

Appendix D. Cartilaginous and Bony Fishes Collected in North Inlet and Winyah Bay Estuaries, Georgetown, S.C.
1978-2006

Scientific Name	Common Name	North Inlet season & life stage							Winyah Bay Survey(s)
		W	Sp	S	F	L	J	Ad	
Carcharhinidae - requiem sharks									
<i>Carcharhinus acronotus</i>	blacknose shark			C	U		J	Ad	
<i>Carcharhinus limbatus</i>	blacktip shark			C	C		J	Ad	
<i>Carcharhinus plumbeus</i>	sandbar shark		U	U	U		J	Ad	
<i>Carcharhinus obscurus</i>	dusky shark			R			J		CEIP
<i>Negaprion brevirostris</i>	lemon shark			R			J	Ad	
<i>Rhizoprionodon terraenovae</i>	Atlantic sharpnose shark		R	C	R		J	Ad	CEIP
Squalidae - dogfish sharks									
<i>Mustelus canis</i>	smooth dogfish	U	U				J	Ad	
Sphyrnidae - hammerhead sharks									
<i>Sphyrna lewini</i>	scalloped hammerhead			R	R		J	Ad	CEIP
<i>Sphyrna tiburo</i>	bonnethead			U			J		
Rajidae - rays or skates									
<i>Raja eglanteria</i>	clearnose skate		R	U	R			Ad	MRR
Dasyatidae - stingrays									
<i>Dasyatis americana</i>	southern stingray		C	C	U			Ad	CEIP
<i>Dasyatis centroura</i>	rougtail stingray								CEIP
<i>Dasyatis sabina</i>	Atlantic stingray		U	C	U		J	Ad	CEIP, MRR
<i>Dasyatis say</i>	bluntnose stingray			U				Ad	
Gymnuridae - butterfly rays									
<i>Gymnura micrura</i>	smooth butterfly ray		U	U	R		J	Ad	
Myliobatidae - eagle rays									
<i>Aetobatus narinari</i>	spotted eagle ray		U	U	R		J		
<i>Rhinoptera bonasus</i>	cownose ray		U	U			J	Ad	CEIP
Acipenseridae - sturgeons									
<i>Acipenser oxyrinchus (syn. oxyrhynchus)</i>	Atlantic sturgeon		R	R			J		MRR
<i>Acipenser brevirostrum</i>	shortnose sturgeon								MRR
Lepisosteidae - gars									
<i>Lepisosteus osseus</i>	longnose gar		R	R			J	Ad	CEIP, MRR
Elopidae - ladyfishes and tarpons									
<i>Elops saurus</i>	ladyfish		U	C	C		J	Ad	CEIP
<i>Megalops atlanticus</i>	tarpon			R	R		J	Ad	CEIP
Albulidae - bonefishes									
<i>Albula vulpes</i>	bonefish				R		J		
Anguillidae - freshwater eels									
<i>Anguilla rostrata</i>	American eel	U	U	U	U		J	Ad	CEIP, MRR
Muraenidae - moray eels									
<i>Gymnothorax nigromarginatus</i>	blackedge moray			R			J		
Ophichthidae - worm and snake eels									
<i>Bascanichthys</i> sp.	?? eel								CEIP
<i>Myrophis punctatus</i>	speckled worm eel		U	C	U	L	J	Ad	CEIP, MRR
<i>Ophichthus gomesii</i>	shrimp eel			U	U		J	Ad	CEIP

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		W	Sp	S	F	L	J	Ad	
Congridae - conger eels									
<i>Conger oceanicus</i>	conger eel		U	U	U		J		
<i>Ariosoma balearicum</i>	bandtooth conger								MRRI
Clupeidae - herrings, shads, menhadens, and sardines									
<i>Alosa aestivalis</i>	blueback herring			R			J		CEIP, MRRI
<i>Alosa mediocris</i>	hickory shad			R			J		
<i>Alosa pseudoharengus</i>	alewife			R			J		
<i>Alosa sapidissima</i>	American shad			R			J	Ad	MRRI
<i>Brevoortia tyrannus</i>	Atlantic menhaden	U	C	C	C	L	J	Ad	CEIP, MRRI
<i>Dorosoma cepedianum</i>	gizzard shad		R	R			J		CEIP, MRRI
