



**Map 18B**  
**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				
60	Passerine	Purple martin	General Distribution	CI/-		Present													Apr-Aug	-	-	-
137	Diving	Diving birds	Wintering			Present													-	-	-	-
	Diving	Horned grebe	Wintering			Abundant													-	-	-	-
	Shorebird	American oystercatcher	Concentration Area	T/-		Low													Mar-Aug	-	-	-
	Shorebird	Shorebirds	Migration			Low													-	Jan-Dec	-	-
	Wading	BC night-heron	Concentration Area			Present													Mar-Aug	-	-	-
	Wading	Great egret	Concentration Area	T/-		Present													Mar-Aug	-	-	-
	Wading	Snowy egret	Concentration Area	T/-		Present													Mar-Aug	-	-	-
	Waterfowl	American black duck	Concentration Area			Present													Apr-May	Mar-Apr	Sep-Nov	-
	Waterfowl	Diving ducks	Concentration Area			Present													-	-	-	-
	Waterfowl	Waterfowl	Concentration Area			Somewhat Abundant													-	Jan-Dec	-	-
138	Wading	BC night-heron	Nesting			Abundant													Mar-Aug	-	-	-
	Wading	Great egret	Nesting	T/-		Abundant													Mar-Aug	-	-	-
	Wading	Snowy egret	Nesting	T/-		Abundant													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					
453	Diadromous	Alewife	Spawning Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
624	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	Blueback herring	Nursery Area	CI/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Brown trout (sea run)	Migration			Uncommon													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Sep-Jan
	Diadromous	Striped bass	Migration			Common													-	-	-	Apr-Nov	Apr-Nov
625	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	Blueback herring	Nursery Area	CI/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Brown trout (sea run)	Migration			Uncommon													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Sep-Jan
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	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					
987	Bivalve	Eastern oyster	Concentration Area			Present													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	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	10S	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
		Pied-billed grebe	General Distribution	E/T	Present	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T	Present													Apr-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 eel	Nursery Area		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
		Striped bass	Nursery Area		Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Striped bass	Nursery Area		Common													-	-	-	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
		Bluefish	Nursery Area		Common													-	-	-	Jun-Oct	Jun-Oct
		Bluefish	Nursery Area		Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
		Northern kingfish	Nursery Area		Common													Jun-Sep	Jun-Sep	Jun-Sep	Apr-Nov	Apr-Nov
		Northern puffer	Nursery Area		Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Scup	Nursery Area		Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
		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		Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
		Windowpane	Nursery Area		Common													Apr-Oct	Apr-Oct	May-Nov	Jan-Dec	Jan-Dec
	Estuarine Resident	Winter flounder	Nursery Area		Abundant													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
		Winter flounder	Nursery Area		Common													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
		Atlantic silverside	Nursery Area		Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Atlantic silverside	Nursery Area		Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Fourspine stickleback	Nursery Area		Common													Apr-Jul	Apr-Jul	May-Aug	May-Dec	Jan-Dec
		Grubby	Nursery Area		Common													Dec-Apr	Dec-Apr	Jan-May	Jan-Dec	Jan-Dec
		Mummichog	Nursery Area		Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
		Northern pipefish	Nursery Area		Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
		Striped killifish	Nursery Area		Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
		Atlantic tomcod	Nursery Area		Common													Nov-Feb	Nov-Mar	Dec-May	Jan-Dec	Jan-Dec
	Marine Benthic	Cunner	Nursery Area		Common													May-Aug	May-Aug	May-Aug	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
		Smooth dogfish	Nursery Area		Common													-	-	-	May-Oct	May-Oct
		Striped searobin	Nursery Area		Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov



## FISH (continued)

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					
	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov

## 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					
	Crab	Horseshoe crab	Nursery Area		Common													May-Jun	Jun-Jul	-	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	D. crested cormorant												Mar-Aug	-	-	-
		Great cormorant												-	-	-	-
		Horned grebe												-	-	-	-
		Red-throated loon												-	-	-	-
	Gull/Tern	G. black-backed gull												Mar-Aug	-	-	-
		Herring gull												Mar-Aug	-	-	-
		Ring-billed gull												-	-	-	-
	Passerine	Acadian flycatcher												Jun-Jul	May-Jun	Aug-Sep	-
	Pelagic	Northern gannet												-	-	-	-
	Waterfowl	American black duck												Apr-May	Mar-Apr	Sep-Nov	-
		American wigeon												-	-	-	-
		Barrow's goldeneye												-	-	-	-
		Black brant												-	May	Oct	-
		Black scoter												-	-	-	-
		Bufflehead												-	Oct-Jun	-	-
		Canada goose												Mar-Aug	Jan-Dec	-	-
		Canvasback												-	-	-	-
		Common goldeneye												-	Nov-Apr	-	-





**BIRDS (continued)**

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Common merganser													-	-	-	-
	Eurasian wigeon													-	-	-	-
	Gadwall													Jan-Dec	-	-	-
	Greater scaup													-	-	-	-
	Green-winged teal													-	Mar-Apr	Sep-Oct	-
	Hooded merganser													-	-	-	-
	King eider													-	-	-	-
	Lesser scaup													-	-	-	-
	Long-tailed duck													-	-	-	-
	Mallard													Mar-Aug	-	-	-
	Mute swan													Mar-Sep	-	-	-
	Northern pintail													-	-	-	-
	Northern shoveler													-	-	-	-
	Red-breasted merganser													-	-	-	-
	Redhead													-	Nov-Mar	-	-
	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					
 Freshwater	Bluegill													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Largemouth bass													May-Jul	May-Jul	May-Jul	Jan-Dec	Jan-Dec
	Pumpkinseed													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Redbreast sunfish													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	White sucker													Apr-May	Apr-Jun	Apr-Jun	Jan-Dec	Jan-Dec
	Yellow perch													Mar-May	Mar-May	Mar-Aug	Jan-Dec	Jan-Dec

## 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	Eastern oyster													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Northern quahog													Jun-Oct	Jun-Oct	Jun-Nov	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
		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	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

	<i>Subelement</i>	<i>Species</i>	<i>Monthly Presence</i>												<i>Mating</i>	<i>Calving</i>	<i>Pupping</i>	<i>Molt</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>				
	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	74.11	0.12
	10B	Freshwater Marshes	12.00	0.02
	10C	Swamps	39.32	0.06
	10D	Scrub and Shrub Wetlands	11.01	0.02
	9A	Sheltered Tidal Flats	185.69	0.29
	7	Exposed Tidal Flats	74.72	0.12
	2A	Exposed Wave-Cut Platforms In Bedrock	15.25	0.02

### 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	19,999.23	12.43	11%
	10B	Freshwater Marshes	272.51	0.17	< 1%
	10D	Scrub and Shrub Wetlands	37.76	0.02	< 1%
	9A	Sheltered Tidal Flats	16,566.54	10.29	9%
	9B	Vegetated Low Banks	38,582.56	23.97	22%
	8A	Sheltered, Impermeable, Rocky Shores	1,009.05	0.63	1%
	8B	Sheltered, Solid Man-Made Structures	13,526.17	8.40	8%
	8C	Sheltered Riprap	6,859.53	4.26	4%
	7	Exposed Tidal Flats	6,291.61	3.91	4%
	6A	Gravel Beaches	5,556.78	3.45	3%
	6B	Riprap	14,760.11	9.17	8%
	5	Mixed Sand and Gravel Beaches	13,532.37	8.41	8%
	4	Coarse Grained Sand Beaches	5,409.19	3.36	3%
	3A	Fine to Medium Grained Sand Beaches	1,059.92	0.66	1%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	10,000.08	6.21	6%
	1B	Exposed, Solid Man-Made Structures	25,282.59	15.71	14%

Total ESI Shoreline:	178,746.00	Total ESI Shoreline:	111.07
Total Shoreline:	109,042.42	Total Shoreline:	67.76

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)

