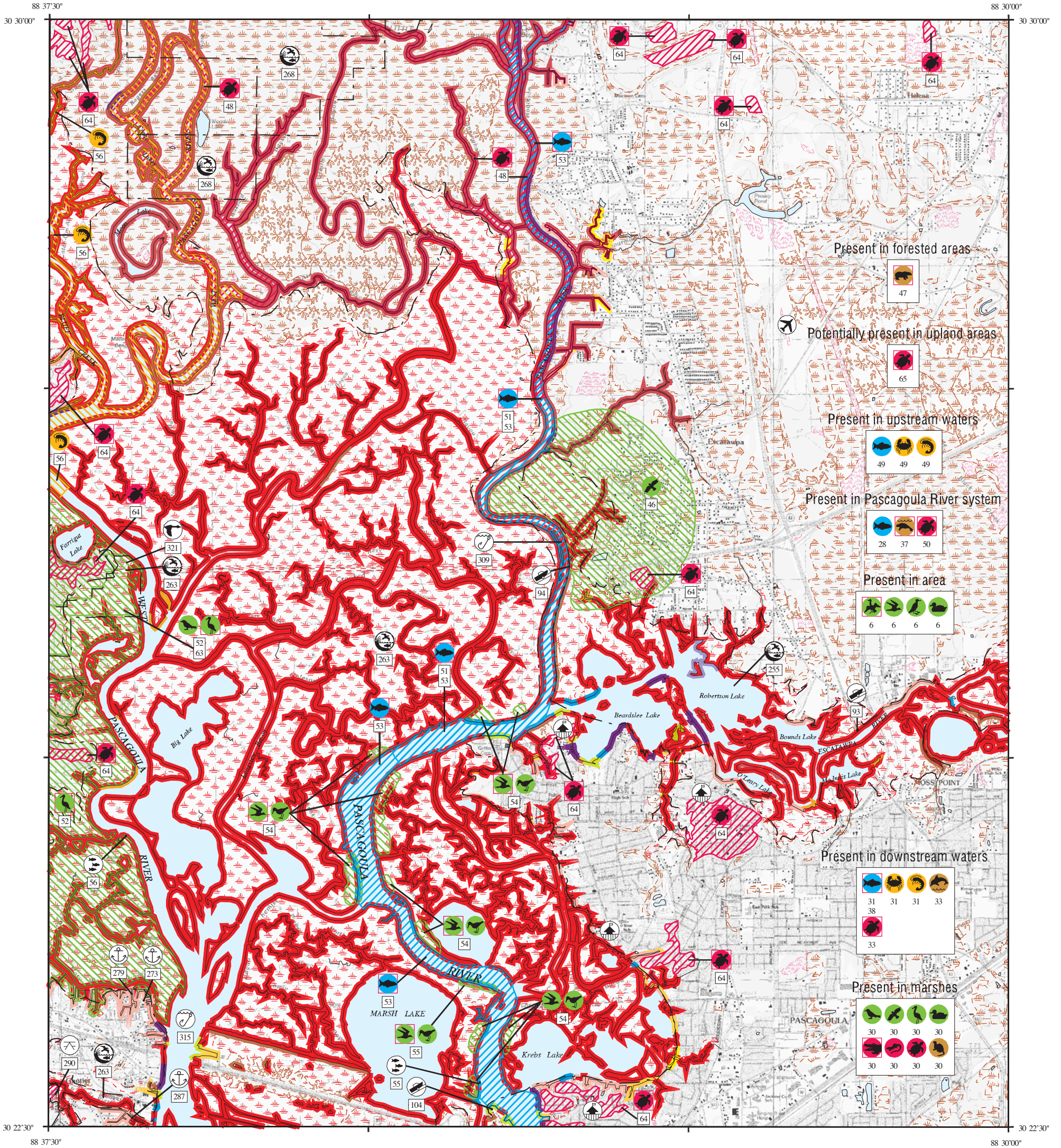


# ENVIRONMENTAL SENSITIVITY INDEX MAP



## 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

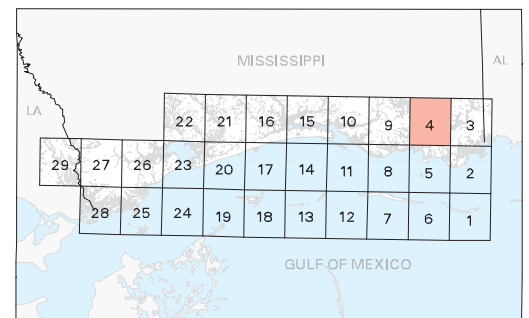


SCALE 1:50000



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National Ocean Service  
Office of Response and Restoration  
Emergency Response Division