<i>Dorosoma petenense</i>	threadfin shad	R	R	U	R		J		CEIP, MRRI
<i>Opisthonema oglinum</i>	Atlantic thread herring			U			J		
<i>Sardinella aurita</i>	Spanish sardine		R	R			J		
Engraulidae (syn. Engraulididae) - anchovies									
<i>Anchoa hepsetus</i>	striped anchovy		U	A	C	L	J	Ad	CEIP, MRRI
<i>Anchoa mitchilli</i>	bay anchovy	C	A	A	C	L	J	Ad	CEIP, MRRI
Cyprinidae - carps and minnows									
<i>Cyprinus carpio</i>	common carp								MRRI
Synodontidae - lizardfishes									
<i>Synodus foetens</i>	inshore lizardfish		U	C	U	L	J	Ad	CEIP
Ariidae - sea catfishes									
<i>Ariopsis (Arius) felis</i>	hardhead catfish		U	U	U		J	Ad	CEIP, MRRI
<i>Bagre marinus</i>	gafftopsail catfish			U	U			Ad	CEIP, MRRI
Ictaluridae - freshwater and bullhead catfishes									
<i>Ameiurus natalis</i>	yellow bullhead	R	R				J	Ad	
<i>Ameiurus (Ictalurus) catus</i>	white or bullhead catfish								MRRI
<i>Ameiurus (Ictalurus) platycephalus</i>	flat bullhead								MRRI
<i>Ameiurus (Ictalurus) nebulosus</i>	brown bullhead								MRRI
<i>Ictalurus punctatus</i>	channel catfish								MRRI
Gobiesocidae - clingfishes									
<i>Gobiesox strumosus</i>	skilletfish		U	U	U	L	J	Ad	CEIP, MRRI
Batrachoididae - toadfishes									
<i>Porichthys plectrodon</i>	Atlantic midshipman			R				Ad	
<i>Opsanus tau</i>	oyster toadfish		U	C	U		J	Ad	CEIP, MRRI
Antennariidae - frogfishes									
<i>Antennarius ocellatus</i>	ocellated frogfish			R				Ad	
<i>Histrio histrio</i>	sargassumfish			R			J		
Gadidae - codfishes									
<i>Urophycis floridana</i>	southern hake	U	U	R			J	Ad	CEIP, MRRI
<i>Urophycis regia</i>	spotted hake	U	C				J	Ad	CEIP, MRRI
Ophidiidae - cusk-eels									
<i>Ophidion marginatum</i>	striped cusk-eel	R	R	U	U		J	Ad	CEIP, MRRI
Hemiramphidae - halfbeaks									
<i>Hyporhamphus unifasciatus</i>	silverstripe halfbeak			R			J		

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Belonidae - needlefishes									
<i>Strongylura marina</i>	Atlantic needlefish		R	U	U		J	Ad	
<i>Tylosurus crocodilus</i>	houndfish			R	R		J		
Cyprinodontidae - killifishes and pupfishes									
<i>Cyprinodon variegatus</i>	sheepshead minnow	U	C	C	U		J	Ad	CEIP
Fundulidae - killifishes and topminnows									
<i>Fundulus confluentus</i>	marsh killifish	U	U	U	U		J	Ad	
<i>Fundulus heteroclitus</i>	mummichog	C	A	A	C		J	Ad	CEIP
<i>Fundulus luciae</i>	spotfin killifish		R	R			J	Ad	
<i>Fundulus majalis</i>	striped killifish	U	U	C	C		J	Ad	
<i>Lucania parva</i>	rainwater killifish		R	R			J	Ad	
Poeciliidae - livebearers									
<i>Gambusia affinis</i>	western mosquitofish	U	U	C	U		J	Ad	
<i>Poecilia latipinna</i>	sailfin molly	U	U	C	U		J	Ad	
Atherinopsidae - new world silversides									
<i>Membras martinica</i>	rough silverside		U	C	U	L	J	Ad	CEIP
<i>Menidia beryllina</i>	inland or tidewater silverside	R	U	U	R	L	J	Ad	
<i>Menidia menidia</i>	Atlantic silverside	C	A	A	A	L	J	Ad	CEIP
Fistulariidae - cornetfishes									
