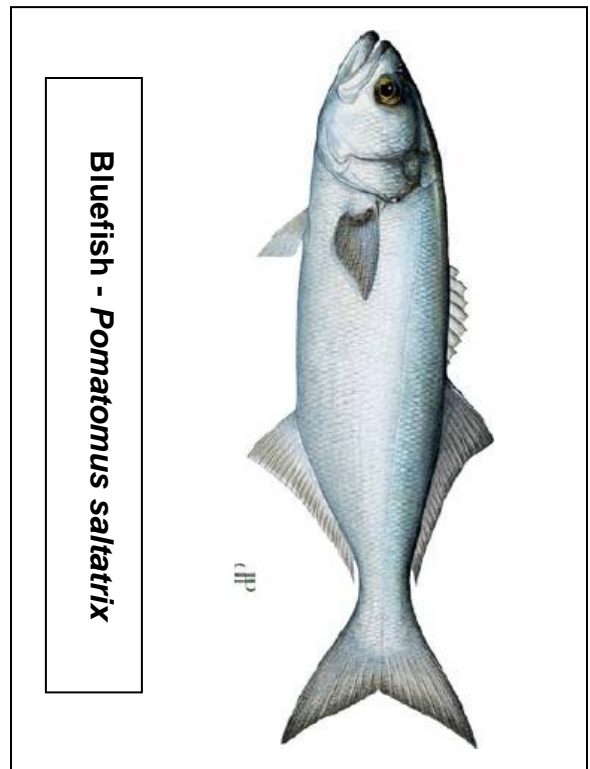
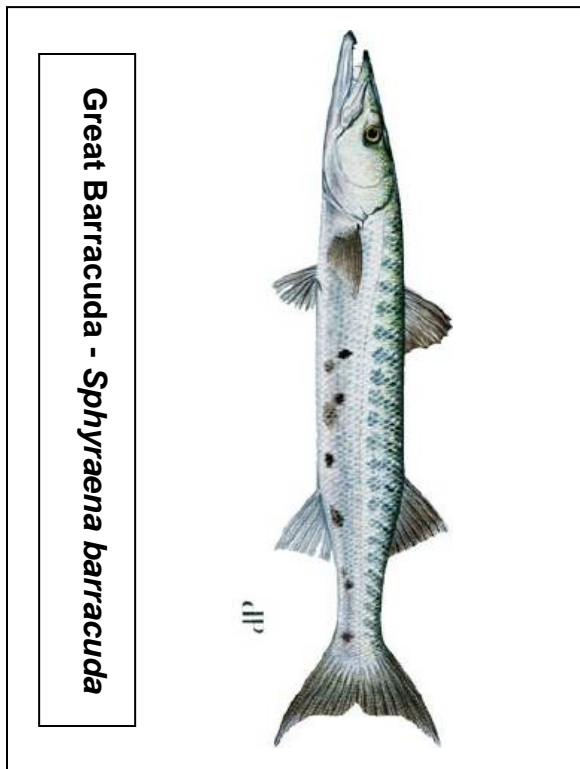
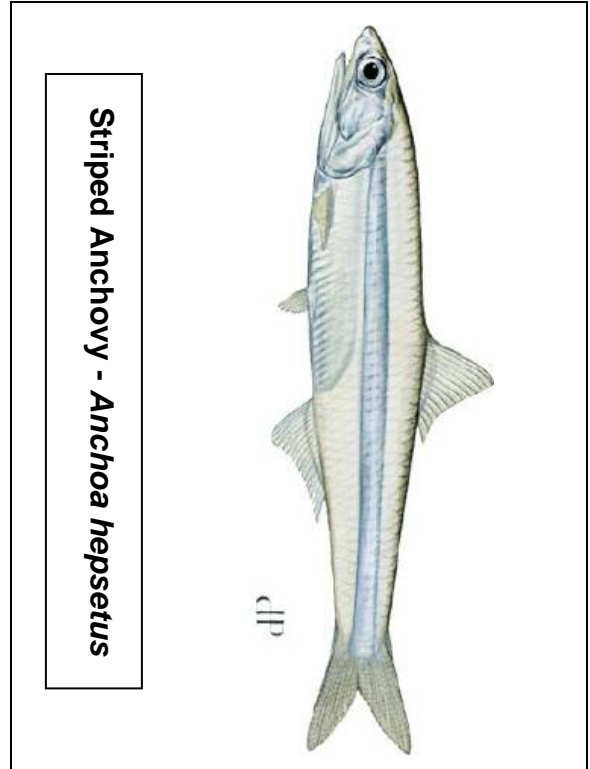
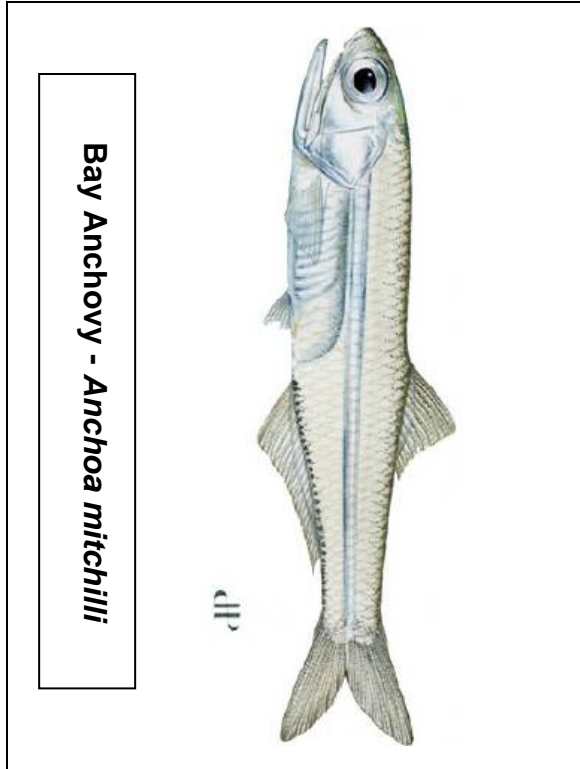


Pictures



## Descriptions

### ***Anchoa hepsetus* – ANCHOVIES**

**Description:** snout length somewhat less than eye diameter; silver stripe on body narrow - width less than eye diameter or snout length throughout; back greenish; some yellowish about the head; melanophores outline all dorsal scales, especially those behind the dorsal fin; dorsal fin begins above a point well in front of anal fin, and ends above front rays of anal fin; 14 to 17 dorsal fin rays (usually 16), 15 to 18 pectoral fin rays (usually 16 to 17), and 20 to 24 anal fin rays (usually 21 to 23)

**Size** to 15 cm (6 in.)

### ***Anchoa mitchilli* – ANCHOVIES**

**Description:** body relatively deep; head short; snout very short, only slightly overhanging mouth; silvery stripe narrow, often faint or absent toward front; stripe fades after death; body grayish, with few melanophores above; dorsal fin far back - the only U.S. species in which that fin begins above or only very slightly in front of anal fin; 11 to 14 (usually 12 to 13) pectoral fin rays; 23 to 31 (usually 24 to 29) anal fin rays

**Size:** to 10 centimeters (4 inches)

**Where found:** in shallow bays and estuaries, but found in water up to 120 feet; common in brackish waters

### ***Pomatomus saltatrix* – BLUEFISHES**

**Description:** color blue or greenish blue on back, sides silvery; mouth large; teeth prominent, sharp, and compressed; dorsal and anal fins nearly the same size; scales small; lateral line almost straight

**Similar fish:** blue runner, *C. crysos*

**Where found:** young usually inshore spring and summer, moving offshore to join adults fall and winter; strong migration of northeast Atlantic stock to Florida east coast in winter

**Size:** most west coast catches under 3 pounds, much larger on east coast

**Remarks:** travels in large schools, following schools of baitfish; cannibalistic; all members of a given school about the same size; spawning occurs offshore in spring and summer

### ***Sphyraena barracuda* – BARRACUDAS**

**Description:** gray, with greenish cast above, whitish below; many irregular small black blotches on lower side; 18 to 22 diagonal dark bars on upper side (not always evident); caudal fin dark with white tips; 75 to 87 lateral line scales; no fleshy tip on jaw

**Young:** dark stripe on side; stripe breaks into dark squarish blotches as fish grows

**Size:** to 6 ft and 106 lbs; reports of larger fish unverified

**Where found:** young live in inshore seagrass beds; adults range from inshore channels to open ocean

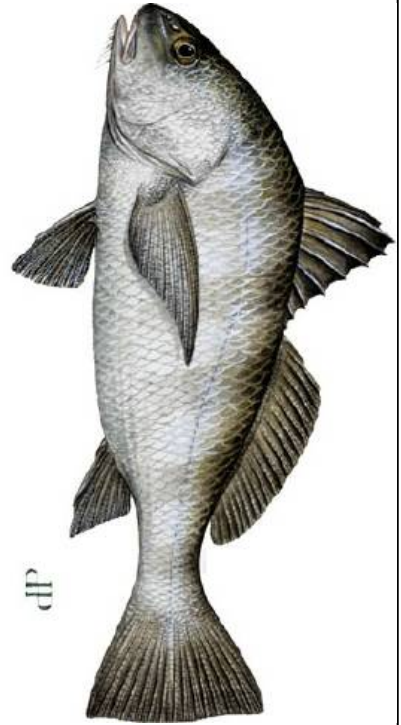
**Remarks:** flesh of smaller fish apparently not poisonous, but larger fish sometimes very toxic due to ciguatera; no safe, reliable way of recognizing toxic fish

Pictures

**Atlantic Croaker - *Micropogonias undulatus***



**Black Drum - *Pogonias cromis***



**Red Drum - *Sciaenops ocellatus***



**Spot - *Leiostomus xanthurus***



## Descriptions

### ***Pogonias cromis* – DRUMS**

**Description:** high arched back; 10 to 14 pairs of chin barbels; gray or black colored body in adults; young have 4 to 6 vertical bars; has cobblestone-like teeth capable of crushing oysters; scales large

**Similar fish:** red drum; the vertical bars on juvenile black drum are somewhat similar to those on sheepshead; and spadefish

**Where found:** inshore fish common to bays and lagoons; bottom dweller often found around oyster beds; also offshore

**Size:** common to 30 pounds

**Remarks:** largest member of the drum family; spawns nearshore in winter and early spring; feeds on oysters, mussels, crabs, shrimp, and occasionally fish; longevity to 35 or more years

### ***Micropogonias undulates* – DRUMS**

**Description:** inferior mouth; 3 to 5 pairs of small barbels on chin; silver-gray or bronze body with dark oblique wavy bars or lines; iridescent especially on head; preopercle strongly serrated

**Similar fish:** spot, *Leiostomus xanthurus* (no chin barbels with a dark blotch on shoulder)

**Size:** usually less than 2 pounds

**Where found:** generally found north of Tampa Bay on the west coast, and north of Cape Canaveral on the east coast; young fish found in estuaries; older fish (2 to 3 years) inhabit deep offshore waters during the winter months and move into bays and estuaries during the spring, summer, and fall

