



**Map 5A**  
**Straits of Mackinac**



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

0 Not for Navigation 1 Miles  
0 1 Kilometers

**1:50,000**



Straits of Mackinac: Map 5A

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		
46	Black-crowned night-heron	C		9 Nests	Nesting			A	M	J	J	A	S	O			May-Aug	-	-	-			
	Great blue heron				9 Nests	Nesting			M	A	M	J	J	A	S	O		Apr-Jul	-	-	-		
	Herring gull				4-5 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	-	-	-		
85	Black tern	C		-	Vulnerable Occurrence					A	M	J	J	A	S	O		May-Aug	-	-	-		
86	Yellow rail	T		-	Vulnerable Occurrence					A	M	J	J	A	S	O		May-Jul	-	-	-		
128	Red-shouldered hawk	T		-	Vulnerable Occurrence	F	M	A	M	J	J	A	S	O	N		Mar-Jun	-	-	-			
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		-	-	-	-		
244		Common loon	T		High	Concentration Area				A	M	J	J	A	S	O		-	Apr-May	Sep-Oct	-		
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	-	-	-	-	
270	Waterbirds			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-		
335	Redhead			High	Concentration Area										O	N		-	-	-	-		

FISH:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults
141	Yellow perch			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Jun	-	-	May-Aug	-	Jan-Dec
195	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
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

Straits of Mackinac: Map 5A (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH (cont.):

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults
245	Cisco			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	Nov-Dec	-	Nov-Apr	Mar-Apr	Jan-Dec	Jan-Dec
	Northern pike			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	Apr	-	-	-	-	Jan-Dec
	Round whitefish (menomonee)			High	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Oct-Nov	-	Oct-Apr	Mar-Apr	Jan-Dec	Jan-Dec
	Smallmouth bass			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	May-Jun	-	May-Jul	-	-	Jan-Dec
	Yellow perch			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	Apr-May	-	-	-	-	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
						J	F	M	A	M	J	J	A	S	O	N	D						
259	Chinook salmon			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Sep-Jul	Jan-Dec
	Coho salmon			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Sep-Jul	Jan-Dec
	Walleye			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	Apr-May	-	-	Jan-Dec	Jan-Dec	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	-	-	-	-	-