

**Map 16A**  
Long Island Sound



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

0 Not for Navigation 1 Miles  
0 1 Kilometers

**1:50,000**



**Map 16A**  
**Long Island Sound**

**BIOLOGICAL RESOURCES**

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

DISPLAYED ON MAP

**BIRDS**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
				S	F		J	F	M	A	M	J	J	A	S	O	N	D				
4	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-
48	Diving	Pied-billed grebe	General Distribution	E/T		Present													-	-	-	-
75	Raptor	Northern harrier	General Distribution	E/T		Present													Mar-Aug	-	-	-
100	Gull/Tern	Black tern	Concentration Area			Present													-	-	Jul-Sep	-
	Gull/Tern	Common tern	Concentration Area	E/T		Abundant													May-Aug	-	-	-
	Gull/Tern	Forster's tern	Concentration Area			Present													Apr-Aug	-	-	-
	Gull/Tern	Laughing gull	Concentration Area			Abundant													Apr-Aug	-	-	-
	Gull/Tern	Least tern	Nesting	T/T		Present													Apr-Aug	-	-	-
	Gull/Tern	Roseate tern	Concentration Area	E/E	E	Present													May-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-
	Raptor	Short-eared owl	General Distribution	T/E		Present													-	Oct-Apr	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Present													Mar-Aug	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-
	Shorebird	Red knot	Concentration Area		T	Abundant													-	May-Jun	Sep-Nov	-
	Shorebird	Semipalmated sandpiper	Migration			Highly Abundant													-	-	Jul-Oct	-
	Shorebird	Shorebirds	Migration			Highly Abundant													-	Jan-Dec	-	-
	Waterfowl	American black duck	Concentration Area			Abundant													Apr-May	Mar-Apr	Sep-Nov	-
	Waterfowl	American wigeon	Concentration Area			Present													-	-	-	-
	Waterfowl	Diving ducks	Concentration Area			Common													-	-	-	-
	Waterfowl	Goldeneye	Concentration Area			Common													-	Apr-May	Nov-Dec	-
	Waterfowl	Long-tailed duck	Concentration Area			Common													-	-	-	-
119	Diving	Pied-billed grebe	General Distribution	E/T		Present													-	-	-	-
	Raptor	Northern harrier	General Distribution	E/T		Present													Mar-Aug	-	-	-
	Wading	American bittern	General Distribution	E/C		Present													Mar-Aug	-	-	-
120	Diving	Pied-billed grebe	General Distribution	E/T		Present													-	-	-	-
	Wading	Least bittern	General Distribution	T/T		Present													Apr-Aug	Apr	Aug-Sep	-
121	Diving	Horned grebe	Concentration Area			Present													-	-	-	-
	Diving	Loons	Concentration Area			Present													-	Apr-May	Oct-Nov	-
	Gull/Tern	Least tern	Nesting	T/T		Present													Apr-Aug	-	-	-
	Passerine	Saltmarsh sparrow	Nesting			Present													May-Aug	-	-	-
	Passerine	Seaside sparrow	Nesting	T/C		Present													May-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Present													Mar-Aug	-	-	-
	Shorebird	Dunlin	Wintering			Present													-	Apr-May	Oct-Nov	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-
	Shorebird	Sanderling	Wintering			Present													-	Sep-Jun	-	-
	Shorebird	Semipalmated sandpiper	Migration			Highly Abundant													-	-	Jul-Oct	-
	Wading	Clapper rail	Nesting			Present													Mar-Aug	-	-	-

**BIRDS (continued)**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Wading	Wading birds	Concentration Area			Present													Jan-Dec	-	-	-	-
	Waterfowl	American black duck	Wintering			Present													Apr-May	Mar-Apr	Sep-Nov	-	-
	Waterfowl	Brant	Concentration Area			Abundant													-	Mar-May	Oct-Nov	-	-
	Waterfowl	Diving ducks	Concentration Area			Present													-	-	-	-	-
	Waterfowl	Goldeneye	Concentration Area			Present													-	Apr-May	Nov-Dec	-	-
	Waterfowl	Long-tailed duck	Wintering			1000S													-	-	-	-	-
122	Gull/Tern	Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-	-
	Wading	Least bittern	General Distribution	T/T		Present													Apr-Aug	Apr	Aug-Sep	-	-
123	Raptor	Barn owl	General Distribution	E/-		Present													Mar-Aug	-	-	-	-
124	Wading	American bittern	General Distribution	E/C		Present													Mar-Aug	-	-	-	-

**FISH**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
600	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	Striped bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	Estuarine Nursery	Northern kingfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Apr-Nov	Apr-Nov
	Estuarine Nursery	Northern puffer	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
601	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	Estuarine Nursery	Northern kingfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Apr-Nov	Apr-Nov
	Estuarine Nursery	Northern puffer	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
602	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American shad	Migration			Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
	Diadromous	Blueback herring	Nursery Area	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Diadromous	Striped bass	Migration			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec

**FISH (continued)**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Inland silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Sheepshead minnow	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Freshwater	Rainbow smelt	Spawning Area	E/-		Uncommon													Feb-May	Feb-May	Feb-May	Feb-May	Feb-May
	Marine Benthic	Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Sep-May	Sep-May
603	Diadromous	Striped bass	Concentration Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Bluefish	Concentration Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Estuarine Nursery	Scup	Concentration Area			Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Weakfish	Concentration Area			Abundant													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
604	Diadromous	Striped bass	Harvest Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Bluefish	Harvest Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Estuarine Nursery	Scup	Harvest Area			Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Weakfish	Harvest Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Marine Benthic	Tautog	Harvest Area			Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec

**HABITATS & RARE PLANTS**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
780	Plant	Devil's-tongue	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
798	Wetland	Sea pink	Vulnerable Occurrence	E/T		Present													-	-	-	-	-
829	Plant	Bearded sprangletop	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
	Plant	N. coastal violet	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
	Plant	Scotland orache	Vulnerable Occurrence	C/E		Present													-	-	-	-	-
	Plant	Slimspike threeawn	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
831	Plant	Devil's-tongue	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
	Plant	New Eng. blazing star	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
	Plant	Seaside threeawn	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
834	Plant	Devil's-tongue	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
	Plant	New Eng. blazing star	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
	Plant	Seaside threeawn	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
	Upland	Bitter panicum	Vulnerable Occurrence	T/-		Present													-	-	-	-	-

**REPTILES & AMPHIBIANS**




Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
962	Turtle	Diamondback terrapin	Vulnerable Occurrence	C/-		Present													Jun-Jul	Aug-Oct	-	Jan-Dec	Jan-Dec

**INVERTEBRATES**





Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
994	Insect	Rare insect	Vulnerable Occurrence			Present													-	-	-	-	Jan-Dec
996	Crab	Horseshoe crab	Spawning Area			Present													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec

WIDESPREAD IN MAPPED AREA ( > 10 SQUARE KILOMETERS )


BIRDS

Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
			S	F		J	F	M	A	M	J	J	A	S	O	N	D				
 Diving	Common loon	General Distribution	C/C		2													-	-	-	-
 Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-
	Least tern	General Distribution	T/T		5													Apr-Aug	-	-	-
	Roseate tern	General Distribution	E/E	E	Present													May-Aug	-	-	-
 Shorebird	American oystercatcher	General Distribution	T/-		Present													Mar-Aug	-	-	-
	Piping plover	General Distribution	T/E	T	Present													Mar-Aug	-	-	-



FISH

Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
 Diadromous	Alewife	Nursery Area			Common													Mar-Jun	Mar-Jun	Mar-Jun	Mar-Oct	Mar-Oct
	American eel	Migration			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	American shad	Nursery Area			Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
	Blueback herring	Migration	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
 Estuarine Nursery	Striped bass	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Atlantic herring	Nursery Area			Abundant													-	-	Mar-May	Jan-Dec	Jan-Dec
	Atlantic menhaden	Nursery Area			Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Bay anchovy	Nursery Area			Common													May-Sep	May-Sep	May-Nov	Jan-Dec	Jan-Dec
	Black sea bass	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Bluefish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Hogchoker	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Scup	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Summer flounder	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Weakfish	Nursery Area			Abundant													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
 Estuarine Resident	Windowpane	Nursery Area			Common													Apr-Oct	Apr-Oct	May-Nov	Jan-Dec	Jan-Dec
	Winter flounder	Nursery Area			Abundant													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
	Atlantic silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Atlantic moonfish	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Jan-Dec	Jan-Dec
	Cunner	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Little skate	Nursery Area			Common													Jan-Dec	Jan-Dec	-	Jan-Dec	Jan-Dec
	Northern searobin	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
	Red hake	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Silver hake	Nursery Area			Common													-	-	May-Oct	Mar-Nov	Mar-Nov
 Marine Benthic	Smooth dogfish	Nursery Area			Common													-	-	-	May-Oct	May-Oct
	Striped searobin	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
	Atlantic mackerel	Nursery Area			Common													Apr-Jun	Apr-Jun	Apr-Jun	Apr-Nov	Apr-Nov
	Butterfish	Nursery Area			Abundant													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec

## REPTILES & AMPHIBIANS

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

## INVERTEBRATES






Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Bivalve	Eastern oyster	Concentration Area		Present													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Lobster	American lobster	Nursery Area		Common													Jun-Nov	Jan-Dec	May-Aug	Jan-Dec	Jan-Dec

