 Family: Pseudopimelodidae (bumblebee catfishes)
 276 Superfamily: Heptapteroidea
 277 Family: Heptapteridae (heptapterids, three-barbled catfishes)
 278 Superfamily: Cranoglanidoidea
 279 Family: Cranoglanididae (armorhead catfishes)
 280 Superfamily: Ictaluroidea
 281 Family: Ictaluridae (north american freshwater catfishes)
 282 Superfamily: Doradoidea
 283 Family: Mochokidae (squeakers, upside-down catfishes)
 284 Family: Doradidae (thorny catfishes)
 285 Family: Auchenipteridae (driftwood catfishes)
 286 Family: Ageneiosidae (bottlenose catfishes) [position uncertain]
 287 Superfamily: Siluroidea
 288 Family: Siluridae (freshwater catfishes, sheatfishes)
 289 Family: Malapteruridae (electric catfishes)
 290 Family: Chacidae (squarehead-, angler catfishes)
 291 Family: Plotosidae (eeltail catfishes)
 292 Family: Clariidae (airbreathing catfishes)
 293 Family: Heteropneustidae [= Saccobanchidae] (airsac catfishes)
 294 Superfamily: Bagroidea
 295 Family: Claroteidae (claroteid catfishes) [position uncertain]
 296 Family: Ariidae (sea catfishes)
 297 Family: Schilbeidae (schilbid catfishes)
 298 Family: Pangasiidae (shark catfishes)
 299 Family: Bagridae (bagrid catfishes)
 300 Family: Olyridae (lobtail catfishes)



301 Family: Pimelodidae (long-whiskered catfishes)
 302 Family: Hypophthalmidae (loweye catfishes) [position uncertain]
 303 Order: Gymnotiformes (american knifefishes)
 304 Suborder: Gymnotoidei
 305 Family: Gymnotidae (naked-back knifefishes)
 306 Family: Electrophoridae (electric knifefishes) [position uncertain]
 307 Suborder: Sternopygoidei
 308 Superfamily: Rhamphichthyoidea
 309 Family: Rhamphichthyidae (sand knifefishes)
 310 Family: Hypopomidae (bluntnose knifefishes)
 311 Superfamily: Apteronotoidea
 312 Family: Sternopygidae (glass knifefishes)
 313 Family: Apteronotidae (ghost knifefishes)
 314 Subcohort: Euteleostei (perfected bony fishes)
 315 Infracohort: Protacanthopterygii (pre-spiny-rayed fishes)
 316 Order: Osmeriformes (smelts)
 317 Suborder: Argentinoidei
 318 Family: Argentinidae (argentinians, herring smelts)
 319 Family: Opisthoproctidae (barreleyes, spookfishes)
 320 Family: Microstomatidae (pencilsmelts)
 321 Family: Bathylagidae (deep-sea smelts)
 322 Suborder: Alepocephaloidei
 323 Family: Searsiidae [= Platyproctidae] (tubeshoulders)
 324 Family: Leptoichthyidae (leptoichthyids)
 325 Family: Alepocephalidae (slickheads)
 326 Suborder: Osmeroidei
 327 Superfamily: Osmeroidea
 328 Family: Osmeridae (smelts)
 329 Family: Plecoglossidae (ayu fishes)
 330 Family: Salangidae (icefishes, noodlefishes)
 331 Suborder: Galaxioidei
 332 Superfamily: Galaxioidea
 333 Family: Retropinnidae (new zealand smelts)
 334 Family: Galaxiidae (galaxiids)
 335 Family: Lepidogalaxiidae (salamanderfishes)
 336 Order: Salmoniformes (trouts)
 337 Family: Salmonidae (salmonids)
 338 Infracohort: Neognathi (modern jawfishes)
 339 Order: Esociformes (pikes)
 340 Family: Esocidae (pikes)
 341 Family: Umbridae (mudminnows)
 342 Section: Neoteleostei (modern bony fishes)
 343 Superorder: Stenopterygii ("slender-fins")
 344 Order: Stomiiformes [= Stomiiformes] (dragonfishes)
 345 Suborder: Stomiatoidei
 346 Family: Gonostomatidae (bristlemouths)
 347 Family: Sternoptychidae (marine hatchetfishes)
 348 Suborder: Photichthyoidei
 349 Family: Photichthyidae [= Phosichthyidae] (lightfishes)
 350 Family: Stomiidae (barbeled dragonfishes)



