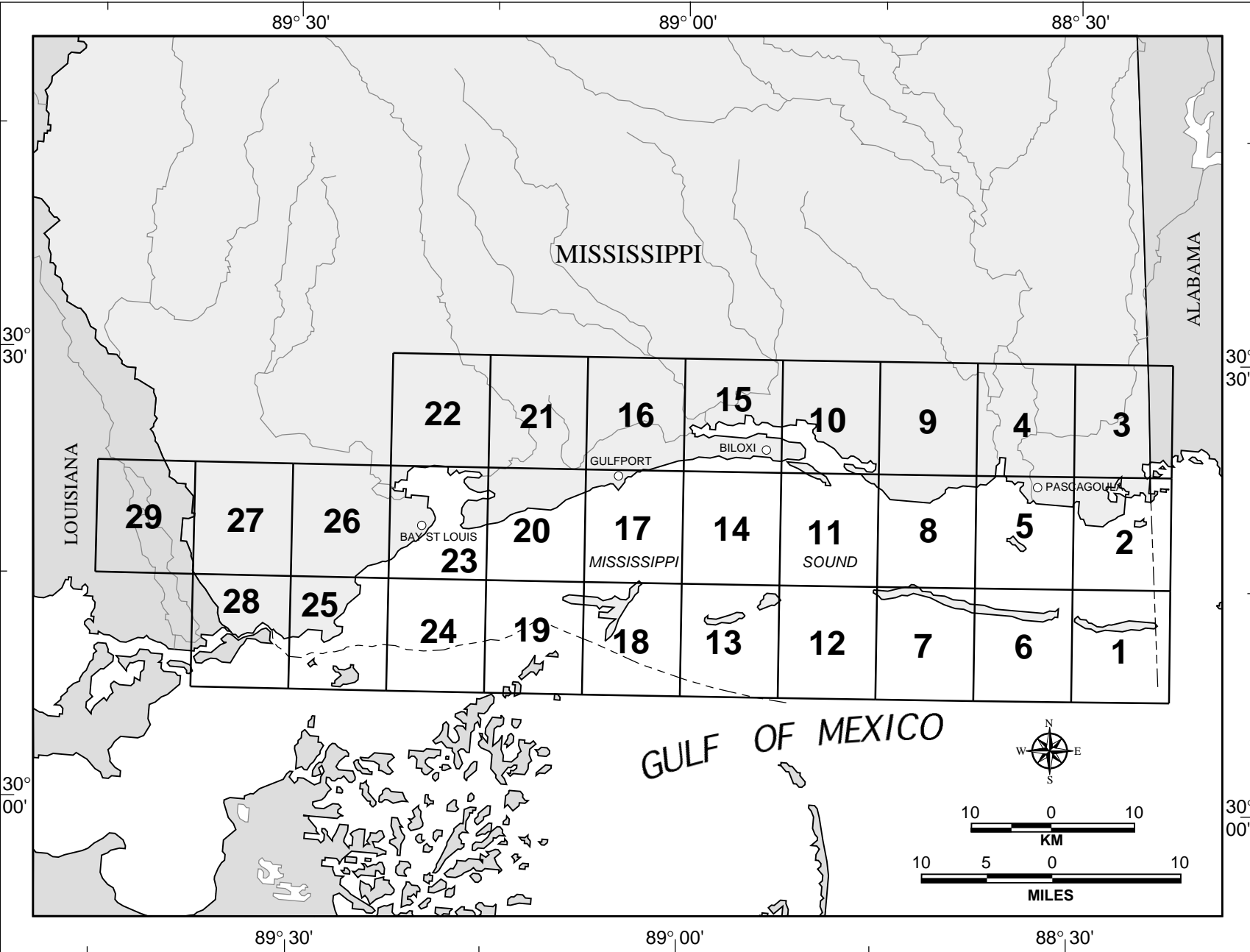


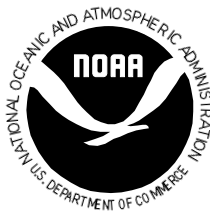
Sensitivity of Coastal Environments and Wildlife to Spilled Oil

MISSISSIPPI ATLAS



STATE OF MISSISSIPPI

Prepared for:



**HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION**
National Oceanic and Atmospheric Administration
Seattle, Washington

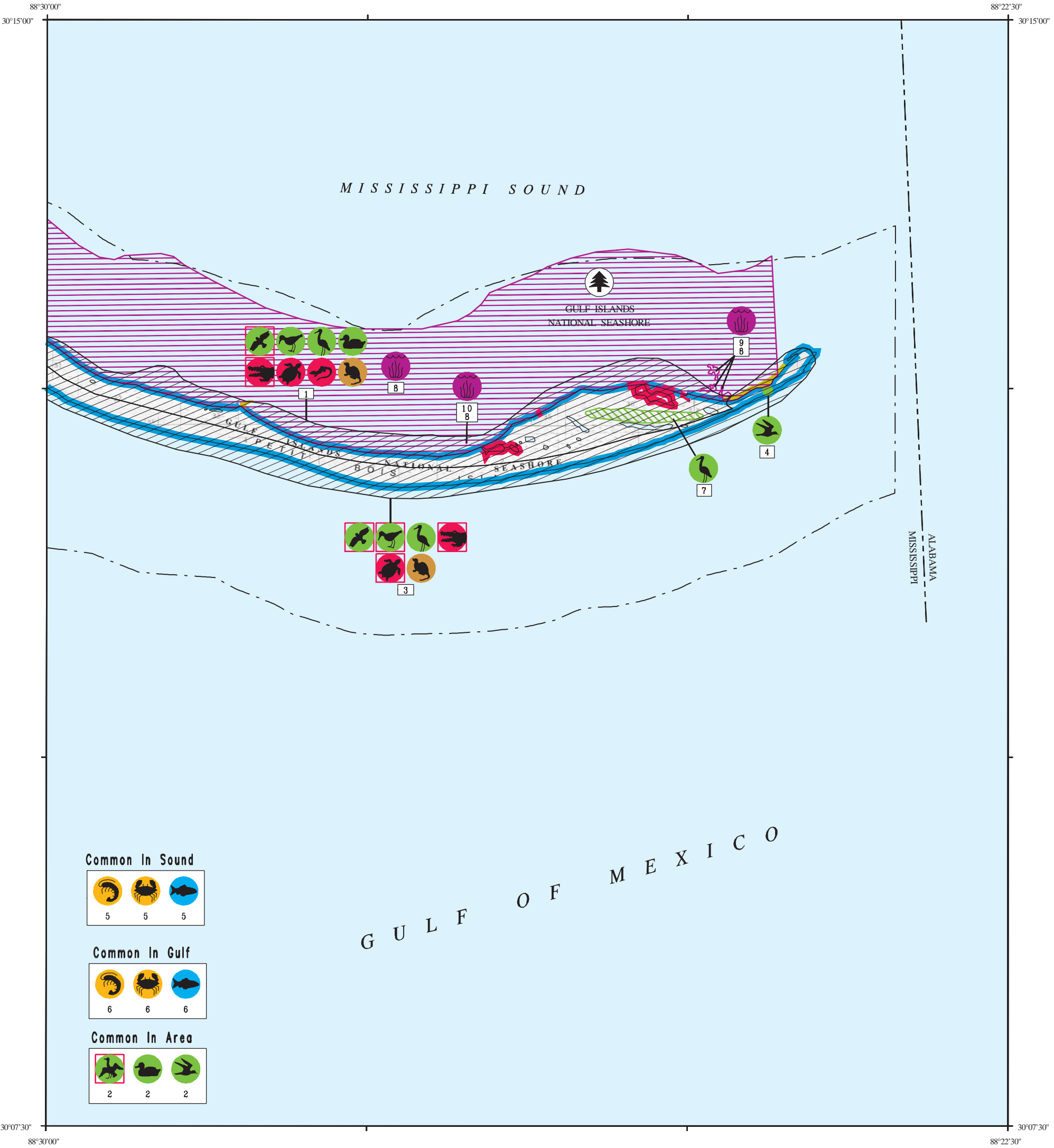
Prepared by:



