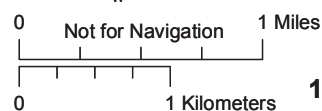


Map 8B
South Long Island



SEE BACK OF MAP
for details about mapped species and other
species that occur in the mapped area.
Data Published: February 2016



1:50,000













Map 8B
South Long Island

BIOLOGICAL RESOURCES







































































































Note: An asterisk (*) indicates that life stage occurs in this range but not in all months included

DISPLAYED ON MAP

BENTHIC

	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence											
							J	F	M	A	M	J	J	A	S	O	N	D
	Algae	Macroalgae	High Ecological Value			Present												

BIRDS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
1	Shorebird	Piping plover	Nesting	E/E	T	1-5 Pairs												Apr-Aug	-	-	-	-
6	Raptor	Northern harrier	Nesting	T/E		-												Apr-Aug	-	-	-	-
29	Raptor	Short-eared owl	Wintering	E/E		-													-	-	-	-
34	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs												Apr-Aug	-	-	-	-
83	Gull/Tern	Least tern	Nesting	T/E		1-10 Pairs												May-Sep	-	-	-	-
87	Passerine	Seaside sparrow	Nesting	C/-		-												May-Aug	-	-	-	-
	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-
108	Gull/Tern	Least tern	Nesting	T/E		100-200 Pairs												May-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		5-10 Pairs												Apr-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	10-25 Pairs												Apr-Aug	-	-	-	-
109	Shorebird	American oystercatcher	Migration	-/C		1S												-	-	Aug-Sep	-	-
110	Raptor	Northern harrier	Nesting	T/E		-												Apr-Aug	-	-	-	-
	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-
115	Shorebird	Threatened shorebird	General Distribution		T	-												May-Aug	-	-	-	-
	Waterfowl	Brant	Wintering			1000S													-	-	-	-
116	Waterfowl	Brant	Wintering			1000S													-	-	-	-
	Waterfowl	Scaup	Wintering			10000S													-	-	-	-
	Waterfowl	Waterfowl	Wintering			High													-	-	-	-
117	Shorebird	Shorebirds	Migration			High												-	Mar-May	-	-	-
118	Gull/Tern	Black skimmer	Migration	C/E		100S												-	May	Aug-Oct	-	-
	Gull/Tern	Common tern	Migration	T/C		100S												-	-	Aug-Sep	-	-
	Gull/Tern	Least tern	Migration	T/E		1S												-	-	Aug-Sep	-	-
	Gull/Tern	Roseate tern	Migration	E/E	E	1S												-	May	Aug-Sep	-	-
	Shorebird	American oystercatcher	Migration	-/C		100S												-	-	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	10S												-	-	Aug-Sep	-	-
	Shorebird	Red knot	Migration	-/E	T	100S												-	Apr-May	Jul-Sep	-	-
	Shorebird	Sanderling	Migration	-/C		1000S												-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		1000S												-	Apr-May	Aug-Sep	-	-
	Waterfowl	Waterfowl	Migration			High												-	Mar-Apr	Oct-Nov	-	-
119	Gull/Tern	Black skimmer	Migration	C/E		100S												-	May	Aug-Oct	-	-
	Gull/Tern	Common tern	Migration	T/C		100S												-	-	Aug-Sep	-	-
	Gull/Tern	Least tern	Migration	T/E		1S												-	-	Aug-Sep	-	-

BIRDS (continued)

