



Straits of Mackinac: Map 7D

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	
22	Double-crested cormorant			220 Nests	Nesting			A	M	J	J	A	S				May-Aug	-	-	-		
	Herring gull			183 Nests	Nesting	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Jul	-	-	-	
36	Herring gull			81 Nests	Nesting	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Jul	-	-	-	
50	Common tern		T	81 Nests	Nesting			A	M	J	J	A	S				May-Sep	-	-	-		
	Herring gull			1 Nest	Nesting	J	F	M	A	M	J	J	A	S	O	N	D	Apr-Jul	-	-	-	
58	Black-crowned night-heron		C	5 Nests	Nesting			A	M	J	J	A	S	O			May-Aug	-	-	-		
	Common tern		T	Medium-High	Nesting			A	M	J	J	A	S				May-Sep	-	-	-		
	Great blue heron			34 Nests	Nesting			M	A	M	J	J	A	S	O		Apr-Jul	-	-	-		
	Herring gull			1 Nest	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	-	-	-	
78	Black-crowned night-heron		C	-	Vulnerable Occurrence			A	M	J	J	A	S	O			May-Aug	-	-	-		
92	Common loon		T	-	Vulnerable Occurrence			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	-	-	-		
115	Merlin		T	-	Vulnerable Occurrence			A	M	J	J	A	S	O			May-Jul	Apr-May	Aug-Oct	-		
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	-	-	
	Herons			-	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		-	-	-	-	-
332	Piping plover		E E	-	Nesting			A	M	J	J	A	S				Apr-Sep	-	-	-	-	
	Red knot		T	-	Migration				M	J		A	S				-	May-Jun	Aug-Sep	-	-	

FISH:

RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning		Eggs	Larvae	Juveniles	Adults	
206	Alewife			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	May-Jul	-	-	May-Aug	-	Jan-Dec	
	Bloater			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Oct-Feb	-	-	-	-	Jan-Dec	
	Burbot			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Dec-Feb	-	-	May-Jul	-	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	
	Yellow perch			-	Spawning Area	J	F	M	A	M	J	J	A	S	O	N	D	Mar-Jun	-	-	May-Aug	-	Jan-Dec	
207	Cisco			-	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	
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	

Straits of Mackinac: Map 7D (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH (cont.):																							
RAR#	Species	S	F	Concentration	Mapping Qualifier	Monthly Presence (Jan-Dec)												Spawning	Eggs	Larvae	Juveniles	Adults	
	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

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	
107	Endangered plant	E		-	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	-	-	-	-	-

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