RESEARCH PLANNING, INC.
Columbia, South Carolina

DECEMBER 1995

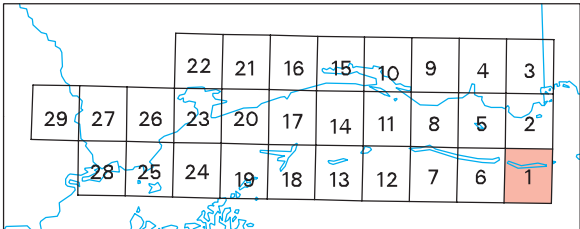
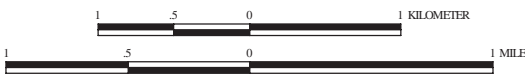
ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
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National Oceanic and Atmospheric Administration



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Published: December 1995

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MISSISSIPPI - ESIMAP 1

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
1	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				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	-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X	X	-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X	X				X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Reddish egret								X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X	X				X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
3	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
4	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Least tern					X	X	X	X	X	X	X	X				APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
7	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Gulf of Mexico assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
8	Seagrass			VERY SPARS	X	X	X	X	X	X	X	X	X	X	X	X
9	Seagrass			SPARSE	X	X	X	X	X	X	X	X	X	X	X	X
10	Seagrass			MODERATE	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
1	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
3	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	E/T	MED		X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

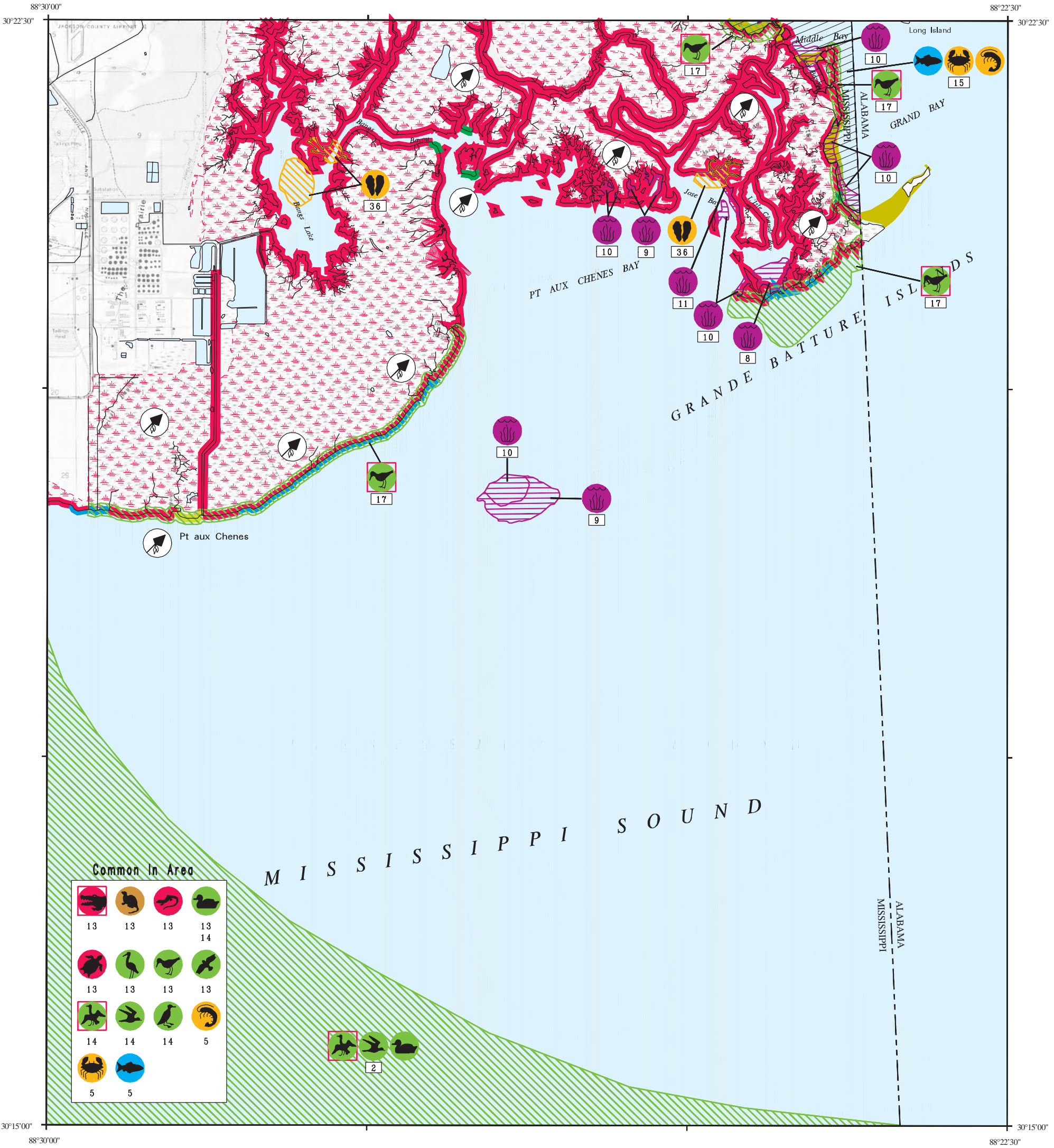
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
6	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
1	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
3	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X

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ENVIRONMENTAL SENSITIVITY INDEX MAP

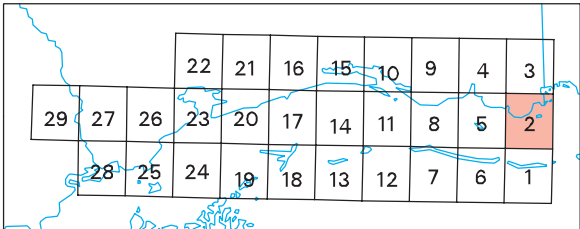
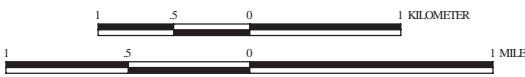


