

Table 1. Species included in the Northeast Fisheries Climate Vulnerability Assessment. Assigned functional group, common name, and scientific name of the 82 fish and invertebrate species included in the Northeast Fisheries Climate Vulnerability Assessment.

Group	Common Name	Scientific Name
Coastal Fish	Atlantic Croaker	Micropogonias undulates
Coastal Fish	Atlantic Menhaden	Brevoortia tyrannus
Coastal Fish	Black Sea Bass	Centropristis striata
Coastal Fish	Northern Kingfish	Menticirrhus saxatilis
Coastal Fish	Red Drum	Sciaenops ocellatus
Coastal Fish	Scup	Stenotomus chrysops
Coastal Fish	Spanish Mackerel	Scomberomorus maculatus
Coastal Fish	Spot	Leiostomus xanthurus
Coastal Fish	Spotted Seatrout	Cynoscion nebulosus
Coastal Fish	Striped Bass	Morone saxatilis
Coastal Fish	Summer Flounder	Paralichthys dentatus
oastal Fish	Tautog	Tautoga onitis
Coastal Fish	Weakfish	Cynoscion regalis
Coastal Fish	Winter Flounder	Pseudopleuronectes americanus
Diadromous Fish	Alewife	Alosa pseudoharengus
liadromous Fish	Conger Eel	Anguilla oceanica
liadromous Fish	American Eel	Anguilla rostrata
liadromous Fish	American Shad	Alosa sapidissima
iadromous Fish	Atlantic Salmon	Salmo salar
iadromous Fish	Atlantic Sturgeon	Acipenser oxyrhynchus
iadromous Fish	Blueback Herring	Alosa aestivalis
iadromous Fish	Hickory Shad	Alosa mediocris
iadromous Fish	Rainbow Smelt	Osmerus mordax
iadromous Fish	Shortnose Sturgeon	Acipenser brevirostrum
lasmobranchs	Barndoor Skate	Dipturus laevis
lasmobranchs	Clearnose Skate	Raja eglanteria
lasmobranchs	Dusky Shark	Carcharhinus obscurus
lasmobranchs	Little Skate	Leucoraja erinacea
lasmobranchs	Porbeagle	Lamna nasus
lasmobranchs	Rosette Skate	Leucoraja garmani
lasmobranchs	Sand Tiger	Carcharias taurus
lasmobranchs	Smooth Dogfish	Mustelus canis
lasmobranchs	Smooth Skate	Malacoraja senta
lasmobranchs	Spiny Dogfish	Squalus acanthias
lasmobranchs	Thorny Skate	Amblyraja radiata
lasmobranchs	Winter Skate	Leucoraja ocellata
roundfish	Acadian Redfish	Sebastes fasciatus
iroundfish	American Plaice	Hippoglossoides platessoides
iroundfish	Atlantic Cod	Gadus morhua
roundfish	Atlantic Hagfish	Myxine glutinosa
roundfish	Atlantic Halibut	Hippoglossus hippoglossus
iroundfish	Atlantic Wolffish	Anarhichas Iupus
iroundfish	Cusk	Brosme brosme
Groundfish	Haddock	Melanogrammus aeglefinus
Groundfish	Monkfish (Goosefish)	Lophius americanus
Groundfish	Ocean Pout	Zoarces americanus

(Continued)



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Group	Common Name	Scientific Name
Groundfish	Offshore Hake	Merluccius albidus
Groundfish	Pollock	Pollachius virens
Groundfish	Red Hake	Urophycis chuss
Groundfish	Silver Hake	Merluccius bilinearis
Groundfish	Tilefish	Lopholatilus chamaeleonticeps
Groundfish	White Hake	Urophycis tenuis
Groundfish	Windowpane	Scophthalmus aquosus
Groundfish	Witch Flounder	Glyptocephalus cynoglossus
Groundfish	Yellowtail Flounder	Limanda ferruginea
Pelagic Fish and Cephalopods	Anchovies	Anchoa hepsetus / Anchoa mitchilli
Pelagic Fish and Cephalopods	Atlantic Herring	Clupea harengus
Pelagic Fish and Cephalopods	Atlantic Mackerel	Scomber scombrus
Pelagic Fish and Cephalopods	Atlantic Saury	Scomberesox saurus
Pelagic Fish and Cephalopods	Bluefish	Pomatomus saltatrix
Pelagic Fish and Cephalopods	Butterfish	Peprilus triacanthus
Pelagic Fish and Cephalopods	Longfin Inshore Squid	Doryteuthis pealeii
Pelagic Fish and Cephalopods	Sand Lances	Ammodytes americanus & Ammodytes dubius
Pelagic Fish and Cephalopods	Northern Shortfin Squid	Illex illecebrosus
Benthic Invertebrates	American Lobster	Homarus americanus
Benthic Invertebrates	Atlantic Sea Scallop	Placopecten magellanicus
Benthic Invertebrates	Atlantic Surfclam	Spisula solidissima
Benthic Invertebrates	Bay Scallop	Argopecten irradians
Benthic Invertebrates	Bloodworm	Glycera dibranchiata
Benthic Invertebrates	Blue Crab	Callinectes sapidus
Benthic Invertebrates	Blue Mussel	Mytilus edulis
Benthic Invertebrates	Cancer Crabs	Cancer borealis / Cancer irroratus
Benthic Invertebrates	Channeled Whelk	Busycotypus canaliculatus
Benthic Invertebrates	Deep-sea Red Crab	Chaceon quinquedens
Benthic Invertebrates	Eastern Oyster	Crassostrea virginica
Benthic Invertebrates	Green Sea Urchin	Strongylocentrotus droebachiensis
Benthic Invertebrates	Horseshoe Crab	Limulus polyphemus
Benthic Invertebrates	Knobbed Whelk	Busycon carica
Benthic Invertebrates	Northern Shrimp	Pandalus borealis
Benthic Invertebrates	Ocean Quahog	Arctica islandica
Benthic Invertebrates	Northern Quahog	Mercenaria mercenaria
Benthic Invertebrates	Softshell Clam	Mya arenaria

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Ocean currents were also used as a factor since most marine organisms have planktonic early life stages that rely on advection for transport to habitats necessary for the continuation of the life cycle [58]. Small-scale changes in currents cannot be assessed from the current global climate models, but changes in large scale changes can be considered. Sea-level rise threatens a variety of coastal habitats including marshes, seagrass beds, and beaches [59, 60]. This threat is exacerbated by the large degree of coastal development in the Northeast U.S. Shelf [61] and the large reliance of fish and invertebrate species on coastal habitats during portions of their life history [46].

Sensitivity Attributes. Sensitivity attributes represent biological traits that are indicative of an ability or inability of a species to respond to environmental change. All 12 attributes