<i>Fistularia tabacaria</i>	bluespotted cornetfish			R			J		
Syngnathidae - pipefishes and seahorses									
<i>Hippocampus erectus</i>	lined seahorse		R	R	R		J	Ad	
<i>Syngnathus floridae</i>	dusky pipefish	R	U	U	R		J	Ad	CEIP
<i>Syngnathus fuscus</i>	northern pipefish	U	U	U	U		J	Ad	CEIP, MRRI
<i>Syngnathus louisianae</i>	chain pipefish		R	U	R		J	Ad	CEIP
Dactylopteridae - flying gurnards									
<i>Dactylopterus volitans</i>	flying gurnard			R			J		
Scorpaenidae - scorpionfishes									
<i>Scorpaena brasiliensis</i>	barbfish		R	R			J	Ad	
<i>Scorpaena calcarata</i>	smoothhead scorpionfish								MRRI
Centropomidae - snooks									
<i>Centropomus undecimalis</i>	common snook			R			J		
Moronidae - temperate basses									
<i>Morone americana</i>	white perch		R	R	R		J	Ad	MRRI
<i>Morone chrysops</i>	white bass								MRRI
<i>Morone saxatilis</i>	striped bass		R				J	Ad	MRRI
Serranidae - sea basses and groupers									
<i>Centropristis philadelphica</i>	rock sea bass		U	U	U		J	Ad	CEIP, MRRI
<i>Centropristis striata</i>	black sea bass		U	C	C		J	Ad	MRRI
<i>Diplectrum formosum</i>	sand perch			U	U		J		
<i>Epinephelus morio</i>	red grouper		R	R			J		
<i>Mycteroperca bonaci</i>	black grouper			R			J		
<i>Mycteroperca microlepis</i>	gag		U	C	U	L	J		CEIP
<i>Rypticus maculatus</i>	whitespotted soapfish			R			J		

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Centrarchidae - sunfishes									
<i>Centrarchus maculatus</i>	flier		R				J		
<i>Chaenobryttus (Lepomis) gulosus</i>	warmouth								MRR I
<i>Lepomis auritus</i>	redbreast sunfish								MRR I
<i>Lepomis microlophus</i>	redeer sunfish								MRR I
<i>Lepomis punctatus</i>	spotted sunfish								MRR I
<i>Micropterus salmoides</i>	largemouth bass								MRR I
Priacanthidae - bigeyes									
<i>Pristigenys alta</i>	short bigeye			R			J		
Pomatomidae - bluefishes									
<i>Pomatomus saltatrix</i>	bluefish		U	C	C		J	Ad	CEIP, MRR I
Rachycentridae - cobias									
<i>Rachycentron canadum</i>	cobia			R			J		CEIP
Echeneidae (Echeneididae) - remoras									
<i>Remora remora</i>	remora			R			J		
Carangidae - jacks and pompanos									
<i>Caranx hippos</i>	crevalle jack		U	C	C		J	Ad	CEIP
<i>Caranx latus</i>	horse-eye jack		U	U	U		J	Ad	
<i>Chloroscombrus chrysurus</i>	Atlantic bumper			U	U	L	J	Ad	CEIP, MRR I
<i>Selene vomer</i>	lookdown		U	C	U		J	Ad	CEIP, MRR I
<i>Trachinotus carolinus</i>	Florida pompano			C	U		J		
<i>Trachinotus falcatus</i>	permit			C	C		J		
<i>Oligoplites saurus</i>	leatherjacket			R	U		J		
Lutjanidae - snappers									
<i>Lutjanus analis</i>	mutton snapper				R		J		
<i>Lutjanus apodus</i>	schoolmaster			R	R		J		
<i>Lutjanus griseus</i>	gray snapper			U			J		CEIP, MRR I
<i>Lutjanus synagris</i>	lane snapper			R	R		J		
Lobotidae - tripletails									
<i>Lobotes surinamensis</i>	tripletail		R	R			J		
Gerreidae - mojarra									
<i>Diapterus auratus</i>	Irish pompano			U	U		J		CEIP