STATE OF MISSISSIPPI

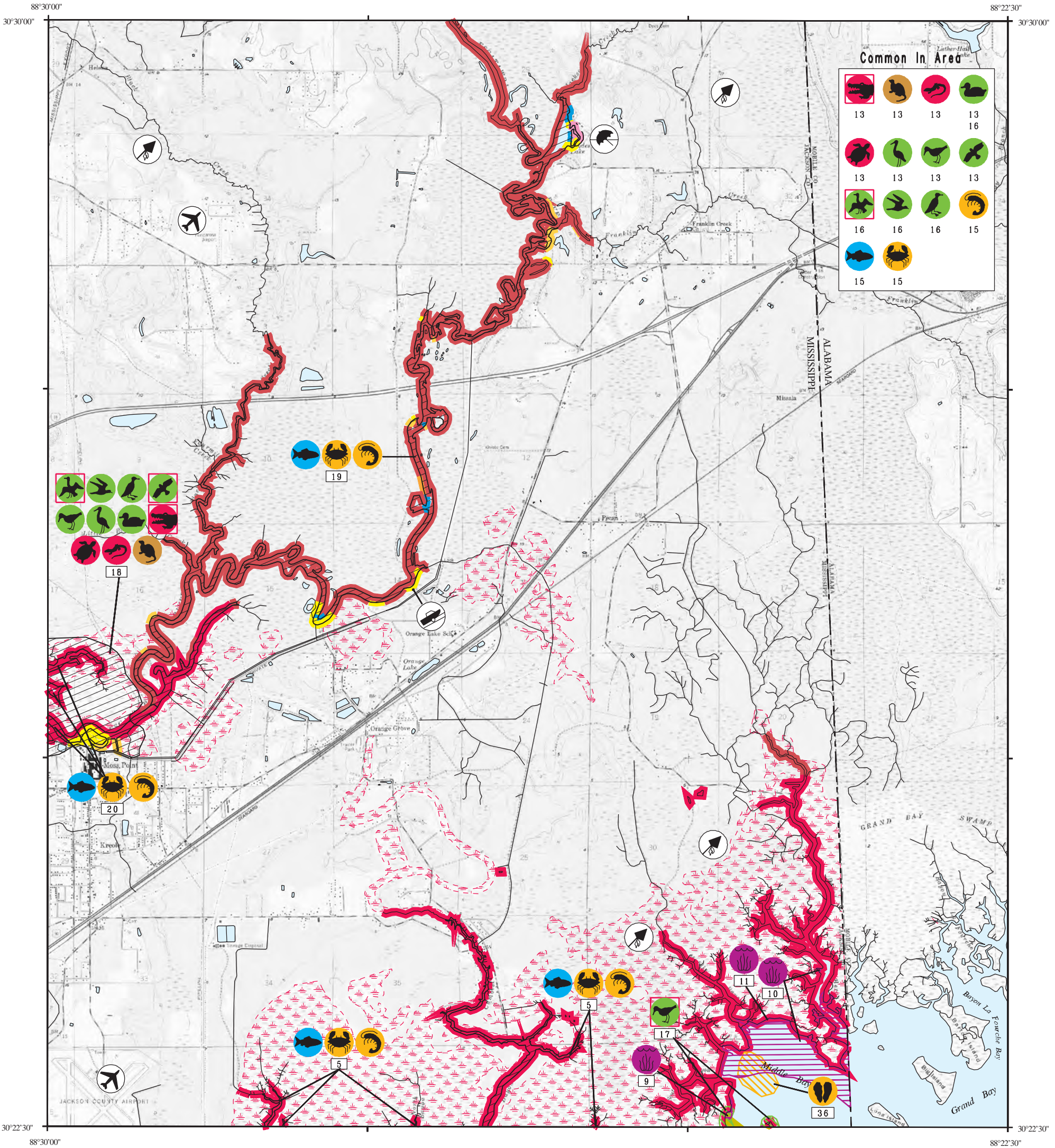


HAZARDOUS MATERIALS RESPONSE
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National Oceanic and Atmospheric Administration

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ENVIRONMENTAL SENSITIVITY INDEX MAP

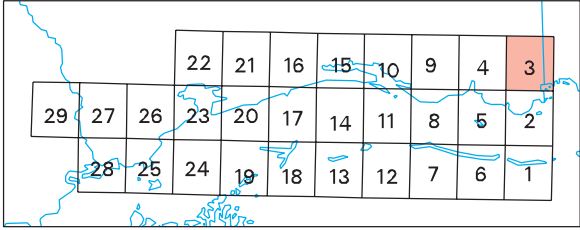
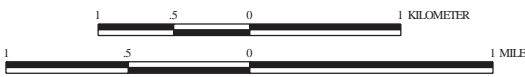


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HAZARDOUS MATERIALS RESPONSE
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MISSISSIPPI - ESIMAP 3

BIOLOGICAL RESOURCES:

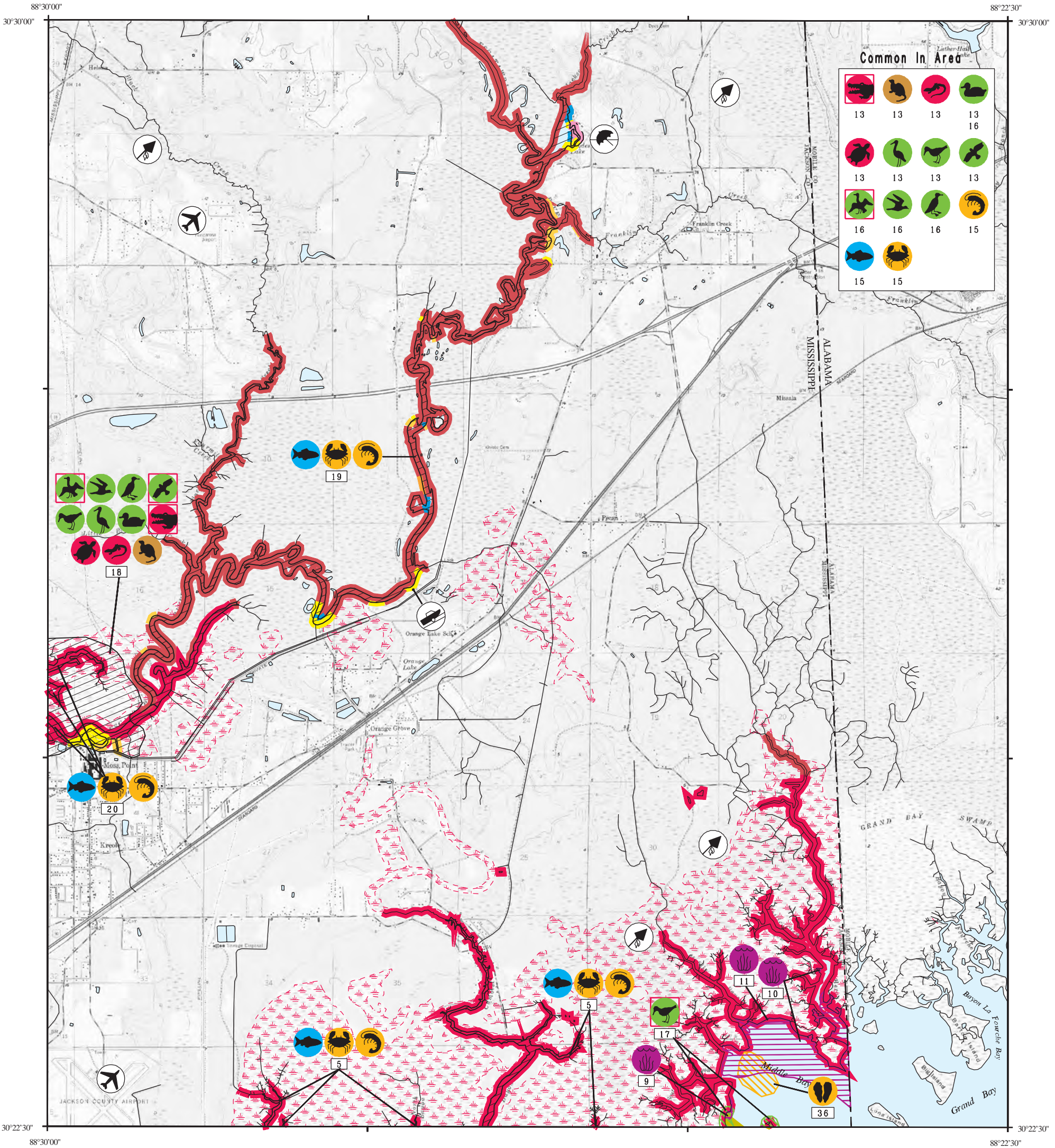
BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
13	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				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				-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-
	Green-winged teal				X	X	X						X	X	X		-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	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		MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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		-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
16	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black tern					X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Bonaparte's gull				X	X	X	X	X				X	X	X		-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X					X	X	X		-	-	-	-
	Caspian tern					X	X	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	X		-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Northern gannet				X	X							X	X	X		-	-	-	-
	Oldsquaw				X	X	X	X					X	X			-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty tern									X	X	X	X	X			-	-	-	-
17	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
18	Wilson's plover					X	X	X	X	X	X	X	X	X			-	-	-	-
	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	American white pelican				X	X							X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black tern					X	X	X	X	X	X	X	X	X			-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bonaparte's gull				X	X	X	X					X	X			-	-	-	-
	Brown pelican	S/F	E/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		-	-	-	-
	Caspian tern					X	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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Common loon				X	X	X	X					X	X	X		-	-	-	-
	Common moorhen					X	X	X	X	X	X	X	X				-	-	-	-
	Double-crested cormorant				X	X	X	X	X				X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-
	Green-winged teal				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			-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least bittern					X	X	X	X	X	X	X	X	X			MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Least tern					X	X	X	X	X	X	X					-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern gannet				X	X							X	X	X		-	-	-	-
	Northern harrier				X	X	X	X					X	X	X		-	-	-	-
	Oldsquaw				X	X	X	X					X	X			-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty tern									X	X	X	X	X			-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X					-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
15	Atlantic croaker				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Atlantic spadefish						X	X	X	X	X	X	X				-	-	-
	Atlantic sturgeon				X	X	X	X									-	-	-
	Atlantic thread herring							X	X	X	X	X	X	X			-	-	-
	Bay anchovy				X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	-	-
	Black drum				X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-APR
	Bluefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Crevalle jack							X	X								-	-	-
	Florida pompano							X	X	X	X	X	X	X			-	-	-
	Gafftopsail catfish						X	X	X	X	X	X					JUN-JUL	-	-
	Gizzard shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP
	Gray snapper						X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf butterflyfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf killifish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf menhaden				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Halfbeak						X	X	X	X	X	X	X				-	-	-
	Hardhead catfish						X	X	X	X	X	X	X	X			MAY-AUG	-	-
	Harvestfish						X	X	X	X	X						-	-	-
	Inland silverside				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Longnose killifish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Marsh killifish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern kingfish						X	X	X	X	X	X	X	X	X	X	-	-	-
	Pigfish						X	X	X	X	X	X	X	X			-	-	-
	Pinfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Red drum				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	-	-
	Rough silverside				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Sand seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Scaled sardine						X	X	X	X	X	X	X				-	-	-
	Sheepshead				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sheepshead minnow				X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-OCT
	Silver perch				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Southern flounder				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-
	Southern hake				X	X	X	X									-	-	-