**Remarks:** during spawning becomes bronze or yellow in color; spawning apparently occurs offshore in fall; longevity 2 to 4 years

### ***Leiostomus xanthurus* – DRUMS**

**Description:** the only drum in our region with a distinctly forked caudal fin; bluish to brownish above; brassy on side; silvery to white below; distinct brownish spot on shoulder; 12 to 15 narrow, diagonal dark lines on upper body

**Size:** to 36 centimeter (14 inches)

**Remarks:** a popular pan fish

### ***Sciaenops ocellatus* – DRUMS**

**Other local names:** redfish

**Description:** chin without barbels; copper-bronze body, lighter shade in clear waters; one to many spots at base of tail (rarely no spots); mouth horizontal and opening downward; scales large

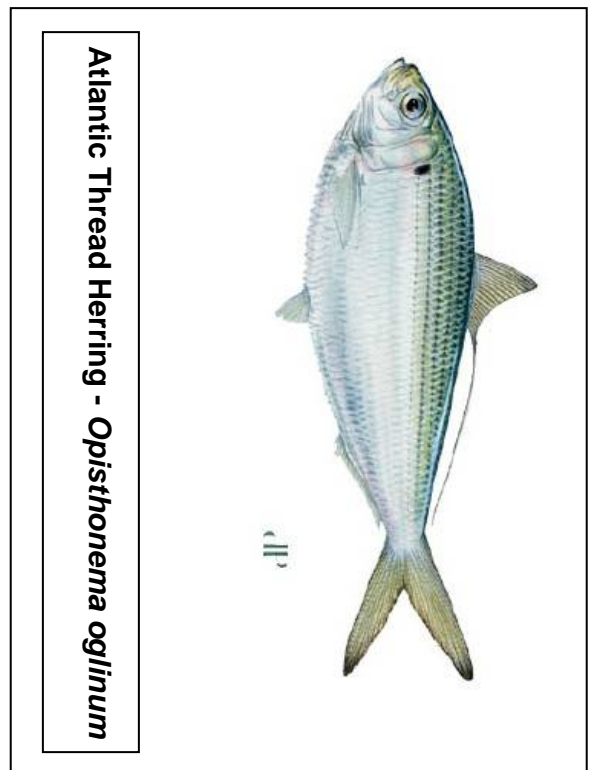
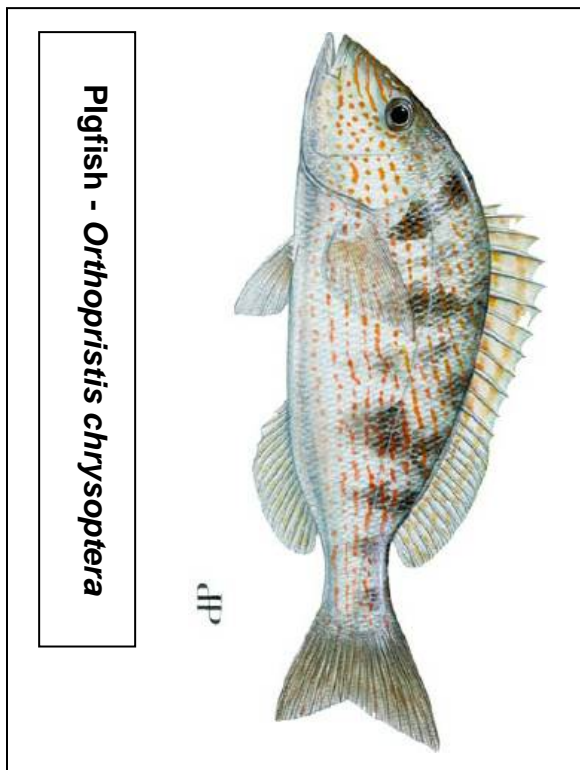
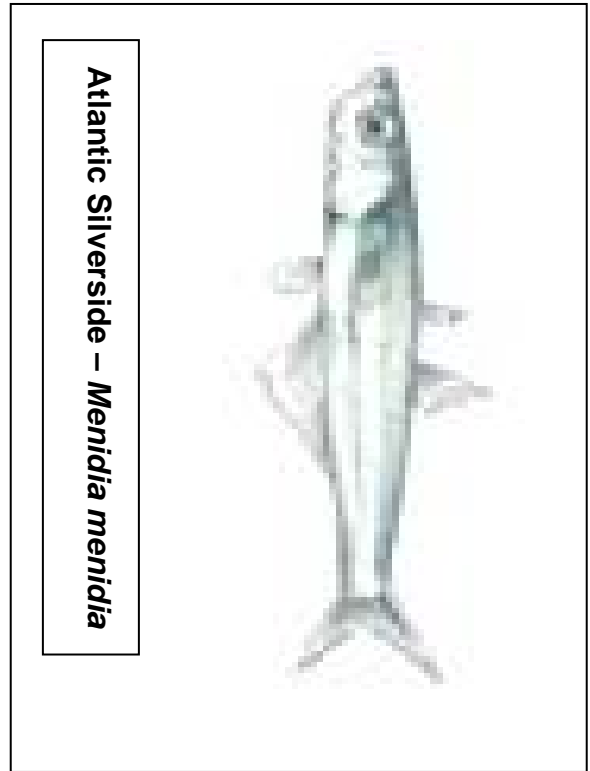
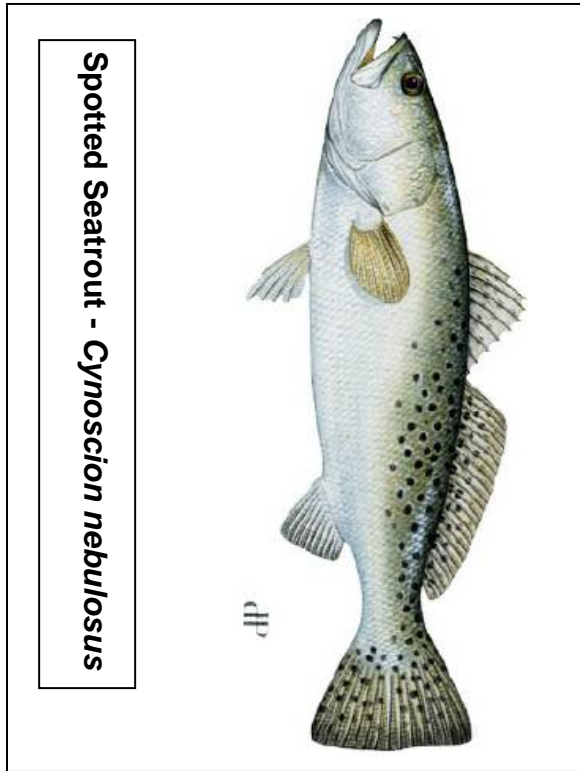
**Similar fish:** black drum, *Pogonias cromis*

**Where found:** juveniles are inshore fish, migrating out of the estuaries at about 30" (4 years) to join the spawning population offshore

**Size:** common to 20 pounds

**Remarks:** spawning occurs from August to November in nearshore waters; feeds on crustaceans, fish, and mollusks; longevity to 20 years or more

Pictures



## Descriptions

### ***Menidia menidia* – SILVERSIDES**

**Description:** Body firm and opaque, two dorsal fins, snout pointed, mouth small and oblique, silvery white ventrally, with bright silver mid lateral stripe, between 43 and 55 lateral scales, 23-25 anal fin rays.

**Where found:** Tidal creeks and grass flats in summer, deeper waters in winter. Spawns in intertidal or shallow estuarine waters.

**Size:** maximum 5 inches

### ***Cynoscion nebulosus* – DRUMS**

**Description:** dark gray or green above, with sky-blue tinges shading to silvery and white below; numerous distinct round black spots on back, extending to the dorsal fins and tail; no barbels; no scales on the soft dorsal fin; one or two prominent canine teeth usually present at tip of upper jaw

**Where found:** inshore and/or nearshore over grass, sand, and sandy mud bottoms; move into slow-moving or still, deep waters in cold weather

**Size:** common to 4 pounds on west coast, larger on east coast

**Remarks:** matures during first or second year and spawns inshore from March through November, often in association with seagrass beds; lives mainly in estuaries and moves only short distances

### ***Opisthonema oglinum* – HERRINGS**

**Other local names:** gizzard shad

**Description:** back dark blue/gray, sides silvery, belly white; small head

**Where found:** in salt water from Cape Cod to Brazil, including Gulf of Mexico

**Size:** up to 16"

**Remarks:** has scales on ridge of back before dorsal fin

### ***Orthopristis chrysoptera* – GRUNTS**

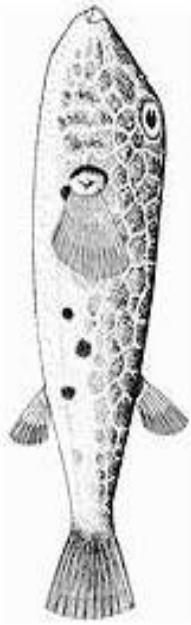
**Description:** gray, often with a bluish cast; many bronze to yellowish spots, dashes, and other small markings; mouth small, ending below front nostril

**Size:** to 38 centimeters (15 inches)

**Where found:** bay and banks; not on reefs in water less than 60 feet

Pictures

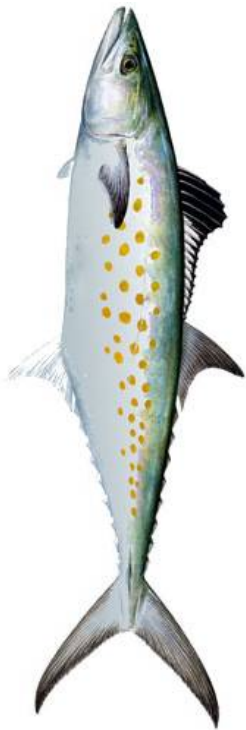
**Southern Puffer – *Sphoeroides nephelus***



**Striped Burrfish – *Chilomycterus schoepfi***



**Spanish Mackerel - *Scomberomorus maculatus***



**Crevalle Jack - *Caranx hippos***



## Descriptions

### ***Chilomycterus schoepfi* – PUFFERS**

**Description:** Oval, broad, slightly depressed; covered with stout, 3-rooted, immovable spines. Back green to olive green or brownish; upper sides with irregular, oblique, narrow to wide, black or brown lines; lower sides whitish; belly whitish or golden yellow; dark blotches with light halos at dorsal and anal fin bases and above and behind pectoral fin base. 1 tooth in each jaw, fused to form parrot-like beak. Pectoral and caudal fins well developed; dorsal and anal fins short-based.