<i>Eucinostomus argenteus</i>	spotfin mojarra			A	C	L	J		CEIP
<i>Eucinostomus gula</i>	silver jenny			R	R		J		CEIP
Haemulidae - grunts									
<i>Haemulon plumieri</i>	white grunt			R			J		
<i>Orthopristis chrysoptera</i>	pigfish		U	U	R	L	J	Ad	CEIP
Sparidae - porgies									
<i>Archosargus probatocephalus</i>	sheepshead		U	U	U	L	J	Ad	CEIP, MRR I
<i>Diplodus holbrookii</i>	spottail pinfish			R			J		
<i>Lagodon rhomboides</i>	pinfish	U	C	A	A		J	Ad	CEIP, MRR I
<i>Pagrus pagrus</i>	red porgy			R			J		

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		W	Sp	S	F	L	J	Ad	
Sciaenidae - drums and croakers									
<i>Bairdiella chrysoura</i>	silver perch	R	U	C	U	L	J	Ad	CEIP, MRRI
<i>Cynoscion nebulosus</i>	spotted seatrout	C	C	C	C	L	J	Ad	CEIP, MRRI
<i>Cynoscion nothus</i>	silver seatrout		U	C	U		J	Ad	
<i>Cynoscion regalis</i>	gray trout or weakfish	R	U	U	C	L	J	Ad	CEIP, MRRI
<i>Larimus fasciatus</i>	banded drum			R		L	J	Ad	MRRI
<i>Leiostomus xanthurus</i>	spot	C	A	A	C	L	J	Ad	CEIP, MRRI
<i>Menticirrhus americanus</i>	southern kingfish			U	U	L	J	Ad	CEIP, MRRI
<i>Menticirrhus littoralis</i>	Gulf kingfish								CEIP
<i>Menticirrhus saxatilis</i>	northern kingfish			U		L	J		CEIP
<i>Micropogonias undulatus</i>	Atlantic croaker	U	U	C	U	L	J	Ad	CEIP, MRRI
<i>Pogonias cromis</i>	black drum	U	U	C	C	L	J		CEIP, MRRI
<i>Sciaenops ocellatus</i>	red drum	C	C	A	A	L	J	Ad	CEIP, MRRI
<i>Stellifer lanceolatus</i>	star drum				R		J		CEIP, MRRI
Ephippidae (Ephippididae) - spadefishes									
<i>Chaetodipterus faber</i>	Atlantic spadefish			U	U	L	J		CEIP, MRRI
Chaetodontidae - butterflyfishes									
<i>Chaetodon ocellatus</i>	spotfin butterflyfish			U	U		J		
Pomacentridae - damselfishes									
<i>Abudefduf saxatilis</i>	sergeant major			R	R		J		
Mugilidae - mullets									
<i>Mugil cephalus</i>	striped mullet	C	C	A	A		J	Ad	CEIP, MRRI
<i>Mugil curema</i>	white mullet		U	A	A		J	Ad	CEIP
Sphyraenidae - barracudas									
<i>Sphyraena barracuda</i>	great barracuda			R			J		
<i>Sphyraena borealis</i>	northern sennet		R	R			J		
Labridae - wrasses									
<i>Tautoga onitis</i>	tautog			R			J		
Uranoscopidae - stargazers									
<i>Astroscopus guttatus</i>	northern stargazer	R	R	R	R	?	J	Ad	
<i>Astroscopus y-graecum</i>	southern stargazer	R	R			?	J	Ad	MRRI
Blenniidae - combtooth blennies									
<i>Chasmodes bosquianus</i>	striped blenny	U	U	C	U		J	Ad	CEIP
<i>Hypoleurochilus geminatus</i>	crested blenny	U	C	C	U	L	J	Ad	
<i>Hypsoblennius hentz</i>	feather blenny	R	U	U	R	L	J	Ad	CEIP, MRRI
<i>Hypsoblennius ionthas</i>	freckled blenny	U	R	R	U			Ad	MRRI
Eleotridae (Eleotrididae) - sleepers									
<i>Dormitator maculatus</i>	fat sleeper	U	U	C	U		J	Ad	
<i>Elotris pisonis</i>	spinycheek sleeper	U	U	U	U		J	Ad	
Gobiidae - gobies									
<i>Ctenogobius boleosoma</i>	darter goby	R	C	C	U	L	J	Ad	CEIP
<i>Ctenogobius shufeldti</i>	freshwater goby		U	A		L	J	Ad	CEIP, MRRI
<i>Evorthodus lyricus</i>	lyre goby		R	R			J	Ad	
