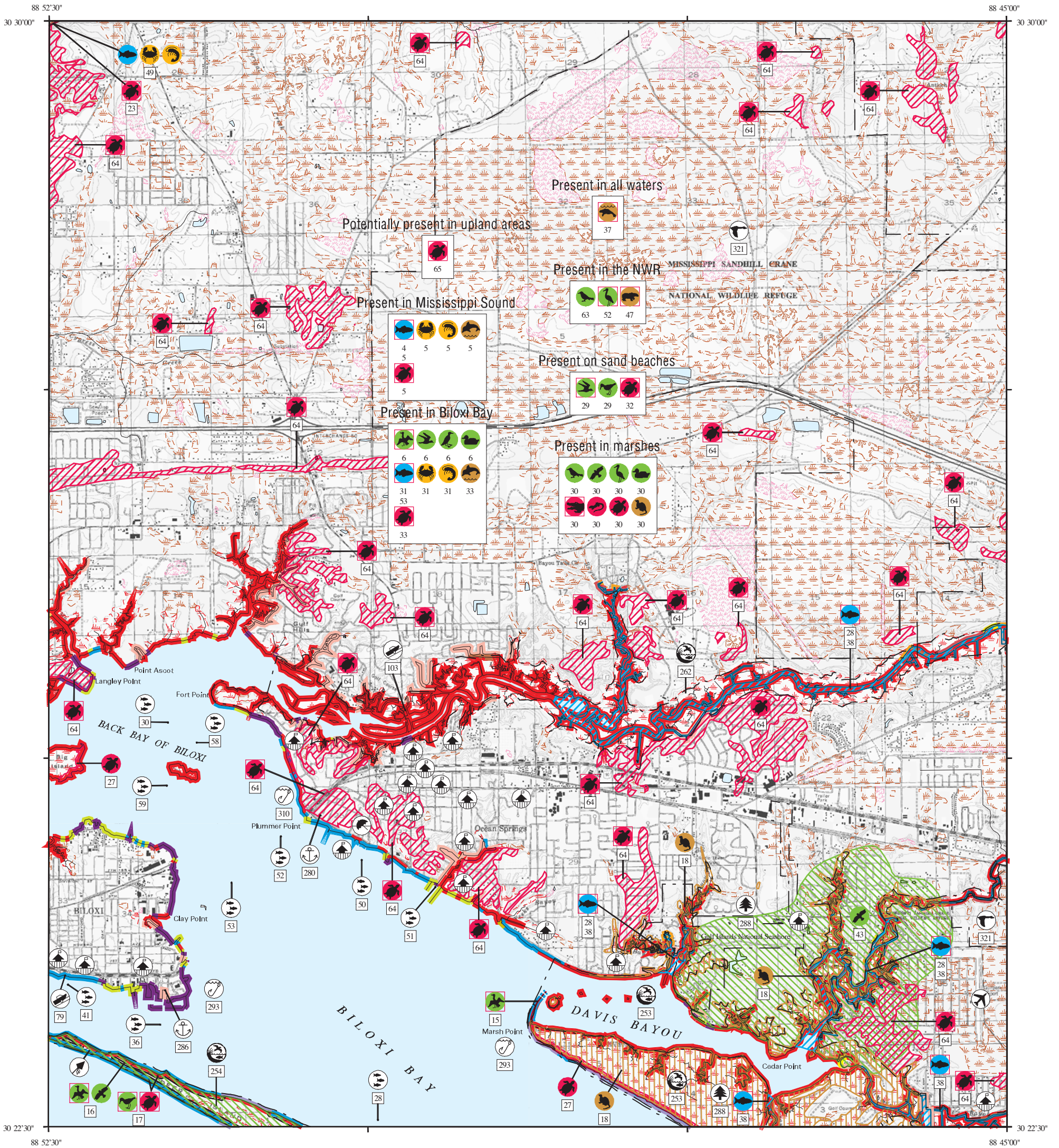


# ENVIRONMENTAL SENSITIVITY INDEX MAP

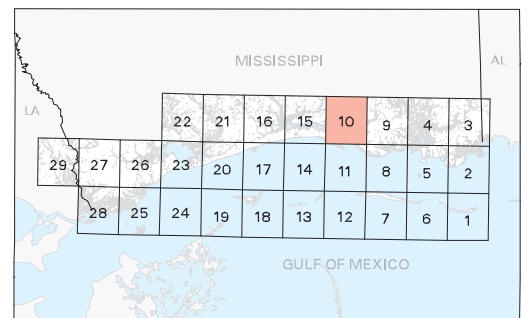
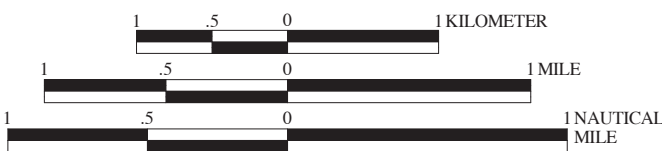