**Where found:** shallow sea-grass beds in summer; to depths of 225 feet (69 m) in winter.

**Size:** to 10 inches

### ***Sphoeroides nephelus* – PUFFERS**

**Description:** Brown body, paler below, adorned with a variety of darker and lighter spots and blotches and often pale tan rings and semicircles. Larger dark splotches along the lower sides are variable and dark slashes may occur on the lower cheek. Dark interorbital (between the eyes) bar and a distinctive dark spot at the axil of the pectoral fins. Mature, ripe males may be covered with small, bright red or orange spots.

**Similar fish:** Northern puffer, *S. maculatus*; these congeners are similar in appearance, although southern puffers lack the dark spots and diffuse gray bars characteristic of the northern puffer

**Where found:** benthic inhabitant of bays, estuaries, and protected waters to a depth of 11 m, and is frequently encountered in and around seagrass beds

**Size:** commonly reach a length of 20 cm

### ***Caranx hippos* – JACKS**

**Description:** color bluish-green to greenish-gold back and silvery or yellowish belly; soft dorsal and anal fins almost identical in size; prominent black spot on operculum (gill cover); black spot at the base of each pectoral fin; no scales on throat

**Similar fish:** other *Caranx*

**Where found:** common to both INSHORE waters and the open sea

**Size:** usually 3 to 5 pounds

**Remarks:** tolerates a wide range of salinities; schools corner a pod of baitfish at the surface and feed with commotion that can be seen for great distances; feeds mainly on small fish; peak spawning occurs offshore from March through September

### ***Scomberomorus maculatus* - MACKERELS**

**Description:** color of back green, shading to silver on sides, golden yellow irregular spots above and below lateral line; front of dorsal fin black; lateral line curves gently to base of tail

**Similar Fish:** cero, *S. regalis*; king mackerel, *S. cavalla*

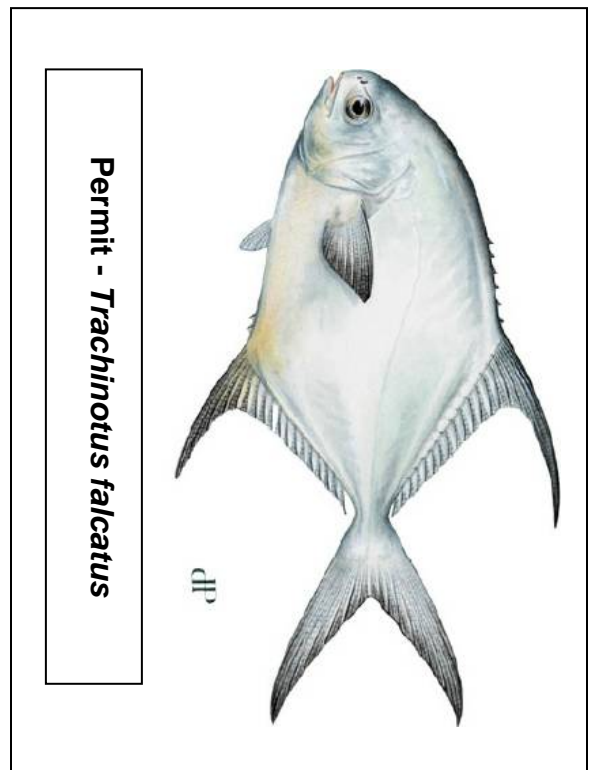
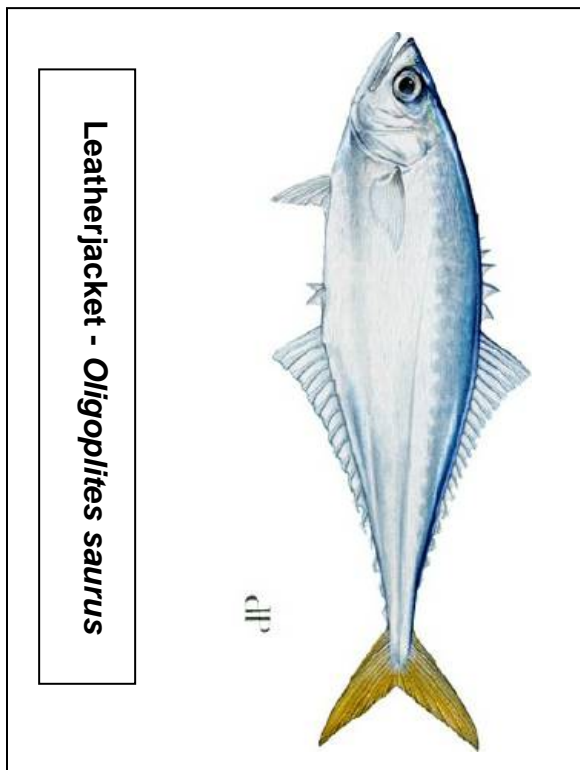
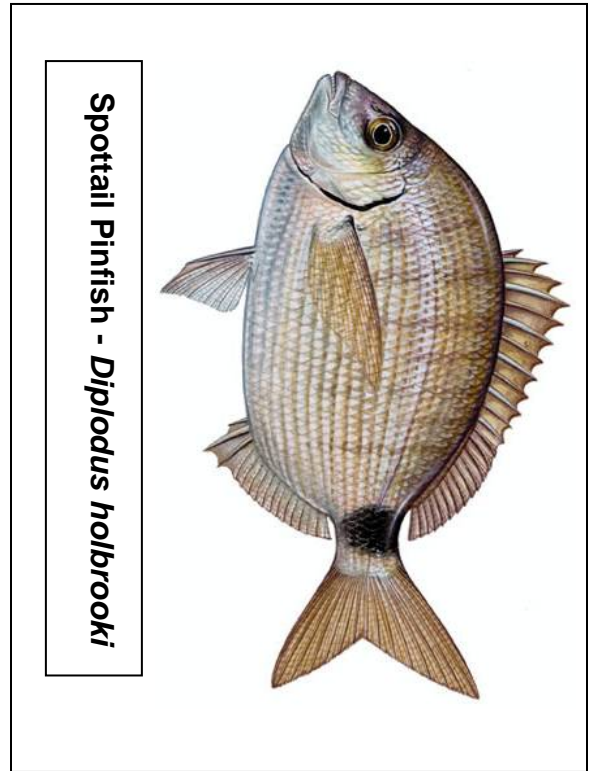
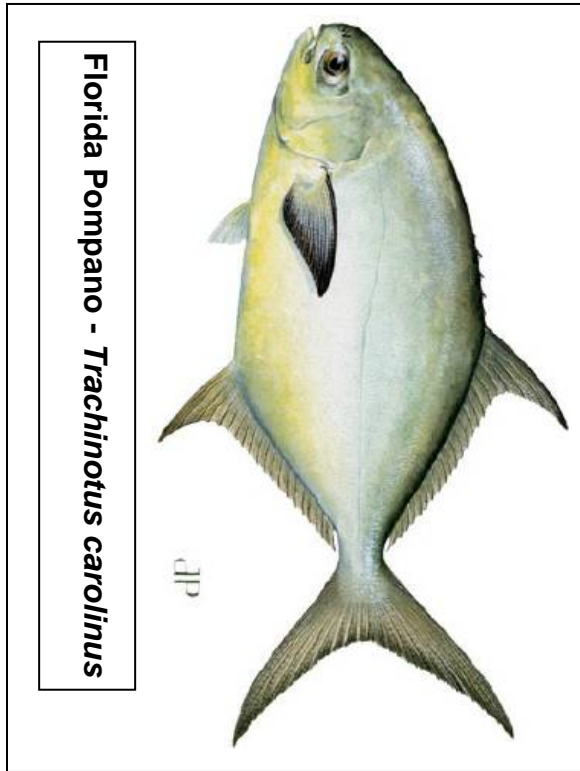
**Where found:** inshore, nearshore and offshore, especially over grass beds and reefs; absent from north Florida waters in winter

**Size:** average catch less than 2 pounds (20 inches)

**Remarks:** schooling fish that migrates northward in spring, returning to southerly waters when water temperature drops below 70 degrees F; spawns offshore, spring through summer; feeds on small fish and squid



Pictures



## Descriptions

### ***Diplodus holbrooki* - PORGIES**

**Description:** dark saddle on caudal peduncle sometimes forms a complete ring around peduncle in adults; eight faint bars on body, alternately long and short; more prominent in young; edge of opercular membrane blackish; pelvic and anal fins dusky brown, dorsal fin less dark

**Size:** to 46 centimeters (18 inches)

**Where found:** inshore seagrass beds, offshore rocks and reefs

### ***Trachinotus carolinus* – JACKS**

**Description:** greenish gray on back, shading to silvery sides; fish in dark waters showing yellow on throat, pelvic, and anal fins; deep flattened body with small mouth; no scutes; 22 to 27 soft dorsal rays; 20 to 23 soft anal rays; origin of anal fin slightly behind origin of second dorsal

**Similar fish:** permit; the permit is deeper bodied; dorsal body profile not strongly angled at insertion of second dorsal fin; pompano rarely grow larger than 6 pounds; permit common to 40 pounds

**Where found:** inshore and nearshore waters, especially along sandy beaches, along oyster bars, and over grassbeds, often in turbid water; may be found in water as deep as 130 feet

**Size:** usually less than 3 pounds

**Remarks:** spawns offshore between March and September

### ***Trachinotus falcatus* – JACKS**

**Description:** color gray, dark or iridescent blue above, shading to silvery sides, in dark waters showing golden tints around breast; small permit have teeth on tongue (none on pompano); no scutes; dorsal fin insertion directly above that of the anal fin; 17 to 21 soft dorsal rays; 16 to 19 soft anal rays

**Similar fish:** Florida pompano, *T. carolinus*; the permit is deeper bodied; dorsal body profile forms angle at insertion of second dorsal fin; pompano rarely grow larger than 6 pounds; permit common to 40 pounds

**Where found:** offshore on wrecks and debris, inshore on grass flats, sand flats, and in channels; most abundant in south Florida, with smaller specimens from every coastal county

**Size:** common to 25 pounds

### ***Oligoplites saurus* – JACKS**

**Description:** body silvery, bluish above; fins yellow; rear parts of dorsal and anal fins consist of a series of finlets; spinous dorsal fin has 5 well-developed, unconnected spines; lateral line nearly straight; scales tiny, embedded; skin appears smooth

**Size:** to 30 centimeters (1 foot)

**Where found:** enters bays and estuaries, often in turbid water

Pictures

**Striped Mojarra - *Diapterus plumieri***



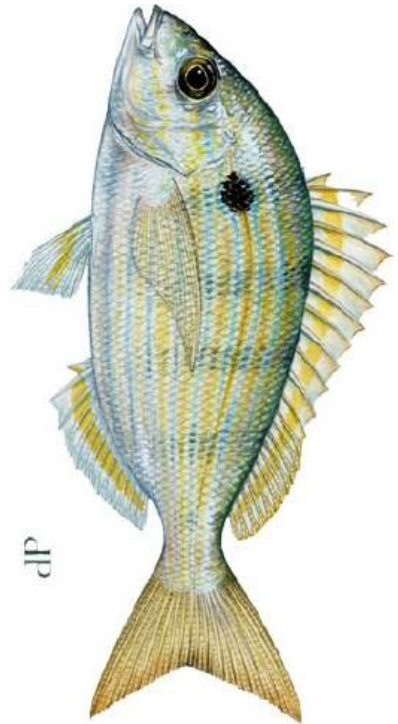
**Striped (Black) Mullet - *Mugil cephalus***



