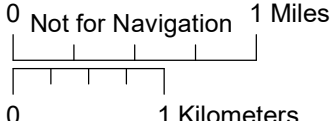


Map 4C
Straits of Mackinac



SEE BACK OF MAP
for details about mapped species and
other species that occur in mapped area.
Data Published: October 2019



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Straits of Mackinac: Map 4C

BIOLOGICAL RESOURCES:

BENTHIC:

| RAR# | Species | S | F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | | | | |
|------|------------------------------|---|---|---------------|----------------------|----------------------------|--|---|---|---|---|---|---|---|--|--|--|
| 247 | Submerged aquatic vegetation | | | - | General Distribution | | | M | A | M | J | J | A | S | | | |
| 249 | Submerged aquatic vegetation | | | - | General Distribution | | | M | A | M | J | J | A | S | | | |

BIRD:

| RAR# | Species | S | F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | | | | | Nesting | Migrating | | Molting |
|------|---------------------------|---|---|--------------------|-----------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---------|---------|-----------|---------|---------|
| 13 | Common loon | | T | - | Concentration Area | | | A | M | | | S | O | N | D | - | Apr-May | Sep-Dec | - | | |
| 32 | Herring gull | | | 99 Nests | Nesting | J | F | M | A | M | J | J | A | S | O | N | D | Apr-Jul | - | - | - |
| 33 | Herring gull | | | 33 Nests | Nesting | J | F | M | A | M | J | J | A | S | O | N | D | Apr-Jul | - | - | - |
| 34 | Herring gull | | | 409 Nests | Nesting | J | F | M | A | M | J | J | A | S | O | N | D | Apr-Jul | - | - | - |
| 35 | Herring gull | | | 1 Nest | Nesting | J | F | M | A | M | J | J | A | S | O | N | D | Apr-Jul | - | - | - |
| | Ring-billed gull | | | 4 Nests | Nesting | | | A | M | J | J | A | S | O | | | Apr-Aug | - | - | - | |
| 47 | Black-crowned night-heron | | C | 5 Nests | Nesting | | | A | M | J | J | A | S | O | | | May-Aug | - | - | - | |
| | Double-crested cormorant | | | 617 Nests | Nesting | | | A | M | J | J | A | S | | | | May-Aug | - | - | - | |
| | Herring gull | | | 84-454 Nests | Nesting | J | F | M | A | M | J | J | A | S | O | N | D | Apr-Jul | - | - | - |
| | Ring-billed gull | | | 6,308-10,713 Nests | Nesting | | | A | M | J | J | A | S | O | | | Apr-Aug | - | - | - | |
| 85 | Black tern | | C | - | Vulnerable Occurrence | | | A | M | J | J | A | S | O | | | May-Aug | - | - | - | |
| 93 | Common loon | | T | - | Nesting | | | A | M | J | J | A | S | | | | Apr-Sep | - | - | - | |
| 94 | Common tern | | T | - | Vulnerable Occurrence | | | A | M | J | J | A | S | | | | May-Sep | - | - | - | |
| 103 | American bittern | | C | - | Vulnerable Occurrence | | | M | A | M | J | J | A | S | O | N | | Apr-Jul | - | - | - |
| 114 | Marsh wren | | C | - | Vulnerable Occurrence | | | A | M | J | J | A | S | O | | | May-Jul | - | - | - | |
| 122 | Peregrine falcon | | E | - | Vulnerable Occurrence | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Aug | - | - | - |
| 132 | Common loon | | T | - | Vulnerable Occurrence | | | A | M | J | J | A | S | | | | Apr-Sep | - | - | - | |
| | Waterfowl | | | 1000S | Concentration Area | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| 230 | American coot | | | - | General Distribution | | | M | A | M | J | J | A | S | O | N | | - | - | - | - |
| | Black scoter | | | - | General Distribution | | | A | M | | | | | O | N | | - | Apr-May | Oct-Nov | - | |
| | Bufflehead | | | Common | General Distribution | J | F | M | A | M | | | | | O | N | D | - | Oct-May | - | - |
| | Canvasback | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Common goldeneye | | | Common | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Greater scaup | | | - | General Distribution | J | F | M | A | | | | | O | N | D | - | - | - | - | |
| | Gulls | | | Common | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | Jan-Dec | - | - |
| | Lesser scaup | | | - | General Distribution | J | F | M | A | | | | | O | N | D | - | - | - | - | |