## SHORELINE HABITATS (ESI)

- 1B EXPOSED, SOLID MAN- MADE STRUCTURES
- 2A EXPOSED WAVE- CUT PLATFORMS IN MUD OR CLAY
- 2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
- 3A FINE- TO MEDIUM- GRAINED SAND BEACHES
- 3B SCARPS AND STEEP SLOPES IN SAND
- 5 MIXED SAND AND GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED SCARPS IN MUD OR CLAY
- 8B SHELTERED, SOLID MAN- MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED, VEGETATED LOW BANKS
- 10A SALT- AND BRACKISH- WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMPS
- 10D SCRUB- SHRUB WETLANDS



SCALE 1:50000



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Office of Response and Restoration  
Emergency Response Division

Mississippi: ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

Table with columns: RAR#, Species, S F Conc., J F M A M J J A S O N D, Nesting, Migrating, Molting. Lists various bird species such as American white pelican, Brown pelican, Bald eagle, etc., with their seasonal occurrence patterns.

FISH:

Table with columns: RAR#, Species, S F Conc., J F M A M J J A S O N D, Spawning, Eggs, Larvae, Juveniles, Adults. Lists fish species such as Gulf sturgeon, Atlantic croaker, Atlantic sharpnose shark, etc., with their seasonal occurrence patterns.

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.



**Mississippi: ESIMAP 10 (cont.)**

**BIOLOGICAL RESOURCES: (cont.)**

**FISH: (cont.)**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
49	Sand seatrout		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAY-OCT	FEB-OCT	JAN-DEC	JAN-DEC
	Scaled sardine					X	X	X	X	X	X			APR-SEP	-	-	AUG-SEP	-	
	Sheepshead		X	X	X	X	X	X	X	X	X	X	X		-	-	FEB-MAY	JAN-DEC	JUN-FEB
	Sheepshead minnow		X	X	X	X	X	X	X	X	X	X	X		APR-OCT	APR-OCT	APR-NOV	MAY-SEP	JAN-DEC
																DEC-MAR			
	Shiners		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
	Silver perch		X	X	X	X	X	X	X	X	X	X	X		MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Skipjack herring		X	X	X	X				X	X			MAR-APR	-	-	-	-	
	Southern flounder		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Spot		X	X	X	X	X	X	X	X	X	X	X		-	-	DEC-MAY	JAN-DEC	MAR-OCT
	Spotted seatrout		X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Spotted sunfish		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
	Striped anchovy					X	X	X	X	X	X	X	X		MAY-AUG	MAY-AUG	APR-AUG	APR-DEC	-
	Striped bass					X	X							APR-JUN	-	-	-	-	
	Striped mullet		X	X	X	X	X	X	X	X	X	X	X		NOV-MAY	NOV-MAY	NOV-MAY	JAN-DEC	JAN-DEC
	White mullet		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
53	Gulf sturgeon	E T	X	X	X	X	X	X	X	X	X	X	X		-	-	MAY-MAY	FEB-DEC	MAR-NOV

**INVERTEBRATE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
5	Blue crab		X	X	X	X	X	X	X	X	X	X	X		MAY-NOV	MAY-NOV	MAY-NOV	-	JAN-DEC
	Brown shrimp		X	X	X	X	X	X	X	X	X	X	X		-	-	FEB-NOV	-	JAN-DEC
	Horseshoe crab		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	JAN-DEC
	Pink shrimp		X	X	X	X	X	X	X	X	X	X	X		-	-	APR-NOV	-	JAN-DEC
	Stone crab		X	X	X	X	X	X	X	X	X	X	X		APR-SEP	APR-SEP	APR-OCT	APR-OCT	JAN-DEC
	White shrimp		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	JAN-DEC
31	Blue crab		X	X	X	X	X	X	X	X	X	X	X		MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV	JAN-DEC
	Brown shrimp		X	X	X	X	X	X	X	X	X	X	X		-	-	FEB-NOV	FEB-NOV	JAN-DEC
	Pink shrimp		X	X	X	X	X	X	X	X	X	X	X		-	-	APR-NOV	APR-NOV	JAN-DEC
	Stone crab		X	X	X	X	X	X	X	X	X	X	X		APR-SEP	APR-SEP	APR-OCT	APR-OCT	JAN-DEC
	White shrimp		X	X	X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	JAN-DEC
49	Blue crab							X	X	X	X	X	X		MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV
	Brown shrimp							X	X	X	X	X	X		-	-	FEB-NOV	FEB-NOV	FEB-NOV
	Pink shrimp							X	X	X	X	X	X		-	-	APR-NOV	APR-NOV	APR-NOV
	White shrimp							X	X	X	X	X	X		-	-	-	MAR-NOV	MAR-NOV

