













Map 7D
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	-	-	-	-
10	Gull/Tern	Least tern	Nesting	T/E		10-50 Pairs													May-Sep	-	-	-	-
89	Gull/Tern	Common tern	Nesting	T/C		50-100 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		10-50 Pairs													May-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	10-25 Pairs													Apr-Aug	-	-	-	-
90	Diving	D. crested cormorant	Nesting			5-50 Pairs													Jun-Sep	-	-	-	-
	Gull/Tern	Black skimmer	Nesting	C/E		1-10 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		50-100 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Herring gull	Nesting			50-100 Pairs													Apr-Sep	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		1-10 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Roseate tern	Nesting	E/E	E	1-10 Pairs													May-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-	-
91	Gull/Tern	Black skimmer	Nesting	C/E		1-10 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		50-100 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Herring gull	Nesting			50-100 Pairs													Apr-Sep	-	-	-	-
	Raptor	Endangered raptor 1	Nesting	E/E		1 Pair													Mar-Jul	-	-	-	-
	Raptor	Peregrine falcon	Migration	E/-		High													-	Mar-Apr	Sep-Nov	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-	-
92	Gull/Tern	G. black-backed gull	Nesting			50-100 Pairs													Apr-Jul	-	-	-	-
	Gull/Tern	Herring gull	Nesting			100-500 Pairs													Apr-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Wading	BC night-heron	Nesting	-/T		10-50 Pairs													Apr-Aug	-	-	-	-
	Wading	Glossy ibis	Nesting	-/C		1-10 Pairs													Apr-Aug	-	-	-	-
	Wading	Great egret	Nesting			10-50 Pairs													Apr-Aug	-	-	-	-
	Wading	Little blue heron	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-	-
	Wading	Snowy egret	Nesting	-/C		1-10 Pairs													Apr-Aug	-	-	-	-
	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-	-
93	Gull/Tern	Common tern	Migration	T/C		100S													-	-	Aug-Sep	-	-
	Gull/Tern	Roseate tern	Migration	E/E	E	10S													-	May	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				
	Shorebird	American oystercatcher	Migration	-/C		1S													-	-	Aug-Sep	-
	Shorebird	Piping plover	Migration	E/E	T	1S													-	-	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	1S													-	Apr-May	Jul-Sep	-
	Shorebird	Sanderling	Migration	-/C		100S													-	Apr-May	Aug-Sep	-
94	Passerine	Seaside sparrow	Nesting	C/-		-													May-Aug	-	-	-
	Raptor	Northern harrier	Nesting	T/E		-													Apr-Aug	-	-	-
	Raptor	Short-eared owl	Nesting	E/E		-													Apr-Jul	-	-	-
	Wading	Black rail	Nesting	E/E		-													Jun-Jul	-	-	-
	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-
95	Shorebird	Piping plover	Migration	E/E	T	10S													-	-	Aug-Sep	-
	Shorebird	Sanderling	Migration	-/C		100S													-	-	Aug-Sep	-
96	Gull/Tern	Common tern	Nesting	T/C		1-10 Pairs													May-Sep	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		1-10 Pairs													May-Sep	-	-	-
97	Waterfowl	Waterfowl	Wintering			10000S													-	-	-	-

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					
403	Diadromous	Atlantic sturgeon	General Distribution	-/E	E	Present													-	-	-	Jan-Dec	Oct-Jun

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		-													-	-	-	-	-
526	Wetland	Seabeach amaranth	Vulnerable Occurrence	T/E	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					
550	Turtle	Common snapping turtle	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
553	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		Thermal Regulation													-	-	-	-	Jul-Sep
567	Snake	Northern black racer	Nesting			-													Jun-Jul	Aug-Sep	-	-	-
568	Amphibian	Fowler's toad	Nesting	-/C		-													Apr-Jun	May-Jul	-	-	Apr-Jun
572	Turtle	Eastern box turtle	General Distribution	C/C		Present And Active													-	-	-	Apr-Nov	Apr-Nov
	Turtle	Eastern box turtle	Nesting	C/C		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
573	Amphibian	Fowler's toad	Nesting	-/C		-													Apr-Jun	May-Jul	-	-	Apr-Jun
	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		Thermal Regulation													-	-	-	-	Jul-Sep
574	Snake	Northern black racer	Nesting			-													Jun-Jul	Aug-Sep	-	-	-
	Turtle	Common snapping turtle	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
	Turtle	Eastern box turtle	General Distribution	C/C		Present And Active													-	-	-	Apr-Nov	Apr-Nov

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
625	Insect	Monarch butterfly	Migration			High													-	-	-	-	Aug-Oct
641	Crab	Horseshoe crab	Spawning Area			High													May-Jun	May-Jul	-	-	May-Jun
647	Insect	Rare insect	Vulnerable Occurrence			-													Jun-Sep	Jun-Sep	Jan-Dec	-	Jun-Sep

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	
684	Pinniped	Gray seal	Haul Out			-													-	-	-	-	-
	Pinniped	Harbor seal	Haul Out			-													-	-	-	-	-
	Pinniped	Harp seal	Haul Out			-													-	-	-	-	-

WIDESPREAD IN MAPPED AREA (> 10 SQUARE KILOMETERS)

















