| | Long-tailed duck | | | Abundant | General Distribution | J | F | M | A | M | | | | O | N | D | - | Oct-Apr | - | - | |
| | Loons | | | - | General Distribution | | | M | A | M | J | J | A | S | O | | - | - | - | - | |
| | Raptors | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Redhead | | | Abundant | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Ring-necked duck | | | - | General Distribution | | | M | A | M | J | J | A | S | O | | - | - | - | - | |
| | White-winged scoter | | | Common | General Distribution | J | F | M | A | M | | | | O | N | D | - | Oct-May | - | - | |
| 231 | American black duck | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Bufflehead | | | Common | General Distribution | J | F | M | A | M | | | | O | N | D | - | Oct-May | - | - | |
| | Canada goose | | | - | General Distribution | | | M | A | M | J | J | A | S | | | - | - | - | - | |
| | Canvasback | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Common goldeneye | | | Common | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Double-crested cormorant | | | - | General Distribution | | | M | A | M | J | J | A | S | O | N | | - | Mar-May | Jul-Nov | - |
| | Greater scaup | | | - | General Distribution | J | F | M | A | | | | | O | N | D | - | - | - | - | |
| | Green-winged teal | | | - | General Distribution | | | M | A | M | J | J | A | S | O | N | - | Mar-May | Sep-Nov | - | |
| | Gulls | | | Common | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | Jan-Dec | - | - |
| | Hérons | | | - | General Distribution | | | M | A | M | J | J | A | S | O | | - | - | - | - | |
| | Lesser scaup | | | - | General Distribution | J | F | M | A | | | | | O | N | D | - | - | - | - | |
| | Long-tailed duck | | | - | General Distribution | J | F | M | A | M | | | | O | N | D | - | Oct-Apr | - | - | |
| | Loons | | | - | General Distribution | | | M | A | M | J | J | A | S | O | | - | - | - | - | |
| | Mallard | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Mergansers | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Redhead | | | Abundant | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Ring-necked duck | | | - | General Distribution | | | M | A | M | J | J | A | S | O | | - | - | - | - | |
| | Swans | | | - | General Distribution | | | M | A | | | | | O | N | D | - | - | - | - | |
| | Terns | | | - | General Distribution | | | A | M | J | J | A | S | O | | | - | - | - | - | |
| | Wood duck | | | - | General Distribution | | | M | A | M | J | J | A | S | O | N | - | - | - | - | |
| 241 | Bald eagle | | C | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - |
| | Bufflehead | | | - | Migration | J | F | M | A | M | | | | O | N | D | - | Oct-May | - | - | |
| | Canvasback | | | High | Concentration Area | | | | | | | | S | O | N | | - | Sep-Nov | - | - | |
| | Caspian tern | | T | - | General Distribution | | | A | M | J | J | A | S | | | | - | - | - | - | |
| | Common merganser | | | - | Migration | | | M | A | M | | | | S | O | N | - | Mar-May | Sep-Nov | - | |
| | Common tern | | T | - | General Distribution | | | A | M | J | J | A | S | O | | | - | - | - | - | |
| | Double-crested cormorant | | | - | Migration | | | M | A | M | J | J | A | S | O | N | - | Mar-May | Jul-Nov | - | |
| | Gulls | | | - | Concentration Area | J | F | M | A | M | J | J | A | S | O | N | D | - | Jan-Dec | - | - |
| | Long-tailed duck | | | - | Migration | J | F | M | A | M | | | | O | N | D | - | Oct-Apr | - | - | |
| | Red-breasted merganser | | | - | Migration | | | M | A | M | J | J | A | S | O | N | - | Mar Nov | - | - | |
| | Redhead | | | High | Concentration Area | | | | | | | | | S | O | N | - | Sep-Nov | - | - | |
| | Sandhill crane | | | - | Concentration Area | | | M | A | M | J | J | A | S | O | N | - | - | - | - | |
| | Scaup | | | High | Concentration Area | | | | | | | | | | | | | | | | |

