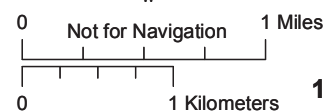


Map 1A
Long Island Sound



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 1A 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

BENTHIC

	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence											
				S	F		J	F	M	A	M	J	J	A	S	O	N	D
	SAV	Eelgrass	High Ecological Value			Present												

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				
1	Diving	Common loon	General Distribution	C/C		10S													-	-	-	-
	Diving	Pied-billed grebe	General Distribution	E/T		10S													-	-	-	-
	Gull/Tern	Black skimmer	General Distribution	-/C		Present													Mar-Aug	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		10S													May-Aug	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-
	Gull/Tern	Roseate tern	General Distribution	E/E	E	Present													May-Aug	-	-	-
	Shorebird	American oystercatcher	General Distribution	T/-		Present													Mar-Aug	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	Present													Mar-Aug	-	-	-
2	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		5													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Glossy ibis	General Distribution	C/-		10S													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		9													Mar-Aug	-	-	-
3	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		5													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Glossy ibis	General Distribution	C/-		10S													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-
4	Wading	Snowy egret	General Distribution	T/-		9													Mar-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-
5	Diving	Grebes	Wintering			Present													-	Jan-Dec	-	-
	Diving	Loons	Wintering			Present													-	Apr-May	Oct-Nov	-
	Gull/Tern	Least tern	Concentration Area	T/T		Present													Apr-Aug	-	-	-
	Passerine	Saltmarsh sparrow	Concentration Area			Abundant													May-Aug	-	-	-
	Passerine	Seaside sparrow	Concentration Area	T/C		Abundant													May-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Present													Mar-Aug	-	-	-
	Shorebird	Piping plover	Concentration Area	T/E	T	Present													Mar-Aug	-	-	-
	Wading	Wading birds	Concentration Area			Present													Jan-Dec	-	-	-
	Waterfowl	Dabbling ducks	Migration			Present													-	Jan-Dec	-	-
6	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-
	Raptor	Osprey	General Distribution	-/C		4													Mar-Aug	Mar-Jun	Jul-Nov	-
7	Wading	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		4													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					
419	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Grubby	Nursery Area			Common													Dec-Apr	Dec-Apr	Jan-May	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Sheepshead minnow	Nursery Area			Abundant													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Threespine stickleback	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Oct	May-Dec	Jan-Dec
	Marine Benthic	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
420	Diadromous	American shad	Migration			Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
	Diadromous	Striped bass	Migration			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
421	Estuarine Nursery	Winter flounder	Nursery Area			Abundant													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
422	Diadromous	Alewife	Spawning Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Resident	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
423	Diadromous	American shad	Spawning Area			Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
424	Freshwater	Banded sunfish	Vulnerable Occurrence	C/T		Uncommon													Apr-Jul	Apr-Jul	May-Aug	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					
755	Plant	Scottish licorice-root	Vulnerable Occurrence	E/E		Low													-	-	-	-	-
756	Plant	Eastern grasswort	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
757	Plant	Yellow thistle	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
758	Plant	Scottish licorice-root	Vulnerable Occurrence	E/E		Present													-	-	-	-	-
	Plant	Yellow thistle	Vulnerable Occurrence	E/-		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					
959	Turtle	Green sea turtle	General Distribution	T/T	T	Present													-	-	-	Jun-Nov	-
	Turtle	K. ridley sea turtle	General Distribution	E/E	E	Present													-	-	-	Jun-Nov	-
	Turtle	Leatherback sea turtle	General Distribution	E/E	E	Present													-	-	-	Jun-Nov	-
	Turtle	Loggerhead sea turtle	General Distribution	T/T	E	Present													-	-	-	Jun-Nov	-

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					
985	Bivalve	Rare freshwater mussel	Vulnerable Occurrence			Present													Jul-Sep	-	-	Jan-Dec	Jan-Dec
	Insect	Threatened insect	Vulnerable Occurrence	E/-	T	Present													-	-	-	-	Jan-Dec
986	Crab	Horseshoe crab	Spawning Area			Abundant													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
	Insect	Frosted elfin	Vulnerable Occurrence	-/T		Present													Apr-May	Apr-May	Jun	Jul-Mar	Apr-Jun
987	Bivalve	Eastern oyster	Concentration Area			Present													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec

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					
1030	Dolphin	Harbor porpoise	General Distribution	C/C		Present	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-
	Whale	Humpback whale	General Distribution	-/E	E	Present													-	-	-	-	-
	Whale	N.A. right whale	General Distribution	-/E	E	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				
	Alcid	Razorbill													-	-	-	-
	Diving	D. crested cormorant													Mar-Aug	-	-	-
		Great cormorant													-	-	-	-
		Horned grebe													-	-	-	-
		Red-throated loon													-	-	-	-
	Gull/Tern	Bonaparte's gull													-	-	-	-
		G. black-backed gull													Mar-Aug	-	-	-
		Herring gull													Mar-Aug	-	-	-
		Laughing gull													Apr-Aug	-	-	-
		Ring-billed gull													-	-	-	-
	Passerine	Acadian flycatcher													Jun-Jul	May-Jun	Aug-Sep	-
		American crow													Mar-Aug	-	-	-
		American goldfinch													Mar-Aug	-	-	-
		American robin													Mar-Aug	-	-	-
		Barn Swallow													Apr-Aug	-	-	-
		Black-billed cuckoo													Jun-Aug	Apr-May	Sep-Oct	-
		Black-capped chickadee													Mar-Aug	-	-	-
		Blue jay													Apr-Aug	Mar-May	Sep-Oct	-
		Brown-headed cowbird													Mar-Aug	-	-	-
		Carolina wren													Apr-Jul	-	-	-
		Chimney swift													Jun-Jul	Apr-May	Aug-Sep	-
		Chipping sparrow													Mar-Aug	-	-	-
		Common grackle													Mar-Aug	-	-	-
		Common yellowthroat													Apr-Aug	-	-	-
		Eastern towhee													Mar-Aug	-	-	-
		European starling													Mar-Aug	-	-	-
		Gray catbird													Mar-Aug	-	-	-



