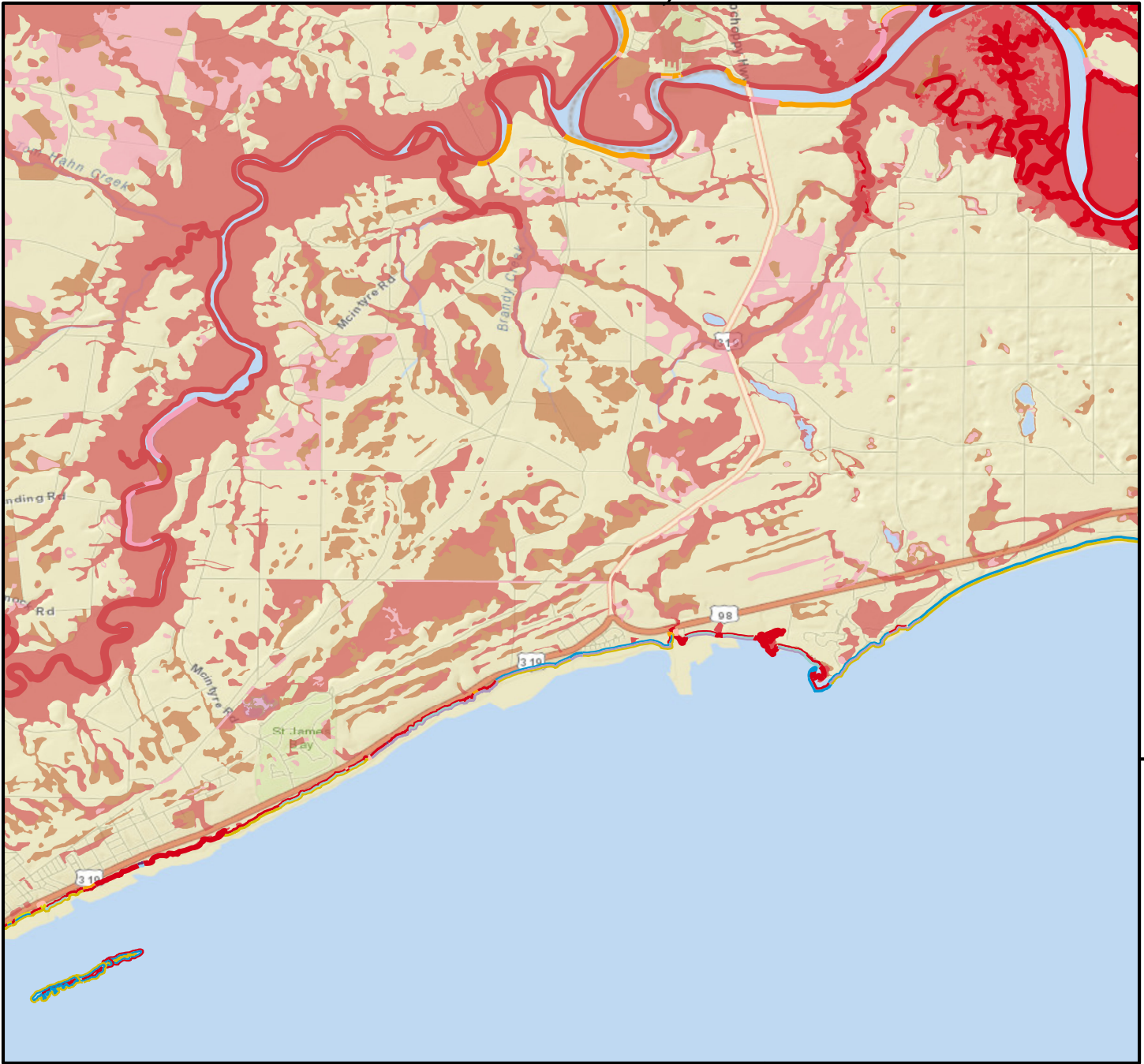


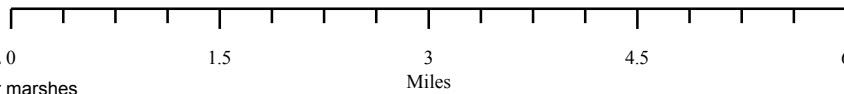
# St James Island, Florida



84°36'0"W

84°30'0"W

29°54'0"N

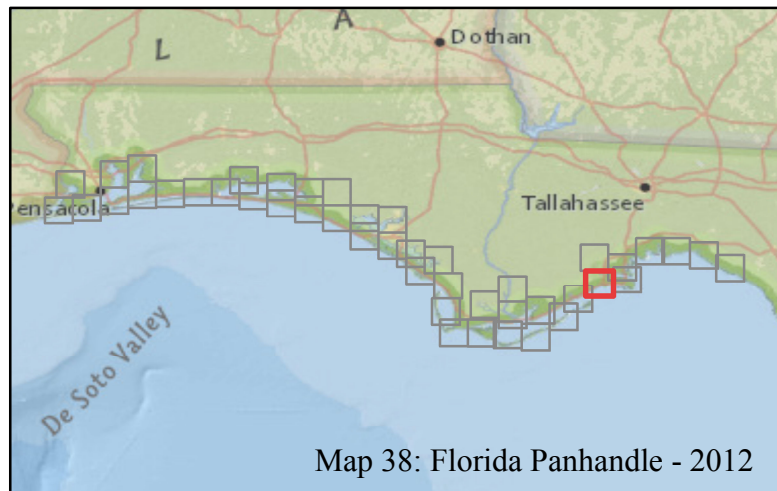


## ESI Shoreline Habitats on Map 0

- 10A Salt- and brackish-water marshes
- 10B Freshwater marshes
- 10C Swamps
- 10D Scrub-shrub wetlands
- 9B Vegetated low banks
- 8B Sheltered, solid man-made structures
- 7 Exposed tidal flats
- 6B Riprap
- 5 Mixed sand and gravel beaches
- 4 Coarse-grained sand beaches
- 3A Fine- to medium-grained sand beaches
- 2B Exposed scarps and steep slopes in clay

