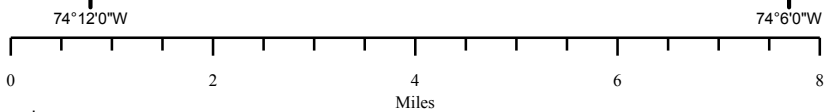
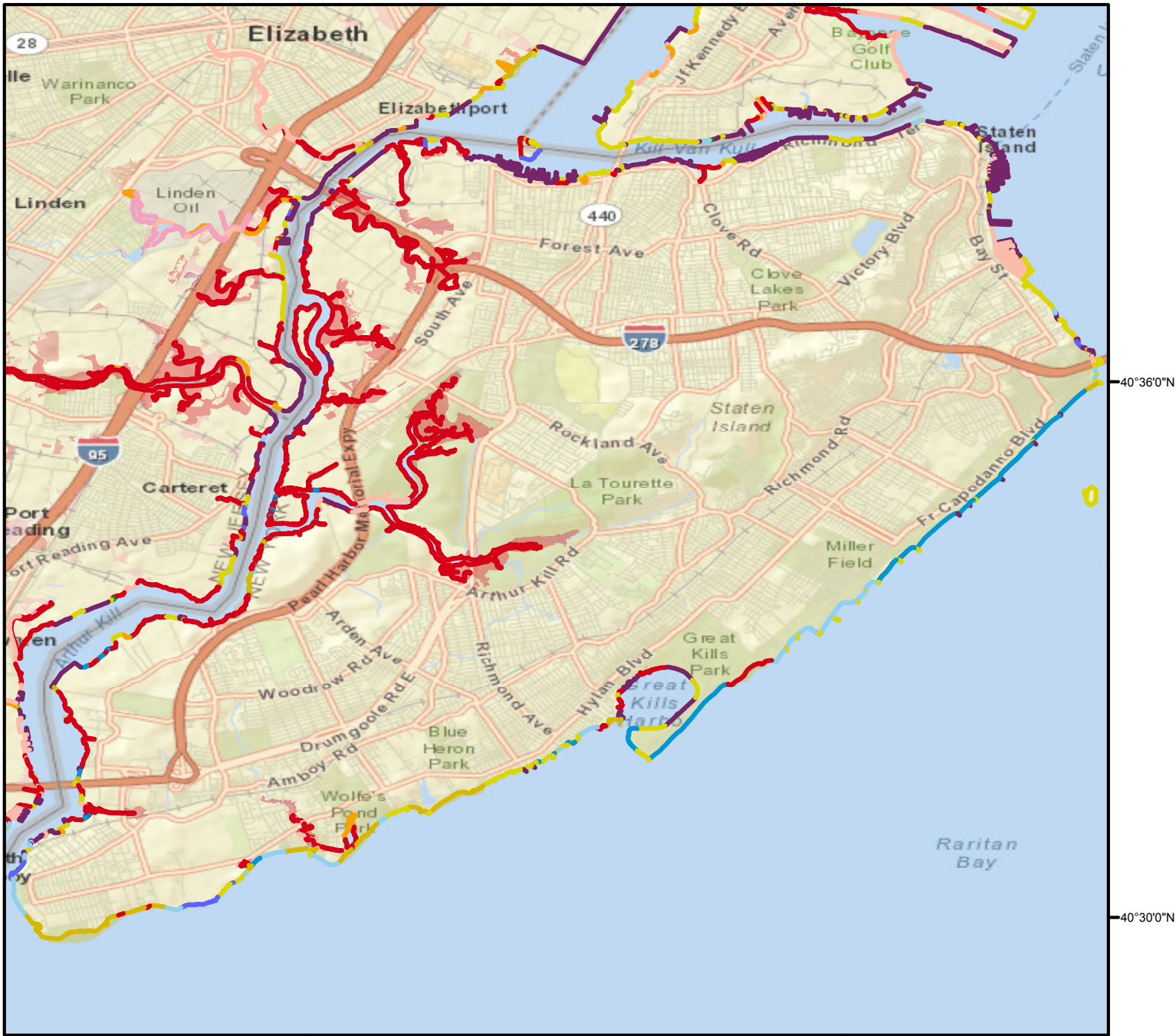


Staten Island



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
- 8B Sheltered, solid man-made structures
- 8C Sheltered riprap
- 7 Exposed tidal flats
- 6A Gravel beaches
- 6B Riprap
- 5 Mixed sand and gravel beaches








Additional shoreline types are present - see back of map for complete listing.