**Lookdown – *Selene vomer***



**Pinfish - *Lagodon rhomboides***



## Descriptions

### ***Mugil cephalus* – MULLETS**

**Description:** color bluish-gray or green above, shading to silver on sides, with indistinct horizontal black barrings, white below; fins lightly scaled at base, unscaled above; blunt nose and small mouth; second dorsal fin originates behind that of the anal

**Similar fish:** white mullet, *M. curema*; fantail mullet *M. gyrans* (both white and fantail mullet have black blotch at base of pectoral fin, which is lacking in the black mullet)

**Where found:** inshore

**Size:** roe mullet common to 3 pounds, but in aquariums known to reach 12 pounds or more

**Remarks:** adults migrate offshore in large schools to spawn; juveniles migrate inshore at about 1 inch in size, moving far up tidal creeks; frequent leapers

### ***Diapterus plumier* – MOJARRAS**

**Description:** body dark olive above; tan to silvery on side, often with a metallic sheen; conspicuous blackish stripe along center of each scale row, except toward belly; all fins except pectoral fins dusky in large adults; and anal fins sometimes dark orange; pelvic spine and first 2 anal spines pale; dorsal and anal spines long and stout; 3 anal spines

**Size:** to 30 centimeters (1 foot)

**Where found:** brackish and coastal fresh waters (in limestone regions), grassy areas

### ***Lagodon rhomboids* – PORGIES**

**Description:** small mouth with incisor-like teeth; distinctive black spot behind the gill cover; body bluish-silver with blue and orange-yellow horizontal stripes, yellow fins

**Where found:** seagrass beds, bridges, piers, marker pilings, and around natural and artificial reefs; spawn offshore

**Size:** usually less than 8 inches

**Remarks:** popular live bait, notorious bait stealers

### ***Selene vomer* - JACKS**

**Description:** silvery, iridescent, sometimes with brassy highlights; body extremely compressed and deep, platelike; front of head very steep; lobes at front of soft dorsal and anal fins very long; pelvic fins small; lateral line arched toward front

**Young:** spines at front of dorsal fin and rays in pelvic fin streamerlike

**Size:** to 30 centimeters (1 foot)

Pictures

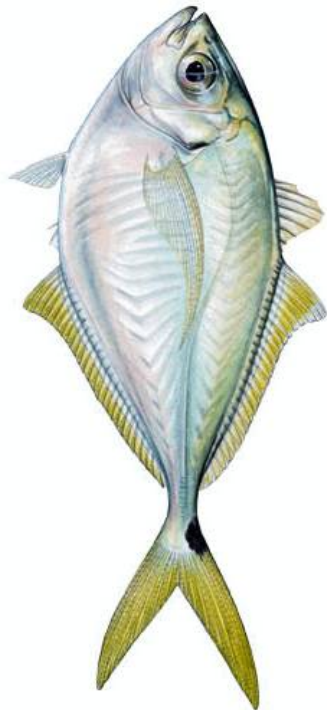
**Sheepshead - *Archosargus probatocephalus***



**Black Sea Bass (female) - *Centropristis striata***



**Atlantic Bumper - *Chloroscombrus***



**Atlantic Menhaden - *Brevortia tyrannus***



## Descriptions

### ***Centropristis striata* – GROUPERS**

**Description:** basic color dark brown or black; dorsal fin has rows and stripes of white on black; large males have iridescent blue and ebony markings, and fatty hump in front of dorsal fin; females may have indistinct vertical barrings; topmost ray of caudal fin much elongated in adults; caudal may be tri-lobed; sharp spine near posterior margin of gill cover

**Similar fish:** bank sea bass, *C. ocyurus*; other *Centropristis*

**Where found:** structure-loving fish, associated with reefs and rubble offshore; smaller specimens often found in INSHORE finger channels

**Size:** common to 1.5 pounds (13 inches)

### ***Archosargus probatocephalus* –PORGIES**

**Description:** basic silvery color, with 5 or 6 distinct vertical black bars on sides, not always the same; prominent teeth including incisors, molars, and rounded grinders; no barbels on lower jaw; strong and sharp spines on dorsal, anal fins

**Similar fish:** black drum; Atlantic spadefish, (black drum have barbels on lower jaw, sheepshead do not; vertical barring on sides of black drum and spadefish disappear as fish mature; spadefish have small, brush-like teeth)

**Where found:** inshore around oyster bars, seawalls and in tidal creeks; moves nearshore in late winter and early spring for spawning, gathering over rocks, artificial reefs, and around navigation markers

**Size:** inshore, 1 to 2 lbs; offshore, common to 8 lbs

### ***Brevoortia tyrannus* - HERRINGS**

**Description:** Oval, deep, compressed. Blue or green, sometimes bluish brown above; sides and belly silvery; distinct humeral spot often followed by several rows of smaller spots; fins yellowish. Head very large; mouth oblique; maxilla reaches posterior edge of eye. Pectoral fin slightly falcate, insertion near ventral profile of body; dorsal fin origin slightly behind pelvic fin insertion. Exposed edges of scales almost vertical, fringed.

**Where found:** at or near surface over continental shelf, near large estuaries.

**Size:** to 18 inches

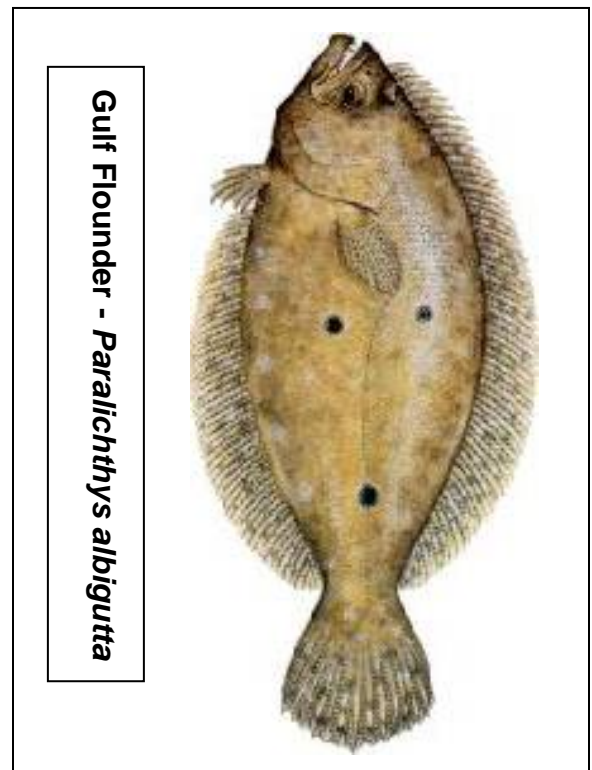
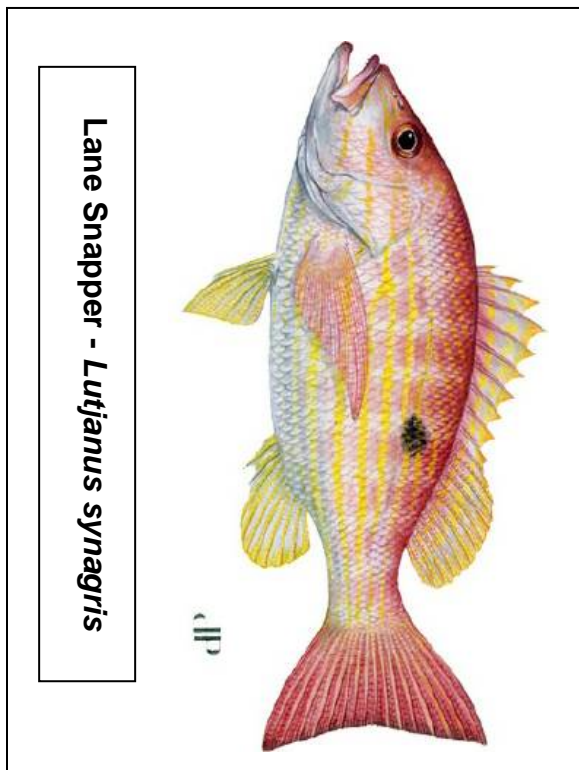
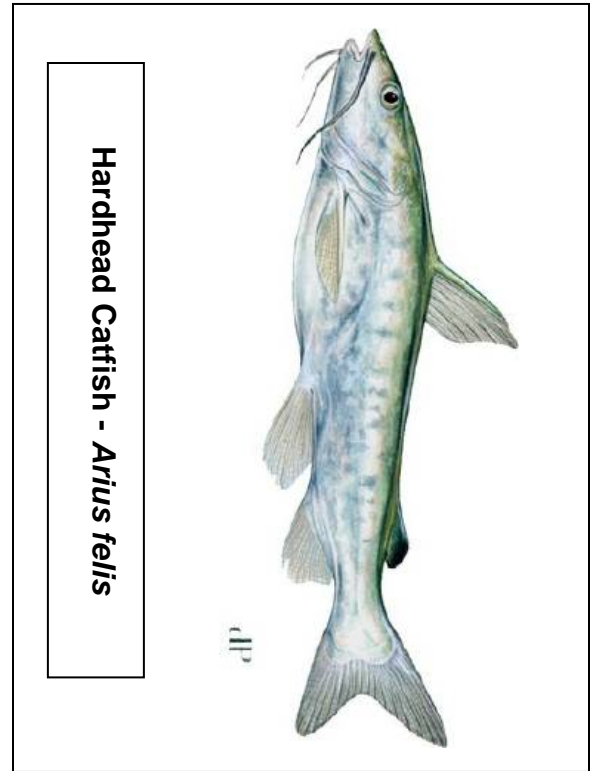
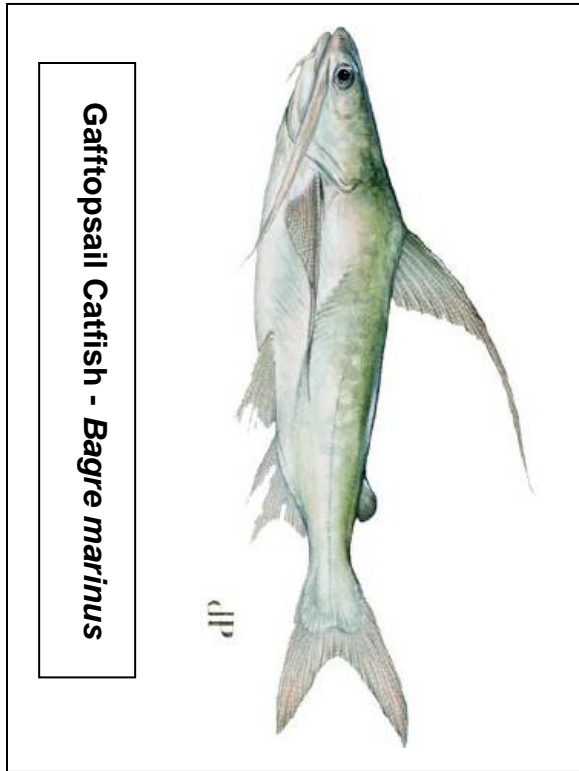
### ***Chloroscombrus chrysurus* - JACKS**

