# Who's that critter?

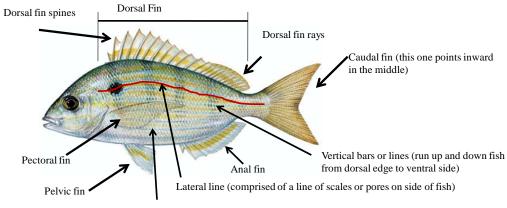
Identifying Fish and Invertebrates from Intertidal Oyster Reef Habitats

> A guide for volunteers and students

Created by South Carolina Department of Natural Resources with funding from





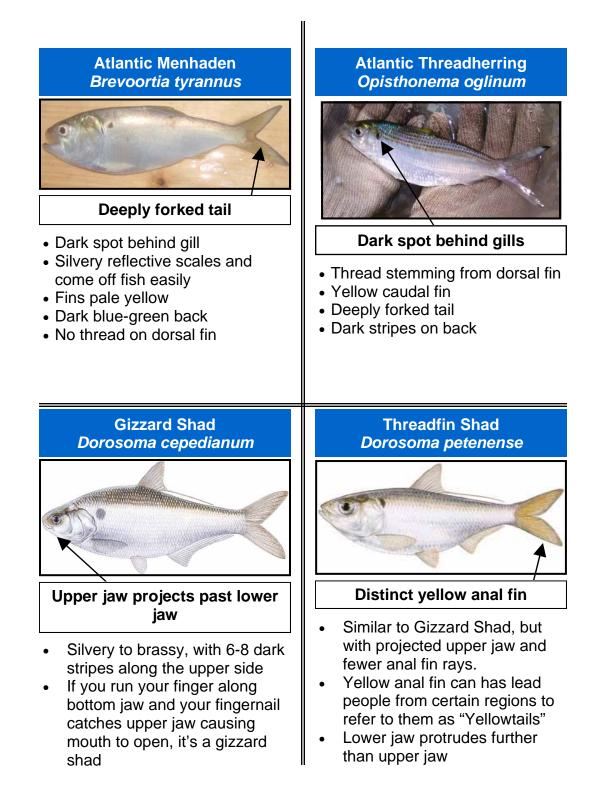


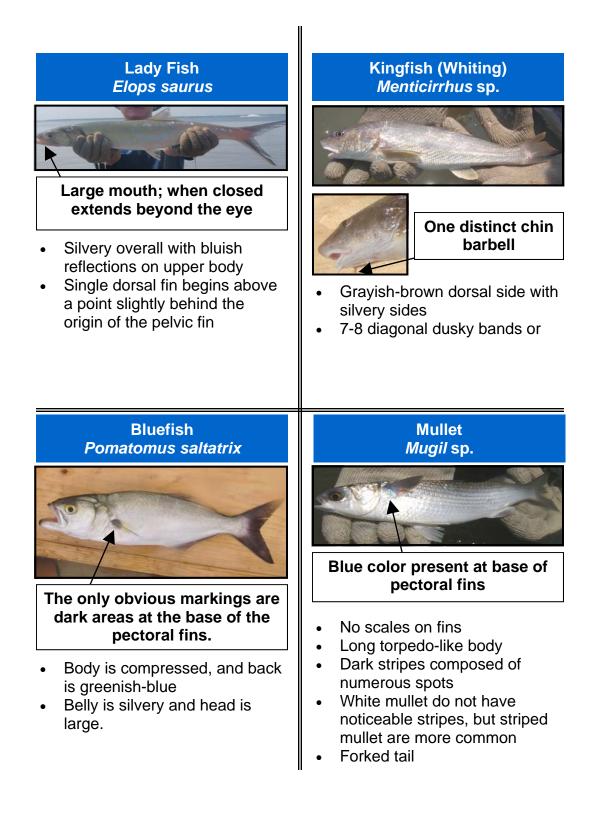
#### Fish characteristics and terminology to be aware of in using this fish I.D. booklet

Horizontal bars or lines (run from head region to tail region)