Straits of Mackinac: Map 4C (cont.)

BIOLOGICAL RESOURCES:

| FISH: | | | | | | | | | | | | | | | | | | | | | | |
|-------|-----------------------------|-----|---------------|----------------------|----------------------------|---|---|---|---|---|---|---|----------|------|--------|-----------|---------|---|---------|---------|---------|---------|
| RAR# | Species | S F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | Spawning | Eggs | Larvae | Juveniles | Adults | | | | | |
| 143 | Lake whitefish | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | - | - | - | Jan-Dec |
| 196 | Rainbow smelt | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | - | Apr-Sep | - | Jan-Dec |
| | Smallmouth bass | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | - | Jan-Dec |
| 199 | Alewife | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | May-Jul | - | - | May-Aug | - | Jan-Dec |
| 200 | Alewife | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | May-Jul | - | - | May-Aug | - | Jan-Dec |
| | Cisco | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | - | - | - | Jan-Dec |
| | Lake trout | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Oct-Nov | - | - | - | - | Jan-Dec |
| | Lake whitefish | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | - | - | - | Jan-Dec |
| | Rainbow smelt | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | - | Apr-Sep | - | Jan-Dec |
| | Round whitefish (menomonee) | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Oct-Nov | - | Oct-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| 233 | Alewife | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | May | - | - | - | - | Jan-Dec |
| | Atlantic salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Chinook salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Cisco | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Coho salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Lake sturgeon | T | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Lake trout | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Lake whitefish | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Longnose sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Northern pike | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr | - | - | - | - | Jan-Dec |
| | Rainbow smelt | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | - | Apr-Sep | - | Jan-Dec |
| | Round goby | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Smallmouth bass | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | May-Jun | - | May-Jul | - | - | Jan-Dec |
| | Steelhead | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Walleye | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | - | Jan-Dec | Jan-Dec | Jan-Dec |
| | White sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Yellow perch | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | - | - | - | Jan-Dec |
| 235 | Alewife | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Atlantic salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Bloater | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Burbot | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Chinook salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Cisco | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Coho salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Lake sturgeon | T | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Lake trout | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Lake whitefish | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Longnose sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Northern pike | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Rainbow smelt | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Round whitefish (menomonee) | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Oct-Nov | - | Oct-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Steelhead | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Walleye | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | White sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Yellow perch | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| 237 | Alewife | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Atlantic salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Bloater | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Dec | - | Dec-Apr | - | - | Jan-Dec |
| | Burbot | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Chinook salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Cisco | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Coho salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Deepwater sculpin | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Lake sturgeon | T | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Lake trout | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Lake whitefish | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Rainbow smelt | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Steelhead | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| 253 | Cisco | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | - | - | - | Jan-Dec |
| | Lake trout | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Lake whitefish | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | - | - | - | Jan-Dec |
| | Round whitefish (menomonee) | | - | Spawning Area | J | F | M | A | M | J | J | A | S | O | N | D | Oct-Nov | - | Oct-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| 265 | Atlantic salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Bloater | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Burbot | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Feb | - | - | - | - | Jan-Dec |
| | Chinook salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Cisco | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Coho salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Lake chub | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | - | Jan-Dec |
| | Lake sturgeon | T | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Lake trout | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Oct-Nov | - | Oct-Mar | Feb-Mar | Jan-Dec | Jan-Dec |
| | Lake whitefish | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Longnose sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Northern pike | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | Jan-Dec | Jan-Dec |
| | Rainbow smelt | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Apr-Sep | Jan-Dec |
| | Round whitefish (menomonee) | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Smallmouth bass | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | May-Jul | - | May-Aug | Jul-Aug | - | Jan-Dec |
| | Steelhead | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Sep-Jul | Jan-Dec |
| | Walleye | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | - | Jan-Dec |
| | White sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Yellow perch | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | May-Jul | - | May-Aug | May-Aug | - | Jan-Dec |
| 266 | Bloater | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Burbot | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Chinook salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Cisco | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Coho salmon | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Lake chub | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | - | Jan-Dec |
| | Lake sturgeon | T | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Lake trout | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Oct-Nov | - | Oct-Mar | Feb-Mar | Jan-Dec | Jan-Dec |
| | Lake whitefish | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Longnose sucker | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Northern pike | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Rainbow smelt | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | May-Sep | - | Jan-Dec |
| | Round whitefish (menomonee) | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan |

Straits of Mackinac: Map 4C (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH (cont.):

| RAR# | Species | S | F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | | | | | Spawning | | Eggs | Larvae | Juveniles | Adults |
|------|-----------------------------|---|---|---------------|----------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---|---------|---------|-----------|---------|
| | Longnose sucker | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Rainbow smelt | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Round whitefish (menomonee) | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Steelhead | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | Jan-Dec |
| | Walleye | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | - |
| | White sucker | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | Jan-Dec |
| | Yellow perch | | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | Jan-Dec | - |
| 325 | Cisco | | | High | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Lake sturgeon | T | | - | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Lake whitefish | | | High | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Longnose sucker | | | High | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Round whitefish (menomonee) | | | High | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Nov-Dec | - | Nov-Apr | Mar-Apr | Jan-Dec | Jan-Dec |
| | Smallmouth bass | | | - | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | - | Jan-Dec |
| | Walleye | | | - | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | - | - | Jan-Dec |
| | White sucker | | | High | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Apr-May | - | Apr-Aug | Apr-Aug | Jan-Dec | Jan-Dec |
| | Yellow perch | | | - | Nursery Area | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | - | - | May-Aug | - | Jan-Dec |

HABITAT:

| RAR# | Species | S | F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | | | | |
|------|----------------------------|---|---|---------------|-----------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---|
| 96 | Federally threatened plant | T | T | - | Vulnerable Occurrence | J | F | M | A | M | J | J | A | S | O | N | D |
| 111 | Threatened plant | T | | - | Vulnerable Occurrence | J | F | M | A | M | J | J | A | S | O | N | D |

HERPETOFAUNA:

| RAR# | Species | S | F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | | | | | Nesting | Hatching | Internest | Juveniles | Adults |
|------|------------------------|---|---|---------------|-----------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-----------|-----------|---------|
| 4 | Blanding's turtle | C | | - | Vulnerable Occurrence | J | F | M | A | M | J | J | A | S | O | N | D | May-Jun | Aug-Sep | - | - | - |
| 234 | Mudpuppy | C | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | Mar-Jun | Apr-Jul | - | Jan-Dec | Jan-Dec |
| 236 | Mudpuppy | C | | - | General Distribution | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | Jan-Dec | Jan-Dec |
| 268 | Sensitive herpetofauna | | | - | Vulnerable Occurrence | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - |

INVERTEBRATE:

| RAR# | Species | S | F | Concentration | Mapping Qualifier | Monthly Presence (Jan-Dec) | | | | | | | | | | | | Spawning | | Eggs | Larvae | Juveniles | Adults |
|------|------------------|---|---|---------------|-----------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|---|------|--------|-----------|--------|
| 99 | Threatened snail | T | | - | Vulnerable Occurrence | J | F | M | A | M | J | J | A | S | O | N | D | - | - | - | - | - | - |