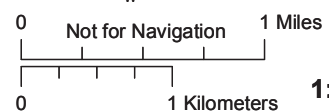


Map 9C
Long Island Sound



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



1:50,000



Map 9C 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 | | | | |
| 74 | Diving | Grebes | Concentration Area | | | Present | | | | | | | | | | | | | - | Jan-Dec | - | - |
| | Diving | Loons | Concentration Area | | | Present | | | | | | | | | | | | | - | Apr-May | Oct-Nov | - |
| | Gull/Tern | Common tern | Nesting | E/T | | Abundant | | | | | | | | | | | | | May-Aug | - | - | - |
| | Gull/Tern | Roseate tern | Nesting | E/E | E | Abundant | | | | | | | | | | | | | May-Aug | - | - | - |
| | Shorebird | American oystercatcher | General Distribution | T/- | | Present | | | | | | | | | | | | | Mar-Aug | - | - | - |
| | Shorebird | American oystercatcher | Nesting | T/- | | Present | | | | | | | | | | | | | Mar-Aug | - | - | - |
| | Shorebird | Purple sandpiper | Wintering | | | Present | | | | | | | | | | | | | - | Apr-May | Oct-Nov | - |
| | Shorebird | Shorebirds | Migration | | | Present | | | | | | | | | | | | | - | Jan-Dec | - | - |
| | Waterfowl | Diving ducks | Concentration Area | | | Present | | | | | | | | | | | | | - | - | - | - |

MARINE MAMMALS


| Map ID | 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 | | | | |
| 1034 | Pinniped | Gray seal | Concentration Area | | | Present | | | | | | | | | | | | | - | - | - | - |
| | Pinniped | Harbor seal | Concentration Area | | | Varies (10 - 75) | | | | | | | | | | | | | - | - | - | - |

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 | | | | | | | | | | | | | - | - | - | - |
|  | Gull/Tern | Common tern | General Distribution | E/T | | Present | | | | | | | | | | | | | May-Aug | - | - | - |
| | | Roseate tern | General Distribution | E/E | E | Present | | | | | | | | | | | | | May-Aug | - | - | - |
|  | Wading | Great egret | General Distribution | T/- | | Present | | | | | | | | | | | | | Mar-Aug | - | - | - |
| | | Little blue heron | General Distribution | C/- | | Present | | | | | | | | | | | | | Apr-Aug | - | - | - |
| | | Snowy egret | General Distribution | 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 | Migration | | | Common | | | | | | | | | | | | | May-Jul | May-Jul | May-Aug | Jun-Nov | Apr-Jul |
| | | American shad | Nursery Area | | | Common | | | | | | | | | | | | | May-Jul | May-Jul | May-Aug | Jun-Nov | Apr-Jul |
| | | Atlantic sturgeon | Vulnerable Occurrence | E/- | E | Rare | | | | | | | | | | | | | May-Jun | May-Jun | May-Jun | Jan-Dec | Jan-Dec |
| | | Blueback herring | Migration | C/- | | Common | | | | | | | | | | | | | May-Sep | May-Sep | May-Oct | 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 | | | | | |
|  | Blueback herring | Nursery Area | C/- | | Common | | | | | | | | | | | | | May-Sep | May-Sep | May-Oct | Apr-Nov | Apr-Nov |
| | Striped bass | Nursery Area | | | Common | | | | | | | | | | | | | - | - | - | Apr-Nov | Apr-Nov |
| | 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 |
|  | 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 |
| | Cunner | Nursery Area | | | Common | | | | | | | | | | | | | May-Aug | May-Aug | May-Aug | Jan-Dec | Jan-Dec |
| | Little skate | Nursery Area | | | Abundant | | | | | | | | | | | | | 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 |
| | Smooth dogfish | Nursery Area | | | Common | | | | | | | | | | | | | - | - | - | May-Oct | May-Oct |
| | Spotted hake | Nursery Area | | | Common | | | | | | | | | | | | | - | - | - | Mar-Nov | Mar-Nov |
| | 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 | | | | | |
|  | 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 | | | | | |
|  | 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 | 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 | 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 | - |
| | | Saltmarsh sparrow | | | | | | | | | | | | | May-Aug | - | - | - |
|  | Pelagic | Northern gannet | | | | | | | | | | | | | - | - | - | - |
|  | Waterfowl | American black duck | | | | | | | | | | | | | Apr-May | Mar-Apr | Sep-Nov | - |
| | | Black scoter | | | | | | | | | | | | | - | - | - | - |
| | | Bufflehead | | | | | | | | | | | | | - | Oct-Jun | - | - |
| | | Canada goose | | | | | | | | | | | | | Mar-Aug | Jan-Dec | - | - |
| | | Common goldeneye | | | | | | | | | | | | | - | Nov-Apr | - | - |
| | | Gadwall | | | | | | | | | | | | | Jan-Dec | - | - | - |
| | | Greater scaup | | | | | | | | | | | | | - | - | - | - |
| | | Lesser scaup | | | | | | | | | | | | | - | - | - | - |
| | | Long-tailed duck | | | | | | | | | | | | | - | - | - | - |
| | | Mallard | | | | | | | | | | | | | Mar-Aug | - | - | - |
| | | Mute swan | | | | | | | | | | | | | Mar-Sep | - | - | - |
| | | Northern shoveler | | | | | | | | | | | | | - | - | - | - |
| | | Red-breasted merganser | | | | | | | | | | | | | - | - | - | - |
| | | Ring-necked duck | | | | | | | | | | | | | - | - | - | - |
| | | Ruddy duck | | | | | | | | | | | | | - | - | - | - |
| | | 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 | | | | | |
|  | Estuarine Nursery | Hogchoker | | | | | | | | | | | | | May-Aug | May-Aug | May-Aug | Jan-Dec | Jan-Dec |
|  | Marine Benthic | Little skate | | | | | | | | | | | | | Jan-Dec | Jan-Dec | - | 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 |
|  | Cephalopod | Longfin squid | | | | | | | | | | | | | May-Aug | May-Aug | May-Aug | Jan-Dec | Jan-Dec |
|  | Crab | Horseshoe crab | | | | | | | | | | | | | May-Jun | Jun-Jul | - | Jan-Dec | Jan-Dec |
|  | Shrimp | Mantis shrimp | | | | | | | | | | | | | Feb-May | Feb-May | Feb-May | 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

SHORELINE RESOURCES

ESI POLYGON HABITAT TYPES

| <i>ESI Rank</i> | <i>Habitat Classification</i> | <i>Area (Acres)</i> | <i>Area (Sq. Miles)</i> |
|------------------------------------|-------------------------------|---------------------|-------------------------|
| 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> |
|---|---|------------------------|-----------------------|---------------------------|
|  6A | Gravel Beaches | 910.57 | 0.57 | 100% |
| Total ESI Shoreline: | | 910.57 | Total ESI Shoreline: | 0.57 |
| Total Shoreline: | | 910.57 | Total Shoreline: | 0.57 |

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