Gymnotiformes



Osmeriformes



Salmoniformes



Esociformes



Stomiiformes

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- Subsection: Eurypterygii
 - Infrasession: Cyclosquamata ("cycloid-scaled fishes")
 - Superorder: Ateleopodomorpha
 - Order: Ateleopiformes (jellynose fishes)
 - Family: Ateleopodidae (jellynose fishes)
 - Order: Aulopiformes (lizardfishes)
 - Suborder: Synodontoidei
 - Family: Paraulopidae (cucumber fishes)
 - Family: Aulopidae (aulopus)
 - Family: Pseudotrichonotidae (sanddiving lizardfishes)
 - Family: Synodontidae (lizardfishes)
 - Suborder: Chlorophthalmoidei
 - Family: Bathysauroididae (largescale deepsea lizardfishes)
 - Family: Chlorophthalmidae (greeneyes)
 - Family: Notosudidae (waryfishes)
 - Family: Ipnopidae (deep sea tripod fishes)
 - Suborder: Alepisauridae
 - Family: Scopelarchidae (pearleyes)
 - Family: Evermannellidae (sabertooth fishes)
 - Family: Alepisauridae (lancetfishes)
 - Family: Omosudidae (hammerjaws)
 - Family: Paralepididae (barracudinas)
 - Family: Anotopteridae (daggertooths)
 - Suborder: Giganturoidei
 - Family: Bathysauridae (deepsea lizardfishes)
 - Family: Giganturidae (telescopefishes)
 - Infrasession: Ctenosquamata ("ctenoid-scaled fishes")
 - Superorder: Scopelomorpha
 - Order: Myctophiformes (lanternfishes)
 - Family: Neoscopelidae (blackchins)
 - Family: Myctophidae (lanternfishes)
 - Order: Polymixiiformes (beardfishes)
 - Family: Polymixiidae (beardfishes)
 - Superorder: Paracanthopterygii ("pseudo-spiny-rayed fishes")
 - Order: Percopsiformes (trout-perches)
 - Suborder: Percopsoidei
 - Family: Percopsidae (trout-perches)
 - Suborder: Aphredoderidae
 - Family: Aphredoderidae (pirate perches)
 - Family: Amblyopsidae (cavefishes)
 - Order: Batrachoidiformes (toadfishes)
 - Family: Batrachoididae (toadfishes)
 - Order: Lophiiformes (anglerfishes)
 - Suborder: Lophioidei
 - Family: Lophiidae (goosefishes)
 - Suborder: Antennarioidei
 - Family: Antennariidae (frogfishes)
 - Family: Tetrabrachiidae (four-armed frogfishes)
 - Family: Lophichthyidae (lophichthyid frogfishes)
 - Family: Brachionichthyidae (handfishes)