ENVIRONMENTAL SENSITIVITY INDEX MAP

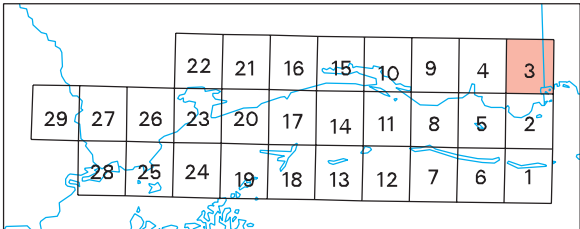
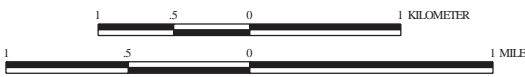


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MISSISSIPPI - ESIMAP 3 (continued)

BIOLOGICAL RESOURCES (continued):

FISH (continued):

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
	Southern kingfish (whiting)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Spanish mackerel									X	X	X	X				-	-	-
	Spot				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Spotfin mojarra				X						X	X	X	X	X		-	-	-
	Spotted hake				X	X											-	-	-
	Spotted seatrout				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Star drum												X				-	-	-
	Striped anchovy								X	X	X	X	X	X	X		MAY-AUG	-	-
	Striped bass							X	X	X							APR-JUN	-	-
	Striped mullet				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAY	-	-
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP
	Threadfin shad				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	White mullet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Whitespotted greenling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC
19	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
9	Seagrass			SPARSE	X	X	X	X	X	X	X	X	X	X	X	X
10	Seagrass			MODERATE	X	X	X	X	X	X	X	X	X	X	X	X
11	Seagrass			CONTINUOUS	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
13	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
18	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

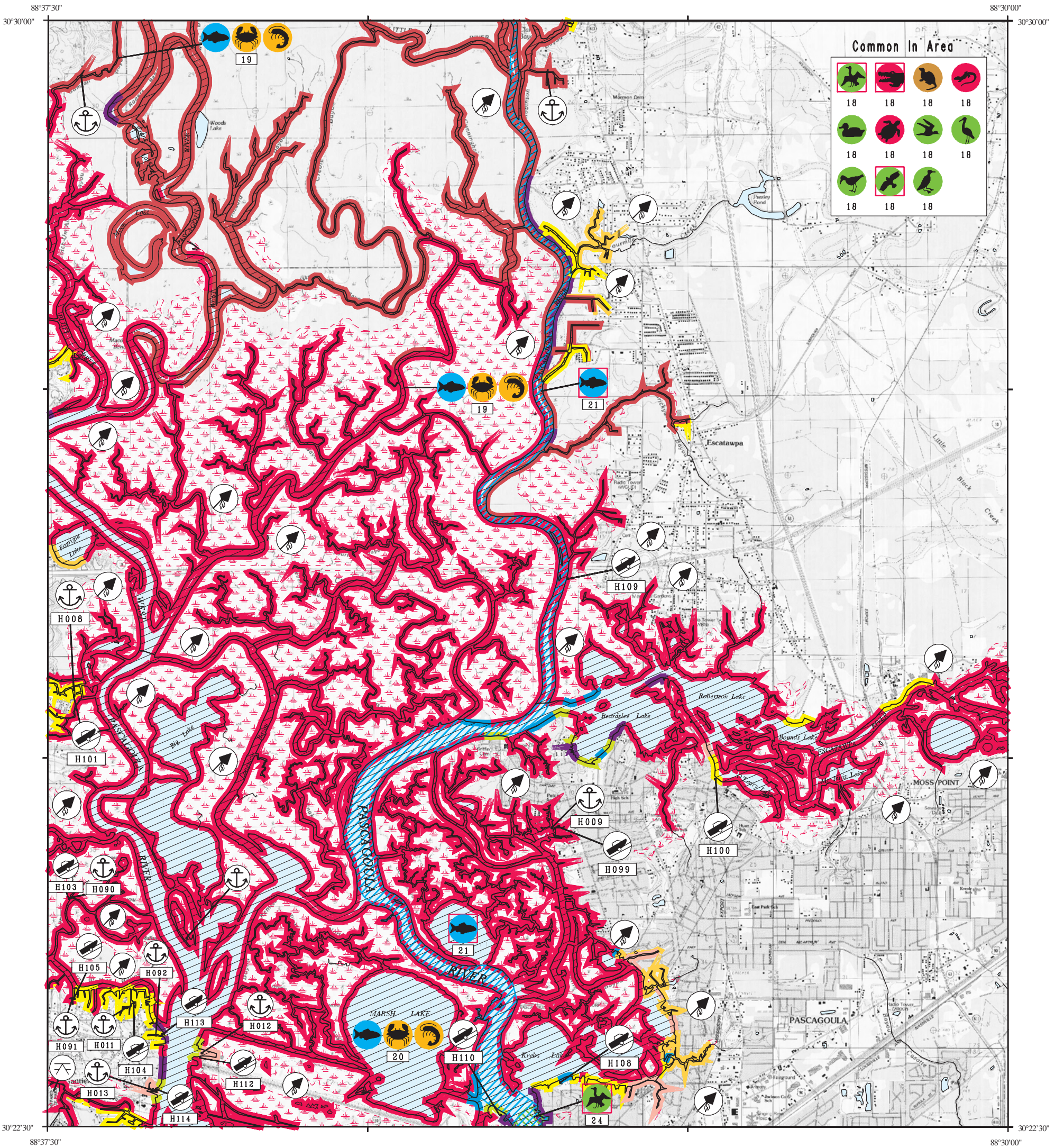
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
15	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
13	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
18	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