BIRDS (continued)

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	House finch													Mar-Aug	-	-	-
	Marsh wren													Apr-Aug	-	-	-
	Mourning dove													Mar-Aug	-	-	-
	Nelson's sparrow													-	-	Sep-Nov	-
	Northern cardinal													Mar-Aug	-	-	-
	Pine warbler													Jun-Aug	Apr-May	Sep-Oct	-
	Red-bellied woodpecker													Jun-Jul	Apr-May	Aug-Nov	-
	Red-winged blackbird													Mar-Aug	-	-	-
	Saltmarsh sparrow													May-Aug	-	-	-
	Scarlet tanager													Jun-Jul	May	Sep-Oct	-
	Song sparrow													Mar-Aug	-	-	-
	Tree swallow													Mar-Aug	-	-	-
	Veery													Apr-Aug	-	-	-
	Willow flycatcher													May-Aug	-	-	-
	Yellow warbler													Apr-Aug	-	-	-
	Pelagic													-	-	-	-
	Black-legged kittiwake													-	-	-	-
	Cory's shearwater													-	Jun-Nov	-	-
	Northern gannet													-	-	-	-
	Wilson's storm-petrel													-	-	-	-
	Shorebird													-	May-Jun	Sep-Oct	-
	Greater yellowlegs													-	Apr-Jun	Aug-Oct	-
	Least sandpiper													-	Apr-Jun	Aug-Oct	-
	Lesser yellowlegs													-	Apr-Jun	Aug-Oct	-
	Semipalmated sandpiper													-	-	Jul-Oct	-
	Willet													Apr-Aug	-	-	-
	Wading													Mar-Aug	-	-	-
	Great blue heron													Mar-Aug	-	-	-
	Virginia rail													Mar-Aug	-	-	-
	Waterfowl													Apr-May	Mar-Apr	Sep-Nov	-
	American black duck													-	-	-	-
	American coot													-	-	-	-
	American wigeon													-	-	-	-
	Black brant													-	May	Oct	-
	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	-
	Hooded merganser													-	-	-	-
	Lesser scaup													-	-	-	-
	Long-tailed duck													-	-	-	-


BIRDS (continued)

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	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					
	Diadromous													Apr-Jun	Apr-Jun	Apr-Jun	Jan-Dec	Jan-Dec
	Freshwater													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
	Tessellated darter													Apr-May	Apr-May	Apr-Jun	Jan-Dec	Jan-Dec
	White sucker													Apr-May	Apr-Jun	Apr-Jun	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					
	Crab													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
	Horseshoe crab													May-Jun	Jun-Jul	-	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													-	-	-	-
	Pinniped													-	-	-	-
	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>
	10A	Salt and Brackish Water Marshes	353.12	0.55
	10B	Freshwater Marshes	5.52	0.01
	10C	Swamps	481.62	0.75
	10D	Scrub and Shrub Wetlands	130.81	0.20
	9A	Sheltered Tidal Flats	1.10	0.00
	7	Exposed Tidal Flats	13.26	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	22,349.09	13.89	43%
	10B	Freshwater Marshes	180.37	0.11	< 1%
	10C	Swamps	727.51	0.45	1%
	10D	Scrub and Shrub Wetlands	455.73	0.28	1%
	9A	Sheltered Tidal Flats	533.60	0.33	1%
	9B	Vegetated Low Banks	15,029.27	9.34	29%
	8A	Sheltered Scarps (Bedrock/Mud/Clay)	2,885.33	1.79	6%
	8A	Sheltered, Impermeable, Rocky Shores	65.09	0.04	< 1%
	8A	Sheltered Scarps (Bedrock/Mud/Clay)	2,885.33	1.79	6%
	8A	Sheltered, Impermeable, Rocky Shores	65.09	0.04	< 1%
	8B	Sheltered, Solid Man-Made Structures	2,884.42	1.79	6%
	8C	Sheltered Riprap	1,759.37	1.09	3%
	7	Exposed Tidal Flats	847.58	0.53	2%
	6A	Gravel Beaches	562.58	0.35	1%
	6B	Riprap	1,479.40	0.92	3%
	5	Mixed Sand and Gravel Beaches	1,011.19	0.63	2%
	3A	Fine to Medium Grained Sand Beaches	662.68	0.41	1%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	39.26	0.02	< 1%
	1A	Exposed, Rocky Shores	124.87	0.08	< 1%
	1B	Exposed, Solid Man-Made Structures	15.26	0.01	< 1%

Total ESI Shoreline:	51,612.61	Total ESI Shoreline:	32.07
Total Shoreline:	45,898.92	Total Shoreline:	28.52

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