Ateleopiformes



Aulopiformes



Myctophiformes



Polymixiiformes



Percopsiformes

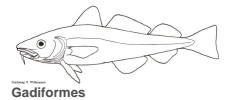


Lophiiformes

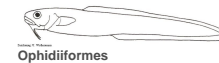


Batrachoidiformes

401 Suborder: Chaunacoidei
 402 Superfamily: Chaunacioidea
 403 Family: Chaunacidae (sea toads)
 404 Suborder: Ogcocephaloidei
 405 Superfamily: Ogcocephaloidea
 406 Family: Ogcocephalidae (batfishes)
 407 Suborder: Ceratoidei
 408 Superfamily: Ceratioidea
 409 Family: Caulophrynidae (fanfins)
 410 Family: Neoceratiidae (toothed seadevils)
 411 Family: Melanocetidae (black seadevils)
 412 Family: Himantolophidae (footballfishes)
 413 Family: Diceratiidae (double anglers)
 414 Family: Oneirodidae (dreamers)
 415 Family: Thaumathichthyidae (wolftrap anglers)
 416 Family: Centrophrynidae (deep-sea anglerfishes)
 417 Family: Ceratiidae (seadevils)
 418 Family: Gigantactinidae (whipnose anglers)
 419 Family: Linophrynidae (leftvents)
 420 Order: Gadiformes (cods)
 421 Suborder: Muraenolepoidei
 422 Family: Muraenolepididae (eel cods)
 423 Suborder: Macrouroidei
 424 Family: Macrouridae [= Coryphaenoididae] (grenadiers, rattails)
 425 Suborder: Gadoidei
 426 Family: Moridae (morid cods)
 427 Family: Melanonidae (melanonids)
 428 Family: Bregmacerotidae (codlets)
 429 Family: Euclichthyidae (eucla cods)
 430 Family: Gadidae (cods, haddocks)
 431 Family: Lotidae (hakes, burbots)
 432 Family: Phycidae (phycid hakes)
 433 Family: Merlucciidae (merluccid hakes)
 434 Order: Ophidiiformes (cusk-eels)
 435 Suborder: Ophidioidei
 436 Family: Carapidae (pearlfishes)
 437 Family: Ophidiidae (cusk-eel)
 438 Suborder: Bythitoidei
 439 Family: Bythitidae (viviparous brotulas)
 440 Family: Aphyonidae (blind cusk-eels)
 441 Family: Parabrotulidae (false brotulas)
 442 Superorder: Acanthopterygii
 443 Series: Atherinomorpha (silversides and relatives)
 444 Order: Atheriniformes (silversides)
 445 Suborder: Atherinoidei
 446 Family: Atherinidae (silversides)
 447 Family: Atherinopsidae (new world silversides)
 448 Family: Notocheiridae [= Isonidae] (surf sardines)
 449 Family: Phallosthetidae (priapiumfishes)
 450 Family: Dentatherinidae (tusked silversides)



Gadiformes

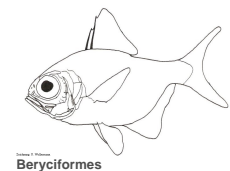
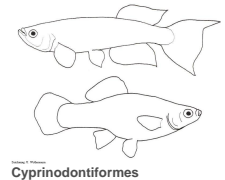


