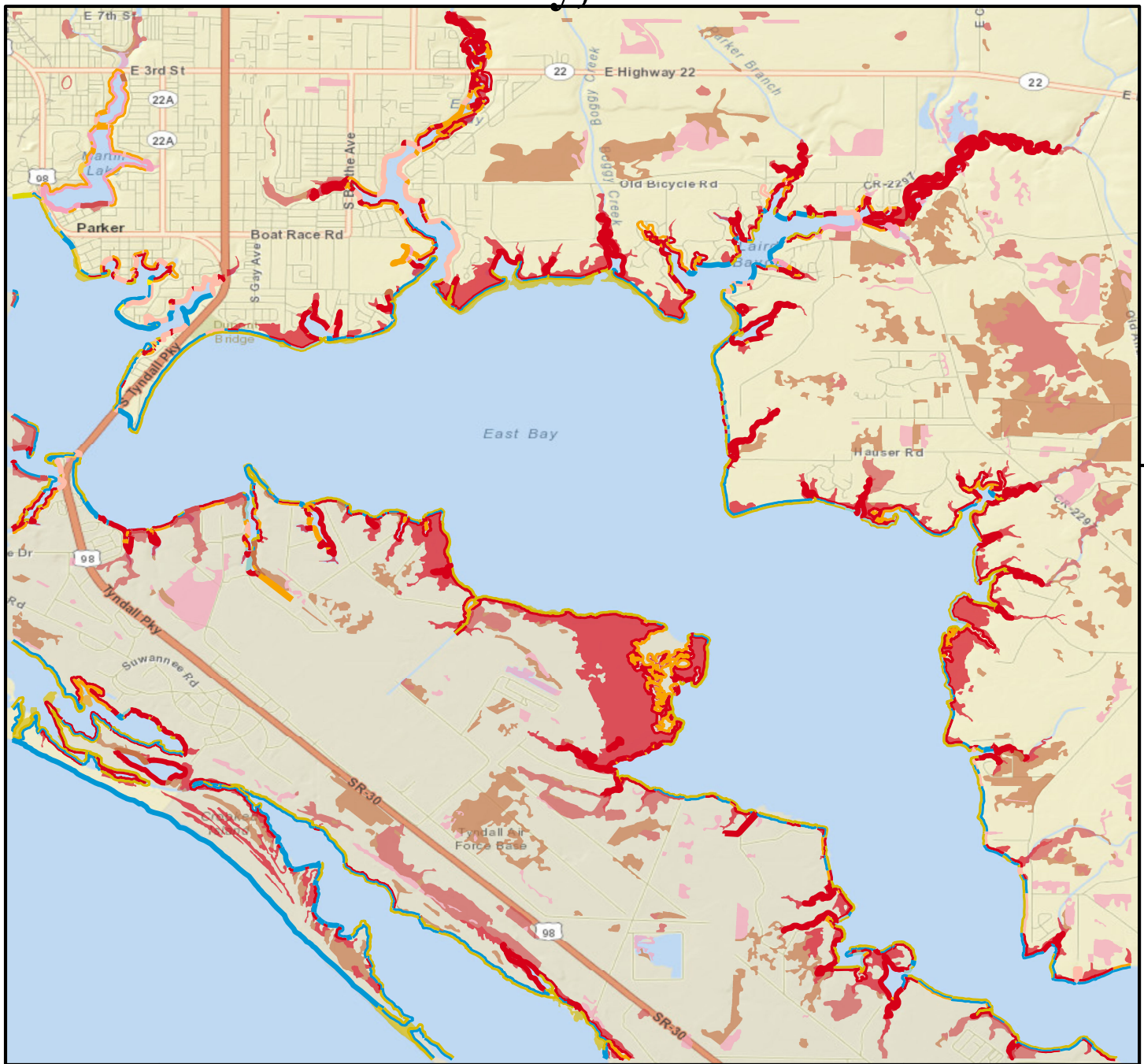


East Bay, Florida

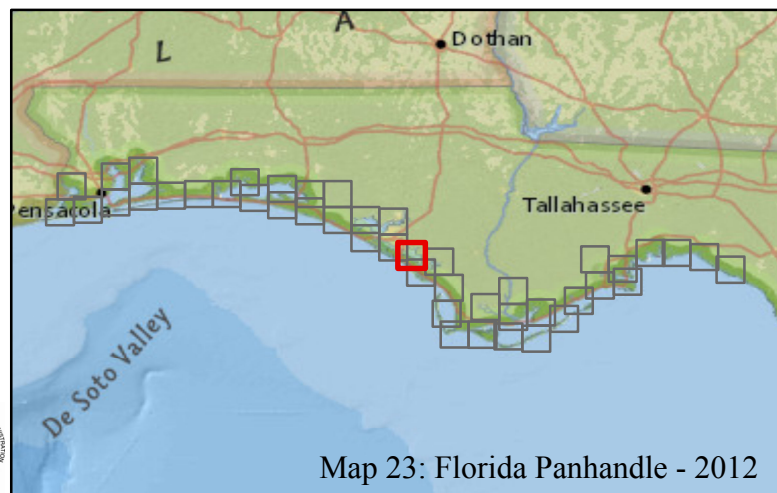


ESI Shoreline Habitats on Map

- 10A Salt- and brackish-water marshes
- 10B Freshwater marshes
- 10C Swamps
- 10D Scrub-shrub wetlands
- 9A Sheltered tidal flats
- 9B Vegetated low banks
- 8A Sheltered scarps in bedrock, mud or clay
- 8B Sheltered, solid man-made structures
- 8C Sheltered riprap
- 7 Exposed tidal flats
- 6B Riprap
- 5 Mixed sand and gravel beaches

Additional shoreline types are present - see back of map

Content from Florida Panhandle - 2012 ESI Atlas









Map 23: Florida Panhandle - 2012


East Bay, 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				May-Sep		
	Gull-billed tern			7-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			
	Least tern	T		-					X	X	X	X	X				Apr-Aug		
	Ring-billed gull			-	X	X	X	X	X	X	X	X	X	X	X	X			
 Pelagic	Northern gannet			-	X	X	X	X								X			
 Raptor	Bald eagle	C		-	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			
 Shorebird	Piping plover	T	T	-	X	X	X	X	X			X	X	X	X	X			
	Red knot			8-47-BIRDS	X	X	X	X	X	X	X	X	X	X	X	X			
	Snowy plover	T		6-NESTS		X	X	X	X	X	X	X					Mar-Aug		
	Willet			2	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul		
	Wilson's plover			1-NEST	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul		
 Waterfowl	American black duck			-	X	X	X	X						X	X	X			
	American coot			-	X	X							X	X	X	X			
	American wigeon			-	X	X	X	X						X	X	X			
	Bufflehead			100S	X	X										X			
	Canvasback			-	X	X	X									X	X		
	Common goldeneye			-	X	X	X										X		
	Gadwall			10S	X	X	X								X	X	X		
	Green-winged teal			-	X	X	X	X					X	X	X	X			
	Lesser scaup			100S	X	X	X	X						X	X	X			
	Long-tailed duck			-	X	X										X			
	Mallard			-	X	X	X						X	X	X	X			
	Mottled duck			-	X										X	X	X		
	Northern pintail			-	X	X	X								X	X	X		
	Red-breasted merganser			100S	X	X	X	X						X	X	X			
	Redhead			36000-131000	X	X	X								X	X			
	Ring-necked duck			-	X	X	X	X						X	X	X			
	Ruddy duck			-	X	X	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		PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Gulf sturgeon	T	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Oct-Apr	Oct-Apr
	Striped bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					


