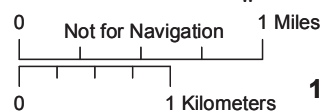


Map 21C
NY/ NJ Metropolitan Area



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



1:50,000



Map 21C
New York and New Jersey Metropolitan Area

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	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
107	Raptor	Northern harrier	Nesting	T/E	-														Apr-Aug	-	-	-
	Raptor	Short-eared owl	Nesting	E/E	-														Apr-Jul	-	-	-
129	Raptor	Endangered raptor 1	Nesting	E/E	1 Pair														Mar-Jul	-	-	-
185	Gull/Tern	Black skimmer	Migration	C/E	10S														-	May	Aug-Oct	-
	Shorebird	American oystercatcher	Migration	-/C	1S														-	-	Aug-Sep	-
192	Waterfowl	American black duck	Wintering		1000S														-	-	-	-
	Waterfowl	Brant	Wintering		1000S														-	-	-	-
	Waterfowl	Bufflehead	Wintering		1000S														-	-	-	-
	Waterfowl	Canada goose	Wintering		1000S														-	-	-	-
	Waterfowl	Long-tailed duck	Wintering		100S														-	-	-	-
	Waterfowl	Ruddy duck	Wintering		1000S														-	-	-	-
	Waterfowl	Scaup	Wintering		1000S														-	-	-	-
	Waterfowl	Snow goose	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
291	Wading	BC night-heron	Concentration Area	-/T	3														-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C	4														-	-	-	-
	Wading	Great egret	Concentration Area		13														-	-	-	-
	Wading	Green heron	Concentration Area		2														-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C	3														-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C	11														-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T	4														-	-	-	-
	Waterfowl	American black duck	Wintering		1000S														-	-	-	-
	Waterfowl	Brant	Wintering		1000S														-	-	-	-
	Waterfowl	Bufflehead	Wintering		1000S														-	-	-	-
292	Waterfowl	Canada goose	Wintering		1000S														-	-	-	-
	Waterfowl	Long-tailed duck	Wintering		100S														-	-	-	-
	Waterfowl	Ruddy duck	Wintering		1000S														-	-	-	-
	Waterfowl	Scaup	Wintering		1000S														-	-	-	-
	Waterfowl	Snow goose	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
	Waterfowl	Waterfowl	Wintering		1000S														-	-	-	-
293	Diving	D. crested cormorant	Wintering		High														-	-	-	-
	Diving	Great cormorant	Wintering		High														-	-	-	-
	Diving	Horned grebe	Migration		High														-	-	Oct-Nov	-
	Diving	Red-throated loon	Migration		High														-	-	Oct-Nov	-
	Waterfowl	Waterfowl	Wintering		High														-	-	-	-
293	Gull/Tern	Common tern	Nesting	T/C	100-500 Pairs														May-Sep	-	-	-
	Gull/Tern	G. black-backed gull	Nesting		1-10 Pairs														Apr-Jul	-	-	-

BIRDS (continued)

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
294	Gull/Tern	Herring gull	Nesting			1-10 Pairs													Apr-Sep	-	-	-
	Gull/Tern	Black skimmer	Migration	C/E		10S													-	May	Aug-Oct	-

FISH

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
415	Diadromous	Atlantic sturgeon	General Distribution	-/E	E	Rare													-	-	-	Jan-Dec	Jan-Dec
505	Freshwater	Bluegill	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Chain pickerel	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Common carp	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Largemouth bass	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Pumpkinseed	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Yellow perch	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec

HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
520	Plant	Endangered plant	Vulnerable Occurrence	E/E		-													-	-	-	-

REPTILES & AMPHIBIANS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
560	Turtle	Green sea turtle	General Distribution	T/T	T	-													-	-	-	May-Nov	May-Nov
	Turtle	K. ridley sea turtle	General Distribution	E/E	E	-													-	-	-	May-Nov	-
	Turtle	Leatherback sea turtle	General Distribution	E/E	E	-													-	-	-	May-Nov	May-Nov
	Turtle	Loggerhead sea turtle	General Distribution	T/E	T	-													-	-	-	May-Nov	May-Nov
578	Turtle	N. diamondback terrapin	Nesting			50-100													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
606	Turtle	Green sea turtle	General Distribution	T/T	T	-													-	-	-	May-Nov	May-Nov
	Turtle	K. ridley sea turtle	General Distribution	E/E	E	-													-	-	-	May-Nov	-
	Turtle	Loggerhead sea turtle	General Distribution	T/E	T	-													-	-	-	May-Nov	May-Nov

MARINE MAMMALS




Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Mating	Calving	Pupping	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
687	Whale	Humpback whale	General Distribution	E/E	E	Common													-	-	-	-

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					
	Waterfowl	Black scoter													-	-	-	-	-