Ophidiiformes



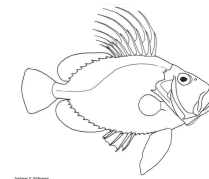
Atheriniformes

451 Suborder: **Melanotaenioidei**
 452 Family: **Bedotiidae** (madagascar rainbowfishes)
 453 Family: **Melanotaeniidae** (rainbowfishes, blueeyes)
 454 Family: **Pseudomugilidae** (blue eyes)
 455 Family: **Telmatherinidae** (sailfin silversides)
 456 Order: **Beloniformes** (needlefishes)
 457 Suborder: **Adrianichthyoidei**
 458 Family: **Adrianichthyidae** (ricefishes)
 459 Suborder: **Belonoidei [= Exocoetoidei]**
 460 Superfamily: **Exocoetoidea**
 461 Family: **Exocoetidae** (flying fishes)
 462 Family: **Hemiramphidae** (halfbeaks)
 463 Superfamily: **Scomberesocoidea**
 464 Family: **Belonidae** (needlefishes)
 465 Family: **Scomberesocidae** (sauries)
 466 Order: **Cyprinodontiformes** (killifishes)
 467 Suborder: **Aplocheiloidei**
 468 Family: **Aplocheilidae** (asian rivulines)
 469 Family: **Nothobranchiidae** (african rivulines)
 470 Family: **Rivulidae** (new world rivulines)
 471 Suborder: **Cyprinodontoidei**
 472 Superfamily: **Funduloidea**
 473 Family: **Profundulidae** (middle american killifishes)
 474 Family: **Goodeidae** (splitfins)
 475 Family: **Fundulidae** (topminnows, killifishes)
 476 Superfamily: **Valencioidea**
 477 Family: **Valenciidae** (Valencia toothcarps)
 478 Superfamily: **Cyprinodontoidea**
 479 Family: **Cyprinodontidae** (pupfishes)
 480 Superfamily: **Poecilioidea**
 481 Family: **Anablepidae** (four-eyed fishes, onesided livebearers, white-eyes)
 482 Family: **Poeciliidae** (poeciliids)
 483 Series: **Percomorpha** (perches and relatives)
 484 Order: **Stephanoberyciformes** (pricklefishes)
 485 Superfamily: **Stephanoberycoidea**
 486 Family: **Melamphaidae** (bigscale fishes, ridgeheads)
 487 Family: **Stephanoberycidae** (pricklefishes)
 488 Family: **Hispidoberycidae** (spiny-scale pricklefishes)
 489 Superfamily: **Cetomimoidea**
 490 Family: **Gibberichthyidae** (gibberfishes)
 491 Family: **Rondeletiidae** (redmouth whalefishes)
 492 Family: **Barbourisiidae** (velvet whalefishes)
 493 Family: **Cetomimidae** (flabby whalefishes)
 494 Family: **Mirapinnidae** (hairyfishes, tapetails, ribbonbearers)
 495 Family: **Megalomycteridae** (largenose fishes)
 496 Order: **Beryciformes** (alfonso squirrelfishes)
 497 Suborder: **Trachichthyoidei**
 498 Superfamily: **Anoplogastroidea**
 499 Family: **Anoplogasteridae** (fangtooths)
 500 Family: **Diretmidae** (spinyfins)

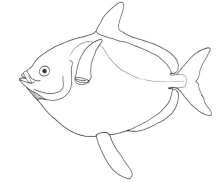


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- Superfamily: Trachichthyoidea
 - Family: Anomalopidae (lanterneye fishes)
 - Family: Monocentridae (pinecone fishes)
 - Family: Trachichthyidae (slimeheads)
- Suborder: Berycoidei
 - Family: Berycidae (alfonsinos)
- Suborder: Holocentroidei
 - Family: Holocentridae (squirrelfishes, soldierfishes)
- Order: Zeiformes (dories)
 - Family: Cyttidae (lookdown dories) [position uncertain]
 - Family: Oreosomatidae (oreos)
 - Family: Parazenidae (parazens)
 - Family: Macrurocyttidae [= Zenionidae] (armoreye dories) [position uncertain]
 - Family: Grammicolepidae (grammicolepidids)
 - Family: Zeidae (dories)
- Order: Lampridiformes (opahs)
 - Family: Lampridae (opahs)
 - Family: Veliferidae (velifers)
 - Family: Lophotidae (crestfishes)
 - Family: Trachipteridae (ribbonfishes)
 - Family: Regalecidae (oarfishes)
 - Family: Stylephoridae (tube-eyes, thread-nails)
 - Family: Radiicephalidae (tapertails)
- Order: Gasterosteiformes (sticklebacks)
 - Suborder: Gasterosteroidei
 - Family: Hypoptychidae (sand eels)
 - Family: Aulorhynchidae (tubesnouts)
 - Family: Gasterosteidae (sticklebacks, tubesnouts)
 - Family: Indostomidae (armored sticklebacks)
 - Suborder: Syngnathoidei
 - Superfamily: Pegasoidea
 - Family: Pegasidae (seamoths)
 - Superfamily: Syngnathoidea
 - Family: Solenostomidae (ghost pipefishes)
 - Family: Syngnathidae (pipefishes, seahorses)
 - Superfamily: Aulostomoidea
 - Family: Aulostomidae (trumpetfishes)
 - Family: Fistulariidae (cornetfishes)
 - Superfamily: Centriscoidea
 - Family: Centriscidae (snipefishes, shrimpfishes)
- Order: Synbranchiformes (swamp eels)
 - Suborder: Synbranchoidei
 - Family: Synbranchidae (swamp-eels)
 - Suborder: Mastacembeloidei
 - Family: Chaudhuriidae (earthworm eels)
 - Family: Mastacembelidae (spiny eels)
- Order: Scorpaeniformes (mail-cheeked fishes)
 - Suborder: Scorpaenoidei
 - Family: Scorpaenidae (scorpionfishes, rockfishes)
 - Family: Sebastidae (rockfishes, rockcods, thornyheads)