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ENVIRONMENTAL SENSITIVITY INDEX MAP

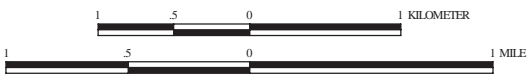


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MISSISSIPPI - ESIMAP 4

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
18	American bittern				X	X	X	X	X				X	X	X	X	-	-	-	-
	American white pelican				X	X							X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X	X			X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black tern					X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bonaparte's gull				X	X	X	X						X	X		-	-	-	-
	Brown pelican	S/F	E/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		-	-	-	-
	Caspian tern					X	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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Common loon				X	X	X	X					X	X	X	X	-	-	-	-
	Common moorhen					X	X	X	X	X	X	X	X				-	-	-	-
	Double-crested cormorant				X	X	X	X	X				X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-
	Green-winged teal				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			-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least bittern					X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern gannet				X	X							X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X					X	X	X	X	-	-	-	-
	Oldsquaw				X	X	X	X					X	X			-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty tern								X	X	X	X	X				-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
24	Brown pelican	S/F	E/E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
19	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
21	Gulf sturgeon	S/F	E/T		X	X	X	X									FEB-APR	-	MAY-MAY

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
18	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
18	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

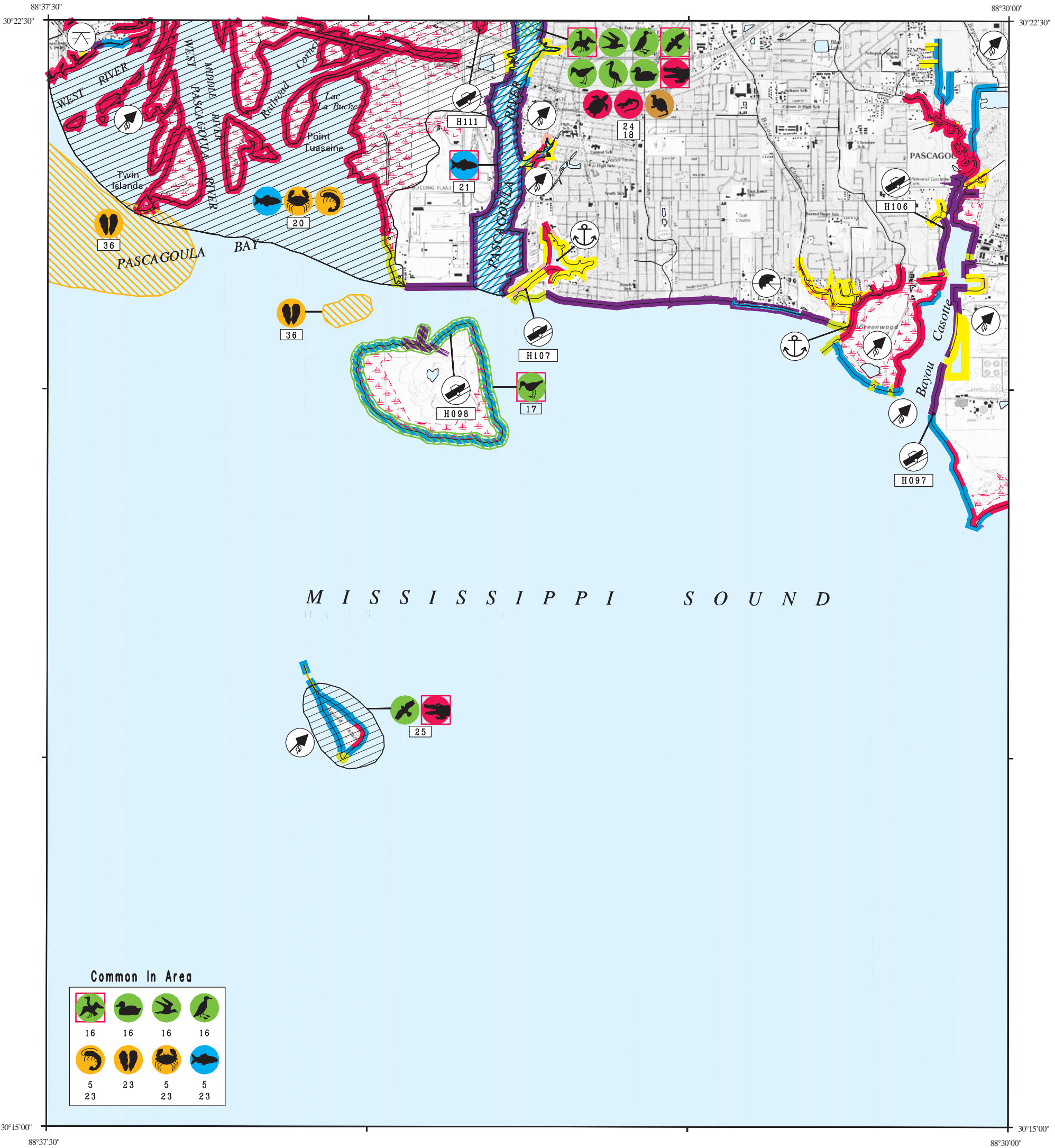
BOAT_RAMP:

RAR#	Name
H099	CHACTAW BOAT RAMP
H100	MOSS POINT BOAT RAMP
H101	ROY'S FISH CAMP
H103	INDIAN POINT BOAT RAMP
H104	MARY WALKER BOAT RAMP
H105	GAUTIER MARINA BOAT RAMP
H108	OLD SPANISH FORT
H109	I-10 BOAT LAUNCH
H110	SCRANTON BOAT RAMP
H112	ROY'S IV
H113	TUCEIS NOW ROY'S III
H114	WEST RIVER BOAT RAMP

MARINA:

RAR#	Name
H008	ROY'S FISH CAMP
H009	CHACTAW MARINA
H011	MARY WALKER MARINA
H012	ROY'S IV
H013	WEST RIVER MARINA
H090	INDIAN POINT MARINA
H091	GAUTIER MARINA
H092	TUCEIS NOW ROY'S III