**Description:** silvery to golden below; yellowish anal and caudal fins; conspicuous black saddle on caudal peduncle and small black area at edge of opercle; lower profile more arched than upper profile; lateral line strongly arched toward front

**Size:** to 30 centimeters (1 foot)

**Where found:** one of the most abundant inshore fishes in tropical America; commonly enters bays and estuaries

Pictures



## Descriptions

### ***Arius felis* – CATFISHES**

**Description:** brownish to gray-green; white to yellowish below; fin spines with no fleshy filaments; barbel at corner of mouth not very flattened and shorter than head; four barbels on chin

**Size:** to 60 centimeters (2 feet) and 5.5 kilograms (12 pounds) but usually much smaller

**Where found:** same as for gafftopsail catfish, usually much more common

**Remarks:** commonly caught from catwalks, bridges, and piers, particularly in passes and inland waterways; edible, but generally not eaten

### ***Bagre marinus* – CATFISHES**

**Description:** bluish above; silvery below; dorsal and pectoral fins with long, fleshy filaments on spines; barbel at corner of mouth flattened, bandlike, and very elongate, sometimes reaching anal fin; only 2 barbels on chin

**Size:** to 60 centimeters (2 feet) and 2.5 kilograms (5 to 6 pounds)

**Where found:** continental waters; enters brackish waters; usually less common than the hardhead catfish

**Remarks:** commonly caught by anglers along bridges, piers, and catwalks; a good food fish, but not much used

### ***Paralichthys albigutta* - FLATFISH**

**Description:** body color brown, its shade depending on color of bottom, with numerous spots and blotches; 3 prominent eye-like spots forming a triangle; one spot on lateral line, one above, one below; numerous white spots scattered over body and fins (albigutta, white-spotted); strong canine-like teeth; caudal fin in shape of wedge, its tip in the middle

**Similar Fish:** southern flounder, *P. lethostigma* (no eye-like spots; color pattern is key to distinguishing the two species)

**Where found:** inshore on sandy or mud bottoms, often ranging into tidal creeks; occasionally caught on nearshore rocky reefs

**Size:** common to 2 pounds, generally smaller than southern flounder

**Remarks:** hatches into usual fish form, but right eye migrates over to left side early in life; a bottom dweller; thought to spawn offshore

### ***Lutjanus synagris* - SNAPPERS**

**Description:** color silvery-pink to reddish with short, irregular pink and yellow lines on its sides; diffuse black spot, about as large as the eye; the dorsal fin centered above the lateral line; outer margin of caudal fin blackish

**Similar fish:** mutton snapper, *L. analis* (anal fin rounded in lane snapper, pointed in mutton)

**Where found:** juveniles inshore over grass beds or shallow reefs; adults offshore; most common in south Florida.

**Size:** usually less than 1 pound

**Remarks:** spawns March to September, sexually mature at 6 inches; feeds on the bottom, taking crustaceans, mollusks, and fish



Pictures

**Gray (Mangrove) Snapper - *Lutjanus griseus***



**Planehead Filefish - *Stephanolepis hispidus***



**Common Snook - *Centropomus undecimalis***



**American Eel - *Anguilla rostrata***



## Descriptions

### ***Stephanolepis hispidus* - FILEFISH**

**Description:** Very deep, greatly compressed. Coloration varies with background: gray, tan, or brown, sometimes greenish, with irregular dark blotches or spots; caudal fin dusky yellow, other fins yellow. 6 outer teeth in each jaw; gill slits almost vertical; pelvic bone has prominent external spine, disappearing in large individuals. First dorsal fin spine strong; second dorsal fin with 29-35 rays, second ray forming long filament in adult males; 30-35 anal fin rays; caudal fin roughly rounded. Modified, bristle-like scales on sides of caudal peduncle. Surface of body velvet-like.

**Where found:** Over sand or mud around vegetation from near shore to open seas; usually in shallow waters, occasionally to depths of 265 feet

**Size:** to 9 inches

### ***Lutjanus griseus* – SNAPPERS**

**Description:** color dark brown or gray with reddish or orange spots in rows along the sides; dark horizontal band from snout through eye (young only); two conspicuous canine teeth at front of upper jaw; dorsal fins have dark or reddish borders; no spot on side underneath dorsal fin

**Similar fish:** cubera snapper, *L. cyanopterus*

**Where found:** juveniles inshore in tidal creeks, mangroves, and grass beds; adults generally nearshore or offshore on coral or rocky reefs

**Size:** offshore catches common to 10 pounds

**Remarks:** spawns June through August; feeds on crustaceans and small fish

### ***Anguilla rostrata* – EELS**

**Description:** Elongate, snake-like, circular in cross section anteriorly, compressed posteriorly. Coloration variable, depending on habitat and age: usually dark brown or greenish above, fading to yellowish white on belly. Head large, about one-eighth of length; mouth terminal, nearly horizontal; lower jaw projects slightly. Pectoral fin well developed; dorsal fin origin far behind pectoral fin; anal fin origin behind dorsal fin origin; dorsal and anal fins continuous with caudal fin. Scales small, elliptical, deeply embedded in skin.

**Where found:** Brackish or fresh waters; migrates to sea to spawn.

**Size:** to 4 feet 11 inches

### ***Centropomus undecimalis* – SNOOKS**

**Description:** distinct black lateral line; high, divided dorsal fin; sloping forehead; large mouth, protruding lower jaw; grows much larger than other snooks; pelvic fin yellow

**Similar fish:** other *Centropomus*

**Where found:** from central Florida south, usually INSHORE in coastal and brackish waters, along mangrove shorelines, seawalls, and bridges; also on reefs and pilings

**Size:** most catches 5 to 8 pounds

**Remarks:** spawns primarily in summer; cannot tolerate winter temperatures below 60 degrees Fahrenheit; can tolerate wholly fresh or saltwater; schools along shore and in passes during spawning season; feeds on fish and larger crustaceans

Pictures

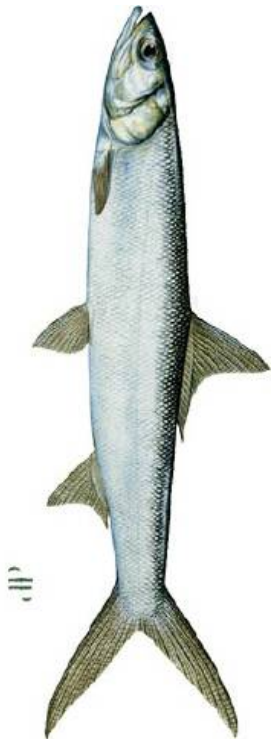
**Atlantic Spadefish - *Chaetodipterus faber***



**Atlantic Cutlassfish – *Trichiurus lepturus***



**Ladyfish - *Elops saurus***



**Southern Flounder – *Paralichthys lethostigma***



## Descriptions

### ***Trichiurus lepturus* - CUTLASSFISH**

**Description:** Very elongate, ribbon-like, highly compressed; tail tapering to point. Silver, with light blue iridescence; dorsal fin yellowish gray. Mouth large, terminal; lower jaw projects beyond upper; teeth large, fang-like. No pelvic fins; dorsal fin long, with 135 rays, begins at nape, continues to near tip of tail; anal fin reduced to long series of very short, separate, inconspicuous spines; no finlets; no caudal fin. Unscaled. Lateral line near ventral profile.

**Where found:** Estuaries over mud or over continental shelf to depths of 1,150 feet

**Size:** to 5 feet

**Remarks:** The occurrence in shallow water of both Atlantic and Pacific Cutlassfishes is unusual, since other family members are confined to deep water.

### ***Chaetodipterus faber* – SPADEFISHES**

**Description:** silvery, with 4 to 6 black vertical bands on each side which sometimes become obscure in larger fish; deep, flattened body; separated first and second dorsal fins; concave caudal fin; anterior rays of second dorsal fin and anal fin elongated

**Similar fish:** no close resemblance, but frequently and mistakenly called angelfish

**Where found:** inshore and nearshore, around natural and artificial reefs, and especially near navigation markers in 15 to 20 feet of water

**Size:** most catches less than 2 pounds, known to reach 15 pounds

**Remarks:** spawns in spring and summer; travels in large schools; small juveniles almost totally black, known to drift on their sides and mimic floating debris

### ***Paralichthys lethostigma* - FLATFISH**

**Description:** Flat, oval, with long, wedge-shaped tail fin. Head small, pointed; lower jaw protrudes; eyes on left side of head. Dorsal color matches background: olive or sandy with diffuse, dark brown blotches and spots (but no ocelli, or eyespots); white below. Dorsal and anal fin bases long, continuous; 80-95 dorsal fin rays and 63-74 anal rays. Usually 9-10 gill rakers on lower limb of outer arch and 56-64 scales in straight part of lateral line.

**Where found:** Inshore shallows and nearby fresh waters over muddy bottoms, often in just a few inches of water.

**Size:** to 33 inches

**Remarks:** Larval form of this and other flatfishes swims upright and has each eye on opposite side of head. By adulthood the right eye has migrated to the left side of the head.

