

Map 31A
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 31A
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

	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</i>											
				<i>S</i>	<i>F</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>
	SAV	Eelgrass	High Ecological Value			Present											-	-
	SAV	Cutleaf watermilfoil	High Ecological Value	-	E	Present											-	-

BIRDS

<i>Map ID</i>	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</i>												<i>Nest</i>	<i>Mig.(S)</i>	<i>Mig.(F)</i>	<i>Molt</i>
				<i>S</i>	<i>F</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>				
180	Raptor	Osprey	General Distribution	-	C	Present													Mar-Aug	Mar-Jun	Jul-Nov	-
408	Diving	D. crested cormorant	Nesting			Present													Mar-Aug	-	-	-
	Gull/Tern	Black skimmer	Vulnerable Occurrence	-	C	Present													Mar-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	E	T	Present													May-Aug	-	-	-
	Gull/Tern	G. black-backed gull	Nesting			Present													Mar-Aug	-	-	-
	Gull/Tern	Herring gull	Nesting			Present													Mar-Aug	-	-	-
	Gull/Tern	Least tern	Nesting	T	T	Present													Apr-Aug	-	-	-
	Gull/Tern	Roseate tern	Concentration Area	E	E	Present													May-Aug	-	-	-
	Passerine	Barn Swallow	Nesting			Present													Apr-Aug	-	-	-
	Passerine	Belted kingfisher	Nesting			Present													Mar-Aug	-	-	-
	Passerine	Brown thrasher	Nesting	C	-	Present													Mar-Aug	-	-	-
	Passerine	Eastern kingbird	Nesting			Present													Apr-Aug	-	-	-
	Passerine	Passerine birds	Migration			Present													Jan-Dec	Jan-Dec	-	-
	Passerine	Tree swallow	Nesting			Present													Mar-Aug	-	-	-
	Raptor	Osprey	Nesting	-	C	Present													Mar-Aug	Mar-Jun	Jul-Nov	-
	Shorebird	American oystercatcher	Nesting	T	-	Present													Mar-Aug	-	-	-
	Shorebird	Piping plover	Vulnerable Occurrence	T	E	Present													Mar-Aug	-	-	-
	Shorebird	Shorebirds	Migration			Present													-	Jan-Dec	-	-
	Wading	BC night-heron	Nesting			Present													Mar-Aug	-	-	-
	Wading	Great blue heron	Vulnerable Occurrence			Present													Mar-Aug	-	-	-
	Wading	Green heron	Nesting			Present													Apr-Aug	-	-	-
	Wading	Heron	Vulnerable Occurrence			Present													Jan-Dec	Jan-Dec	-	-
	Wading	Little blue heron	Vulnerable Occurrence	C	-	Present													Apr-Aug	-	-	-
	Wading	Snowy egret	Nesting	T	-	Present													Mar-Aug	-	-	-
	Waterfowl	Canada goose	Nesting			Present													Mar-Aug	Jan-Dec	-	-
	Waterfowl	Common eider	Nesting			Present													Sep-May	-	-	-
	Waterfowl	Mallard	Nesting			Present													Mar-Aug	-	-	-
	Waterfowl	Waterfowl	Wintering			Present													-	Jan-Dec	-	-
	Waterfowl	Wood duck	Nesting			Present													Mar-Aug	-	-	-
409	Diving	Grebes	Wintering			Present													-	Jan-Dec	-	-
	Diving	Loons	Wintering			Present													-	Apr-May	Oct-Nov	-

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				
	Gull/Tern	Terns	Wintering			Present													-	-	-	-
	Waterfowl	Common eider	Concentration Area			Present													Sep-May	-	-	-
	Waterfowl	Diving ducks	Wintering			Present													-	-	-	-
410	Wading	Glossy ibis	Nesting	C/-		Present													Mar-Aug	-	-	-
	Wading	Wading birds	Nesting			Present													Jan-Dec	-	-	-

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					
450	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	Summer flounder	Concentration Area			Common													-	-	-	Mar-Nov	Mar-Nov
451	Diadromous	Striped bass	Concentration Area			Common													-	-	-	Jan-Dec	Jan-Dec
454	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	Summer flounder	Concentration Area			Common													-	-	-	Mar-Nov	Mar-Nov
455	Estuarine Nursery	Black sea bass	Concentration Area			Common													-	-	-	Jan-Dec	Jan-Dec
746	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
	Diadromous	Brown trout (sea run)	Migration			Uncommon													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Sep-Jan
	Diadromous	Hickory shad	Concentration Area			Common													Jun-Aug	Jun-Aug	Jun-Aug	Jul-Nov	Jun-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Estuarine Nursery	Rainwater killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
	Estuarine Nursery	Winter flounder	Concentration Area			Abundant													Feb-May	Feb-May	Mar-Jun	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
	Marine Benthic	Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Sep-May	Sep-May

HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence																
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
773	Plant	Seaside sandplant	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
889	Upland	Bushy rockrose	Vulnerable Occurrence	-/T		Present													-	-	-	-	-
939	Plant	Seacoast angelica	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
940	Wetland	Red pigweed	Vulnerable Occurrence	-/T		Present													-	-	-	-	-
941	Plant	Golden dock	Vulnerable Occurrence	C/E		Present													-	-	-	-	-
942	Plant	American burnweed	Vulnerable Occurrence	-/E		Present													-	-	-	-	-
943	Plant	Twining screwstem	Vulnerable Occurrence	-/E		Present													-	-	-	-	-
944	FAV	Spotted pondweed	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					
961	Turtle	Leatherback sea turtle	General Distribution	E/E	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					
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					
1045	Pinniped	Harbor seal	Haul Out			100S													-	-	-	-	-

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													-	-	-	-	-
		Pied-billed grebe	General Distribution	E/T		10S													-	-	-	-	-
	Gull/Tern	Black skimmer	General Distribution	-/C		Present													Mar-Aug	-	-	-	-
		Common tern	General Distribution	E/T		10S													May-Aug	-	-	-	-
		Least tern	General Distribution	T/T		Present													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	Migration			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
		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
		Striped bass	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Atlantic herring	Nursery Area			Common													-	-	Mar-May	Jan-Dec	Jan-Dec
		Atlantic herring	Nursery Area			Abundant													-	-	Mar-May	Jan-Dec	Jan-Dec
		Atlantic menhaden	Nursery Area			Common													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
		Scup	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-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					
	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
	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
 Estuarine Resident	Atlantic silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
 Marine Benthic	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
	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
 Marine Pelagic	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
	Butterfish	Nursery Area			Common													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec
	Spiny dogfish	Nursery Area			Common													-	-	-	May-Nov	May-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					
 Bivalve	Eastern oyster	Harvest Area			Moderate													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Northern quahog	Harvest Area			Low													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

				CT/NY		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
	Dolphin	Harbor porpoise	General Distribution	C/C		Present													-	-	-	-
	Whale	Humpback whale	General Distribution	-/E	E	Present													-	-	-	-
		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	-
	Pelagic	Black-legged kittiwake													-	-	-	-
		Cory's shearwater													-	Jun-Nov	-	-
		Northern gannet													-	-	-	-
		Wilson's storm-petrel													-	-	-	-
	Waterfowl	American black duck													Apr-May	Mar-Apr	Sep-Nov	-
		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													-	-	-	-
		Mallard													Mar-Aug	-	-	-
		Mute swan													Mar-Sep	-	-	-
		Northern pintail													-	-	-	-
		Northern shoveler													-	-	-	-
		Red-breasted merganser													-	-	-	-
		Redhead													-	Nov-Mar	-	-
		Ring-necked duck													-	-	-	-
		Ruddy 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				
	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
 Marine Benthic	Winter skate													Jun-Jan	Jun-Jan	-	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	Northern quahog													Jun-Oct	Jun-Oct	Jun-Nov	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
	Horseshoe crab													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
	Jonah crab													Nov-Jun	May-Nov	Jun-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

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	8.07	0.01
	10B	Freshwater Marshes	26.42	0.04
	10C	Swamps	22.53	0.04
	10D	Scrub and Shrub Wetlands	3.23	0.01
	9A	Sheltered Tidal Flats	31.68	0.05
	7	Exposed Tidal Flats	276.02	0.43

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	1,385.50	0.86	4%
	9A	Sheltered Tidal Flats	2,081.10	1.29	6%
	9B	Vegetated Low Banks	1,448.20	0.90	4%
	8B	Sheltered, Solid Man-Made Structures	391.49	0.24	1%
	7	Exposed Tidal Flats	7,605.01	4.73	20%
	6A	Gravel Beaches	12,783.71	7.94	34%
	6B	Riprap	4,335.75	2.69	11%
	5	Mixed Sand and Gravel Beaches	5,426.09	3.37	14%
	4	Coarse Grained Sand Beaches	237.10	0.15	1%
	3A	Fine to Medium Grained Sand Beaches	460.14	0.29	1%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	1,285.90	0.80	3%
	1B	Exposed, Solid Man-Made Structures	315.30	0.20	1%
Total ESI Shoreline:			37,755.31	Total ESI Shoreline:	23.46
Total Shoreline:			25,850.95	Total Shoreline:	16.06

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