ENVIRONMENTAL SENSITIVITY INDEX MAP

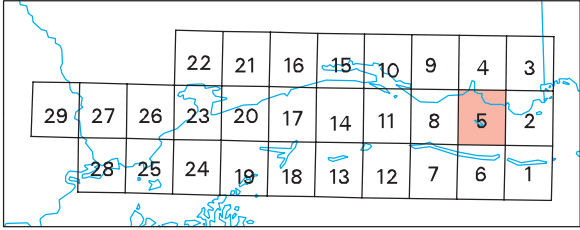
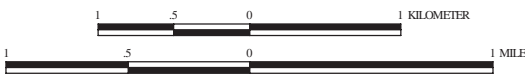


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MISSISSIPPI - ESIMAP 5

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X								X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X						X	X	X	-	-	-	-
	Double-crested cormorant				X	X	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	-	-	-	-
	Horned grebe				X	X	X	X						X	X		-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X						X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
16	American white pelican				X	X								X	X	X	-	-	-	-
	Black tern					X	X	X	X	X	X	X	X				-	-	-	-
	Bonaparte's gull				X	X	X	X						X	X		-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X						X	X	X	-	-	-	-
	Caspian tern					X	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	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X						X	X	X	-	-	-	-
	Northern gannet				X	X								X	X	X	-	-	-	-
	Oldsquaw				X	X	X	X						X	X		-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
17	Sooty tern								X	X	X	X	X				-	-	-	-
	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X							X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-
18	American bittern				X	X	X	X						X	X	X	-	-	-	-
	American white pelican				X	X								X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X					X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black tern					X	X	X	X	X	X	X	X				-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bonaparte's gull				X	X	X	X						X	X		-	-	-	-
	Brown pelican	S/F	E/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	-	-	-	-
	Caspian tern					X	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 goldeneye				X	X	X							X	X	X	-	-	-	-
	Common loon				X	X	X	X						X	X	X	-	-	-	-
	Common moorhen					X	X	X	X	X	X	X	X				-	-	-	-
	Double-crested cormorant				X	X	X	X						X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X						X	X	X	-	-	-	-
	Green-winged teal				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		-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least bittern					X	X	X	X	X	X	X	X				MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X						X	X	X	-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern gannet				X	X								X	X	X	-	-	-	-
	Northern harrier				X	X	X	X						X	X	X	-	-	-	-
	Oldsquaw				X	X	X	X						X	X		-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty tern								X	X	X	X	X				-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
24	Brown pelican	S/F	E/E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
25	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
21	Gulf sturgeon	S/F	E/T		X	X	X	X									FEB-APR	-	MAY-MAY
23	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

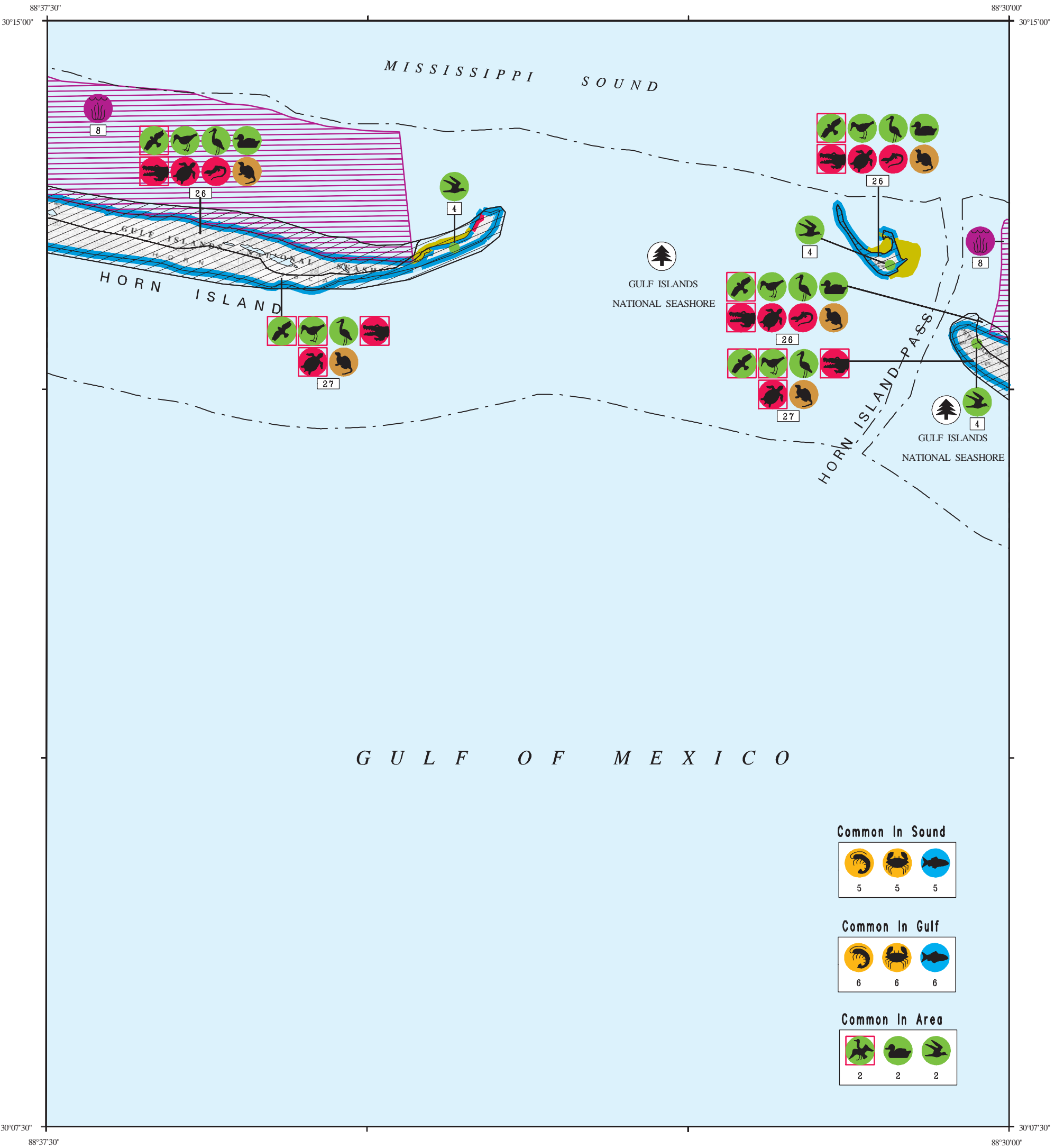
REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
18	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
25	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
23	Atlantic bay scallop				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	AUG-NOV	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-OCT	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	MAR-DEC	-

ENVIRONMENTAL SENSITIVITY INDEX MAP

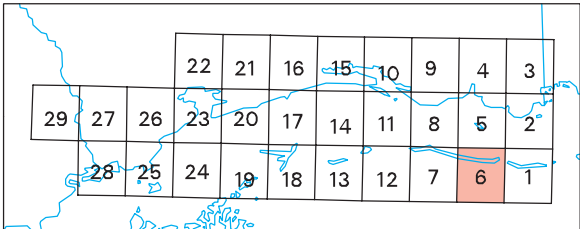
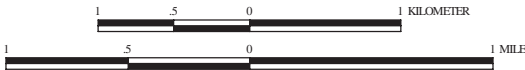


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995



MISSISSIPPI - ESIMAP 6

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
4	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Least tern					X	X	X	X	X	X						APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
26	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X			-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X						X	X	X		-	-	-	-
	Canvasback				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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X						X	X	X		-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X					X	X	X		-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X		-	-	-	-
	Red-breasted merganser				X	X	X	X					X	X	X		-	-	-	-
	Reddish egret							X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X		-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X	X				X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
27	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X		-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X	X			-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Gulf of Mexico assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
8	Seagrass			VERY SPARS	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
26	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
27	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	E/T MED			X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