### ***Elops saurus* – TARPONS**

**Description:** terminal mouth; slender body; small scales; last dorsal ray not elongated; head small and pointer

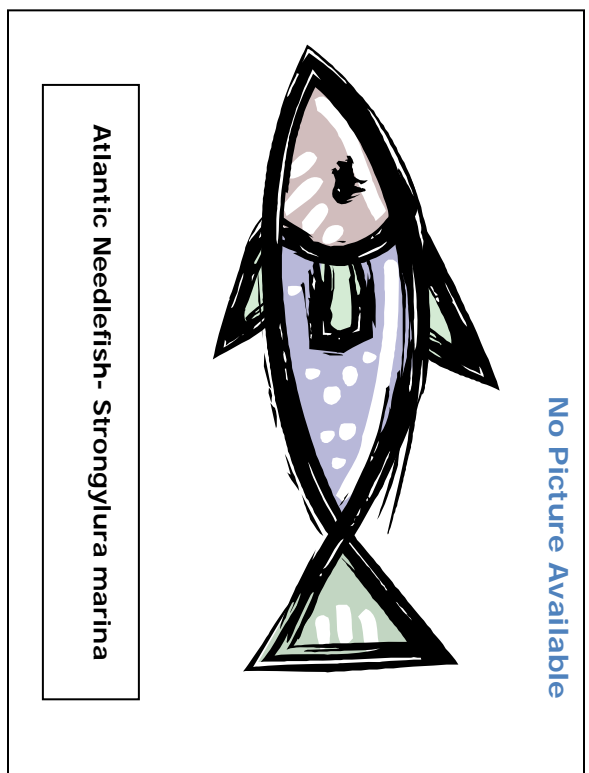
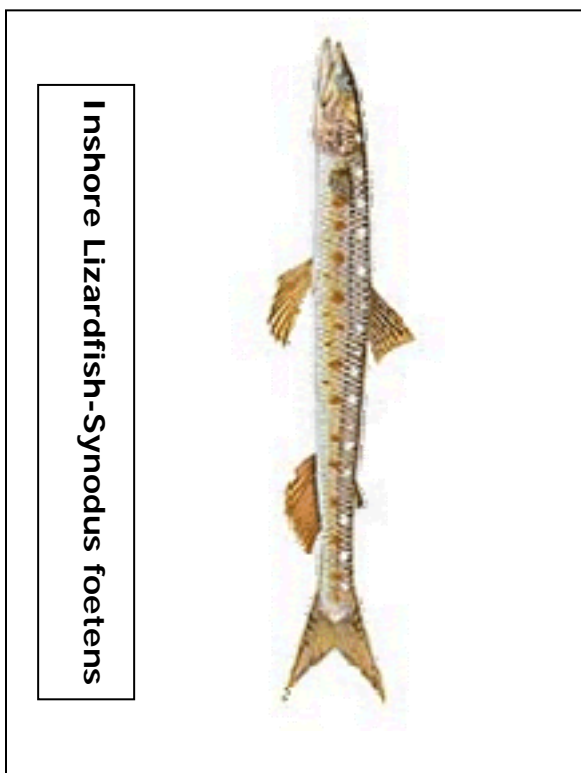
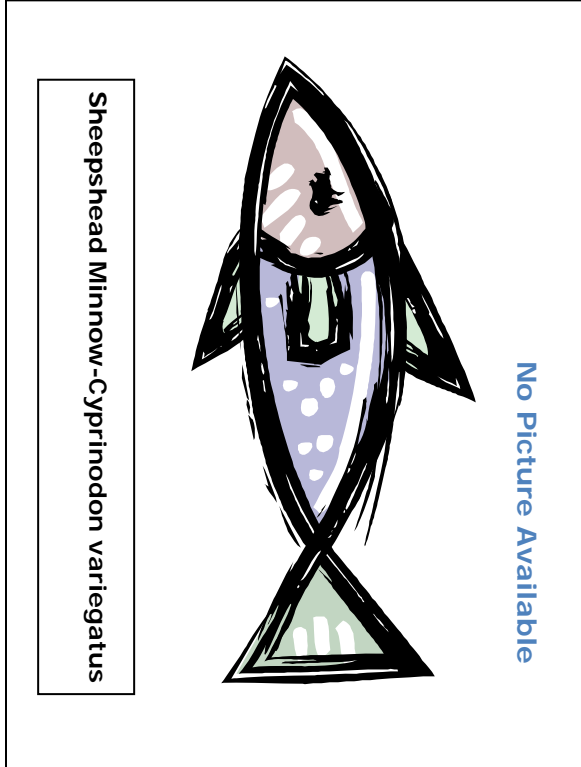
**Similar fish:** juvenile tarpon, *Megalops atlanticus*

**Where found:** inshore fish, in bays and estuaries; occasionally enters freshwater, occurring in tidal pools and canals; often forms large schools and harasses bait at the surface

**Size:** 2 to 3 pounds

**Remarks:** known to spawn offshore; ribbon-like larvae very similar to *Albua* and *Megalops*, peaking in fall; adults feed predominantly on fish and crustaceans; leaps when hooked

Pictures



## Descriptions

### ***Opsanus tao* - TOADFISH**

**Description:** Robust, compressed. Olive brown above; belly paler, with pale bars or irregular blotches; paired fins pale; median fins dusky; complete pale bars across pectoral and caudal fins. Head large, depressed; mouth very large, wide; fleshy flaps on upper and lower lips; teeth strong, blunt. Pectoral fin broad at base, fan-like, with 19-20 rays, insertion posterior to pelvic fin; usually 25-26 dorsal fin rays; anal fin spineless, similar to dorsal fin but shorter; caudal fin rounded. Body unscaled.

**Where found:** Shallow waters with vegetation or among debris and man-made objects over sand or mud.

**Size:** to 15 inches

**Remarks:** Toadfishes have powerful jaws and should be handled with caution.

### ***Cyprinodon variegatus* – KILLIFISH**

**Description:**

**Similar fish:**

**Where found:** Atlantic and Gulf coasts from Massachusetts to northern Mexico. Shallow coastal marshes and tide pools, usually over sand. Can enter fresh water ecosystems.

**Size:** grow to 3 inches

**Remarks:**

### ***Strongylura marina* – NEEDLEFISH**

**Description:**

**Similar fish:**

**Where found:**

**Size:**

**Remarks:**

### ***Synodus foetens* - LIZARDFISH**


**Description:** Elongate, cylindrical. Brownish or olive, with greenish cast above; about 8 diamond-shaped marks on upper sides; whitish or yellowish below; light wavy lines on head; pectoral fin dusky, yellowish, or light green; dark spot on adipose fin. Head depressed; snout pointed; eye large, above midpoint of maxilla. Pelvic fin with inner rays much longer than outer rays; anal fin with 10-14 (usually 11-13) rays, base same length or longer than dorsal fin base. 4-6 rows of scales between lateral line and dorsal fin base. Lateral line complete, with 56-65 (usually 60-62) scales.

**Where found:** On bottom to depths of about 90' (27 m); usually near shore.

**Size:** to 18 inches


Pictures

Sea Squirt



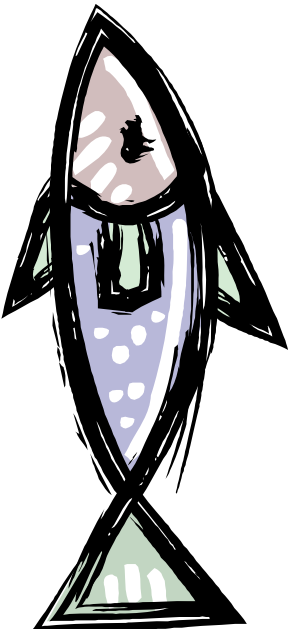
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Skillet



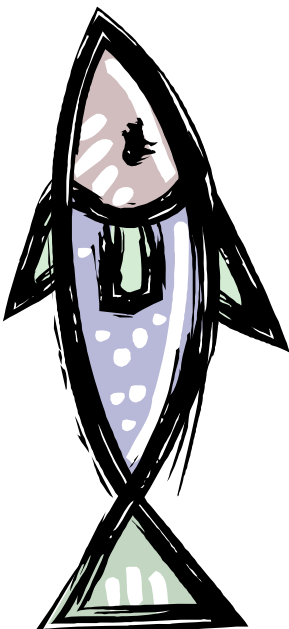
No Picture Available

Hairy Blenny



No Picture Available

Star Drum



No Picture Available

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
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<b>Family</b>
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<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>



Pictures


**Bighead Searobin**



No Picture Available

The illustration shows a fish with a large, pointed snout, a dark eye, and a body with light spots. The tail is large and triangular with vertical stripes.


**Southern Stargazer**



No Picture Available

The illustration shows a fish with a large, pointed snout, a dark eye, and a body with light spots. The tail is large and triangular with vertical stripes.


**Bay Whiff**



No Picture Available

The illustration shows a fish with a large, pointed snout, a dark eye, and a body with light spots. The tail is large and triangular with vertical stripes.

**Blackcheek Tonguefish**



No Picture Available

The illustration shows a fish with a large, pointed snout, a dark eye, and a body with light spots. The tail is large and triangular with vertical stripes.

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>


<b>Family</b>
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<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

Pictures


Hogchocker



No Picture Available

Detailed description: A stylized illustration of a Hogchocker fish, oriented vertically. The fish has a light brown head with a black eye and a dark mouth. Its body is light purple with white spots. It has a large, dark, triangular tail fin and a smaller, dark, triangular dorsal fin. The illustration is centered within a white rectangular frame.


Freshwater Goby



No Picture Available

Detailed description: A stylized illustration of a Freshwater Goby fish, oriented vertically. The fish has a light brown head with a black eye and a dark mouth. Its body is light purple with white spots. It has a large, dark, triangular tail fin and a smaller, dark, triangular dorsal fin. The illustration is centered within a white rectangular frame.


Frill Finned Goby



No Picture Available

Detailed description: A stylized illustration of a Frill Finned Goby fish, oriented vertically. The fish has a light brown head with a black eye and a dark mouth. Its body is light purple with white spots. It has a large, dark, triangular tail fin and a smaller, dark, triangular dorsal fin. The illustration is centered within a white rectangular frame.

Goby sp.



No Picture Available

Detailed description: A stylized illustration of a Goby sp. fish, oriented vertically. The fish has a light brown head with a black eye and a dark mouth. Its body is light purple with white spots. It has a large, dark, triangular tail fin and a smaller, dark, triangular dorsal fin. The illustration is centered within a white rectangular frame.

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>


<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
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<b>Remarks:</b>

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<b>Family</b>
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<b>Similar fish:</b>
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<b>Size:</b>
<b>Remarks:</b>


Pictures

Naked Goby



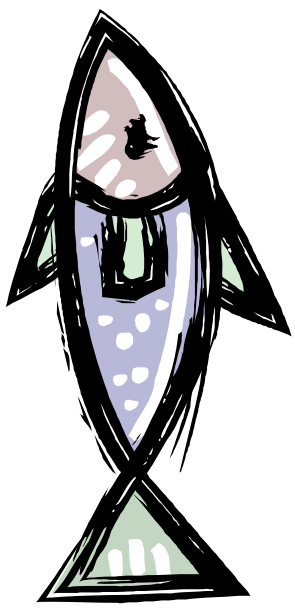
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Sea Pork



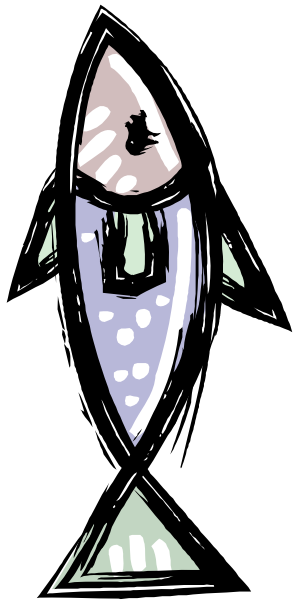
No Picture Available

Sea Grape



No Picture Available

Gulf Killifish



No Picture Available

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
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<b>Size:</b>
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<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

Pictures


Marsh Killifish



No Picture Available

The illustration shows a fish with a light brown head, a purple body with white spots, and a green tail with white stripes. The fish is facing upwards.