East Bay, 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
 Estuarine Nursery	Atlantic croaker			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Sep-Apr	Sep-Apr	Sep-Apr	Jan-Dec	Jan-Dec
	Atlantic sharpnose shark			ABUNDANT					X	X	X	X	X	X	X		May-Jul		Apr-Oct	Apr-Oct	Apr-Oct
	Bay anchovy			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Nov	Mar-Nov	Mar-Nov	Jan-Dec	Jan-Dec
	Black drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Nov-Apr	Nov-Apr	Dec-May	Jan-Dec	Jan-Dec
	Black sea bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	Dec-Apr	Dec-Apr	Dec-May	Jan-Dec	Jan-Dec
	Bluefish			ABUNDANT			X	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	X	Oct-Nov		Aug-Sep	Oct-Jan*	Jul-May
	Bull shark			COMMON	X	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	Jun-Nov	Jun-Nov	Jun-Dec	Jan-Dec	Jan-Dec
	Grunts			RARE							X	X	X	X						Jun-Sep	
	Gulf flounder			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Nov-Feb	Nov-Feb	Nov-Mar	Jan-Dec	Jan-Dec
	Gulf menhaden			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Oct-Mar	Oct-Mar	Oct-May	Jan-Dec	Jan-Dec
	Hardhead catfish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Kingfishes			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X				Jun-Dec	
	Ladyfish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Nov	Jan-Nov	Jan-Dec	Jan-Dec	Jan-Dec
	Lane snapper			COMMON									X	X			Sep-Jan*	Sep-Jan*	Sep-Jan*	Sep-Jan*	Sep-Jan*
	Mojarras			ABUNDANT				X	X	X	X	X	X	X	X		Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov
	Pigfish			PRESENT	X	X	X	X	X								Jan-May	Jan-May	Jan-May		Jan-May
	Pinfish			HIGHLY-ABUNDANT	X	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	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	X	Sep-Dec	Sep-Jan	Sep-Jan	Jan-Dec	Jan-Dec
	Sand seatrout			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Sep	Mar-Sep	Mar-Oct	Jan-Dec	Jan-Dec
	Sheepshead			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Feb-May	Feb-May	Feb-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-Jan	Nov-Jan	Nov-Mar	Jan-Dec	Jan-Dec
	Spot			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Oct-Apr	Oct-Apr	Oct-Apr	Jan-Dec	Jan-Dec
	Spotted seatrout			PRESENT	X	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	X	Oct-Mar	Oct-Mar	Oct-Mar	Jan-Dec	Jan-Dec
	Tarpon			COMMON							X	X	X	X	X				Aug-Dec	May-Sep	Jun-Oct
 Estuarine Resident	Code goby			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
	Gulf killifish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Sep	Mar-Sep	Mar-Oct	May-Feb	Jan-Dec
	Sheepshead minnow			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Sep	Mar-Sep	Apr-Oct	May-Mar	Jan-Dec
	Silver perch			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Jul	Mar-Jul	Mar-Aug	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
 Fish	Vermillion snapper			COMMON				X	X	X	X	X	X	X	X		Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov
 Freshwater	Bluegill			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
	Largemouth bass			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Mar-May	Mar-May	Mar-May	Jan-Dec	Jan-Dec

East Bay, 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	X	X	X	X	X	X	X	May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec
	Cusk eels			COMMON	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	X	X	Mar-Oct	Mar-Oct	Mar-Sep	Mar-Nov	Mar-Dec
	Gag grouper			ABUNDANT	X	X			X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
	Goatfishes			PRESENT	X	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	X	May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Little tunny			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X					
	Lizardfishes			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Aug	Apr-Aug	Apr-Oct	Jan-Dec	Jan-Dec
	Permit			PRESENT							X	X	X	X	X		Apr-Jun	Apr-Jun	Mar-Oct	Aug-Nov	Mar-Nov
	Rays			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Red snapper			COMMON								X	X	X	X		May-Oct	May-Oct	May-Nov	Apr-Jan	Apr-Jan
	Rock sea bass			ABUNDANT					X	X	X	X	X	X	X	X	Mar-Jun	Mar-Jun	Mar-Jul	Jan-Dec	Jan-Dec
	Scamp grouper			ABUNDANT				X	X	X	X	X	X	X	X	X	Mar-May	Mar-May	Mar-Jun	Mar-Nov	Apr-Nov
	Searobins			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Skates			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
Tonguefish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	
 Marine Pelagic	Amberjacks			ABUNDANT				X	X	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	X	X	May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec
	Ballyhoo			PRESENT							X	X	X								
	Bigeye scad			HIGHLY-ABUNDANT	X	X	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	X	X	Apr-Dec	Apr-Dec	Apr-Dec	Apr-Dec	Oct
	Blacknose shark			PRESENT	X	X	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	X	X	May-Jun		May-Sep	Mar-Nov	Apr-Nov
	Blue runner			ABUNDANT					X	X	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			COMMON			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	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jul-Aug
	Finetooth shark			-					X	X	X	X	X						May-Sep	May-Sep	May-Sep
	King mackerel			PRESENT							X	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	X	X	Mar-Jul				Jan-Dec
	Round scad			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Sep-Jan*	Sep-Jan*	Sep-Jan*	Jan-Dec	Jan-Dec
	Scalloped hammerhead			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	May-Jun		Apr-Oct	Jan-Dec	Apr-Nov
	Spanish mackerel			ABUNDANT				X	X	X	X	X	X	X	X	X	May-Oct	May-Oct	May-Oct	Feb-Dec	Feb-Dec
	Spanish sardine			ABUNDANT	X	X							X	X	X	X	Mar-Nov	Mar-Nov	Mar-Nov	Jan-Dec	Jan-Dec
	Spinner shark			-					X	X	X	X	X				May-Jun			Jun-Sep	May-Jun
	Thread herring			ABUNDANT	X	X					X	X	X	X	X	X	Mar-Sep	Mar-Sep	Mar-Sep	Apr-Feb	Jan-Dec
	Tiger shark			-								X	X						Jul-Aug	Jul-Aug	
	Wahoo			ABUNDANT	X	X	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	Apalachicola dragon-head	T		-	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
	Giant water-dropwort	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Godfrey's butterwort	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Godfrey's goldenaster	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Harper's yellow-eyed grass	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Nightflowering wild petunia	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Panhandle spiderlily	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Quillwort yellow-eyed grass	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