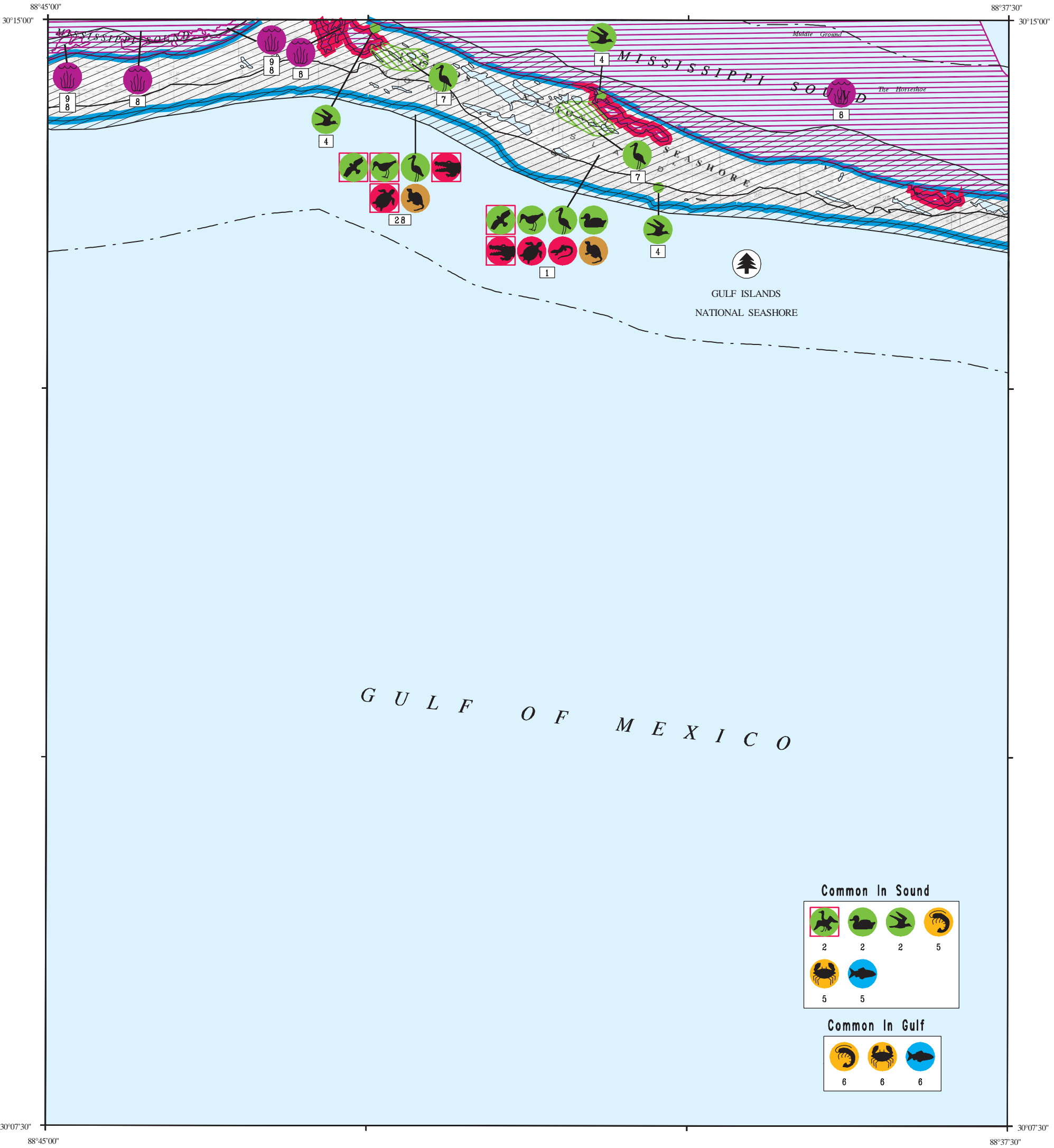
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
6	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
26	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
27	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X

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ENVIRONMENTAL SENSITIVITY INDEX MAP

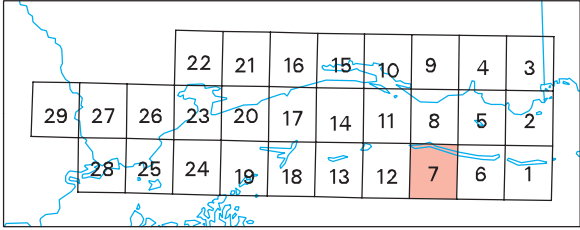
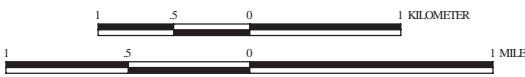


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995



HORN ISLAND WEST, MISS.(1982) **MS-7**

MISSISSIPPI - ESIMAP 7

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
1	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X							X	X	X	-	-	-	-
	Canvasback				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 goldeneye				X	X	X	X							X	X	X	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X							X	X	X	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X							X	X	X	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X						X	X	X	X	-	-	-
	Red-breasted merganser				X	X	X	X							X	X	X	-	-	-
	Reddish egret								X	X	X	X	X	X			-	-	-	-
	Redhead				X	X	X	X							X	X	X	-	-	-
	Ring-necked duck				X	X	X	X							X	X	X	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X							X	X	X	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
2	American white pelican				X	X								X	X	X	X	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X							X	X	X	-	-	-
	Double-crested cormorant				X	X	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	-	-	-	-
	Horned grebe				X	X	X	X							X	X	-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X	X							X	X	X	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
4	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Least tern					X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
7	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
28	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X							X	X	X	-	-	-
	Piping plover	F	T		X	X	X								X	X	X	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Gulf of Mexico assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
8	Seagrass			VERY SPARS	X	X	X	X	X	X	X	X	X	X	X	X
9	Seagrass			SPARSE	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
1	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
28	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	E/T	MED		X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