Additional shoreline types are present - see back of map







Content from Florida Panhandle - 2012 ESI Atlas








Map 38: Florida Panhandle - 2012

# St James 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	American white pelican			-	X	X	X	X	X	X						X				
	Brown pelican	C		-	X	X	X	X	X	X	X	X	X	X	X	X	Nov-Sep			
	Common loon			-	X	X	X	X							X	X				
 Gull/Tern	Black skimmer	C		-					X	X	X	X					May-Sep			
	Caspian tern			1-ADULT	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Aug			
	Gull-billed tern			5-6-NESTS			X	X	X	X	X	X	X	X	X	X	May-Aug			
	Laughing gull			-	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug			
	Least tern	T		-					X	X	X	X					Apr-Aug			
	Ring-billed gull			-	X	X	X	X	X	X	X	X	X	X	X	X				
	Royal tern			26-ADULTS	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Aug			
	Sandwich tern			36-NESTS	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug			
 Pelagic	Northern gannet			-	X	X	X	X							X					
 Raptor	Bald eagle			-	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					
 Shorebird	American oystercatcher	C		-	X	X	X	X	X	X	X	X	X	X	X	Mar-Jul				
	Black-bellied plover			-	X	X	X	X		X	X	X	X	X	X					
	Dunlin			-	X	X	X	X			X	X	X	X	X					
	Marbled godwit			-	X	X	X	X		X	X	X	X	X	X					
	Piping plover	T T		-	X	X	X	X			X	X	X	X	X					
	Red knot			249-BIRDS	X	X	X	X	X	X	X	X	X	X	X					
	Sanderling			-	X	X	X	X		X	X	X	X	X	X					
	Semipalmated plover			-	X	X	X	X		X	X	X	X	X	X					
	Short-billed dowitcher			-	X	X	X	X	X	X	X	X	X	X	X					
	Snowy plover	T		4-ADULTS		X	X	X	X	X						Mar-Aug				
	Western sandpiper			-	X	X	X	X		X	X	X	X	X	X					
	Willet			18-38-ADULTS	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul				
	Wilson's plover			2-28-ADULTS	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul				
	Yellowlegs			-	X	X	X	X			X	X	X	X	X					
 Waterfowl	American black duck			-	X	X	X	X						X	X	X				
	American coot		10S	-	X	X								X	X	X	Mar-Aug			
	American wigeon			-	X	X	X	X						X	X	X				
	Blue-winged teal			-	X	X	X	X	X		X	X	X	X	X	X				
	Bufflehead			-	X	X									X					
	Canada goose			-	X	X	X							X	X	X				
	Canvasback			-	X	X	X								X	X				
	Cinnamon teal			-	X	X	X	X	X		X	X	X	X	X	X				
	Common goldeneye			-	X	X	X								X					
	Gadwall			-	X	X	X								X	X	X			
	Green-winged teal		10S	-	X	X	X	X						X	X	X				
	Lesser scaup		100S	-	X	X	X	X							X	X	X			
	Mallard			-	X	X	X							X	X	X				
	Mottled duck			-	X										X	X	X			
	Northern pintail		10S	-	X	X	X								X	X	X			
	Northern shoveler			-	X	X	X	X						X	X	X				
	Red-breasted merganser			-	X	X	X	X							X	X	X			
	Redhead			-	X	X	X								X	X				
	Ring-necked duck			-	X	X	X	X							X	X	X			
	Ruddy duck		10S	-	X	X	X	X							X	X	X			
Scaup		1000S	-	X	X	X	X							X	X	X				