BENTHIC

													Monthly Presence											
<div><div></div><div></div><div></div><div></div></div>	Subelement	Species	Mapping Qualifier	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D						
							Present																	
	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
	Waterfowl	Brant			1000S													-	-	-	-
		Scaup			10000S													-	-	-	-
		Waterfowl			High													-	-	-	-



FISH

Monthly Presence																							
	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		
		Striped bass	Concentration Area			High										-	-	-	Apr-Nov	Mar-Nov			
	Estuarine Nursery	Black sea bass	Concentration Area			High										-	May-Oct	May-Nov	-	-			
		Bluefish	Concentration Area			High										-	-	-	May-Oct	Apr-Dec			
	Marine Benthic	American sand lance	Concentration Area			High										Nov-Feb	Nov-Feb	Dec-Jun	Dec-Jun	Nov-May			
		Tautog	Concentration Area			High										-	May-Aug	Jun-Aug	-	-			



REPTILES & AMPHIBIANS

Monthly Presence																							
	Subelement	Species	Mapping Qualifier	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	Nest	Hatch	Internest	Juveniles	Adults
	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	Eastern oyster			382 Bushels/Yr Avg													Jul-Aug	Jul-Aug	Jul-Sep	Jan-Dec	Jan-Dec
		Northern quahog			4068 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
		Northern quahog			6 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
		Softshell clam			30 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
	Gastropod	Whelk			-													Jun-Jul	Aug-Nov	-	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	
	Pinniped	Seals	Concentration Area			High													-	-	-	-	-
	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													-	-	-	-
	Pelagic													-	-	-	-
	Northern gannet													-	-	-	-
	Wilson's storm-petrel													-	-	-	-
	Common eider													-	-	-	-
	Long-tailed duck													-	-	-	-
	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													-	-	-	Nov-Apr	Nov-Apr
	Alewife													-	-	-	Apr-Nov	Mar-Jun
	Alewife													-	-	-	Jan-Feb	Sep-Dec
	American eel													-	-	-	Apr-Aug	Sep-Nov
	American eel													-	-	-	Nov-Apr	Nov-Apr
	American shad													-	-	-	Apr-Nov	Apr-Jul
	Blueback herring													-	-	-	May-Nov	Mar-Jul
	Blueback herring													-	-	-	Nov-Apr	Nov-Apr
	Striped bass													-	-	-	Mar-Nov	Mar-Nov
	Striped bass													-	-	-	Apr-Nov	Mar-Nov
	Atlantic croaker													-	-	-	-	Jun-Dec

FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Atlantic herring													-	-	-	Nov-May	Nov-May
	Atlantic herring													-	-	-	Nov-Apr	Nov-Apr
	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-Oct	Apr-Dec
	Bluefish													-	-	-	May-Nov	May-Nov
	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													May-Aug	May-Aug	Jun-Aug	May-Nov	Apr-Nov
	Weakfish													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
	White perch													Apr-Jun	Apr-Jul	Jun-Nov	Jan-Dec	Jan-Dec
	Windowpane													Apr-Jun	Apr-Jul	Jun-Nov	Jan-Dec	Jan-Dec
	Windowpane													Mar-Nov*	Mar-Nov*	Apr-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
	Northern pipefish													May-Aug	-	May-Oct	Jan-Dec	Jan-Dec
 Marine Benthic	American sand lance													-	-	-	-	Oct-Jun
	American sand lance													Nov-Feb	Nov-Feb	Dec-Jun	Dec-Jun	Nov-May
	Atlantic cod													-	-	-	Nov-Apr	Nov-Apr
	Atlantic cod													-	-	-	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
	Little skate													-	-	-	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





FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Smooth dogfish													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Jan-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Mar-Nov	Mar-Nov
	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
	Sand tiger													-	-	-	Jun-Oct	-
	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	-
	White 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
	Ocean quahog													Jul-Nov	Jul-Nov	Jul-Dec	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													-	-	-	Aug-Mar	Aug-Mar
	Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
 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	805.26	1.26
	10B	Freshwater Marshes	53.89	0.08
	10C	Swamps	35.14	0.05
	10D	Scrub and Shrub Wetlands	68.62	0.11
	9A	Sheltered Tidal Flats	16.31	0.03
	7	Exposed Tidal Flats	3,968.02	6.20

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	54,733.43	34.01	24%
	10C	Swamps	1,295.03	0.80	1%
	10D	Scrub and Shrub Wetlands	1,022.89	0.64	< 1%
	9A	Sheltered Tidal Flats	5,827.03	3.62	3%
	9B	Vegetated Low Banks	59,335.38	36.87	27%
	8C	Sheltered Riprap	186.20	0.12	< 1%
	7	Exposed Tidal Flats	61,042.19	37.93	27%
	6A	Gravel Beaches	208.09	0.13	< 1%
	6B	Riprap	4,539.01	2.82	2%
	5	Mixed Sand and Gravel Beaches	153.42	0.10	< 1%
	4	Coarse Grained Sand Beaches	1,387.19	0.86	1%
	3A	Fine to Medium Grained Sand Beaches	26,255.18	16.31	12%
	3B	Scarps and Steep Slopes (Sand)	512.50	0.32	< 1%
	1B	Exposed, Solid Man-Made Structures	7,057.66	4.39	3%

Total ESI Shoreline:	223,555.20	Total ESI Shoreline:	138.91
Total Shoreline:	95,243.95	Total Shoreline:	59.18

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