Content from RI, CT, NY/NJ Metropolitan Area - 2001 ESI Atlas






Staten Island

BIOLOGICAL RESOURCES


Birds																			
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	MIGRATING	MOLTING
 Diving	Common loon	C	-		X	X	X	X	X				X	X	X	X			
	Red-throated loon		-		X	X	X	X	X				X	X	X	X			
	Threatened diving bird	T	-				X	X	X	X	X	X	X	X	X	X	May-Sep		
 Gull/Tern	Gulls		-		X	X	X	X	X	X	X	X	X	X	X	X	May-Aug		
	Herring gull		-		X	X	X	X	X	X	X	X	X	X	X	X	May-Aug		
 Pelagic	Black-capped petrel			VERY RARE	X	X	X	X	X				X	X	X	X			
	Northern gannet		-		X	X	X	X							X	X			
 Raptor	American kestrel	C	-				X	X	X				X	X	X				
	Common barn owl	E	-		X	X	X	X	X	X	X	X	X	X	X	X			
	Endangered raptor	E	-		X	X	X	X	X	X	X	X	X	X	X	X	May-Sep		
	Northern harrier	T	-		X	X	X	X	X	X	X	X	X	X	X	X	Nov-Feb	Mar-Apr	May
	Peregrine falcon	E	-		X	X	X	X	X	X	X	X	X	X	X	X	May-Sep		
	Red-tailed hawk		-		X	X	X	X	X	X	X	X	X	X	X	X	May-Jul		
 Shorebird	Shorebirds			HIGH			X	X	X				X	X	X				
	Spotted sandpiper		-				X	X	X	X	X	X	X	X	X	X	Apr-May	May-Jun	Jun-Jul
 Wading	Black-crowned night-heron	C	-				X	X	X	X	X	X	X	X	X	X	Apr-May	May-Jun	Jul
	Great blue heron	C	-		X	X	X	X	X	X	X	X	X	X	X	X	Apr-May	May-Jun	Jul
	Great egret	C	-				X	X	X	X	X	X	X	X	X	X	Apr-May	May-Jun	Jul
	Green heron		-				X	X	X	X	X	X	X	X	X	X	May-Sep		
	Little blue heron	C	-				X	X	X	X	X	X	X	X	X	X	Apr-May	May-Jun	Jul
	Rare wading bird		-				X	X	X	X	X	X	X	X	X	X	May-Sep		
 Waterfowl	American black duck		-		X	X	X						X	X	X	Mar-Sep	Mar-May	Apr-Jun	
	American coot		-		X	X	X						X	X	X				
	American wigeon		-		X	X	X						X	X	X				
	Brant		65		X	X	X	X					X	X	X				
	Bufflehead		-		X	X	X	X					X	X	X				
	Canada goose		475		X	X	X	X	X	X	X	X	X	X	X	X	Mar-Aug	Mar-May	Apr-Jun
	Canvasback		200		X	X	X						X	X	X				
	Common goldeneye		-		X	X	X						X	X					
	Gadwall	C	147		X	X	X	X	X	X	X	X	X	X	X	X	Mar-Jun	Mar-May	Apr-Jun
	Goldeneye		-		X	X	X						X	X	X				
	Greater scaup		-		X	X	X						X	X	X				
	Green-winged teal	C	-		X	X	X						X	X	X				
	Hooded merganser	C	-		X	X	X						X	X	X				
	Lesser scaup		-		X	X	X						X	X	X				
	Mallard		330		X	X	X	X	X	X	X	X	X	X	X	X	Mar-Sep	Mar-May	Apr-Jun
	Mergansers		115		X	X	X	X					X	X	X				
	Mute swan		-		X	X	X						X	X	X	Mar-Jun	Mar-May	Apr-Jun	
	Northern shoveler		-		X	X	X						X	X	X	Apr-May	May-Jun	Jun	
	Oldsquaw		-		X	X	X						X	X	X				
	Red-breasted merganser		-		X	X	X						X	X	X				
	Ring-necked duck		-		X	X	X	X	X				X	X	X				
	Ruddy duck		-		X	X	X	X					X	X	X				
	Scaup		100		X	X	X						X	X	X				
Scoters		10		X	X	X	X					X	X	X					
Snow goose		-		X	X	X						X	X	X					
Waterfowl		-		X	X	X						X	X	X					
Wood duck		-		X	X	X						X	X	X	Mar-Jun	Mar-May	Apr-Jun		