## MARINE MAMMALS

Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Mating	Calving	Pupping	Molt	
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Dolphin	Harbor porpoise	General Distribution	C/C	Present													-	-	-	-	-

## 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				
	Diving	Red-necked grebe												-	-	-	-
		Red-throated loon												-	-	-	-
	Gull/Tern	Forster's tern												Apr-Aug	-	-	-
		G. black-backed gull												Mar-Aug	-	-	-
		Herring gull												Mar-Aug	-	-	-
		Ring-billed gull												-	-	-	-
	Passerine	Acadian flycatcher												Jun-Jul	May-Jun	Aug-Sep	-
		Saltmarsh sparrow												May-Aug	-	-	-
	Pelagic	Black-legged kittiwake												-	-	-	-
		Northern gannet												-	-	-	-
	Waterfowl	American black duck												Apr-May	Mar-Apr	Sep-Nov	-
		American wigeon												-	-	-	-
		Black scoter												-	-	-	-
		Blue-winged teal												-	Mar-May	Sep-Nov	-
		Bufflehead												-	Oct-Jun	-	-
		Canada goose												Mar-Aug	Jan-Dec	-	-
		Canvasback												-	-	-	-
		Common eider												Sep-May	-	-	-
		Common goldeneye												-	Nov-Apr	-	-
		Common merganser												-	-	-	-
		Eurasian wigeon												-	-	-	-
		Gadwall												Jan-Dec	-	-	-
		Greater scaup												-	-	-	-
		Green-winged teal												-	Mar-Apr	Sep-Oct	-





## BIRDS (continued)

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Hooded merganser													-	-	-	-
	Long-tailed duck													-	-	-	-
	Mallard													Mar-Aug	-	-	-
	Northern pintail													-	-	-	-
	Northern shoveler													-	-	-	-
	Ring-necked duck													-	-	-	-
	Ruddy duck													-	-	-	-
	Scaup													-	Mar-Apr	Oct-Nov	-
	Scoters													-	Apr-May	Sep-Nov	-
	Surf scoter													-	-	-	-
	White-winged scoter													-	Sep-May	-	-



## FISH

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Diadromous	Gizzard shad													Apr-Jun	Apr-Jun	Apr-Jun	Jan-Dec	Jan-Dec
 Freshwater	Spottail shiner													Jun-Jul	Jun-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	White catfish													May-Jul	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec

## INVERTEBRATES

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Bivalve	Eastern oyster													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Northern quahog													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Ribbed mussel													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Softshell clam													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
 Cephalopod	Longfin squid													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
 Crab	Blue crab													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
	Fiddler crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Green crab													Mar-Sep	Mar-Sep	May-Oct	Jan-Dec	Jan-Dec
	Horseshoe crab													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
	Lady crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Spider crabs													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
 Shrimp	Grass shrimp													May-Oct	May-Oct	May-Oct	May-Oct	Jan-Dec
	Mantis shrimp													Feb-May	Feb-May	Feb-May	Jan-Dec	Jan-Dec
	Sevenspine bay shrimp													May-Oct	May-Oct	May-Oct	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													-	-	-	-
 Pinniped	Gray seal													-	-	-	-
	Harbor seal													-	-	-	-

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	501.99	0.78
	10B	Freshwater Marshes	42.89	0.07
	10C	Swamps	7.77	0.01
	10D	Scrub and Shrub Wetlands	10.20	0.02
	9A	Sheltered Tidal Flats	2.54	0.00
	7	Exposed Tidal Flats	170.77	0.27

### 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	59,202.62	36.79	29%
	10B	Freshwater Marshes	2,166.74	1.35	1%
	10C	Swamps	246.07	0.15	< 1%
	9A	Sheltered Tidal Flats	314.04	0.20	< 1%
	9B	Vegetated Low Banks	77,347.58	48.06	38%
	8B	Sheltered, Solid Man-Made Structures	17,510.39	10.88	9%
	8C	Sheltered Riprap	3,410.54	2.12	2%
	7	Exposed Tidal Flats	7,249.29	4.50	4%
	6A	Gravel Beaches	313.89	0.20	< 1%
	6B	Riprap	13,221.80	8.22	7%
	5	Mixed Sand and Gravel Beaches	3,157.84	1.96	2%
	4	Coarse Grained Sand Beaches	8,609.82	5.35	4%
	3A	Fine to Medium Grained Sand Beaches	1,473.01	0.92	1%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	118.98	0.07	< 1%
	1B	Exposed, Solid Man-Made Structures	7,947.00	4.94	4%

Total ESI Shoreline:	202,289.59	Total ESI Shoreline:	125.70
Total Shoreline:	126,082.21	Total Shoreline:	78.34

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)