## St James Island, Florida (continued)


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	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Apr	Mar-Apr	Apr-May	Jan-Dec	Jan-Dec
	Gizzard shad			COMMON	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-Aug	Mar-Aug	Mar-Aug	Jan-Dec	Jan-Dec
	Striped bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					Jan-Dec
 Estuarine Nursery	Atlantic croaker			COMMON	X	X	X	X	X	X	X	X	X	X	X	Sep-Apr	Sep-Apr	Sep-Apr	Jan-Dec	Jan-Dec	
	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				Jan-Nov	Jan-Nov	Jan-Dec	Jan-Dec	Jan-Dec	
	Black drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	Nov-Apr	Nov-Apr	Dec-May	Jan-Dec	Jan-Dec	
	Black sea bass			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Dec-Apr	Dec-Apr	Dec-May	Jan-Dec	Jan-Dec	
	Bluefish			COMMON			X	X	X	X	X	X	X	X		Sep-Jan*	Sep-Jan*	Sep-Jan*	Jan-Dec	Jan-Dec	
	Bonnethead shark			PRESENT	X	X	X	X	X	X	X	X	X	X	X	Oct-Nov		Aug-Sep	Oct-Jan*	Jul-May	
	Bull shark			COMMON	X	X	X	X	X	X	X	X	X	X	X	Jun-Aug		Apr-Jun	Jan-Dec	Jan-Dec	
	Gray snapper			COMMON	X	X	X	X	X	X	X	X	X	X	X	Jun-Nov	Jun-Nov	Jun-Dec	Jan-Dec	Jan-Dec	
	Grunts			PRESENT			X	X	X	X	X	X	X	X	X				Jun-Sep		
	Gulf flounder			COMMON	X	X	X	X	X	X	X	X	X	X	X	Nov-Feb	Nov-Feb	Nov-Mar	Jan-Dec	Jan-Dec	
	Gulf menhaden			ABUNDANT				X	X	X	X	X	X			Oct-Mar	Oct-Mar	Oct-Apr	Jan-Dec	Jan-Dec	
	Hardhead catfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec	
	Hogchoker			COMMON	X	X	X	X	X	X	X	X	X	X	X	Apr-Oct	Apr-Oct	Apr-Oct	Jan-Dec	Jan-Dec	
	Kingfishes			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X				Apr-Dec		
	Ladyfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	Jan-Nov	Jan-Nov	Jan-Dec	Jan-Dec	Jan-Dec	
	Lane snapper			PRESENT						X	X	X	X			Sep-Jan*	Sep-Jan*	Sep-Jan*	Jun-Jan*	Sep-Jan*	
	Mojarras			PRESENT						X	X	X	X	X		Apr-Nov	Apr-Nov	Apr-Nov	Jun-Feb	Apr-Nov	
	Pigfish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Jan-May	Jan-May	Jan-Dec		Jan-May	
	Pinfish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Oct-Apr	Oct-Apr	Oct-Apr	Jan-Dec	Jan-Dec	
	Porgy spp.			PRESENT	X	X	X	X	X	X	X	X	X	X	X	Jan-Aug	Jan-Aug	Jan-Sep	Jan-Dec	Apr-Dec	
	Red drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	Sep-Dec	Sep-Dec	Sep-Feb	Jan-Dec	Jan-Dec	
	Sand seatrout			HIGHLY-ABUNDANT			X	X	X	X	X	X	X			Mar-Sep	Mar-Sep	Mar-Oct	Jan-Dec	Jan-Dec	
	Sheepshead			RARE	X	X	X	X	X	X	X	X	X	X	X	Feb-Apr	Feb-Apr	Feb-Jul	Jan-Dec	Jan-Dec	
	Silver mullet			COMMON	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	Nov-Jan	Nov-Jan	Oct-May	Jan-Dec	Jan-Dec	
	Spot			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Oct-Apr	Oct-Apr	Oct-Apr	Jan-Dec	Jan-Dec	
	Spotted seatrout			COMMON	X	X	X	X	X	X	X	X	X	X	X	Apr-Dec	Apr-Sep	Apr-Oct	Jan-Dec	Jan-Dec	
Striped mullet			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Oct-Mar	Oct-Mar	Oct-Apr	Jan-Dec	Jan-Dec		
Tarpon			COMMON	X	X	X	X	X	X	X	X	X	X	X			Aug-Dec	Jan-Dec	Jan-Dec		
Yellowfin menhaden			RARE			X	X	X	X	X	X	X			Jan-Dec	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec		
 Estuarine Resident	Code goby			RARE	X	X	X	X	X	X	X	X	X	X	Mar-Aug	Mar-Aug	Mar-Sep	Jan-Dec	Jan-Dec		
	Gulf killifish			COMMON	X	X	X	X	X	X	X	X	X	X	Apr-Aug	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec		
	Sheepshead minnow			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	Apr-Sep	Apr-Oct	Apr-Nov	Jan-Dec	Jan-Dec		
	Silver perch			COMMON	X	X	X	X	X	X	X	X	X	X	Mar-Aug	Mar-Sep	Mar-Sep	Jan-Dec	Jan-Dec		
	Silversides			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec		
	Smalltooth sawfish	E		PRESENT	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec		
 Fish	Vermillion snapper			COMMON			X	X	X	X	X	X			Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov		
 Freshwater	Bluegill			ABUNDANT	X	X	X	X	X	X	X	X	X	X	Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec		
	Largemouth bass			ABUNDANT	X	X	X	X	X	X	X	X	X	X	Mar-May	Mar-May	Mar-May	Jan-Dec	Jan-Dec		