**MARINE MAMMAL:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
5	Bottlenose dolphin		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
33	Bottlenose dolphin		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
37	West Indian manatee	E E				X	X	X	X	X	X			-	-	-	-	

**REPTILE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
5	Kemp's ridley sea turtle	E E	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Loggerhead sea turtle	E T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
17	Loggerhead sea turtle	E T LOW				X	X	X	X	X				MAY-SEP	JUN-OCT	-	-	MAY-SEP	
23	Alligator snapping turtle	C	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
27	Diamondback terrapin		X	X	X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-	-
30	American alligator	T T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
	Diamondback terrapin		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
	Gulf salt marsh snake		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
32	Loggerhead sea turtle	E T LOW				X	X	X	X					MAY-SEP	JUN-OCT	-	-	MAY-SEP	
33	Kemp's ridley sea turtle	E E	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Loggerhead sea turtle	E T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
64	Gopher tortoise	E T MED-HIGH PROBABILITY	X	X	X	X	X	X	X	X	X	X	X		MAY-OCT	-	-	-	-
65	Gopher tortoise	E T LOW PROBABILITY	X	X	X	X	X	X	X	X	X	X	X		MAY-OCT	-	-	-	-

**TERRESTRIAL MAMMAL:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
18	Common raccoon		X	X	X	X	X	X	X	X	X	X	X	
30	Muskrat		X	X	X	X	X	X	X	X	X	X	X	
	Northern river otter		X	X	X	X	X	X	X	X	X	X	X	
47	Louisiana black bear	E T	X	X	X	X	X	X	X	X	X	X	X	

**HUMAN USE RESOURCES:**

**ARTIFICIAL REEF:**

HUN#	Name	Contact	Phone
28	DEER ISLAND NORTH REEF	MDMR	228/523-4078
30	FORT BAYOU REEF	MDMR	228/523-4078
36	JOE THORNTON HULL REEF	MDMR	228/523-4078
41	KUHN STREET PIER REEF	MDMR	228/523-4078
50	OCEAN SPRINGS COMMUNITY PIER REEF	MDMR	228/523-4078
51	OCEAN SPRINGS HARBOR PIER REEF	MDMR	228/523-4078
52	OLD HIGHWAY 90 BRIDGE REEF EAST	MDMR	228/523-4078
53	OLD HIGHWAY 90 BRIDGE REEF WEST	MDMR	228/523-4078
58	SPOIL ISLAND NORTH REEF	MDMR	228/523-4078
59	SPOIL ISLAND SOUTH REEF	MDMR	228/523-4078

**BOAT RAMP:**

HUN#	Name	Contact	Phone
79	BILOXI BOAT RAMP	HARRISON COUNTY SAND BEACH DEPT.	228/896-0055
103	OLD FORT BAYOU BOAT RAMP	JACKSON COUNTY	228/826-5330

**MANAGEMENT AREA:**

HUN#	Name	Contact	Phone
253	DAVIS BAYOU COASTAL PRESERVE	MDMR	228/374-5000
254	DEER ISLAND COASTAL PRESERVE	MDMR	228/374-5000
262	OLD FORT BAYOU COASTAL PRESERVE	MDMR	228/374-5000

**MARINA:**

HUN#	Name	Contact	Phone
280	OCEAN SPRINGS YACHT CLUB	OCEAN SPRINGS YACHT CLUB, INC.	228/875-1917
286	POINT CADET MARINA	BILOXI PORT COMMISSION	228/374-6600

**NATIONAL PARK:**

HUN#	Name	Contact	Phone
288	GULF ISLANDS NATIONAL SEASHORE	PARK HEADQUARTERS, FLORIDA	850/934-2600

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

**Mississippi: ESIMAP 10 (cont.)**

**HUMAN USE RESOURCES: (cont.)**

**RECREATIONAL FISHING:**

<b>HUN#</b>	<b>Name</b>	<b>Contact</b>	<b>Phone</b>
293	-----	-----	-----
310	OLD HWY 90 PIER	JACKSON COUNTY	228/826-5330

**WILDLIFE REFUGE:**

<b>HUN#</b>	<b>Name</b>	<b>Contact</b>	<b>Phone</b>
321	MISSISSIPPI SANDHILL CRANE NWR	REFUGE MANAGER	228/497-6322