**Mississippi: ESIMAP 4**

**BIOLOGICAL RESOURCES:**

**BIRD:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting		
6	American white pelican		X	X	X								X	X	X	-	-	-	
	Bonaparte's gull		X	X	X	X	X						X	X	-	-	-		
	Brown pelican	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Bufflehead		X	X	X	X							X	X	X	-	-	-	
	Canvasback		X	X	X	X							X	X	X	-	-	-	
	Common goldeneye		X	X	X	X							X	X	X	-	-	-	
	Common loon		X	X	X	X	X						X	X	X	-	-	-	
	Double-crested cormorant		X	X	X								X	X	X	-	-	-	
	Greater scaup		X	X	X	X							X	X	X	-	-	-	
	Herring gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Hooded merganser		X	X	X	X							X	X	X	-	-	-	
	Horned grebe		X	X	X	X							X	X	-	-	-		
	Laughing gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Lesser scaup		X	X	X	X							X	X	X	-	-	-	
	Long-tailed duck		X	X	X	X							X	X	X	-	-	-	
	Northern gannet		X	X									X	X	X	-	-	-	
	Pied-billed grebe		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Red-breasted merganser		X	X	X	X							X	X	X	-	-	-	
	Redhead		X	X	X	X							X	X	X	-	-	-	
	Ring-billed gull		X	X	X								X	X	-	-	-		
	Ring-necked duck		X	X	X	X							X	X	X	-	-	-	
	Ruddy duck		X	X	X	X							X	X	X	-	-	-	
	Terns		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
30	American coot		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	American wigeon		X	X	X								X	X	-	-	-		
	Black-crowned night-heron		X										X	X	-	-	-		
	Blue-winged teal		X	X	X	X							X	X	X	-	-	-	
	Bufflehead		X	X	X	X							X	X	X	-	-	-	
	Canada goose		X	X	X	X	X	X	X	X	X	X	X	X	FEB-MAY	-	-	-	
	Canvasback		X	X	X	X							X	X	X	-	-	-	
	Cattle egret		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-	
	Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Gadwall		X	X	X								X	X	X	-	-	-	
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-	
	Great egret		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Greater scaup		X	X	X	X							X	X	X	-	-	-	
	Green heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-	
	Green-winged teal		X	X	X	X							X	X	X	-	-	-	
	Hooded merganser		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	-	
	King rail		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-	
	Least bittern			X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-	
	Lesser scaup		X	X	X	X							X	X	X	-	-	-	
	Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Mallard		X	X	X								X	X	X	-	-	-	
	Marsh wren		X	X	X	X							X	X	X	-	-	-	
	Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	-	
	Nelson's sharp-tailed sparrow		X	X	X								X	X	X	-	-	-	
	Northern pintail		X	X	X								X	X	X	-	-	-	
	Northern shoveler		X	X	X								X	X	X	-	-	-	
	Osprey		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	-	
	Redhead		X	X	X	X							X	X	X	-	-	-	
	Ring-necked duck		X	X	X	X							X	X	X	-	-	-	
	Ruddy duck		X	X	X	X							X	X	X	-	-	-	
	Seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-	
	Sedge wren		X	X	X	X							X	X	X	-	-	-	
	Snowy egret												X	X	X	MAY-SEP	-	-	-
	Sora			X	X	X							X	X	X	-	-	-	
	Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-		
	Virginia rail			X	X	X							X	X	X	-	-	-	
	Wood duck		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	-	
	Yellow-crowned night-heron			X	X	X	X						X	X	X	-	-	-	
46	Bald eagle		X	X	X	X	X						X	X	X	NOV-JUN	-	-	-
52	Mississippi sandhill crane	E E	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	-	
54	Least tern	E		X	X	X	X						X	X	X	MAY-SEP	-	-	-
	Wilson's plover		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	-	
55	American oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-	
	Black-bellied plover		X	X	X								X	X	-	-	-	-	
	Dowitchers		X	X	X								X	X	-	-	-	-	
	Dunlin		X	X	X								X	X	-	-	-	-	
	Greater yellowlegs		X	X	X	X							X	X	X	-	-	-	
	Gull-billed tern		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-	
	Killdeer		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Least sandpiper		X	X	X	X							X	X	X	-	-	-	
	Least tern	E											X	X	X	MAY-SEP	-	-	-
	Lesser yellowlegs		X	X	X	X							X	X	X	-	-	-	
	Red knot		X	X	X								X	X	-	-	-	-	
	Royal tern		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-	
	Ruddy turnstone		X	X	X								X	X	-	-	-	-	
	Sanderling		X	X	X								X	X	-	-	-	-	
	Sandwich tern												X	X	X	MAY-SEP	-	-	-
	Semipalmated plover		X	X	X								X	X	X	-	-	-	
	Semipalmated sandpiper		X	X	X	X							X	X	X	-	-	-	
	Snowy plover		X	X	X								X	X	-	-	-	-	
	Spotted sandpiper		X	X	X	X							X	X	X	-	-	-	
	Western sandpiper		X	X	X	X							X	X	X	-	-	-	
	Willet		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-	-	
	Wilson's plover		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
63	Henslow's sparrow		X	X	X	X							X	X	X	-	-	-	
	Sedge wren		X	X	X	X							X	X	X	-	-	-	

