



**Map 7C**  
**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 7C

BIOLOGICAL RESOURCES:

BENTHIC:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)														
247	Submerged aquatic vegetation			-	General Distribution	<table><tr><td></td><td></td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td></td><td></td><td></td><td></td><td></td></tr></table>			M	A	M	J	J	A	S					
		M	A	M	J	J	A	S												

BIRD:

RAR#	Species	S F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)	Nesting	Migrating	Molting
73	Bald eagle	C	-	Vulnerable Occurrence	J F M A M J J A S O N D	Feb-Jul	-	-
103	American bittern	C	-	Vulnerable Occurrence	M A M J J A S O N	Apr-Jul	-	-
119	Northern harrier	C	-	Vulnerable Occurrence	M A M J J A S O N	Apr-Jul	Mar-Apr	Aug-Nov
230	American coot		-	General Distribution	M A M J J A S O N	-	-	-
	Black scoter		-	General Distribution	A M	-	Apr-May	Oct-Nov
	Bufflehead		Common	General Distribution	J F M A M	-	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	-	-	-
	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	-	-	-
	Long-tailed duck		Abundant	General Distribution	J F M A M	-	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	-	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	-	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	-	-	-
	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	-	-	-
	Long-tailed duck		-	General Distribution	J F M A M	-	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	-	-	-
	Terns		-	General Distribution	A M J J A S O	-	-	-
	Wood duck		-	General Distribution	M A M J J A S O N	-	-	-

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		
208	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	
	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	
	Walleye		-	Spawning Area	J F M A M J J A S O N D	Mar-Jun	-	-	-	-	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	

Straits of Mackinac: Map 7C (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH (cont.):

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults
331	Atlantic salmon			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	-	Jan-Dec
	Chinook salmon			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	-	-	-	-	Sep-Jul	Jan-Dec
	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
	Lake sturgeon		T	High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	May-Jun	-	-	-	-	Jan-Dec
	Lake trout			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	Nov	-	Nov-Apr	Mar-Apr	Jan-Dec	Jan-Dec
	Lake whitefish			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
	Smallmouth bass			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	May-Jun	-	May-Jul	-	-	Jan-Dec
	Steelhead			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
	Yellow perch			High	Concentration Area	J	F	M	A	M	J	J	A	S	O	N	D	Apr-May	-	-	-	-	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

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	-	-	-	-	-