Zeiformes



Lampridiformes



Gasterosteiformes

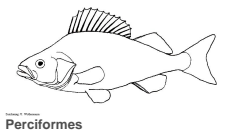


Synbranchiformes



Scorpaeniformes

551 Family: **Setarchidae** (deep sea bristly scorpionfishes) [position uncertain]
 552 Family: **Neosebastidae** (gurnard scorpionfishes) [position uncertain]
 553 Family: **Apistidae** (wasp scorpionfishes) [position uncertain]
 554 Family: **Tetrarogidae** (wasp fishes)
 555 Family: **Synanceiidae** (stonefishes)
 556 Family: **Caracanthidae** (orbicular velvetfishes)
 557 Family: **Aploactinidae** (velvetfishes)
 558 Family: **Pataecidae** (australian prowfishes)
 559 Family: **Gnathanacantidae** (red velvetfishes)
 560 Family: **Congiopodidae** (racehorses, pigfishes)
 561 Suborder: **Platycephaloidei**
 562 Family: **Triglidae** (searobins)
 563 Family: **Peristediidae** (armored searobins, armored gurnards)
 564 Family: **Bembridae** (deep-water flatheads)
 565 Family: **Plectrogenidae** (stinger flatheads) [position uncertain]
 566 Family: **Parabembridae** (sprat-like flatheads) [position uncertain]
 567 Family: **Platycephalidae** (flatheads)
 568 Family: **Hoplichthyidae** (ghost flatheads)
 569 Suborder: **Anoplopomatoidei**
 570 Family: **Anoplopomatidae**
 571 Suborder: **Hexagrammoidei**
 572 Family: **Hexagrammidae** (greenlings)
 573 Suborder: **Zaniolepidoidae** [position uncertain]
 574 Family: **Zaniolepididae** [position uncertain] (combfishes)
 575 Suborder: **Normanichthyoidei**
 576 Family: **Normanichthyidae** (barehead scorpionfishes)
 577 Suborder: **Cottoidei**
 578 Superfamily: **Cottoidea**
 579 Family: **Rhamphocottidae** (grunt sculpins)
 580 Family: **Ereuniidae** (deepwater sculpins)
 581 Family: **Cottidae** (sculpins)
 582 Family: **Cottocomephoridae** (bighead sculpins)
 583 Family: **Comephoridae** (baikal oilfishes)
 584 Family: **Abyssocottidae** (deep-water sculpins)
 585 Family: **Hemitripteridae** (sea ravens, sailfin sculpins)
 586 Family: **Agonidae** (poachers)
 587 Family: **Psychrolutidae** (fatheads)
 588 Family: **Bathylutichthyidae** (antarctic sculpins)
 589 Superfamily: **Cyclopteroidea**
 590 Family: **Cyclopteridae** (lumpfishes)
 591 Family: **Liparidae** (snailfishes)
 592 Suborder: **Dactylopteroidei** [also = order Dactylopteriformes (flying gurnards)]
 593 Family: **Dactylopteridae** [= **Cephalacanthidae**] (flying gurnards)
 594 Order: **Perciformes** (perches)
 595 Suborder: **Percoidei**
 596 Superfamily: **Percoidea**
 597 Family: **Centropomidae** (snooks)
 598 Family: **Ambassidae** [= **Chandidae**] (asiat. glassfishes)
 599 Family: **Latidae** (lates perches)
 600 Family: **Moronidae** (temperate basses)