<section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Anchovy         Anchoa sp.         Stubbler snout and larger         Mouth than Silverside         • Dorsal fin originates over the
	<ul> <li>origin of the anal fin</li> <li>Sides with silvery lateral band scarcely as wide as the pupil of eye.</li> </ul>
American Silver Perch Bairdiella chrysoura	Leatherjacket Oligoplites saurus

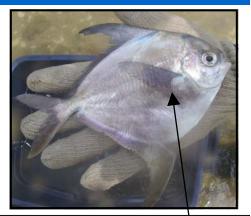
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<ul> <li>Named for a croaking sound</li> <li>Faint vertical stripes</li> <li>Strong lateral line</li> <li>Small chin barbells</li> <li>Tail does not have fork</li> </ul>	<ul> <li>Narrow diagonal dark lines on upper body</li> <li>Split dorsal fin</li> <li>Forked caudal fin</li> <li>Similar to Atlantic croaker, pinfish</li> </ul>
Pin Fish Lagodon rhomboides	Pigfish Orthopristis chrysoptera
	Juvenile
Dark spot on shoulder centered on lateral line	Stripes on a pigfish usually ap- pear to be a series of dots as opposed to the more complete stripes on the pin fish
Horizontal blue and yellow	Coloring can include array of





<section-header></section-header>	<section-header>         Spotted Sea Trout cynoscion nebulosus         Image: Construction of the second seco</section-header>
Red Drum         Sciaenops ocellatus	
Conspicuous black spot at the caudal peduncle (fleshy part of the fin)	
<ul> <li>May have multiple dots running along dorsal side</li> <li>No chin barbells</li> <li>Iridescent silvery gray, copper, or reddish coloration</li> </ul>	

#### Harvest Fish Peprilus alepidotus



Pectoral fin longer on Harvestfish than on Permit

- Tall, thin bodies
- Elongated dorsal and anal fins

#### Lookdown Selene vomer



The steep slope of the front of the head makes them distinct

- Body extremely compressed and deep, plate-like
- Dramatically elongated dorsal and anal fins and small pelvis fins

#### Permit Trachinotus falcatus



Permit often have an orange/yellow patch in front of anal fin

- Tall, thin bodies
- Elongated dorsal and anal fins

#### Atlantic Bumper Chloroscombrus chrysurus



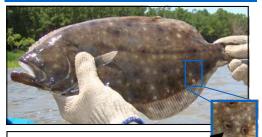
Black saddle marking at the beginning of the caudal fin

- Silvery to golden body with yellow/gold fins
- Body shows more arch on ventral side of the fish giving it the illusion of a "big belly"

Horse-eye Jack <i>Caranx latus</i>	Crevalle Jack Caranx Hippos
Yellow caudal fin	Large oval black spot on the pectoral fins (unlike the horse- eye jack) and one on gill cover
<ul> <li>Similar to the Crevalle jack but the front of the head is less steep</li> <li>Black blotch at the opercle is smaller and less defined</li> </ul>	<ul> <li>Body greenish to bluish above and silvery white below</li> <li>May be mistaken for an Atlan- tic Bumper, but this fish's face is much rounder and the body is thicker.</li> </ul>
Atlantic Tripletail Lobotes surnamensis	
Long dorsal and anal fins give the appearance of three tails	
<ul> <li>Very distinct coloring: body color yellow-brown to dark brown</li> </ul>	

# Atlantic Spadefish **Black Drum** Chaetodipterus faber Pogonias cromis **Prominent chin barbels** Long frontal lobes help to distinguish spadefish Distinct black bands running • vertically down body Silvery to tan with broad dark Second spine on dorsal fin • grey or brown vertical strips much longer than first Short, disk-shaped body All drum species know for • Blunt snout. distinct croaking sound Sheepshead Archosargus probatocephalus Dorsal fin continuous with 12 distinct spines Black bars on body Profile of head is steep This fish has a lot of sharp spines, handle with care

#### Summer Flounder Paralichthys dentatus



Distinct oscillating spots distinguish spotted flounder from Southern

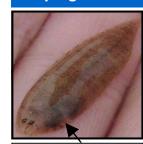
- Flat, brownish, speckled fish
- Both eyes on left side of the head

#### Southern Flounder Paralichthys lethostigma



- Flat, brownish, speckled fish
- Both eyes on left side of the head
- Looks very similar to a Summer Flounder
- More commonly found than
   Summer Flounder
- Brownish, mottled or speckled. May have spots but they are not oscillated.

