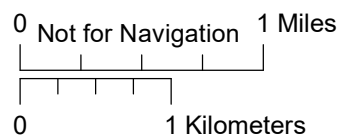


Map 5D
Straits of Mackinac



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 5D

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

BIRD:

RAR#	Species	S F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)	Nesting	Migrating	Molting
1	Common loon	T	-	General Distribution	A M J J A S O	-	Apr-May	Sep-Oct
	Common merganser		-	General Distribution	F M A M J J A S	-	-	-
	Hooded merganser		-	General Distribution	A M J J A S O	-	-	-
	Horned grebe		-	General Distribution	M A M J J A S O N	-	Mar-May	Sep-Nov
	Red-breasted merganser		-	General Distribution	M A M J J A S O N	-	Mar Nov	-
	Red-necked grebe		-	General Distribution	J F M A M J J A S O N D	-	Apr-May	Aug-Oct
	Surf scoter		-	General Distribution	A M J J A S O N	-	Apr-Jun	Oct-Nov
	White-winged scoter		-	General Distribution	J F M A M J J A S O N D	-	Oct-May	-
13	Common loon	T	-	Concentration Area	A M J J A S O N D	-	Apr-May	Sep-Dec
31	Common tern	T	209 Nests	Nesting	A M J J A S	May-Sep	-	-
	Herring gull		12 Nests	Nesting	J F M A M J J A S O N D	Apr-Jul	-	-
73	Bald eagle	C	-	Vulnerable Occurrence	J F M A M J J A S O N D	Feb-Jul	-	-
94	Common tern	T	-	Vulnerable Occurrence	A M J J A S	May-Sep	-	-
230	American coot		-	General Distribution	M A M J J A S O N	-	-	-
	Black scoter		-	General Distribution	A M J J A S O N	-	Apr-May	Oct-Nov
	Bufflehead		Common	General Distribution	J F M A M J J A S 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 M J J A S 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 M J J A S O N D	-	-	-
	Long-tailed duck		Abundant	General Distribution	J F M A M J J A S 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 J J A S 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 J J A S 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 M J J A S 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 M J J A S O N D	-	-	-
	Long-tailed duck		-	General Distribution	J F M A M J J A S 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 M J J A S 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 J J A S O N D	-	Oct-May	-
	Canvasback		High	Concentration Area	M A M J J A S O N	-	Sep-Nov	-
	Caspian tern	T	-	General Distribution	A M J J A S	-	-	-
	Common merganser		-	Migration	M A M J J A 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 J J A S O N D	-	Oct-Apr	-
	Red-breasted merganser		-	Migration	M A M J J A S O N	-	Mar Nov	-
	Redhead		High	Concentration Area	M A M J J A S O N	-	Sep-Nov	-
	Sandhill crane		-	Concentration Area	M A M J J A S O N	-	-	-
	Scaup		High	Concentration Area	M A M J J A S O N	-	-	-
	Sea ducks		High	Concentration Area	J F M A M J J A S O N D	-	-	-
269	Diving ducks		High	Concentration Area	J F M A M J J A S O N D	-	-	-
	Sea ducks		High	Concentration Area	J F M A M J J A S O N D	-	-	-

FISH:

RAR#	Species	S F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)	Spawning	Eggs	Larvae	Juveniles	Adults
180	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
	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
182	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
	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
220	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
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

Straits of Mackinac: Map 5D (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH (cont.):

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)	Spawning	Eggs	Larvae	Juveniles	Adults
	Lake whitefish			-	General Distribution	J F M A M J J A S O N D	Nov-Dec	-	Nov-Apr	Mar-Apr	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
	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
	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

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
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	-	-	-	-	-