Mummichog



No Picture Available

The illustration shows a fish with a light brown head, a purple body with white spots, and a green tail with white stripes. The fish is facing upwards.


Checkered Puffer



No Picture Available

The illustration shows a fish with a light brown head, a purple body with white spots, and a green tail with white stripes. The fish is facing upwards.

Sheepshead Minnow



No Picture Available

The illustration shows a fish with a light brown head, a purple body with white spots, and a green tail with white stripes. The fish is facing upwards.

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

<b>Family</b>
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<b>Remarks:</b>


<b>Family</b>
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<b>Remarks:</b>

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>



Pictures


Striped Killifish



No Picture Available

This illustration shows a fish with a light-colored head and dorsal area, a dark body with white spots, and a dark tail with light horizontal stripes. The fish is facing left.

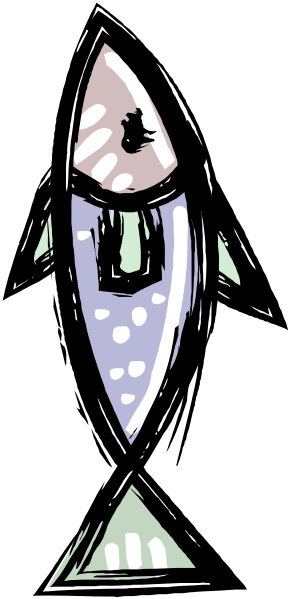
Pipefish sp.



No Picture Available

This illustration shows a fish with a light-colored head and dorsal area, a dark body with white spots, and a dark tail with light horizontal stripes. The fish is facing left.

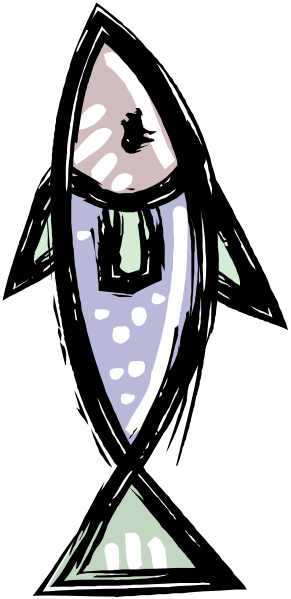
Mosquitofish



No Picture Available

This illustration shows a fish with a light-colored head and dorsal area, a dark body with white spots, and a dark tail with light horizontal stripes. The fish is facing left.

Sailfin Molly



No Picture Available

This illustration shows a fish with a light-colored head and dorsal area, a dark body with white spots, and a dark tail with light horizontal stripes. The fish is facing left.

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

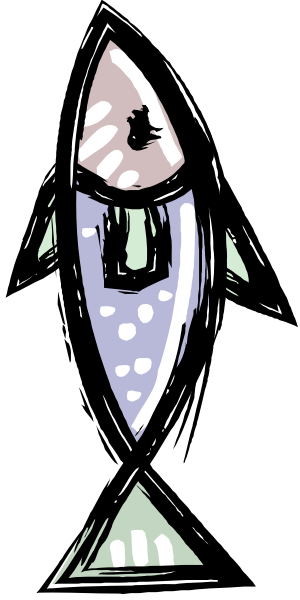
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<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

Pictures


Lined Seahorse



No Picture Available

A stylized illustration of a seahorse. The body is light purple with white spots. The head is light pink with a black eye and a small black mouth. The tail is light green with white spots. The seahorse is facing upwards.

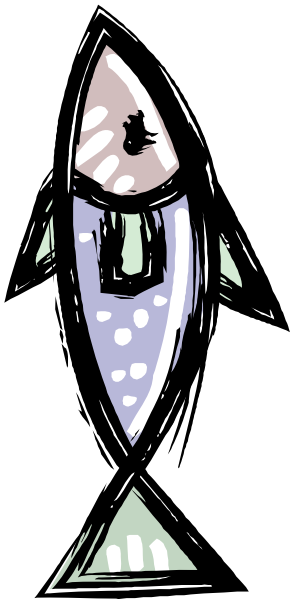
Irish Pompano



No Picture Available

A stylized illustration of a fish. The body is light purple with white spots. The head is light pink with a black eye and a small black mouth. The tail is light green with white spots. The fish is facing upwards.

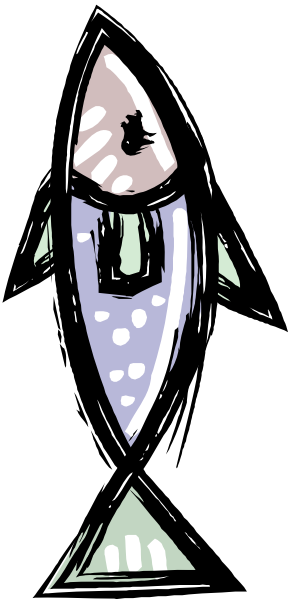
Redfin Needlefish



No Picture Available

A stylized illustration of a fish. The body is light purple with white spots. The head is light pink with a black eye and a small black mouth. The tail is light green with white spots. The fish is facing upwards.

Silver Jenny



No Picture Available

A stylized illustration of a fish. The body is light purple with white spots. The head is light pink with a black eye and a small black mouth. The tail is light green with white spots. The fish is facing upwards.

## Descriptions

<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

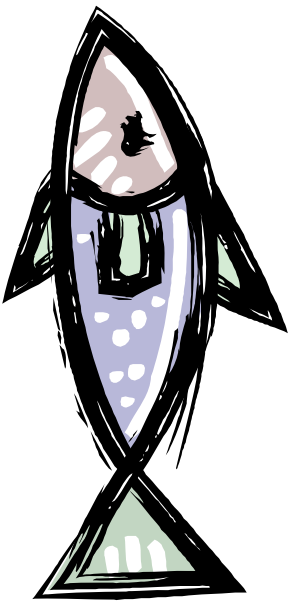
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<b>Family</b>
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<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

Pictures


Spotfinned Mojarra



No Picture Available

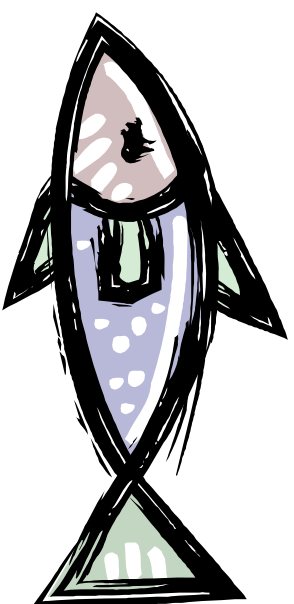
The illustration shows a fish with a brown head, a purple body with white spots, and a green tail. The fish is facing upwards.

White Mullet



No Picture Available

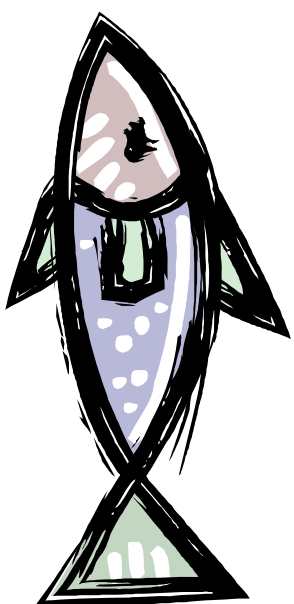
The illustration shows a fish with a brown head, a purple body with white spots, and a green tail. The fish is facing upwards.



No Picture Available

The illustration shows a fish with a brown head, a purple body with white spots, and a green tail. The fish is facing upwards.

Atlantic Needlefish



No Picture Available

The illustration shows a fish with a brown head, a purple body with white spots, and a green tail. The fish is facing upwards.