Blackcheek Tonguefish Symphurus plagiusa



Large dark spot on operculum

- Often mistaken for juvenile flounder
- No obvious tail

Trinectes maculatus

Hogchoker

## pattern; Blindside frequently spotted

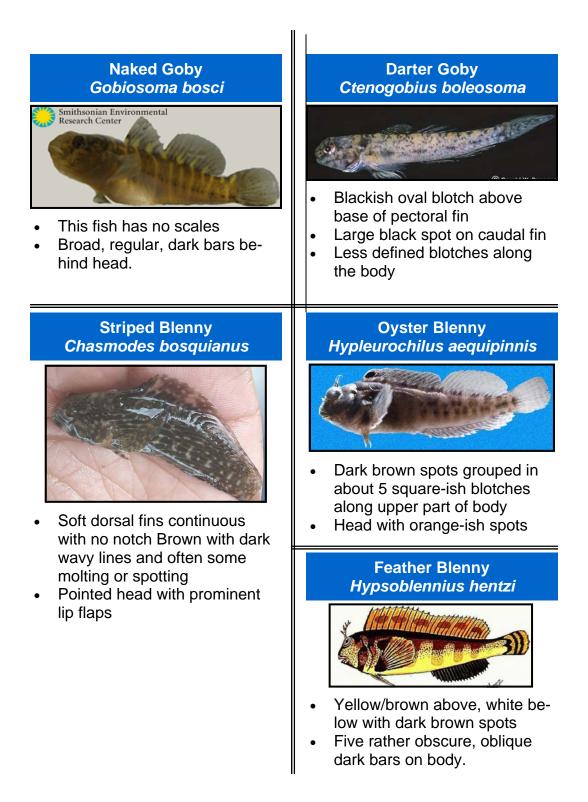
- Small flatfish with eyes on right side of body
- Round body
- No pectoral fin

#### Bay Whiff Citharichthys spilopterus



Spots small and obscure, if present at all.

- Flatfish with eyes on left side of body
- Blind side has no spots
- Lateral line is straight



#### **Bandtail Puffer Northern Pufferfish** Sphoeroides maculatus Sphoeroides spengleri Row of large brownish black spots along lower part of body Row of 6-7 vertically elongate fro chin to caudal-fin base blackish gray areas on the side Dark olive-gray above with Usually dark brown above, pale tan on lower side and may tiny black spots whitish below. Black bar between eyes Whitish below with no Many tan fleshy tabs towards rear on the body markings **Striped Burrfish Oyster Toadfish** Chilomycterus schoepfi **Opsanus tau** Most have large black patches above pectoral fins Fins have bright yellow borders Yellow-brown, with dark Body brownish to magenta stripes and several dark with many tan to yellow lines patches across head When not inflated, have lots of Body has lichen-like patches excess skin

#### **Speckled Worm Eel** American Eel Myrophis punctatus Anguilla rostrata Greenish brown, sometimes Snout looks pointed; v-shaped vellow Lower jaw longer than upper Upper body speckled with eas-• jaw ily seen pepper-like spots All fins are continuous **Inshore Lizardfish Pipefish** Synodus foetens Syngnathus sp. About 8 diamond shaped marks along side Anal fin base is same length or longer than dorsal fin base **Atlantic Needlefish** Strongylura marina Olive-brown, mottled • Bands indistinct or absent. Caudal fin bluish • This is a type of Seahorse—so Dorsal and anal fins toward • its face looks similar. back of long sleek body Long silver/blue stripe down each side

