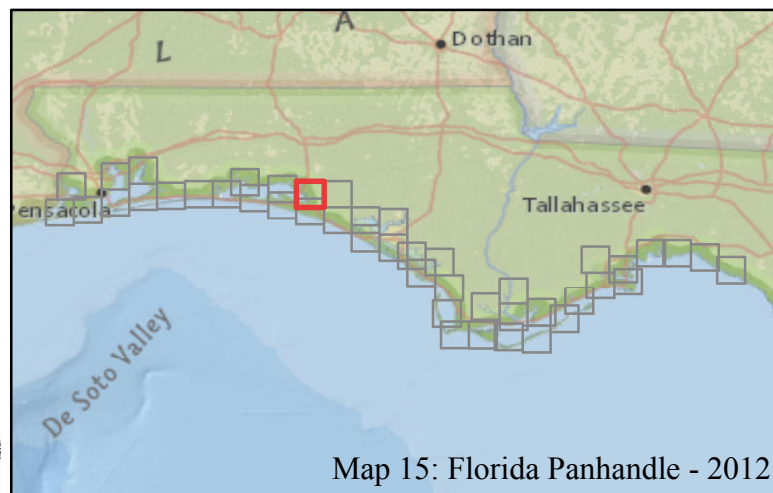


Indian Island, Florida



ESI Shoreline Habitats on Map





- 10A Salt- and brackish-water marshes
- 10B Freshwater marshes
- 10C Swamps
- 10D Scrub-shrub wetlands
- 9A Sheltered tidal flats
- 8B Sheltered, solid man-made structures
- 8C Sheltered riprap
- 6B Riprap
- 3A Fine- to medium-grained sand beaches






Indian Island, Florida

BIOLOGICAL RESOURCES

Birds



Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	MIGRATING	MOLTING
 Diving	Brown pelican	C		-	X	X	X	X	X	X	X	X	X	X	X	X			
	Common loon			-	X	X	X	X							X	X			
 Gull/Tern	Black skimmer	C		-					X	X	X	X	X						
	Laughing gull			-	X	X	X	X	X	X	X	X	X	X	X	X			
	Least tern	T		-					X	X	X	X	X						
	Ring-billed gull			-	X	X	X	X	X	X	X	X	X	X	X	X			
 Raptor	Bald eagle			-	X	X	X	X	X	X	X	X	X	X	X	X	Nov-Jun		
	Osprey	C		-	X	X	X	X	X	X	X	X	X	X	X	X			
 Waterfowl	American coot			100S	X	X							X	X	X	X			
	Lesser scaup			100S	X	X	X	X						X	X	X			
	Red-breasted merganser			100S	X	X	X	X						X	X	X			
	Redhead			10S	X	X	X								X	X			

Fish

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	EGGS	LARVAE	JUVENILE	ADULT
 Diadromous	Alabama shad	C		ABUNDANT		X	X	X	X	X	X	X	X	X	X	X				May-Nov	Feb-May
	Gizzard shad			RARE	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Aug	Mar-Aug	Mar-Sep	Jan-Dec	Jan-Dec
	Gulf sturgeon	T	T	ABUNDANT	X	X	X	X						X	X	X	Mar-May	Mar-May	Apr-Jul	Jan-Dec	Jan-Dec
 Estuarine Nursery	Atlantic croaker			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X			Oct-Mar	Jan-Dec	May-Sep
	Atlantic sharpnose shark			PRESENT				X	X	X	X	X	X				May-Jul		Apr-Oct	Apr-Oct	Apr-Oct
	Bay anchovy			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Oct	Mar-Oct	Mar-Oct	Jan-Dec	Jan-Dec
	Black drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			Jan-Apr	Jan-Dec	Jan-Dec
	Black sea bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					
	Bluefish			ABUNDANT				X	X	X	X	X	X	X	X	X				Mar-Nov	Mar-Nov
	Bull shark			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			Apr-Jun	Jan-Dec	Jan-Dec
	Gray snapper			COMMON	X					X	X	X	X	X	X	X				Jun-Jan	Sep-Oct
	Grunts			PRESENT				X	X	X	X	X	X	X	X	X					
	Gulf flounder			COMMON	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Sep
	Gulf menhaden			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X			Aug-Feb	Jan-Dec	Mar-Oct
	Hardhead catfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Hogchoker			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Oct	Apr-Oct	Apr-Oct	Jan-Dec	Jan-Dec
	Kingfishes			COMMON				X	X	X	X	X	X	X	X	X				Apr-Nov	
	Ladyfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Lane snapper			PRESENT						X	X	X	X								
	Mojarras			COMMON							X	X	X	X	X	X				Jul-Dec	
	Pigfish			ABUNDANT				X	X	X	X	X	X							Apr-Oct	
	Pinfish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X			Nov-Jul	Jan-Dec	May-Nov
	Red drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			Sep-Dec	Jan-Dec	Jan-Dec
	Sand seatrout			COMMON				X	X	X	X	X	X	X	X	X	Mar-Aug	Mar-Sep	Mar-Sep	Jan-Dec	Jan-Dec
	Sheepshead			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			Mar-Jul	Jan-Dec	Jan-Dec
	Silver mullet			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X				May-Oct	Jan-Dec
	Southern flounder			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			Nov-Feb	Jan-Dec	Mar-Oct
	Spot			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X			Nov-Apr	Jan-Dec	Feb-Nov
	Spotted seatrout			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X			Mar-Oct	Jan-Dec	Jan-Dec
	Striped mullet			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X			Nov-Mar	Jan-Dec	Mar-Sep
	Tarpon			COMMON	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jun-Aug
 Estuarine Resident	Code goby			RARE	X	X	X	X	X	X	X	X	X	X	X	X	Oct-Jan*	Oct-Jan*	Oct-Jan*	Jan-Dec	Jan-Dec
	Gulf killifish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Sep	Mar-Sep	Apr-Oct	May-Feb	Jan-Dec
	Sheepshead minnow			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Nov	Apr-Nov	Apr-Nov	May-Feb	Jan-Dec
	Silver perch			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec
	Silversides			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Sep	Mar-Sep	Mar-Oct	Jan-Dec	Jan-Dec
	Smalltooth sawfish	E		PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec


Indian Island, Florida (continued)

Fish (continued)



Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	EGGS	LARVAE	JUVENILE	ADULT
 Marine Benthic	Atlantic spadefish			PRESENT						X	X	X	X	X							
	Cusk eels			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Apr-Sep	
	Flatfish			COMMON				X	X	X	X	X	X								
	Gray triggerfish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					
	Lizardfishes			COMMON				X	X	X	X	X	X	X	X	X				Apr-Dec	
	Permit			PRESENT						X	X	X	X	X							
	Rays			COMMON	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Red snapper			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					
	Rock sea bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					
	Searobins			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	
	Skates			COMMON	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Tonguefish			COMMON				X	X	X	X	X	X	X					Apr-Oct		Jul
 Marine Pelagic	Cobia			ABUNDANT		X	X	X	X	X	X	X	X	X	X		May-Sep	May-Sep			Mar-Nov
	Crevalle jack			COMMON						X	X	X	X	X	X					Jun-Nov	May-Nov
	Scalloped hammerhead			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	May-Jun		Apr-Oct	Jan-Dec	Apr-Nov
	Spanish mackerel			PRESENT				X	X	X	X	X	X	X	X					Jul-Sep	Jul-Sep
	Thread herring			PRESENT						X	X	X	X	X							

(*) = This life stage occurs during the months listed, but not continuously.


Habitats and Rare Plants

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D
 Plant	Ashe's magnolia	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Chapman's crownbeard	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Curtiss' sandgrass	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Florida flame azalea	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Gulf Coast lupine	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Hummingbird flower	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Spoon-leaved sundew	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	White-top pitcherplant	E		-	X	X	X	X	X	X	X	X	X	X	X	X

Marine Mammals

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING	PUPPING	MOLTING
 Dolphin	Bottlenose dolphin			-	X	X	X	X	X	X	X	X	X	X	X	X				
 Manatee	West Indian manatee	E	E	LOW			X	X	X	X	X	X	X	X	X					

Reptiles and Amphibians

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING	INTERNESTING	JUVENILE	ADULT
 Turtle	Green sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Hawksbill sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Kemp's ridley sea turtle	E	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Leatherback sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Loggerhead sea turtle	T	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X			Apr-Sep	Jan-Dec	Jan-Dec




Indian Island, Florida (continued)

Human Use Resources

Icon	Type	Name	Contact	Phone
	Recreational Fishing	Shellfish Harvesting Area		
	Recreational Fishing	Us 331 Fishing Pier-north		
	Recreational Fishing	Us 331 Fishing Pier-south		
	Park	Eden Gardens State Park		
	Oil Facilities	Freeport Terminal	MURPHY OIL USA, INC.	850/835-4123
	Marina	Gene's Marina	DOCKMASTER	850/835-2315
	Management Area	Choctawatchee Bay Swim	NWFWMD SWIM	850/539-5999
	Management Area	Choctawatchee River Delta Preserve	DAVID PRINTISS	850/643-2756
	Management Area	Choctawatchee River Water Ma		850/539-5999
	Management Area	Point Washington State Forest	FORESTRY RESOURCE ADMINISTRATOR	850/231-5800
	Management Area	St. Andrew Bay Watershed Swim	NWFWMD SWIM	850/539-5999
	Historical Site	Historic Property	FL SHPO	850/245-6440
	Critical Habitat	Gulf Sturgeon Critical Habitat	FWRI	
	Boat Ramp	Black Creek Lodge		850/835-2541
	Boat Ramp	Choctawatchee Bay Ramp Central		
	Boat Ramp	Choctawatchee Bay Ramp North		850/892-8703
	Boat Ramp	Four Mile Creek		850/835-2822
	Boat Ramp	Lafayette Creek/shipyard Rd		850/835-2822
	Boat Ramp	The Outpost		850/835-2779
	Boat Ramp	Unknown Boat Ramp		










SHORELINE RESOURCES:

ESI Polygon Habitats

Pattern	ESI Rank	Habitat	Area (meters ²)
	10A	Salt- and brackish-water marshes	4,047,986
	10B	Freshwater marshes	3,594,204
	10C	Swamps	49,524,248
	10D	Scrub-shrub wetlands	12,581,095
	9A	Sheltered tidal flats	150,358

Indian Island, Florida (continued)

Shoreline Types (Length of ESI Shoreline on Map = 289,878 meters ; Length of Shoreline on Map = 289,178 meters)

Color	ESI Rank	Shoreline Habitat	Length (meters)	% of ESI Shoreline
	10A	Salt- and brackish-water marshes	261,615	90
	10B	Freshwater marshes	1,938	<1
	10C	Swamps	164,432	56
	10D	Scrub-shrub wetlands	18,235	6
	9A	Sheltered tidal flats	766	<1
	8B	Sheltered, solid man-made structures	9,986	3
	8C	Sheltered riprap	9,701	3
	6B	Riprap	107	<1
	3A	Fine- to medium-grained sand beaches	10,287	3

Note: A shoreline segment may include multiple shoreline habitats. If any segments include multiple habitats, the combined length of all habitats will exceed the length of the mapped ESI shoreline, and the percent of ESI shoreline values will sum to greater than 100%.



Content from Florida Panhandle - 2012 ESI Atlas