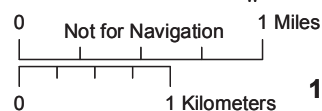


**Map 4B**  
South Long Island



**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 4B 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
	SAV	Submersed aquatic veg	High Ecological Value			Present												-
	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				
6	Raptor	Northern harrier	Nesting	T/E		-													Apr-Aug	-	-	-
23	Raptor	Northern harrier	Migration	T/E		High													-	Mar-Apr	Sep-Nov	-
	Raptor	Osprey	Migration	C/-		High													-	Apr-May	Sep-Nov	-
	Raptor	Peregrine falcon	Migration	E/-		High													-	-	Aug-Nov	-
30	Passerine	Seaside sparrow	General Distribution	C/-		-													May-Aug	-	-	-
38	Shorebird	Dunlin	Migration			-													-	Apr-May	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	-													-	Apr-May	-	-
	Shorebird	Ruddy turnstone	Migration			-													-	Apr-May	-	-
	Shorebird	Sanderling	Migration	-/C		-													-	Apr-May	-	-
40	Gull/Tern	Least tern	Nesting	T/E		10-50 Pairs													May-Sep	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	5-10 Pairs													Apr-Aug	-	-	-
43	Waterfowl	American black duck	Wintering			1000S													-	-	-	-
	Waterfowl	Scaup	Wintering			1000S													-	-	-	-
	Waterfowl	Waterfowl	Wintering			1000S													-	-	-	-
44	Waterfowl	Mergansers	Wintering			1000S													-	-	-	-
	Waterfowl	Scaup	Wintering			1000S													-	-	-	-
	Waterfowl	Waterfowl	Migration			High													-	Mar-Apr	Oct-Nov	-
	Waterfowl	Waterfowl	Wintering			1000S													-	-	-	-
45	Waterfowl	Waterfowl	Migration			High													-	Mar-Apr	Oct-Nov	-
46	Gull/Tern	Roseate tern	Migration	E/E	E	Low													-	May	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	Low													-	Apr-May	Jul-Sep	-
	Shorebird	Sanderling	Migration	-/C		High													-	Apr-May	Aug-Sep	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		High													-	Apr-May	Aug-Sep	-
47	Gull/Tern	Least tern	Nesting	T/E		100-200 Pairs													May-Sep	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	10-25 Pairs													Apr-Aug	-	-	-

#### 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					
379	Diadromous	Atlantic sturgeon	Migration	-/E	E	High													-	-	-	May-Jul	May-Jul

## HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence											
							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	T	-												-
530	Wetland	Rare wetland community	Vulnerable Occurrence			-												-