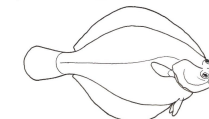


601	Family: Percichthyidae (temperate perches)
602	Family: Perciliidae (southern basses)
603	Family: Acropomatidae (lanternbellies, temperate ocean-basses)
604	Family: Symphysanodontidae (slopefishes)
605	Family: Polyprionidae (wreckfishes)
606	Family: Serranidae (sea basses, groupers, fairy basslets)
607	Family: Centrogeniidae (false scorpionfishes)
608	Family: Ostracoberycidae (shellskin alfonosinos)
609	Family: Callanthiidae (splendid perches, groppos)
610	Family: Pseudochromidae (dottybacks)
611	Family: Grammatidae [= Grammidae] (basslets)
612	Family: Plesiopidae (roundheads)
613	Family: Notograptidae (bearded blennies) [position uncertain]
614	Family: Opistognathidae (jawfishes)
615	Family: Dinopercidae (cavebasses)
616	Family: Banjosidae (banjofishes)
617	Family: Centrarchidae (sunfishes)
618	Family: Percidae (perches)
619	Family: Priacanthidae (bigeyes, catalufas)
620	Family: Apogonidae (cardinalfishes)
621	Family: Epigonidae (deep-water cardinalfishes)
622	Family: Sillaginidae (smelt-whittings)
623	Family: Malacanthidae (tilefishes)
624	Family: Lactariidae (false trevallies)
625	Family: Dinolestidae (long-finned pikes)
626	Family: Scombropidae (gnomefishes)
627	Family: Pomatomidae (bluefishes)
628	Family: Nematistiidae (roosterfishes)
629	Family: Coryphaenidae (dolphinfishes)
630	Family: Rachycentridae (cobias)
631	Family: Echeneididae [= Echeneidae] (remoras, sharksuckers)
632	Family: Carangidae (jacks, pompanos)
633	Family: Menidae (moonfishes)
634	Family: Leiognathidae (slimys, slipmouths, ponyfishes)
635	Family: Bramidae (pomfrets)
636	Family: Caristiidae (manefishes)
637	Family: Emmelichthyidae (rovers)
638	Family: Lutjanidae (snappers)
639	Family: Caesionidae (fusiliers)
640	Family: Lobotidae (tripletails)
641	Family: Datnioididae [= Coiidae] (tigerperches)
642	Family: Gerreidae (mojarras)
643	Family: Haemulidae [= Pomadasysidae] (grunts)
644	Family: Inermiidae (bonnetmouths)
645	Family: Nemipteridae (threadfin breams, whiptail breams)
646	Family: Lethrinidae (emperors, scavengers)
647	Family: Sparidae (porgies)
648	Family: Centracanthidae (picarel porgies)
649	Family: Polynemidae (threadfins)
650	Family: Sciaenidae (drums, croakers)