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
							J	F	M	A	M	J	J	A	S	O	N	D					
	Gull/Tern	Roseate tern	Migration	E/E	E	1S													-	May	Aug-Sep	-	-
	Shorebird	American oystercatcher	Migration	-/C		100S													-	-	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	10S													-	-	Aug-Sep	-	-
	Shorebird	Red knot	Migration	-/E	T	100S													-	Apr-May	Jul-Sep	-	-
	Shorebird	Sanderling	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-	-
	Waterfowl	Brant	Wintering			10000S													-	-	-	-	-
	Waterfowl	Waterfowl	Migration			High													-	Mar-Apr	Oct-Nov	-	-
120	Diving	D. crested cormorant	Nesting			100-500 Pairs													Jun-Sep	-	-	-	-
	Gull/Tern	Black skimmer	Nesting	C/E		100-500 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		100-500 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Forster's tern	Nesting			10-50 Pairs													Jun-Aug	-	-	-	-
	Gull/Tern	G. black-backed gull	Nesting			100-500 Pairs													Apr-Jul	-	-	-	-
	Gull/Tern	Herring gull	Nesting			500-1000 Pairs													Apr-Sep	-	-	-	-
	Wading	BC night-heron	Nesting	-/T		100-300 Pairs													Apr-Aug	-	-	-	-
	Wading	Glossy ibis	Nesting	-/C		10-50 Pairs													Apr-Aug	-	-	-	-
	Wading	Great egret	Nesting			100-200 Pairs													Apr-Aug	-	-	-	-
	Wading	Snowy egret	Nesting	-/C		50-100 Pairs													Apr-Aug	-	-	-	-
	Wading	Tricolored heron	Nesting	-/C		3 Pairs													Apr-Aug	-	-	-	-
	Wading	YC night-heron	Nesting	-/T		1 Pair													Apr-Aug	-	-	-	-
121	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		50-100 Pairs													May-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	25-40 Pairs													Apr-Aug	-	-	-	-
122	Gull/Tern	Black skimmer	Nesting	C/E		1-10 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
123	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Forster's tern	Nesting			10-50 Pairs													Jun-Aug	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Waterfowl	Canada goose	Nesting			5 Pairs													Mar-Jun	-	-	-	-
124	Gull/Tern	Black skimmer	Migration	C/E		100S													-	May	Aug-Oct	-	-
	Gull/Tern	Common tern	Migration	T/C		100S													-	-	Aug-Sep	-	-
	Gull/Tern	Least tern	Migration	T/E		1S													-	-	Aug-Sep	-	-
	Gull/Tern	Roseate tern	Migration	E/E	E	1S													-	May	Aug-Sep	-	-
	Shorebird	American oystercatcher	Migration	-/C		100S													-	-	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	10S													-	-	Aug-Sep	-	-
	Shorebird	Red knot	Migration	-/E	T	100S													-	Apr-May	Jul-Sep	-	-
	Shorebird	Sanderling	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-	-
125	Raptor	Short-eared owl	Nesting	E/E		-													Apr-Jul	-	-	-	-
126	Gull/Tern	Black skimmer	Nesting	C/E		1-10 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		500-1000 Pairs													May-Sep	-	-	-	-

BIRDS (continued)

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
127	Shorebird	Sanderling	Migration	-	C	100S												-	Apr-May	Aug-Sep	-	-
128	Waterfowl	American black duck	Nesting			4 Pairs												Apr-Aug	-	-	-	-
	Waterfowl	Canada goose	Nesting			1 Pair												Mar-Jun	-	-	-	-
	Waterfowl	Common merganser	Nesting			1 Pair												May-Aug	-	-	-	-
	Waterfowl	Mallard	Nesting			2 Pairs												Mar-Sep	-	-	-	-
129	Raptor	Endangered raptor 1	Nesting	E	E	1 Pair												Mar-Jul	-	-	-	-

FISH

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
382	Diadromous	American eel	Nursery Area			-													-	-	-	Jan-Dec	-
394	Diadromous	Alewife	Nursery Area			-													-	-	Mar-May	Apr-Oct	-
395	Diadromous	Alewife	Spawning Area			-													Mar-May	Mar-May	-	-	Mar-May
405	Diadromous	Alewife	Migration			-													-	-	-	Apr-Oct	Mar-May
408	Diadromous	Alewife	Spawning Area			Potential													Mar-May	Mar-May	-	-	Mar-May
	Diadromous	Brown trout	Harvest Area			-													-	-	-	-	Jan-Dec
	Diadromous	Rainbow trout	Harvest Area			-													-	-	-	-	Jan-Dec
	Freshwater	Bluegill	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Common carp	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Largemouth bass	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Pumpkinseed	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
409	Freshwater	Bluegill	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Chain pickerel	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Common carp	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Largemouth bass	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Pumpkinseed	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec

HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
520	Plant	Endangered plant	Vulnerable Occurrence	E	E	-													-	-	-	-	-
523	Plant	Threatened plant	Vulnerable Occurrence	T	-	-													-	-	-	-	-
525	Plant	Rare plant	Vulnerable Occurrence	C	C	-													-	-	-	-	-
526	Wetland	Seabeach amaranth	Vulnerable Occurrence	T	E	-													-	-	-	-	-
527	Plant	Endangered plant	Vulnerable Occurrence	E	E	-													-	-	-	-	-
	Plant	Threatened plant	Vulnerable Occurrence	T	-	-													-	-	-	-	-

REPTILES & AMPHIBIANS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
575	Turtle	N. diamondback terrapin	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul

INVERTEBRATES

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
624	Crab	Horseshoe crab	Spawning Area			-													May-Jun	May-Jul	-	-	May-Jun
626	Invertebrate	R, LT, or LE invertebrate	Vulnerable Occurrence			-													Apr-Jun	Apr-Jun	Jan-Dec	-	Jan-Dec
646	Bivalve	Northern quahog	Harvest Area			4068 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
	Bivalve	Softshell clam	Harvest Area			30 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
650	Bivalve	Atlantic razor	Harvest Area			3 Bushels/Yr Avg													Apr-May	Apr-May	Apr-May	Jan-Dec	Jan-Dec
	Bivalve	Bay scallop	Harvest Area			1 Bushel/Yr Avg													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Bivalve	Northern quahog	Harvest Area			2034 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
	Bivalve	Softshell clam	Harvest Area			117 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec

MARINE MAMMALS




Monthly Presence																						
Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molt
678	Pinniped	Seals	Concentration Area			High	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
685	Pinniped	Gray seal	Haul Out			Few	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
	Pinniped	Harbor seal	Haul Out			150	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
	Pinniped	Harp seal	Haul Out			Few	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-

WIDESPREAD IN MAPPED AREA (> 10 SQUARE KILOMETERS)

BENTHIC

Monthly Presence																					
Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
						J	F	M	A	M	J	J	A	S	O	N	D				
SAV	Submersed aquatic veg	High Ecological Value			Present																


BIRDS

														Monthly Presence															
	Subelement	Species	Mapping Qualifier	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	Nest	Mig.(S)	Mig.(F)	Molt							
	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-	-						
	Shorebird	American oystercatcher	Nesting	-/C		10-25 Pairs													Apr-Aug	-	-	-	-						
		Plovers	Migration			-													-	Apr-May	Aug-Sep	-	-						
		Red knot	Migration	-/E	T	-													-	Apr-May	Jul-Sep	-	-						
		Shorebirds	Migration			-													-	Mar-May	-	-	-						
	Waterfowl	Waterfowl	Migration			1000S													-	Mar-Apr	Oct-Nov	-	-						
		Waterfowl	Wintering			1000S													-	-	-	-	-						



FISH

Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
						J	F	M	A	M	J	J	A	S	O	N	D					
Diadromous	Atlantic sturgeon	General Distribution	-/E	E	Low													-	-	-	Jan-Dec	Oct-Jun
	Atlantic sturgeon	Migration	-/E	E	High													-	-	-	May-Jul	May-Jul


REPTILES & AMPHIBIANS

Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
						J	F	M	A	M	J	J	A	S	O	N	D					
	Turtle	Green sea turtle	General Distribution	T/T	T	-												-	-	-	May-Nov	May-Nov
		K. ridley sea turtle	General Distribution	E/E	E	-												-	-	-	May-Nov	-
		Leatherback sea turtle	General Distribution	E/E	E	-												-	-	-	May-Nov	May-Nov
		Loggerhead sea turtle	General Distribution	T/E	T	-												-	-	-	May-Nov	May-Nov

INVERTEBRATES








Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
						J	F	M	A	M	J	J	A	S	O	N	D					
	Bivalve	Atlantic surfclam	Harvest Area		224702 Bushels/Yr													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
		Northern quahog	Harvest Area		639 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
		Softshell clam	Harvest Area		7 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
	Crab	Horseshoe crab	Concentration Area		High													-	-	-	Jan-Dec	Jan-Dec

MARINE MAMMALS





		Monthly Presence																					
	Subelement	Species	Mapping Qualifier	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molt	
	Whale	Fin whale	General Distribution	E/E	E	Common													-	-	-	-	-
		Humpback whale	General Distribution	E/E	E	Common													-	-	-	-	-
		N.A. right whale	General Distribution	E/E	E	Uncommon, Regular													-	-	-	-	-
		N.A. right whale	Migration	E/E	E	-													-	-	-	-	-

ALSO PRESENT IN MAPPED AREA (GENERAL DISTRIBUTION)