FISH

	Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous	Alewife													-	-	Jun-Jul	Apr-Nov	Mar-Jun
		Alewife													-	-	-	Apr-Nov	Mar-Jun
		Alewife													-	-	-	Jan-Dec	Feb-Jun
		American eel													-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American shad													-	-	-	Jan-Dec	Apr-Aug
		American shad													-	-	-	Apr-Jun	Apr-May
		Blueback herring													-	-	-	May-Nov	Mar-Jul
		Blueback herring													-	-	May-Jun	May-Nov	Mar-Jul
		Striped bass													-	-	-	Jan-Dec	Jan-Dec
		Striped bass													-	-	-	Apr-Nov	Mar-Nov
	Estuarine Nursery	Atlantic croaker													-	-	Sep-Nov	Jul-Nov	Jul-Nov
		Atlantic herring													-	-	Apr-May	Jan-May	Jan-May
		Atlantic herring													-	-	-	Nov-Apr	Nov-Apr
		Atlantic menhaden													-	-	Apr-Jul	Apr-Nov	May-Nov
		Atlantic menhaden													-	-	-	Apr-Nov	Mar-Nov
		Atlantic menhaden													May-Oct*	May-Oct*	May-Oct*	Apr-Nov	Apr-Nov
		Bay anchovy													May-Aug	May-Aug	Jun-Sep	Jul-Mar	Jan-Dec
		Bay anchovy													May-Jul	May-Jul	May-Dec	Jan-Dec	Jan-Dec
		Bay anchovy													May-Aug	May-Aug	May-Aug	Jul-Dec	May-Nov
		Black drum													-	-	-	Jul-Nov	Jul-Nov
		Black sea bass													-	-	-	Apr-Nov	Apr-Nov
		Bluefish													-	-	-	May-Oct	Apr-Dec
		Bluefish													-	-	-	May-Oct	May-Oct
		Northern kingfish													-	-	-	May-Nov	May-Nov
		Northern kingfish													-	-	-	Apr-Nov	Apr-Nov
		Northern kingfish													-	-	-	Jun-Oct	Jun-Oct
		Northern puffer													May-Aug	Jun-Oct	Jun-Oct	May-Oct	May-Oct
		Scup													Jul	Jul	Jul	Jun-Oct	Jun-Oct
		Scup													-	-	-	Jun-Oct	Jun-Oct
		Spot													-	-	-	May-Dec	May-Nov
		Spot													-	-	-	Jun-Nov	Jun-Nov
		Summer flounder													-	-	-	Apr-Oct	Apr-Oct
		Summer flounder													-	-	-	May-Oct	May-Oct
		Weakfish													Jun-Aug	Jun-Aug	Jun-Aug	Jun-Nov	May-Dec
		Weakfish													May-Sep	May-Sep	May-Sep	May-Dec	May-Dec
		White perch													-	-	-	Jan-Dec	Jan-Dec
		White perch													May-Jun	May-Jun	May-Jun	Jan-Dec	Jan-Dec

FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Windowpane													Apr-Oct*	Apr-Oct*	Apr-Nov	Jan-Dec	Jan-Dec
	Windowpane													Apr-Jul	Apr-Jul	Apr-Oct	Jan-Dec	Jan-Dec
	Windowpane													-	-	Apr-Nov	Jan-Dec	Jan-Dec
	Winter flounder													Nov-Apr	Nov-Apr	Nov-Jun	Jan-Dec	Jan-Dec
	Winter flounder													Nov-Apr	Nov-Apr	Nov-May	Jan-Dec	Oct-Jun
	Estuarine Resident													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Killifish													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Killifish													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Northern pipefish													May-Jul	-	May-Aug	Apr-Dec	Apr-Dec
	Northern pipefish													May-Aug	-	May-Oct	Jan-Dec	Jan-Dec
	Silversides													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Marine Benthic													-	-	Nov-Apr	Nov-Apr	Nov-Apr
	American sand lance													Nov-Apr	Nov-Apr	Nov-Apr	Nov-Apr	Nov-Apr
	American sand lance													Nov-Apr	Nov-Apr	Nov-May	Nov-Apr	Nov-Apr
	American sand lance													-	-	-	Nov-Apr	-
	Atlantic cod													Dec-Feb	Dec-Mar	Jan-Aug	Jan-Dec	Jan-Dec
	Atlantic tomcod													-	-	-	Jan-Dec	Jan-Dec
	Atlantic tomcod													-	-	-	Mar-Jun	-
	Pollock													-	-	-	Nov-May	Nov-May
	Red hake													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Smooth dogfish													May	May	May	Jan-Dec	Apr-Nov
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Mar-Dec
	Tautog													-	Jun	Jun	Apr-Dec	Apr-Nov
	Marine Pelagic													-	-	-	Apr-Nov*	Apr-Nov*
	Atlantic mackerel													-	-	-	Apr-Nov	Apr-Nov
	Butterfish													-	-	-	Jun-Oct	Jun-Oct
	Sandbar shark													-	-	-	Jun-Oct	Jun-Oct

INVERTEBRATES

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Bivalve													Apr-Nov	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec
	Blue mussel													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Northern quahog													May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
	Softshell clam													May-Oct	Jun-Oct	Jun-Oct	Jan-Dec	Jan-Dec
	Crab													-	-	-	Jan-Dec	Jan-Dec
	Blue crab													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
	Lobster													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	American lobster													-	-	-	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													-	-	-	-
	Harbor porpoise													-	-	-	-


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	0.13	0.00
	10B	Freshwater Marshes	3.28	0.01
	10C	Swamps	1.11	0.00
	9A	Sheltered Tidal Flats	38.78	0.06
	7	Exposed Tidal Flats	0.25	0.00

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>
	9A	Sheltered Tidal Flats	708.38	0.44	1%
	9B	Vegetated Low Banks	7,428.18	4.62	15%
	8B	Sheltered, Solid Man-Made Structures	23,279.41	14.47	46%
	8C	Sheltered Riprap	1,859.33	1.16	4%
	7	Exposed Tidal Flats	1,069.38	0.66	2%
	6B	Riprap	5,063.31	3.15	10%
	5	Mixed Sand and Gravel Beaches	598.15	0.37	1%
	4	Coarse Grained Sand Beaches	80.82	0.05	< 1%
	3A	Fine to Medium Grained Sand Beaches	1,201.95	0.75	2%
	1B	Exposed, Solid Man-Made Structures	9,658.57	6.00	19%

Total ESI Shoreline:	50,947.47	Total ESI Shoreline:	31.66
Total Shoreline:	43,909.22	Total Shoreline:	27.28

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