651	Family: Mullidae (goatfishes)
652	Family: Pempheridae (sweepers)
653	Family: Glaucosomatidae (pearl perches)
654	Family: Leptobramidae (beachsalmons)
655	Family: Bathyclupeidae (deep sea scalyfins)
656	Family: Monodactylidae (moonyfishes, fingerfishes)
657	Family: Toxotidae (archerfishes)
658	Family: Arripidae (australasian salmons, kahawai)
659	Family: Dichistiidae [= Coracinidae] (galjoen fishes)
660	Family: Kyphosidae (sea chubs)
661	Family: Parascorpididae (jutjaws)
662	Family: Drepaneidae (sicklefishes)
663	Family: Chaetodontidae (butterflyfishes)
664	Family: Pomacanthidae (angelfishes)
665	Family: Enoplosidae (oldwives)
666	Family: Pentacerotidae (armorheads)
667	Family: Nandidae (asian leaffishes)
668	Family: Polycentridae (Leaffishes)
669	Family: Teraponidae [= Terapontidae, Theraponidae] (grunters, tigerperches)
670	Family: Kuhliidae (flagtails, aholeholes)
671	Family: Oplegnathidae (knifejaws)
672	Superfamily: Cirrithoidea
673	Family: Cirrhitidae (hawkfishes)
674	Family: Chironemidae (kelpfishes)
675	Family: Aplodactylidae [= Haplodactylidae] (marblefishes)
676	Family: Cheilodactylidae (morwongs)
677	Family: Latrididae [= Latridae] (trumpeters)
678	Superfamily: Cepoloidea
679	Family: Cepolidae (bandfishes)
680	Suborder: Elasmatoidei
681	Family: Elasmomatidae [= Elasmomidae] (pigmy sunfishes)
682	Suborder: Mugiloidei
683	Family: Mugilidae (mullets)
684	Suborder: Labroidei
685	Family: Cichlidae (cichlids)
686	Family: Embiotocidae (surfperches)
687	Family: Pomacentridae (damselfishes)
688	Family: Labridae (wrasses)
689	Family: Odacidae (cales, weed-whittings)
690	Family: Scaridae [= Callyodontidae] (parrotfishes)
691	Suborder: Zoarcoidei
692	Family: Bathymasteridae (ronquils)
693	Family: Zoarcidae (eelpouts)
694	Family: Stichaeidae (pricklebacks)
695	Family: Cryptacanthodidae (wrymouths)
696	Family: Pholidae (gunnels)
697	Family: Anarhichadidae (wolffishes)
698	Family: Ptilichthyidae (quillfishes)
699	Family: Zaproridae (prowfishes)
700	Family: Scytalinidae (graveldivers)

701	Suborder: Notothenioidei
702	Family: Bovichthyidae [= Bovichtidae] (thornfishes, temperate icefishes)
703	Family: Pseudaphritidae (catadromous icefishes)
704	Family: Eleginopidae (Patagonian blennies)
705	Family: Nototheniidae (cod icefishes)
706	Family: Harpagiferidae (spiny plunderfishes)
707	Family: Artedidraconidae (barbled plunderfishes)
708	Family: Bathydraconidae (antarctic dragonfishes)
709	Family: Channichthyidae [= Chaenichthyidae] (crocodile icefishes)
710	Suborder: Trachinoidei
711	Family: Chiasmodontidae (swallowers)
712	Family: Champsodontidae (gapers)
713	Family: Trichodontidae (sandfishes)
714	Family: Parapercidae [= Pinguipedidae] (sandperches)
715	Family: Trichonotidae (sanddivers)
716	Family: Creediidae (sandburrowers)
717	Family: Percophidae (duckbills)
718	Family: Leptoscopidae (southern sandfishes)
719	Family: Ammodytidae (sand lances)
720	Family: Trachinidae (weeverfishes)
721	Family: Uranoscopidae (stargazers)
722	Suborder: Pholidichthyoidei
723	Family: Pholidichthyidae (convict blennies)
724	Suborder: Blennioidei
725	Family: Tripterygiidae (triplefin blennies)
726	Family: Dactyloscopidae (sand stargazers)
727	Family: Blenniidae (combtoothblennies)
728	Family: Clinidae (kelp blennies)
729	Family: Labrisomidae (labrisomids)
730	Family: Chaenopsidae (pike-, tube-, flagblennies)
731	Suborder: Icosteioidei
732	Family: Icosteidae (ragfishes)
733	Suborder: Gobiesocoidei
734	Family: Gobiesocidae (clingfishes, singleslits)
735	Suborder: Callionymoidei
736	Family: Callionymidae (dragonets)
737	Family: Draconettidae (slope dragonets)
738	Suborder: Gobioidaei
739	Family: Rhyacichthyidae (loach gobies)
740	Family: Odontobutidae (freshwater sleepers)
741	Family: Eleotridae (sleepers)
742	Family: Xenisthmidae (collared wrigglers)
743	Family: Kraemeridae (sand darters, sandfishes, sandgobies)
744	Family: Gobiidae (gobies)
745	Family: Microdesmidae [= Cerdalidae] (wormfishes)
746	Family: Ptereleotridae (dartfishes, firefishes)
747	Family: Schindleriidae (infantfishes)
748	Suborder: Kurtoidei
749	Family: Kurtidae (nurseryfishes, forehead brooders)
750	Suborder: Acanthuroidei