BIRDS

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Alcid													-	-	-	-
	Gull/Tern													-	-	-	-
	Herring gull													-	-	-	-
	Passerine													Apr-Aug	-	-	-
	Marsh wren													May-Aug	-	-	-
	Pelagic													-	-	-	-
	Northern gannet													-	-	-	-
	Shorebird													May-Aug	-	-	-
	Willet													Apr-Sep	-	-	-
	Wading													Apr-Aug	-	-	-
	Clapper rail													-	-	-	-
	Waterfowl													-	-	-	-
	American black duck													-	-	-	-
	Black scoter													-	-	-	-
	Canada goose													Mar-Jun	-	-	-
	Common eider													-	-	-	-
	Long-tailed duck													-	-	-	-
	Mallard													Mar-Sep	-	-	-
	Surf scoter													-	-	-	-
	White-winged scoter													-	-	-	-

FISH

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous	Alewife												-	-	-	Apr-Nov	Mar-Jun
		Alewife												-	-	-	Nov-Apr	Nov-Apr
		American eel												-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American eel												-	-	Jan-Feb	-	Sep-Dec
		American shad												-	-	-	Apr-Nov	Apr-Jul
		American shad												-	-	-	Nov-Apr	Nov-Apr
		Blueback herring												-	-	-	Nov-Apr	Nov-Apr
		Blueback herring												-	-	-	May-Nov	Mar-Jul
		Striped bass												-	-	-	Apr-Nov	Mar-Nov
		Striped bass												-	-	-	Mar-Nov	Mar-Nov
	Estuarine Nursery	Atlantic croaker												-	-	-	-	Jun-Dec
		Atlantic herring												-	-	-	Nov-Apr	Nov-Apr
		Atlantic herring												-	-	-	Nov-May	Nov-May
		Atlantic menhaden												-	-	-	Apr-Nov	Mar-Nov
		Atlantic menhaden												Sep-Dec	Sep-Dec	Oct-Dec	Oct-Apr	Oct-Apr
		Bay anchovy												May-Nov	May-Nov	May-Dec	Jan-Dec	Jan-Dec
		Bay anchovy												May-Jul	May-Jul	May-Dec	Jan-Dec	Jan-Dec
		Black sea bass												May-Oct	May-Oct	May-Nov	Mar-Nov	Mar-Nov
		Black sea bass												-	-	-	Apr-Nov	Apr-Nov
		Bluefish												-	-	-	May-Nov	May-Nov
		Bluefish												-	-	-	May-Oct	Apr-Dec
		Northern kingfish												-	-	-	Jun-Nov	Jun-Nov
		Northern kingfish												-	-	-	May-Nov	May-Nov
		Northern puffer												May-Aug	Jun-Oct	Jun-Oct	May-Oct	May-Oct
		Scup												-	-	-	Apr-Dec	Apr-Dec
		Scup												-	-	-	May-Nov	May-Nov
		Spot												-	-	-	Sep-Nov	Jun-Nov
		Spot												-	-	-	Apr-Nov	Apr-Nov
		Summer flounder												-	-	-	Apr-Oct	Apr-Oct
		Summer flounder												Sep-Nov	Sep-Nov	Sep-Dec	Apr-Nov	Apr-Nov
		Weakfish												Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
		Weakfish												May-Aug	May-Aug	Jun-Aug	May-Nov	Apr-Nov
		White perch												Apr-Jun	Apr-Jul	Jun-Nov	Jan-Dec	Jan-Dec
		Windowpane												Mar-Nov*	Mar-Nov*	Apr-Nov*	Jan-Dec	Jan-Dec
		Windowpane												Apr-Jun	Apr-Jul	Jun-Nov	Jan-Dec	Jan-Dec
		Winter flounder												-	-	-	Jan-Dec	Jan-Dec
		Winter flounder												Feb-Apr	Feb-Apr	Mar-Jun	Jan-Dec	Jan-Dec
	Estuarine Resident	Atlantic silverside												May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
		Atlantic silverside												-	-	-	Jan-Apr	Jan-Apr
		Killifish												May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	Northern pipefish												May-Aug	-	May-Oct	Jan-Dec	Jan-Dec
		American sand lance												-	-	-	-	Oct-Jun
		American sand lance												Nov-Feb	Nov-Feb	Dec-Jun	Dec-Jun	Nov-May
		Atlantic cod												-	-	-	Nov-Apr	-





FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Atlantic cod													-	-	-	Nov-Apr	Nov-Apr
	Atlantic tomcod													-	-	Dec-Apr	Apr-Dec	Jan-Dec
	Clearnose skate													-	-	-	Apr-Nov	Apr-Nov
	Goosefish													-	-	-	-	Jan-Jun
	Little skate													Jan-Dec	Jan-Dec	-	Jan-Dec	Jan-Dec
	Ocean pout													-	-	-	Dec-Aug	Dec-Aug
	Pollock													-	-	-	Mar-Jun	-
	Red hake													-	-	-	May-Oct	May-Oct
	Red hake													Jun-Sep	Jun-Sep	Jul-Oct	Jan-Dec	Jan-Dec
	Silver hake													May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
	Smooth dogfish													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Tautog													May-Aug	May-Aug	Jun-Aug	Mar-Nov	Mar-Nov
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Jan-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Mar-Dec
	Winter skate													-	-	-	Sep-May	Sep-Nov
 Marine Pelagic	Atlantic mackerel													-	-	-	Nov-Apr*	Nov-Apr*
	Atlantic mackerel													-	-	-	Nov-Apr	-
	Bluefin tuna													-	-	-	Jun-Sep	-
	Butterfish													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec
	Dusky shark													-	-	-	May-Sep	May-Sep
	Sandbar shark													-	-	-	Jun-Oct	Jun-Oct
	Shortfin mako													-	-	-	May-Oct	May-Oct
	Skipjack tuna													-	-	-	Jun-Sep	Jun-Sep
	Spiny dogfish													-	-	-	Oct-Apr	Oct-Apr
	Thresher shark													-	-	-	May-Nov	May-Nov
	Tiger shark													-	-	-	Jul-Oct	-

REPTILES & AMPHIBIANS

Subelement	Species	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Turtle	N. diamondback terrapin													-	-	-	Apr-Nov	Apr-Nov

INVERTEBRATES

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Bivalve	Atlantic surfclam													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
	Bay scallop													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Blue mussel													Apr-Nov	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec
 Cephalopod	Longfin squid													-	-	-	-	Jan-Dec
 Crab	Blue crab													May-Oct	Jun-Oct	Jun-Oct	Jan-Dec	Jan-Dec
	Blue crab													-	-	Jun-Oct	-	Aug-Mar
	Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
	Horseshoe crab													-	-	-	Aug-Mar	Aug-Mar
 Lobster	American lobster													-	-	-	Jan-Dec	Jan-Dec







MARINE MAMMALS

Subelement	Species	Monthly Presence												Mating	Calving	Pupping	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
 Dolphin	Bottlenose dolphin													-	-	-	-
	Harbor porpoise													-	-	-	-















For additional information about species locations and extent, reference the underlying GIS data available from response.restoration.noaa.gov

SHORELINE RESOURCES

ESI POLYGON HABITAT TYPES

	<i>ESI Rank</i>	<i>Habitat Classification</i>	<i>Area (Acres)</i>	<i>Area (Sq. Miles)</i>
	10A	Salt and Brackish Water Marshes	2,553.44	3.99
	10B	Freshwater Marshes	5.03	0.01
	10C	Swamps	96.84	0.15
	10D	Scrub and Shrub Wetlands	119.47	0.19
	9A	Sheltered Tidal Flats	486.07	0.76
	7	Exposed Tidal Flats	975.59	1.52

ESI SHORELINE HABITAT TYPES

	<i>ESI Rank</i>	<i>Shoreline Habitat Classification</i>	<i>Length (Meters)</i>	<i>Length (Miles)</i>	<i>% of ESI Shoreline</i>
	10A	Salt and Brackish Water Marshes	169,021.64	105.03	30%
	10C	Swamps	2,414.00	1.50	< 1%
	10D	Scrub and Shrub Wetlands	2,266.89	1.41	< 1%
	9A	Sheltered Tidal Flats	52,007.91	32.32	9%
	9B	Vegetated Low Banks	185,024.76	114.97	33%
	8B	Sheltered, Solid Man-Made Structures	63,474.73	39.44	11%
	8C	Sheltered Riprap	597.59	0.37	< 1%
	7	Exposed Tidal Flats	29,670.22	18.44	5%
	6B	Riprap	968.92	0.60	< 1%
	5	Mixed Sand and Gravel Beaches	901.34	0.56	< 1%
	4	Coarse Grained Sand Beaches	12,322.60	7.66	2%
	3A	Fine to Medium Grained Sand Beaches	15,311.45	9.51	3%
	3B	Scarps and Steep Slopes (Sand)	34.64	0.02	< 1%
	1B	Exposed, Solid Man-Made Structures	28,055.05	17.43	5%

Total ESI Shoreline:	562,071.74	Total ESI Shoreline:	349.26
Total Shoreline:	299,581.28	Total Shoreline:	186.15

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

All underlying GIS data can be obtained from response.restoration.noaa.gov