## St James 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				May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec	
	Cusk eels			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Flatfish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Florida pompano			COMMON				X	X	X	X	X	X	X	X			Mar-Oct	Mar-Oct	Mar-Sep	Mar-Nov	
	Gag grouper			COMMON	X	X			X	X	X	X	X	X	X						May-Oct	Oct-Feb
	Goatfishes			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Mar-Jun	Mar-Jun	Mar-Jul	Jan-Dec	Jan-Dec
	Gray triggerfish			PRESENT	X	X	X	X	X	X	X	X	X	X	X			May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Little tunny			PRESENT	X	X	X	X	X	X	X	X	X	X	X							
	Lizardfishes			COMMON	X	X	X	X	X	X								Apr-Aug	Apr-Aug	Apr-Oct	Jan-Dec	Jan-Dec
	Permit			PRESENT							X	X	X	X				Apr-Jun	Apr-Jun	Mar-Oct	Aug-Nov	Mar-Nov
	Rays			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Red snapper			PRESENT	X	X	X	X	X	X	X	X	X	X	X			May-Oct	May-Oct	May-Nov	Apr-Jan	Apr-Jan
	Rock sea bass			COMMON					X	X	X	X	X	X	X			Mar-Jun	Mar-Jun	Mar-Jul	Jan-Dec	Jan-Dec
	Scamp grouper			HIGHLY-ABUNDANT				X	X	X	X	X	X	X	X			Mar-May	Mar-May	Mar-Jun	Mar-Nov	Apr-Nov
	Searobins			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Skates			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Tonguefish			COMMON	X	X	X	X	X	X	X	X	X	X	X			Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
 Marine Pelagic	Amberjacks			HIGHLY-ABUNDANT				X	X	X	X	X	X	X			Apr-Nov	Apr-Nov	Apr-Dec	Apr-Dec	Apr-Dec	
	Atlantic tripletail			PRESENT	X	X	X	X	X	X	X	X	X	X			May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec	
	Ballyhoo			PRESENT						X	X	X										
	Bigeye scad			PRESENT	X	X	X	X	X	X	X	X	X	X				Jun-Nov	Jun-Nov	Jun-Dec	Jan-Dec	Jan-Dec
	Blackfin tuna			PRESENT				X	X	X	X	X	X	X				Apr-Dec	Apr-Dec	Apr-Dec	Apr-Dec	Oct
	Blacknose shark			PRESENT	X	X	X	X	X	X	X	X	X	X				May-Jul		May-Oct	May-Oct	Jan-Dec
	Blacktip shark			PRESENT			X	X	X	X	X	X	X	X				May-Jun		May-Sep	Mar-Nov	Apr-Nov
	Blue runner			COMMON						X	X	X	X					Apr-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec
	Bluefin tuna	C		PRESENT				X	X	X								Apr-Jun	Apr-Jun	Apr-Jun	Apr-Jun	Apr-Jun
	Cobia			PRESENT	X	X	X	X	X	X	X	X	X	X				May-Sep	May-Sep	May-Sep	Mar-Nov	Mar-Nov
	Crevalle jack			COMMON			X	X	X	X	X	X	X	X				Apr-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec
	Dolphin			ABUNDANT	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jul-Aug
	King mackerel			PRESENT						X	X	X	X					Jun-Oct	Jun-Oct	Jun-Oct	Jun-Nov	Jun-Nov
	Red grouper			PRESENT	X	X	X	X	X	X	X	X	X	X				Mar-Jul				Jan-Dec
	Round scad			PRESENT	X	X	X	X	X	X	X	X	X	X				Sep-Jan*	Sep-Jan*	Sep-Jan*	Jan-Dec	Jan-Dec
	Scalloped hammerhead			-	X	X	X	X	X	X	X	X	X	X				May-Jun		Apr-Oct	Jan-Dec	Apr-Nov
	Spanish mackerel			RARE	X	X	X	X	X	X	X	X	X	X				May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
	Spanish sardine			PRESENT	X	X	X	X	X	X	X	X	X	X				Mar-Nov	Mar-Nov	Mar-Nov	Jan-Dec	Jan-Dec
	Spinner shark			-					X	X	X	X						May-Jun			Jun-Sep	May-Jun
Thread herring			COMMON						X	X	X	X					Mar-Sep	Mar-Sep	Mar-Sep	Apr-Dec	Jan-Dec	
Wahoo			COMMON	X	X	X	X	X	X	X	X	X	X				Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec	