## 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					
625	Insect	Monarch butterfly	Migration			High													-	-	-	-	Aug-Oct
628	Insect	C. barrens buckmoth	Vulnerable Occurrence	C/-		-													Oct	Oct-Jun	May-Jul	Jan-Dec	Oct
632	Insect	Frosted elfin	Vulnerable Occurrence	T/-		-													Apr-May	Apr-May	May-Jun	Jan-Dec	Apr-May
633	Insect	Pine Barrens underwing	Vulnerable Occurrence	C/-		-													Jul	Jul-May	Apr-Jun	-	Jul
634	Insect	Jersey jair underwing	Vulnerable Occurrence	C/-		-													Jul-Aug	Jul-Mar	Apr-Jun	-	Jul-Aug
	Insect	Pine Barrens underwing	Vulnerable Occurrence	C/-		-													Jul	Jul-May	Apr-Jun	-	Jul
	Insect	Sandplain heterocampa	Vulnerable Occurrence	C/-		-													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jun-Aug
635	Insect	Jersey jair underwing	Vulnerable Occurrence	C/-		-													Jul-Aug	Jul-Mar	Apr-Jun	-	Jul-Aug
	Insect	Pine Barrens underwing	Vulnerable Occurrence	C/-		-													Jul	Jul-May	Apr-Jun	-	Jul
636	Insect	Jersey jair underwing	Vulnerable Occurrence	C/-		-													Jul-Aug	Jul-Mar	Apr-Jun	-	Jul-Aug
637	Insect	Sandplain heterocampa	Vulnerable Occurrence	C/-		-													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jun-Aug
638	Bivalve	Atlantic razor	Harvest Area			94 Bushels/Yr Avg													Apr-May	Apr-May	Apr-May	Jan-Dec	Jan-Dec
	Bivalve	Atlantic surfclam	Harvest Area			Few Bushels/Yr Avg													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
	Bivalve	Bay scallop	Harvest Area			28 Bushels/Yr Avg													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Bivalve	Blue mussel	Harvest Area			13 Bushels/Yr Avg													Apr-Nov	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec
	Bivalve	Eastern oyster	Harvest Area			7 Bushels/Yr Avg													Jul-Aug	Jul-Aug	Jul-Sep	Jan-Dec	Jan-Dec
	Bivalve	Northern quahog	Harvest Area			128 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
	Bivalve	Softshell clam	Harvest Area			5 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
639	Bivalve	Atlantic razor	Harvest Area			3 Bushels/Yr Avg													Apr-May	Apr-May	Apr-May	Jan-Dec	Jan-Dec
	Bivalve	Northern quahog	Harvest Area			386 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
	Bivalve	Softshell clam	Harvest Area			1 Bushel/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
640	Bivalve	Atlantic razor	Harvest Area			96 Bushels/Yr Avg													Apr-May	Apr-May	Apr-May	Jan-Dec	Jan-Dec
	Bivalve	Bay scallop	Harvest Area			4 Bushels/Yr Avg													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Bivalve	Blue mussel	Harvest Area			19 Bushels/Yr Avg													Apr-Nov	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec
	Bivalve	Eastern oyster	Harvest Area			9 Bushels/Yr Avg													Jul-Aug	Jul-Aug	Jul-Sep	Jan-Dec	Jan-Dec
	Bivalve	Northern quahog	Harvest Area			4461 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
	Bivalve	Softshell clam	Harvest Area			17 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec

## MARINE MAMMALS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Mating	Calving	Pupping	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
681	Whale	N.A. right whale	Migration	E/E	E	-													-	-	-	-

WIDESPREAD IN MAPPED AREA ( > 10 SQUARE KILOMETERS )


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

HABITATS & RARE PLANTS

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					
 Upland	Rare upland community	Vulnerable Occurrence			-													-	-	-	-	-


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	T/T	T	-													-	-	-	May-Nov	May-Nov
		K. ridley sea turtle	E/E	E	-													-	-	-	May-Nov	-
		Leatherback sea turtle	E/E	E	-													-	-	-	May-Nov	May-Nov
		Loggerhead sea turtle	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					
 Gastropod	Whelk	Harvest Area			-													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	
	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													-	-	-	-	-

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													May-Aug	-	-	-
	Pelagic													-	-	-	-
	Wilson's storm-petrel													-	-	-	-
	Shorebird													May-Aug	-	-	-
	Wading													Apr-Sep	-	-	-
	Waterfowl													Apr-Aug	-	-	-
	Black scoter													-	-	-	-




**BIRDS (continued)**

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Canada goose													Mar-Jun	-	-	-
	Common eider													-	-	-	-
	Gadwall													May-Sep	-	-	-
	Green-winged teal													May-Aug	-	-	-
	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					
	Alewife													-	-	-	Jan-Dec	Feb-Jun
	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													-	-	-	Nov-Apr	Nov-Apr
	American shad													-	-	-	Apr-Nov	Apr-Jul
	Blueback herring													-	-	-	Nov-Apr	Nov-Apr
	Blueback herring													-	-	-	May-Nov	Mar-Jul
	Striped bass													-	-	-	Mar-Nov	Mar-Nov
	Striped bass													-	-	-	Apr-Nov	Mar-Nov
	Atlantic croaker													-	-	-	-	Jun-Dec
	Atlantic herring													-	-	-	Nov-May	Nov-May
	Atlantic herring													-	-	-	Nov-Apr	Nov-Apr
	Atlantic menhaden													Sep-Dec	Sep-Dec	Oct-Dec	Oct-Apr	Oct-Apr
	Atlantic menhaden													-	-	-	Apr-Nov	Mar-Nov
	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													-	-	-	Apr-Nov	Apr-Nov
	Black sea bass													May-Oct	May-Oct	May-Nov	Mar-Nov	Mar-Nov
	Bluefish													-	-	-	May-Nov	May-Nov
	Bluefish													-	-	-	May-Oct	Apr-Dec
	Northern kingfish													-	-	-	Jun-Nov	Jun-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





