

LEGEND: STRAITS OF MACKINAC & ST. CLAIR-DETROIT RIVER SYSTEM

Birds

Birds

Alcid/Pelagic

Diving

Gull/Tern/Bird

Landfowl

Passerine

Raptor

Shorebird

Wading

Waterfowl

Fish

Fish

Fish

Fish/Freshwater/Diadromous

Invertebrates

Invertebrates

Bivalve

Gastropod

Insect

Reptiles & Amphibians

Amphibian/Reptile/Snake

Turtle

Terrestrial Mammal

Bat

Feline/Small Mammal

Benthic

SAV

Habitats

Plant

Threatened or Endangered Species

1234

Resource At Risk (RAR) or Human Use (HU) Number

Human-Use Features

Abandoned Vessel

Access

Airport

Anchorage

Archaeological Site

Army Corps of Engineers

Artificial Reef

Beach

Boat Ramp

Campground

Coast Guard

Critical Habitat

EPA Facility

Essential Habitat

Ferry

Fishery Area

Heliport

Historical Site

Invasive Species

Lock and Dam

Management Area

Marina

Marine Sanctuary

Military

Mine Site

National Forest

National Park

Nature Conservancy

Park

Pipeline

Port

Recreational Fishing

Renewable Energy

Repeated Measurement Site

State Protected Area

Subsistence Fishing

Tribal Lands

Water Intake

Wildlife Refuge

Management Area

Ferry Route

Pipeline

Rail Route

International Border

US Interstate

US Highway

State Highway or Route

Road

ESI Shoreline and Habitat Ranking

1A) Exposed, Rocky Shores

1B) Exposed, Solid Man-Made Structures

2A) Shelving Bedrock Shores

3B) Eroding Scarps (Unconsolidated Sediment)

4) Sand Beaches

5) Mixed Sand and Gravel Beaches

6A) Gravel Beaches

6B) Riprap

7) Exposed Flats

8A) Sheltered Scarps (Bedrock/Mud/Clay)

8B) Sheltered, Solid Man-Made Structures

8C) Sheltered Riprap

9A) Sheltered Sand and Mud Flats

9B) Vegetated Low Banks

10B) Freshwater Marshes

10C) Swamps

10D) Scrub and Shrub Wetlands

Examples of Double and Triple Shoreline Rankings:

10B & 4

1B & 6A & 7

Shorelines often contain varied geomorphology, and therefore may require two or three ESI types to describe. These symbols will look similar to the examples above. The first shoreline type listed is the most landward shore type.

Guidelines for Interpreting Environmental Sensitivity Index (ESI) Maps

The following guidelines may help map users interpret the ESI maps. Additional information about resources mapped for this atlas can be found in the ESI introductory pages and associated metadata.

*Sensitive Biological Resources (1:50,000 scale maps):* Species are arranged into seven major categories or "elements" and further subdivided into "subelement" groupings representing species that share similar lifestyle characteristics and risks to oiling.

Biological resources may be mapped as points, lines, and polygons. Each element is represented by a unique color and/or hatch pattern. Icons illustrate the subelement(s) found within each feature. If a species is state or federally listed as threatened, endangered, or of special concern, a red square is placed around the icon. When multiple elements occur in the same location, overlapping hatch patterns will be shown.

The Resources at Risk (RAR) number associated with each feature "links" to the map report where the species and attributes are listed. To maximize readability, Present Throughout (PTO) boxes are used to identify geographic locations for species not displayed on the map. Species found in the PTO box are listed on the report by their RAR number.

*Shoreline Habitat Resources (all maps):* The shoreline was mapped at mean-high water, then classified based on vulnerability to spilled oil and ease of clean-up. Shorelines are ranked on a scale from 1 (least sensitive) to 10 (most sensitive). Cooler colors represent less sensitive shoreline types; warm and hot colors indicate increased sensitivity. A shoreline may have more than one habitat type present. When this occurs, the most landward shoreline type is mapped on the shoreline, and the more seaward type(s) are mapped adjacent to the water. The aerial extent of wetland habitats may also be mapped as polygons.

*Human-Use Features (1:100,000 scale maps):* Locations of human-use features and jurisdictional boundaries are mapped as points, lines, or polygons. The Human Use (HU) number associated with each feature "links" to the map report where the name and attributes are listed. Additional features, particularly jurisdictional and other features or boundaries, that cover the majority or entirety of the mapped area, are listed in a Present Throughout (PTO) box and not displayed on the map.