(\*) = 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	Curtiss' loosestrife	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Godfrey's blazing star	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Scare-weed	T		-	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					
 Manatee	West Indian manatee	E	E	LOW			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	INTERESTING	JUVENILE	ADULT
 Alligator	American alligator	S		-	X	X	X	X	X	X	X	X	X	X	X		May-Jul	Aug-Sep			

## St James Island, Florida (continued)

### Reptiles and Amphibians (continued)




Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING	INTERESTING	JUVENILE	ADULT
 Snake	Gulf salt marsh snake			MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Apr	Jul-Aug			Jan-Dec
 Turtle	Diamondback terrapin			VERY-HIGH			X	X	X	X	X	X	X	X	X	X	Apr-Jun	Aug-Sep	May-Nov		
	Gopher tortoise	T	E	-	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Dec				
	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
Suwannee cooter	C		-	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Aug					

### Human Use Resources

Icon	Type	Name	Contact	Phone
	Wildlife Refuge	St. Marks Nwr		850/925-6121
	Water Intake	Fsu Coastal And Marine Laboratory	LABORATORY DIRECTOR	850/697-4120
	Recreational Fishing	Shellfish Harvesting Area		
	Park	Ochlockonee River State Park		
	Management Area	Alligator Harbor Aquatic Preserve		850/670-4783
	Management Area	Apalachicola River And Bay Swim	NWFWMD SWIM	850/539-5999
	Management Area	Tate's Hell State Forest	DAVID MORSE, FORESTRY OPERATIONS ADMINISTRATOR; VICTOR ROLAND, FOREST AREA SUPE	850/697-3734
	Historical Site	Historic Property	FL SHPO	850/245-6440
	Critical Habitat	Gulf Sturgeon Critical Habitat	FWRI	
	Critical Habitat	Piping Plover Critical Habitat	USFWS	
	Boat Ramp	Gretchen Lane Ramp		
	Boat Ramp	Lanark Village Boat Club		850/607-2736
	Boat Ramp	Ochlockonee River And Sopchoppy Highway		
	Boat Ramp	Ochlockonee River State Park		850/962-2771
	Boat Ramp	Rock Landing Ramp		


### SHORELINE RESOURCES:

#### ESI Polygon Habitats

Pattern	ESI Rank	Habitat	Area (meters <sup>2</sup> )
	10A	Salt- and brackish-water marshes	4,264,444
	10B	Freshwater marshes	7,620,064
	10C	Swamps	35,870,735
	10D	Scrub-shrub wetlands	11,002,583

## St James Island, Florida (continued)

**Shoreline Types** (Length of ESI Shoreline on Map = 157,894 meters ; Length of Shoreline on Map = 157,894 meters)

Color	ESI Rank	Shoreline Habitat	Length (meters)	% of ESI Shoreline
	10A	Salt- and brackish-water marshes	58,489	37
	10B	Freshwater marshes	5,866	3
	10C	Swamps	79,062	50
	10D	Scrub-shrub wetlands	1,445	<1
	9B	Vegetated low banks	5,819	3
	8B	Sheltered, solid man-made structures	718	<1
	7	Exposed tidal flats	15,049	9
	6B	Riprap	325	<1
	5	Mixed sand and gravel beaches	3,931	2
	4	Coarse-grained sand beaches	566	<1
	3A	Fine- to medium-grained sand beaches	12,471	7
	2B	Exposed scarps and steep slopes in clay	7,437	4
	1B	Exposed, solid man-made structures	111	<1

**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