East Bay, Florida (continued)


Habitats and Rare Plants (continued)

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D
 Wetland	Southern milkweed	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	X				
 Manatee	West Indian manatee	E	E	LOW			X	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	INTERESTING	JUVENILE	ADULT
 Turtle	Gopher tortoise	T		-	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			May-Nov	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	Jun-Jul	Aug-Sep		Jan-Dec	Jan-Dec
	Loggerhead sea turtle	T	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug	Jul-Nov	Apr-Sep	Jan-Dec	Jan-Dec

Terrestrial Mammals

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D
 Small Mammal	Choctawhatchee beach mouse	E	E	-	X	X	X	X	X	X	X	X	X	X	X	X





Human Use Resources

Icon	Type	Name	Contact	Phone
	Recreational Fishing	Shellfish Harvesting Area		
	Oil Facilities	Panama City Facility	ARIZONA CHEMICAL COMPANY	850/785-8521
	Oil Facilities	Tyndall Air Force Base	U.S. AIR FORCE	
	Marina	Pier 98 Marina	DOCKMASTER	850/874-8723
	Marina	Tyndall Afb - Bonita Bay Recreation Area	DOCKMASTER	850/283-3199
	Management Area	St. Andrew Bay Watershed Swim	NWFWMD SWIM	850/539-5999
	Historical Site	Historic Property	FL SHPO	850/245-6440
	Critical Habitat	Choctawhatchee Beach Mouse	USFWS	
	Critical Habitat	Gulf Sturgeon Critical Habitat	FWRI	
	Critical Habitat	Piping Plover Critical Habitat	USFWS	
	Boat Ramp	Bonita Bay Tyndall Afb		
	Boat Ramp	Callaway Community Center		850/871-1033
	Boat Ramp	Cherry Street Landing		
	Boat Ramp	Cook Bayou Marina		
	Boat Ramp	Donaldson Point		
	Boat Ramp	Earl Gilbert Park		
	Boat Ramp	Tyndall Air Force Base Pier		
	Airport	Tyndall Afb		
	Abandoned Vessel	E.e. Simpson		
















East Bay, Florida (continued)

SHORELINE RESOURCES:

ESI Polygon Habitats

Pattern	ESI Rank	Habitat	Area (meters ²)
	10A	Salt- and brackish-water marshes	7,894,087
	10B	Freshwater marshes	3,595,594
	10C	Swamps	3,881,338
	10D	Scrub-shrub wetlands	8,545,149
	9A	Sheltered tidal flats	61,618
	7	Exposed tidal flats	1,005,490

Shoreline Types (Length of ESI Shoreline on Map = 245,183 meters ; Length of Shoreline on Map = 241,309 meters)

Color	ESI Rank	Shoreline Habitat	Length (meters)	% of ESI Shoreline
	10A	Salt- and brackish-water marshes	167,950	68
	10B	Freshwater marshes	8,158	3
	10C	Swamps	4,698	1
	10D	Scrub-shrub wetlands	3,764	1
	9A	Sheltered tidal flats	30,861	12
	9B	Vegetated low banks	22,524	9
	8A	Sheltered scarps in bedrock, mud or clay	546	<1
	8B	Sheltered, solid man-made structures	13,009	5
	8C	Sheltered riprap	1,345	<1
	7	Exposed tidal flats	80,586	32
	6B	Riprap	261	<1
	5	Mixed sand and gravel beaches	5,189	2
	4	Coarse-grained sand beaches	245	<1
	3A	Fine- to medium-grained sand beaches	70,156	28
	2B	Exposed scarps and steep slopes in clay	86	<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