**FISH (continued)**

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	White perch													Feb-Apr	Mar-Jun	Jun-Nov	Jan-Dec	Jan-Dec
	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													Feb-Apr	Feb-Apr	Mar-Jun	Jan-Dec	Jan-Dec
	Winter flounder													-	-	-	Jan-Dec	Jan-Dec
 Estuarine Resident	Atlantic silverside													-	-	-	Jan-Apr	Jan-Apr
	Atlantic silverside													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	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													Nov-Feb	Nov-Feb	Dec-Jun	Dec-Jun	Nov-May
	American sand lance													-	-	-	-	Oct-Jun
	Atlantic cod													-	-	-	Nov-Apr	Nov-Apr
	Atlantic cod													-	-	-	Nov-Apr	-
	Atlantic tomcod													-	-	Dec-Apr	Apr-Dec	Jan-Dec
	Cleanose 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
	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	Jan-Dec	Mar-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Jan-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Mar-Nov	Mar-Nov
 Marine Pelagic	Winter skate													-	-	-	Sep-May	Sep-Nov
	Albacore													-	-	-	Jun-Sep	-
	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	-
	Yellowfin tuna													-	-	-	Jul-Sep	-

## REPTILES & AMPHIBIANS

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

## INVERTEBRATES

	<i>Subelement</i>	<i>Species</i>	<i>Monthly Presence</i>												<i>Spawn</i>	<i>Eggs</i>	<i>Larvae</i>	<i>Juveniles</i>	<i>Adults</i>
			<i>J</i>	<i>F</i>	<i>M</i>	<i>A</i>	<i>M</i>	<i>J</i>	<i>J</i>	<i>A</i>	<i>S</i>	<i>O</i>	<i>N</i>	<i>D</i>					
	Bivalve	Atlantic surfclam													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
		Ocean quahog													Jul-Nov	Jul-Nov	Jul-Dec	Jan-Dec	Jan-Dec
	Cephalopod	Longfin squid													-	-	-	-	Jan-Dec
	Crab	Blue crab													-	-	Jun-Oct	-	Aug-Mar
		Blue crab													May-Oct	Jun-Oct	Jun-Oct	Jan-Dec	Jan-Dec
		Horseshoe crab													-	-	-	Aug-Mar	Aug-Mar
		Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
	Lobster	American lobster													-	-	-	Jan-Dec	Jan-Dec







## MARINE MAMMALS

		Monthly Presence													Mating	Calving	Pupping	Molt	
	Subelement	Species	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](https://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	343.41	0.54
	10B	Freshwater Marshes	2.68	0.00
	10C	Swamps	41.00	0.06
	10D	Scrub and Shrub Wetlands	32.16	0.05
	9A	Sheltered Tidal Flats	8.76	0.01
	7	Exposed Tidal Flats	228.53	0.36

### 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	24,902.28	15.47	21%
	10C	Swamps	307.84	0.19	< 1%
	10D	Scrub and Shrub Wetlands	1,009.15	0.63	1%
	9A	Sheltered Tidal Flats	358.84	0.22	< 1%
	9B	Vegetated Low Banks	39,603.67	24.61	33%
	8B	Sheltered, Solid Man-Made Structures	12,105.92	7.52	10%
	8C	Sheltered Riprap	559.06	0.35	< 1%
	7	Exposed Tidal Flats	14,904.51	9.26	12%
	6A	Gravel Beaches	18.83	0.01	< 1%
	6B	Riprap	1,520.02	0.94	1%
	4	Coarse Grained Sand Beaches	12,910.94	8.02	11%
	3A	Fine to Medium Grained Sand Beaches	69.95	0.04	< 1%
	3B	Scarps and Steep Slopes (Sand)	34.87	0.02	< 1%
	1B	Exposed, Solid Man-Made Structures	12,079.22	7.51	10%

Total ESI Shoreline:	120,385.11	Total ESI Shoreline:	74.80
Total Shoreline:	77,254.62	Total Shoreline:	48.00

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](https://response.restoration.noaa.gov)