## Descriptions

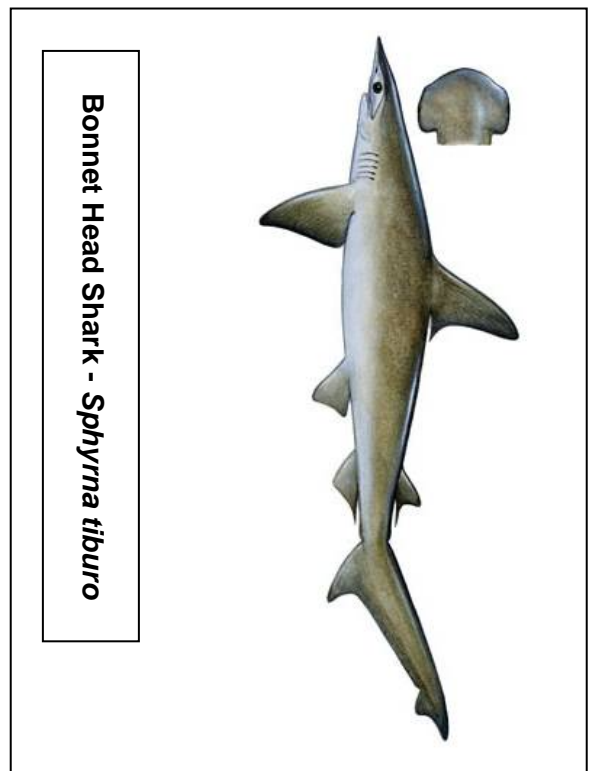
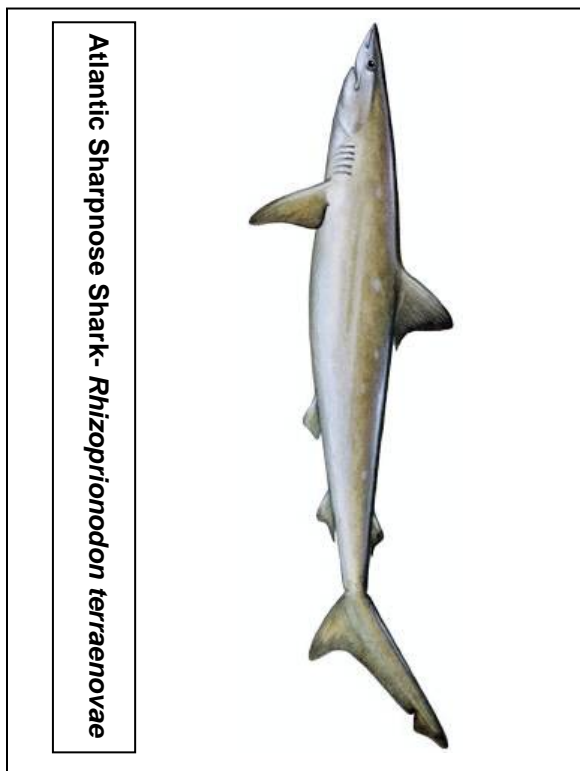
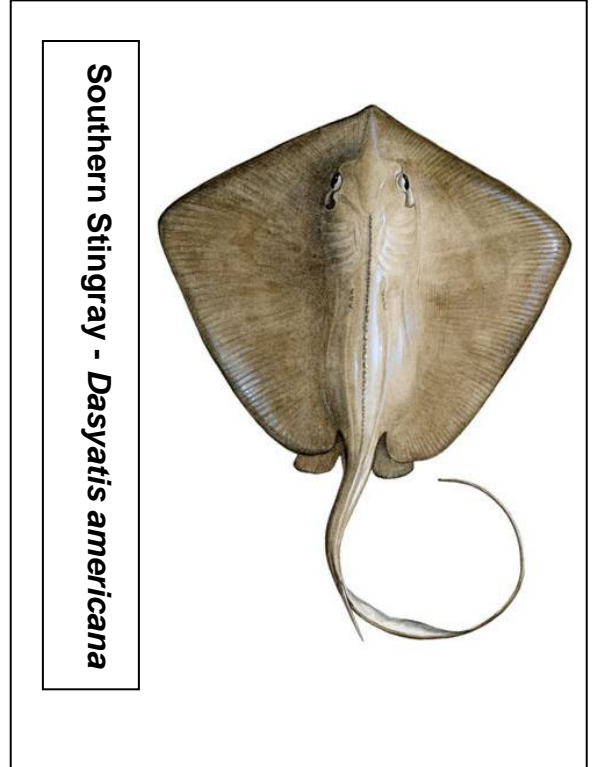
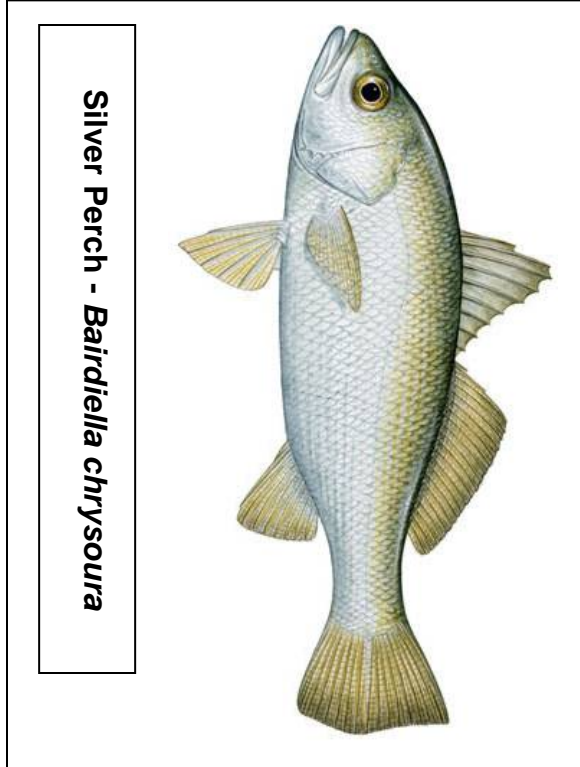
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<b>Family</b>
<b>Description:</b>
<b>Similar fish:</b>
<b>Where found:</b>
<b>Size:</b>
<b>Remarks:</b>

Pictures



## Descriptions

### ***Dasyatis Americana* – RAYS**

**Description:** color brownish dorsally and whitish ventrally; disc broad angular (rhomboid) with pointed corners; snout moderate, not protrusive; spine near base of long whip-like tail; well-developed ventral fin fold on tail, dark brown to black in color; dorsal fin fold on tail absent

**Habitat:** inhabits coastal waters including ocean beaches, bays, estuaries, and river mouths. Generally found near shore on grass and sand/mud flats but does venture into deeper coastal waters up to ~200 feet

**Size:** wingspan of 4-5 feet and weight up to around 200 pounds

**Human Factors:** observed singly, in pairs, and in aggregations. Non-aggressive species of little danger to humans with the exception of their defensive venomous barb located near base of tail; avoid handling or exercise extreme caution

### ***Bairdiella chrysoura* – DRUMS**

**Description:** color silvery with yellowish fins; no spots; no chin barbels; no prominent canine teeth at tip of upper jaw; preopercle finely serrated; 5 to 6 chin pores; mouth terminal

**Similar fish:** sand seatrout, *Cynoscion arenarius* (the seatrouts usually have 1 or 2 prominent canine teeth at tip of upper jaw and do not have chin pores)

**Where found:** inshore in seagrass beds, tidal creeks and rivers, and marshes

**Size:** small, not exceeding 9 inches

**Remarks:** spawning takes place in shallow, salting portions of bays and other inshore areas, peaking between May and September; matures by second or third year (about 6 inches); adults eat crustaceans and small fishes; may live to 6 years

### ***Sphyrna tiburo* – SHARKS**

**Description:** broadly widened head in the shape of a shovel; only slight indentation of anal fin; front of head not notched at midline; gray or grayish-brown in color

**Habitat:** inshore species found in bays and estuaries

**Reproduction:** gives birth to live young; litters contain 4–16 pups; size at birth about 12 inches

**Size/Age:** smallest member of the hammerhead family, maximum length about 3.5 feet; matures at approximately 2 years of age (about 30 inches) and is estimated to live 7+ years

**Human factors:** edible, but marketed mostly as crab bait, good sport fish (use light tackle with live shrimp or cut-bait), harmless to humans, often displayed in aquaria

### ***Rhizoprionodon terraenovae* – SHARKS**

**Description:** long and flattened snout; white trailing edge of pectoral; black-edged dorsal and caudal fins, especially when young; may have small whitish spots on sides; furrows in lips at the corners of the mouth; outer margin of teeth notched; second dorsal fin originates over middle of anal fin; brown to olive-gray in color with white underside; slender body

**Similar Fish:** other carcharhinids

**Where found:** inshore species, even found in surf; also common in bays and estuaries; adults occur offshore

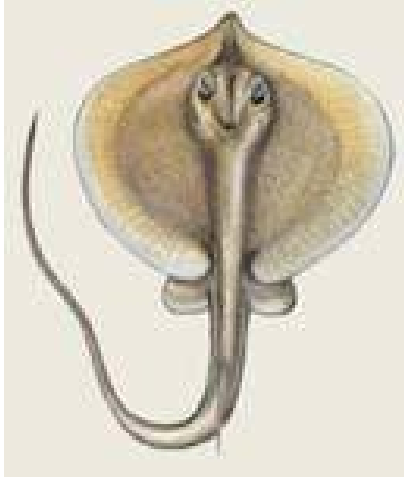
**Size:** small species, 2 to 4 feet

**Remarks:** mature adults between 2 and 2.75 feet long; 4-7 newborns range from 9 to 14 inches in length; adults feed on small fish and crustaceans

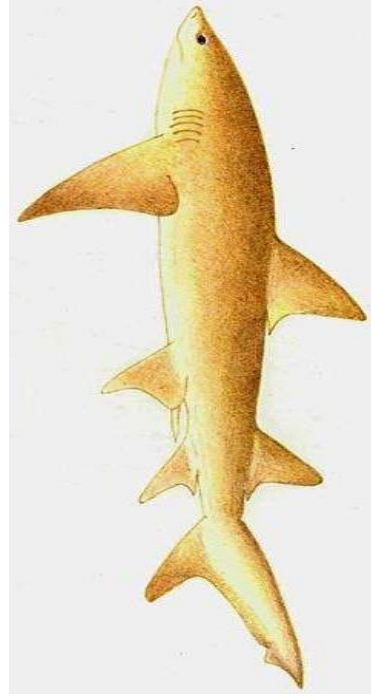


Pictures

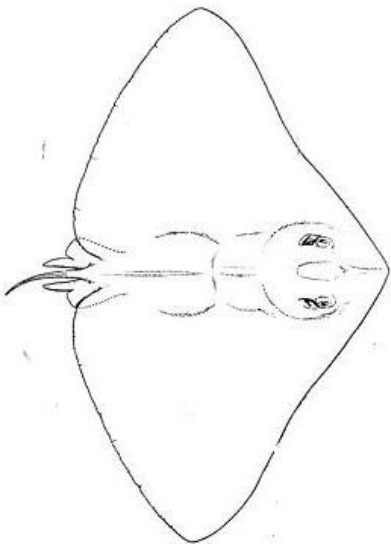
**Atlantic Stingray - *Dasyatis sabina***



**Lemon Shark - *Negaprion brevirostris***



**Smooth Butterfly Ray - *Gymnura micrura***



**Whiting sp.**



## Descriptions

### ***Negaprion brevirostris* – SHARKS**

**Habitat:** An abundant, inshore tropical shark that inhabits both estuarine and nearshore waters of the Gulf and Atlantic coasts of Florida. Commonly enters estuarine waters and often ventures into freshwater areas, but does not penetrate as far up rivers as the Bull shark. Migrates southward and into deeper waters in the winter months.

**Size/Age:** Maximum size about 10.5 feet. Matures at approximately 11-12 years of age (about 8 feet) and is estimated to live 27+ years.

#### **Human factors**

Constitutes only a small portion of the commercial shark fishery. Does well in captivity, with young individuals being favorite subjects for physiological and behavioral studies. Has been involved in only a few attacks on humans.

### ***Dasyatis Sabina* – RAYS**

**Description:** Color brownish to yellowish brown dorsally and whitish ventrally. Disc corners rounded. Disc width nearly equal to disc length. Snout pointed and projecting. Spine near base of long whip like tail. Low dorsal and ventral fin folds on tail which are brown/dusky in color.

**Habitat:** Benthic species. Inhabits coastal waters, including estuaries, lagoons and sometimes rivers.

#### **Size/Age**

Wingspan of up to 2 feet.

#### **Human Factors**

Non-aggressive species of little danger to humans with the exception of their defensive venomous barb located near the base of the tail. Avoid handling or exercise extreme caution. Do the "Stingray shuffle".

### ***Whiting sp.***

**Description:**

**Similar fish:**

**Where found:**

**Size:**

**Remarks:**

### ***Gymnura micrura* – RAYS**

**Description:** Disc broad, much wider than long ('butterfly shaped'). Coloration brownish, gray or green with many small dark spots/blotches dorsally and white ventrally. Snout protruding. Tail short with low dorsal and ventral fin folds and three to four dark crossbars. No venomous spine on tail.

**Habitat:** Prefers coastal waters and usually found on soft mud or sandy substrates. May enter estuaries or bays.

**Feeding:** Benthic feeder. Feeds on bottom-living invertebrates and fishes.

**Reproduction:** Aplacental viviparity. Three to four pups per litter.

**Size/Age:** Wingspan up to 4.5 feet.

**Human Factors:** Non-aggressive species of no danger to humans.