

SGCN and Stressors Associated with Habitats

Macrogroup: Intertidal Water Column

Habitat Systems within Macrogroup:

MacrogroupName Intertidal Water Column

Confined Channel

Embayment

Exposed Shore

Water Column Macrogroup - Unknown Habitat System (i.e. Macrogroup)

Description: The Water Column above intertidal areas. This macrogroup is distinct from the subtidal group because it describes the volume of water that varies in depth relative to shore with the tidal cycle. Adopted from CMECS Tidal Zone systems. Confined Channel is similar to CMECS Riverine Tidal Zone; Embayment is similar to Estuarine Tidal Zone, and Exposed Shore is similar to Marine Nearshore Intertidal.

SGCN Associated With This Habitat

Total SGCN: 1: 8 2: 4 3: 10

Class	<i>Actinopterygii</i> (Ray-finned Fishes)	SGCN Category
Species	<i>Alosa pseudoharengus</i> (Alewife)	2
Species	<i>Anguilla rostrata</i> (American Eel)	2
Species	<i>Ammodytes americanus</i> (American Sand Lance)	3
Species	<i>Alosa sapidissima</i> (American Shad)	1
Species	<i>Salmo salar</i> (Atlantic Salmon)	1
Species	<i>Acipenser oxyrinchus</i> (Atlantic Sturgeon)	1
Species	<i>Alosa aestivalis</i> (Blueback Herring)	1
Species	<i>Salvelinus fontinalis</i> (Brook Trout)	3
Species	<i>Osmerus mordax</i> (Rainbow Smelt)	1
Species	<i>Esox americanus americanus</i> (Redfin Pickerel)	2
Species	<i>Acipenser brevirostrum</i> (Shortnose Sturgeon)	1
Species	<i>Morone saxatilis</i> (Striped Bass)	2
Class	<i>Aves</i> (Birds)	SGCN Category
Species	<i>Bucephala islandica</i> (Barrow's Goldeneye)	1
Species	<i>Gavia immer</i> (Common Loon)	3
Species	<i>Podiceps auritus</i> (Horned Grebe)	3
Species	<i>Sternula antillarum</i> (Least Tern)	1
Species	<i>Gavia stellata</i> (Red-throated Loon)	3
Class	<i>Bivalvia</i> (Marine And Freshwater Molluscs)	SGCN Category
Species	<i>Crassostrea virginica</i> (Eastern Oyster)	3
Species	<i>Mya truncata</i> (Gaper Clam)	3
Species	<i>Mercenaria mercenaria</i> (Hard-shelled Clam)	3
Species	<i>Mya arenaria</i> (Softshell Clam)	3
Class	<i>Chondrichthyes</i> (Sharks, Rays, And Skates)	SGCN Category
Species	<i>Sphyrna zygaena</i> (Smooth Hammerhead)	3

Endangered (E) and Threatened (T) Plant Species Associated With This Habitat: None assigned

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Stressors Associated With This Macrogroup

IUCN Level 2 Threat Name: Agricultural and Forestry Effluents

Notes: Though this threat can be reduced with the implementation of best management practices, in coastal watersheds, runoff can lead to non-point source pollution of nutrients, fertilizer, sediments, pesticides, vehicle contaminants, etc., which can lead to poor

IUCN Level 2 Threat Name: Domestic and Urban Waste Water

Notes: Though this threat can be reduced with the implementation of best management practices, in coastal watersheds, runoff can lead to non-point source pollution of nutrients, fertilizer, sediments, pesticides, vehicle contaminants, etc., which can lead to poor

IUCN Level 2 Threat Name: Fishing and Harvesting of Aquatic Resources

Notes: Some methods of fishing are not species specific and result in mortality of bycatch and disruptions in natural communities

IUCN Level 2 Threat Name: Habitat Shifting or Alteration

Notes: Changes in ocean chemistry due to climate change e.g. ocean acidification

IUCN Level 2 Threat Name: Industrial and Military Effluents

Notes: Though this threat can be reduced with the implementation of best management practices, runoff, oil spills, water uptake and discharge, and other industrial activities can lead to poor water quality, and reduced fitness and/or mortality, especially during

IUCN Level 2 Threat Name: Invasive Non-native-Alien Species-Diseases

Notes: Invasive species populations can disrupt natural community and lead to ecosystem changes

IUCN Level 2 Threat Name: Marine and Freshwater Aquaculture

Notes: Most effects from finfish aquaculture have been successfully mitigated through the establishment of industry standards that have resulted in drastically reduced algal growth and improved water quality. Activities that use similar species (propagated

IUCN Level 2 Threat Name: Recreational Activities

Notes: boating can result in fish and marine mammal mortality

IUCN Level 2 Threat Name: Renewable Energy

Notes: Proposed tidal barrages and other hydropower or tidal power structures can block marine organism movements, result in mortality, decrease natural sediment flow, change local water flow patterns, and decrease larval dispersal

IUCN Level 2 Threat Name: Shipping Lanes

Notes: Shipping and boating can result in fish and marine mammal mortality

IUCN Level 2 Threat Name: Storms and Flooding

Notes: Increased run-off could contribute to poor water quality, harmful algal blooms, etc.

IUCN Level 2 Threat Name: Temperature Extremes

Notes: Sea surface temperature increases may change the community structure, lead to physiological changes in biological forms, exacerbate disease, etc.

Habitat Conservation Actions:

Relevant conservation actions for this habitat are assigned within broader habitat groupings in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

Species Conservation Actions:

Conservation actions that may benefit species associated with this habitat can be found in Maine's 2015 Wildlife Action Plan: Element 1, Table 1-3. Click on the species of interest to launch a species based report summarizing relevant conservation actions and associated habitats.

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The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.