**FISH:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
28	Blackmouth shiner		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-OCT	APR-OCT	APR-OCT	JAN-DEC
31	Alligator gar	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Atlantic croaker		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-APR	JAN-DEC	APR-OCT
	Atlantic sturgeon		X	X	X	X							X	X	-	-	-	-	OCT-MAY
	Atlantic thread herring			X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	MAR-NOV
	Bay anchovy		X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	FEB-OCT	FEB-OCT	JAN-DEC	JAN-DEC
	Blue catfish		X	X	X	X							X	X	X	-	-	-	-
	Bluefish		X	X	X	X							X	X	X	-	-	OCT-APR	-
	Channel catfish		X	X	X	X							X	X	MAR-MAR	-	-	-	-
	Florida pompano												X	X	X	X	X	MAY-NOV	-
	Gafftopsail catfish												X	X	X	-	-	MAY-AUG	MAY-AUG
	Gizzard shad		X	X									X	X	X	-	-	NOV-FEB	NOV-FEB
	Gulf butterfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-AUG	JAN-DEC
	Gulf killifish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	-	-
	Gulf menhaden		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC	JAN-DEC	MAR-AUG

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 4 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

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 various fish species like Halfbeak, Atlantic croaker, etc., with their seasonal occurrence patterns.

INVERTEBRATE:

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 invertebrates like Blue crab, Brown shrimp, etc., with seasonal occurrence patterns.

MARINE MAMMAL:

Table with columns: RAR#, Species, S F Conc., J F M A M J J A S O N D, Mating, Calving, Pupping, Molting. Lists marine mammals like Bottlenose dolphin, West Indian manatee.

REPTILE:

Table with columns: RAR#, Species, S F Conc., J F M A M J J A S O N D, Nesting, Hatching, Interesting, Juveniles, Adults. Lists reptiles like American alligator, Kemp's ridley sea turtle, etc.

TERRESTRIAL MAMMAL:

Table with columns: RAR#, Species, S F Conc., J F M A M J J A S O N D. Lists terrestrial mammals like Muskrat, Louisiana black bear.

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 4 (cont.)

## HUMAN USE RESOURCES:

### ARTIFICIAL REEF:

HUN#	Name	Contact	Phone
55	PASCAGOULA RIVER REEF SITE 1	MDMR	228/523-4078
56	PASCAGOULA RIVER REEF SITE 3	MDMR	228/523-4078

### BOAT RAMP:

HUN#	Name	Contact	Phone
93	HWY 63 BOAT RAMP	JACKSON COUNTY	228/826-5330
94	I-10 BOAT RAMP	JACKSON COUNTY	228/826-5330
104	PASCAGOULA RIVER PARK BOAT RAMP	MS. DEPT. OF WILDLIFE, FISHERIES, & PARKS	228/859-3421

### MANAGEMENT AREA:

HUN#	Name	Contact	Phone
255	ESCATAWPA RIVER COASTAL PRESERVE	MDMR	228/374-5000
263	PASCAGOULA RIVER COASTAL PRESERVE	MDMR	228/374-5000
268	WARD BAYOU WILDLIFE MANAGEMENT AREA	MANAGER: LYNN MCCOY	228/826-1012

### MARINA:

HUN#	Name	Contact	Phone
273	COOL POINT RESORT & MARINA	DEAN POOL	228/497-5908
279	MARY WALKER MARINA	WALLY ANDERSON	228/497-3141
287	WEST RIVER MARINA	JIM BURNSD	228/497-3136

### PARK:

HUN#	Name	Contact	Phone
290	SHEPARD STATE PARK		228/497-2244

### RECREATIONAL FISHING:

HUN#	Name	Contact	Phone
309	MAC'S FISHING CAMP	KEN MCGUIRE	228/475-1225
315	TUCEIS FISHING CAMP	KENNETH BARRIES	228/497-6743

### WILDLIFE REFUGE:

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