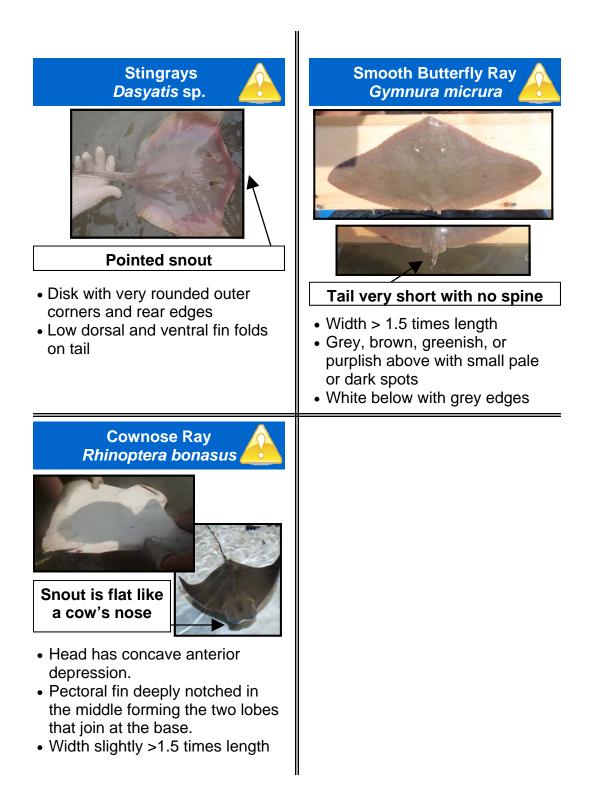
### Atlantic Sharpnose Shark Rhizoprionodon terraenoval Tip: If you lay sharks, skates, and rays on their backs like 2nd dorsal fin behind last anal the picture in Pointed snout the bottom left-hand corner, • Dark edged fins the animal will relax thus allowing you to have maximum control. **Bonnethead Shark** Sphyrna tiburo

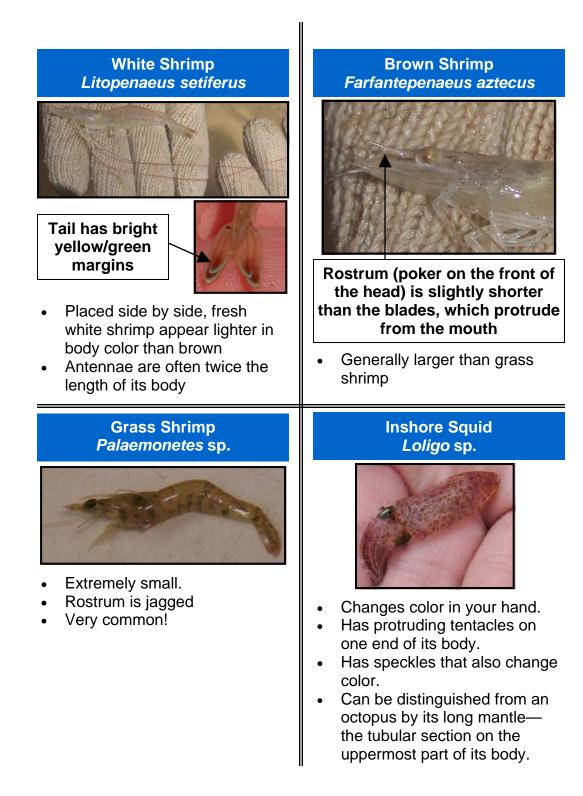


#### Head rounded like a bonnet

- Similar to a Hammerhead Shark, however its head is rounded not rectangular
- Should be no longer than a meter in length







#### Blue Crab Callinectes sapidus/similis





Pictures to left differentiate male (top) and female (bottom)

- *C. sapidus* has four bumps between the eye stalks.;*C. similis* (less common) has six bumps.
- Females typically have red highlights along the legs.

#### Stone Crab Menippe mercenaria



- Brownish red with gray spots and a whitish underside.
- Large, unequally-sized claws (chelae) with black tips.

#### Horseshoe Crab Limulus polyphemus



Male pedipalps resemble boxing gloves (females' are scissor -like)

• Hard semicircular shell, hinged, with long rigid tail

#### Diamondback Terrapin Malaclemys terrapin



#### Diamond pattern on shell

- Does not have flippers
- Can retreat inside its shell, unlike sea turtles
- Skin is grayish with black speckles shape

#### Green Sea Turtle *Chelonia mydas*



# 5 central scutes and 4 on each side

- Long flippers that cannot retreat into its shell
- Two prefrontal scales behind the head
- The skin tone and pattern is green whereas a Loggerhead Sea Turtle is brown.