751 Family: **Ephippidae** (spadefishes, batfishes)
 752 Family: **Scatophagidae** (scats)
 753 Family: **Siganidae** (rabbitfishes)
 754 Family: **Luvaridae** (louvar)
 755 Family: **Zanclidae** (moorish idols)
 756 Family: **Acanthuridae** (surgeonfishes, tangs, unicornfishes)
 757 Suborder: **Scombrolabracoidei**
 758 Family: **Scombrolabracidae** (longfin escolar)
 759 Suborder: **Scombroidei**
 760 Family: **Gempylidae** (snake mackerels)
 761 Family: **Trichiuridae** (cutlassfishes)
 762 Family: **Scombridae** (mackerels, tunas, bonitos)
 763 Family: **Xiphiidae** (swordfishes)
 764 Family: **Istiophoridae** (billfishes)
 765 Suborder: **Sphyraenoidei**
 766 Family: **Sphyraenidae** (barracudas)
 767 Suborder: **Stromateoidei**
 768 Family: **Amarsipidae** (amarsipas)
 769 Family: **Centrolophidae** (medusafishes)
 770 Family: **Nomeidae** (driftfishes)
 771 Family: **Ariommatidae** (ariommatids)
 772 Family: **Tetragonuridae** (squaretails)
 773 Family: **Stromateidae** (butterishes)
 774 Suborder: **Anabantoidei**
 775 Family: **Anabantidae** (climbing gouramies)
 776 Family: **Helostomidae** (kissing gouramies)
 777 Family: **Osphronemidae** (gouramies)
 778 Suborder: **Channoidei**
 779 Family: **Channidae** (snakeheads)
 780 Suborder: **Caproidei**
 781 Family: **Caproidae** (boarfishes)
 782 Order: **Pleuronectiformes** (flatfishes)
 783 Suborder: **Psettoidei**
 784 Family: **Psettidae** [= **Psettodidae**] (spiny turbots)
 785 Family: **Samaridae** (crested flounders)
 786 Suborder: **Pleuronectoidei**
 787 Superfamily: **Citharoidea**
 788 Family: **Citharidae** (largescale flounders)
 789 Superfamily: **Pleuronectoidea**
 790 Family: **Scophthalmidae** (turbots)
 791 Family: **Paralichthyidae** (large-tooth flounders, sand flounders)
 792 Family: **Pleuronectidae** (righteye flounders)
 793 Family: **Achiropsettidae** (southern flounders)
 794 Family: **Bothidae** (lefteye flounders)
 795 Suborder: **Soleoidei**
 796 Superfamily: **Soleoidea**
 797 Family: **Achiridae** (american soles)
 798 Family: **Soleidae** (soles)
 799 Family: **Cynoglossidae** (tonguefishes)
 800 Order: **Tetraodontiformes** [= **Plectognathi**] (plectognaths, pufferfishes)



Pleuronectiformes



Tetraodontiformes

801 Suborder: Balistoidei
802 Superfamily: Triacanthoidea
803 Family: Triacanthidae (triplespines)
804 Family: Triacanthodidae (spikefishes)
805 Superfamily: Balistoidea
806 Family: Balistidae (triggerfishes)
807 Family: Monacanthidae (filefishes)
808 Superfamily: Ostracioidea
809 Family: Aracanidae (deepwater boxfishes) [position uncertain]
810 Family: Ostraciidae [= Ostraciontidae] (boxfishes)
811 Suborder: Tetraodontoidei
812 Family: Triodontidae (three-toothed puffers)
813 Family: Tetraodontidae (puffers)
814 Family: Diodontidae (porcupinefishes, burrfishes)
815 Family: Molidae (molas, ocean sunfishes)

System compiled by Arne Hübner
Programming by Sönke von den Berg
Sketches by Ute Wollermann for each order can be found online on the [IchtSys-site](#).

System version: 2.0.0 - 14.12.2008
IchtSys version: 2.0.4 - 06.04.2009