<i>Gobionellus oceanicus</i>	highfin or sharptail goby		U	A	U	L	J	Ad	CEIP
<i>Gobiosoma bosc</i>	naked goby	C	A	A	A	L	J	Ad	CEIP
<i>Gobiosoma ginsburgi</i>	seaboard goby	R	R	R	R	L	J	Ad	CEIP
<i>Microgobius gulosus</i>	clown goby			R			J	Ad	CEIP

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<i>Microgobius thalassinus</i>	green goby		R	R			J	Ad	CEIP
Microdesmidae - wormfishes									
<i>Microdesmus longipinnis</i>	pink wormfish			R				Ad	
Trichiuridae - ribbonfishes and cutlassfishes									
<i>Trichiurus lepturus</i>	Atlantic cutlassfish	R	U	U			J	Ad	
Scombridae - mackerels, tunas, albacores, and bonitos									
<i>Scomberomorus cavalla</i>	king mackerel			U	U			Ad	
<i>Scomberomorus maculatus</i>	Spanish mackerel		U	U			J	Ad	CEIP
Stromateidae - butterfishes, harvestfishes, and rudderfishes									
<i>Peprilus paru (alepidotus)</i>	harvestfish		R	R			J		CEIP, MRRI
<i>Peprilus triacanthus</i>	butterfish			R			J		CEIP, MRRI
Triglidae - searobins									
<i>Prionotus carolinus</i>	northern searobin		R	R			J		MRRI
<i>Prionotus evolans</i>	striped searobin		U				J		MRRI
<i>Prionotus scitulus</i>	leopard searobin		U	C	U		J	Ad	MRRI
<i>Prionotus tribulus</i>	bighead searobin		U	U	R		J	Ad	CEIP, MRRI
Paralichthyidae - lefteye flounders and sand flounders									
<i>Ancylosetta ommata (quadrocellata)</i>	ocellated flounder	U	C	C	C	L	J	Ad	CEIP, MRRI
<i>Citharichthys macrops</i>	spotted whiff			R	R	L	J	Ad	
<i>Citharichthys spilopterus</i>	bay whiff	U	U	C	C	L	J	Ad	CEIP, MRRI
<i>Etropus crossotus</i>	fringed flounder	U	C	C	C	L	J	Ad	CEIP, MRRI
<i>Etropus cycloquamus</i>	shelf flounder			R			J		
<i>Etropus rimosus</i>	gray flounder			R					
<i>Hippoglossina (Paralichthys) oblongus</i>	four spot flounder		U	U			J	Ad	
<i>Paralichthys albigutta</i>	Gulf flounder	R				L	J	Ad	
<i>Paralichthys dentatus</i>	summer flounder	C	C	C	U	L	J	Ad	CEIP, MRRI
<i>Paralichthys lethostigma</i>	southern flounder	C	C	C	C	L	J	Ad	CEIP, MRRI
Scophthalmidae - turbot									
<i>Scophthalmus aquosus</i>	windowpane	U	U	U	U		J	Ad	MRRI
Cynoglossidae - tonguefishes									
<i>Symphurus civitatum</i>	offshore tonguefish	R	U	R	R		J	Ad	
<i>Symphurus plagiusa</i>	blackcheek tonguefish	U	C	C	U	L	J	Ad	CEIP, MRRI
Achiridae - American and scrawled soles									
<i>Trinectes maculatus</i>	hogchoker	R	U	A	U	L	J	Ad	CEIP, MRRI
Monacanthidae - filefishes									
<i>Aluterus schoepfii (Aluterus schoepfii & Balistes schoepfii)</i>	orange filefish			R			J		
<i>Stephanolepis hispidus (Monacanthus hispidus)</i>	planehead filefish		U	C	U		J	Ad	CEIP, MRRI
Diodontidae - burrfishes and porcupinefishes									
<i>Chilomycterus schoepfii (schoepfii)</i>	striped burrfish		U	C	U		J	Ad	MRRI
Tetraodontidae - blowfishes, rabbitfishes, and puffers									
<i>Lagocephalus laevigatus</i>	smooth puffer			R			J	Ad	
<i>Sphoeroides maculatus</i>	northern puffer		U	U	R		J	Ad	CEIP
<i>Sphoeroides spengleri</i>	bandtail puffer		R				J		