Staten Island (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	Alewife			-			X	X	X	X	X	X	X	X	X	X	Apr-May	Apr-Jun	May-Sep	Sep-Nov	Mar-Jun
	American eel			-	X	X	X	X	X	X	X	X	X	X	X	X			Apr-Aug	Jan-Dec	Jan-Dec
	American shad			-			X	X	X	X	X	X	X	X	X	X	Mar-Jun	Mar-Jul	Mar-Jul	Jul-Oct	Mar-Jul
	Blueback herring			-			X	X	X	X	X	X	X	X	X	X	Mar-Jun	Mar-Aug	Mar-Sep	Sep-Nov	Mar-Jul
	Shortnose sturgeon	E	E	-	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec
 Estuarine Nursery	Atlantic herring			-	X	X	X	X	X	X	X	X	X	X	X	X	Sep-Jan*	Sep-Jan*	Apr-Jun	Jan-Dec	Jan-Dec
	Atlantic menhaden			-	X	X	X	X	X	X	X	X	X	X	X	X	Sep-Jan*	Sep-Jan*	May-Dec	Jan-Dec	Jan-Dec
	Bay anchovy			-	X	X	X	X	X	X	X	X	X	X	X	X	May-Sep	May-Sep	May-Nov	Jan-Dec	Jan-Dec
	Black sea bass			-				X	X	X	X	X	X	X	X	X				Apr-Nov	Apr-Nov
	Weakfish			-	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Oct-May
	Winter flounder			-	X	X	X	X	X	X	X	X	X	X	X	X	Dec-Mar	Dec-Mar	Dec-May	Jan-Dec	Oct-May
 Estuarine Resident	Killifish			-	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
	Silversides			-	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug	May-Aug	May-Aug	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	Endangered plant	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Rare community			-	X	X	X	X	X	X	X	X	X	X	X	X
	Rare plant			-	X	X	X	X	X	X	X	X	X	X	X	X
	Threatened plant	T		-	X	X	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
 Amphibian	Endangered reptile/amphibian	E		-	X	X	X	X	X	X	X	X	X	X	X	X					
	Rare reptile/amphibian			-	X	X	X	X	X	X	X	X	X	X	X	X					
 Turtle	Diamondback terrapin	E		-	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Oct	Jun-Oct		Sep-Oct	Jan-Dec














SHORELINE RESOURCES:

ESI Polygon Habitats

Pattern	ESI Rank	Habitat	Area (meters ²)
	10A	Salt- and brackish-water marshes	5,893,041
	10B	Freshwater marshes	1,779,732
	10C	Swamps	485,190
	10D	Scrub-shrub wetlands	172,999
	9A	Sheltered tidal flats	613,097
	7	Exposed tidal flats	733,909

Staten Island (continued)

Shoreline Types (Length of ESI Shoreline on Map = 290,672 meters ; Length of Shoreline on Map = 294,387 meters)

Color	ESI Rank	Shoreline Habitat	Length (meters)	% of ESI Shoreline
	10A	Salt- and brackish-water marshes	141,474	48
	10B	Freshwater marshes	7,046	2
	9A	Sheltered tidal flats	53,058	18
	9B	Vegetated low banks	2,325	<1
	8B	Sheltered, solid man-made structures	21,764	7
	8C	Sheltered riprap	17,457	6
	7	Exposed tidal flats	18,859	6
	6A	Gravel beaches	1,763	<1
	6B	Riprap	28,309	9
	5	Mixed sand and gravel beaches	9,153	3
	4	Coarse-grained sand beaches	14,261	4
	3A	Fine- to medium-grained sand beaches	13,632	4
	1B	Exposed, solid man-made structures	62,929	21

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 RI, CT, NY/NJ Metropolitan Area - 2001 ESI Atlas