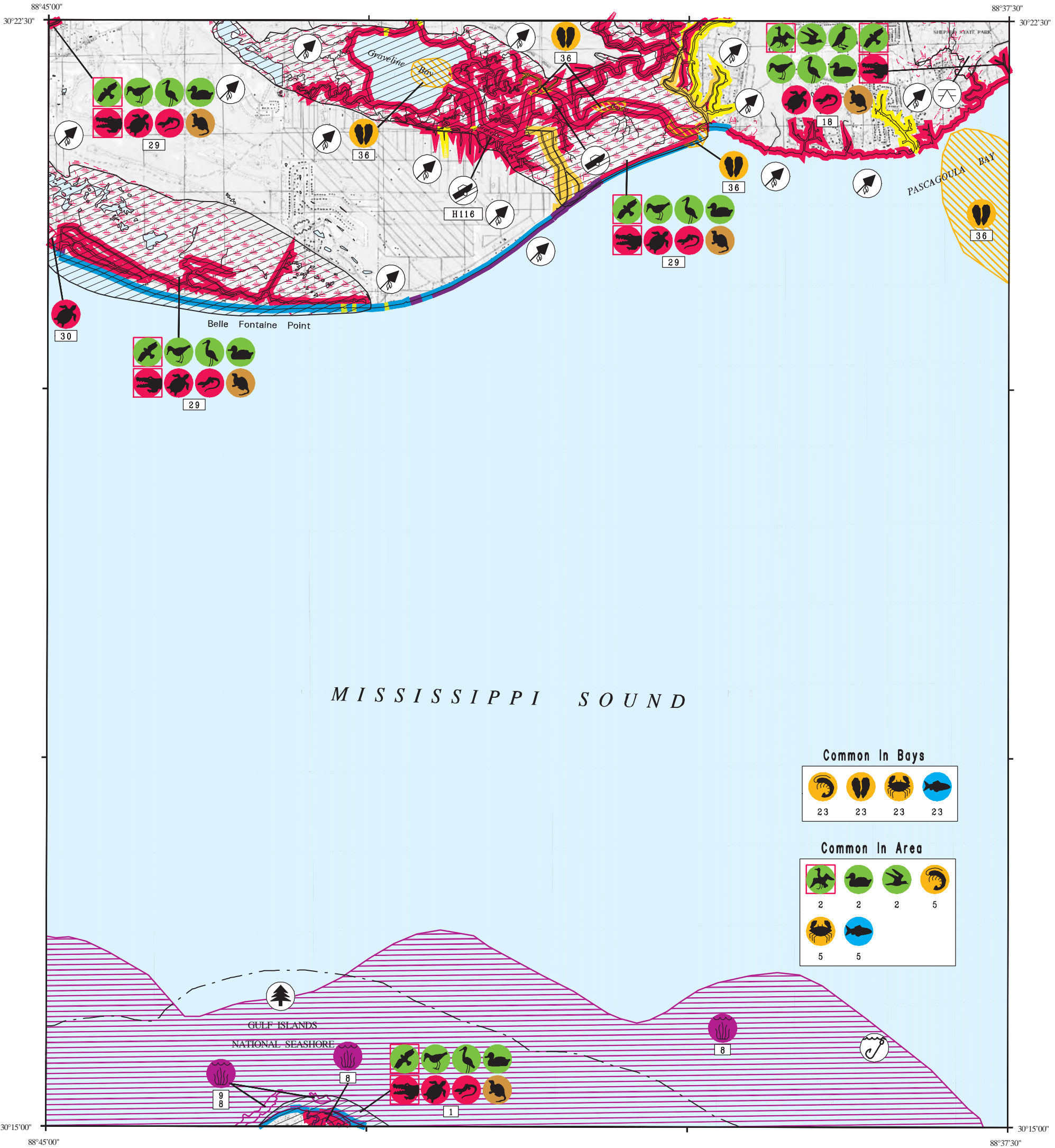
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
6	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
1	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
28	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X

=====

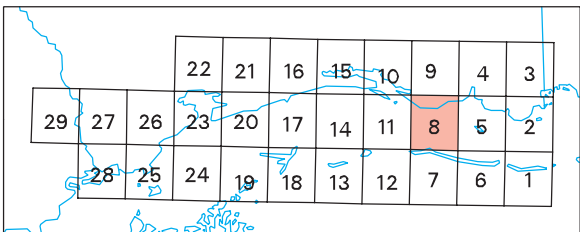
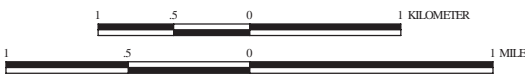
ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration



Not For Navigation
Published: December 1995

GAUTIER SOUTH, MISS.(1982) **MS-8**

MISSISSIPPI - ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging	
1	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-	
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Bald eagle	S/F	T/E		X	X	X	X	X	X	X	X	X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR	
	Black-crowned night heron				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		-	-	-	-	
	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 goldeneye				X	X	X	X					X	X	X		-	-	-	-	
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-	
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG	
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Northern harrier				X	X	X	X					X	X	X	X	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL	
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-	
	Red-breasted merganser				X	X	X	X					X	X	X		-	-	-	-	
	Reddish egret								X	X	X	X	X	X			-	-	-	-	
	Redhead				X	X	X	X					X	X	X		-	-	-	-	
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-	
	Sanderling				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Snow goose				X	X	X	X					X	X	X	X	-	-	-	-	
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG	
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	2	American white pelican				X	X						X	X	X	X		-	-	-	-
		Black skimmer				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
		Brown pelican	S/F	E/E		X	X	X	X	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	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		-	-	-	-	
Horned grebe					X	X	X	X					X	X		-	-	-	-	-	
Laughing gull					X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
Least tern						X	X	X	X	X	X	X	X			-	-	-	-	-	
Lesser scaup					X	X	X	X				X	X	X		-	-	-	-	-	
Pied-billed grebe					X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
Ring-billed gull					X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
Royal tern					X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
Sandwich tern					X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
18		American bittern				X	X	X	X	X			X	X	X	X		-	-	-	-
		American white pelican				X	X						X	X	X	X		-	-	-	-
		Bald eagle	S/F	T/E		X	X	X	X	X	X	X	X	X	X	X		OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
		Black tern					X	X	X	X	X	X	X	X	X		-	-	-	-	-
		Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Bonaparte's gull				X	X	X	X	X				X	X		-	-	-	-	-	
	Brown pelican	S/F	E/E		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		-	-	-	-	
	Caspian tern					X	X	X	X	X	X	X	X			-	-	-	-	-	
	Cattle egret				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X		MAY-AUG	-	-	-	
	Common goldeneye				X	X	X	X					X	X	X		-	-	-	-	
	Common loon				X	X	X	X					X	X	X		-	-	-	-	
	Common moorhen					X	X	X	X	X	X	X	X			-	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Great egret				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-	
	Green-winged teal				X	X	X						X	X	X		-	-	-	-	
	Herring gull				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		-	-	-	-	-	
	Killdeer				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	King rail				X	X	X	X	X	X	X	X	X	X	X		MAY-AUG	-	-	-	
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Least bittern					X	X	X	X	X	X	X	X	X	X		MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG	
	Least tern					X	X	X	X	X	X	X	X			-	-	-	-	-	
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-	
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
Northern gannet				X	X							X	X	X		-	-	-	-		
Northern harrier				X	X	X	X	X				X	X	X		-	-	-	-		
Oldsquaw				X	X	X	X					X	X		-	-	-	-	-		
Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL		
Purple gallinule					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	X	X	X	X	X	X		-	-	-	-		
Royal tern				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-		
Snowy egret				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-		
Sooty tern								X	X	X	X	X	X	X		-	-	-	-		
Tricolored heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-		
White ibis					X	X	X	X	X	X	X	X			-	-	-	-	-		
29	American bittern				X	X	X	X				X	X	X	X		-	-	-	-	
	Bald eagle	S/F	T/E		X	X	X	X	X	X	X	X	X	X	X		OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR	
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Canvasback				X	X	X						X	X	X		-	-	-	-	
	Cattle egret				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Clapper rail				X	X	X	X	X	X	X	X	X	X	X		MAY-AUG	-	-	-	
	Common moorhen					X	X	X	X	X	X	X	X			-	-	-	-	-	
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Great egret				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-	
	Green-winged teal				X	X	X						X	X	X		-	-	-	-	
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-	
	Killdeer				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	King rail				X	X	X	X	X	X	X	X	X	X	X		MAY-AUG	-	-	-	
	Least bittern					X	X	X	X	X	X	X	X	X		MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG		
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-	
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X		MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL	
Purple gallinule					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		-	-	-	-		
Snowy egret				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-		
Tricolored heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-		
White ibis					X	X	X	X	X	X	X	X			-	-	-	-	-		

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv.
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
23	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

[illegible]

MISSISSIPPI - ESIMAP 8 (continued)

BIOLOGICAL RESOURCES (continued):

REPTILE:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
1	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
18	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
29	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
30	Mississippi diamondback terrapin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

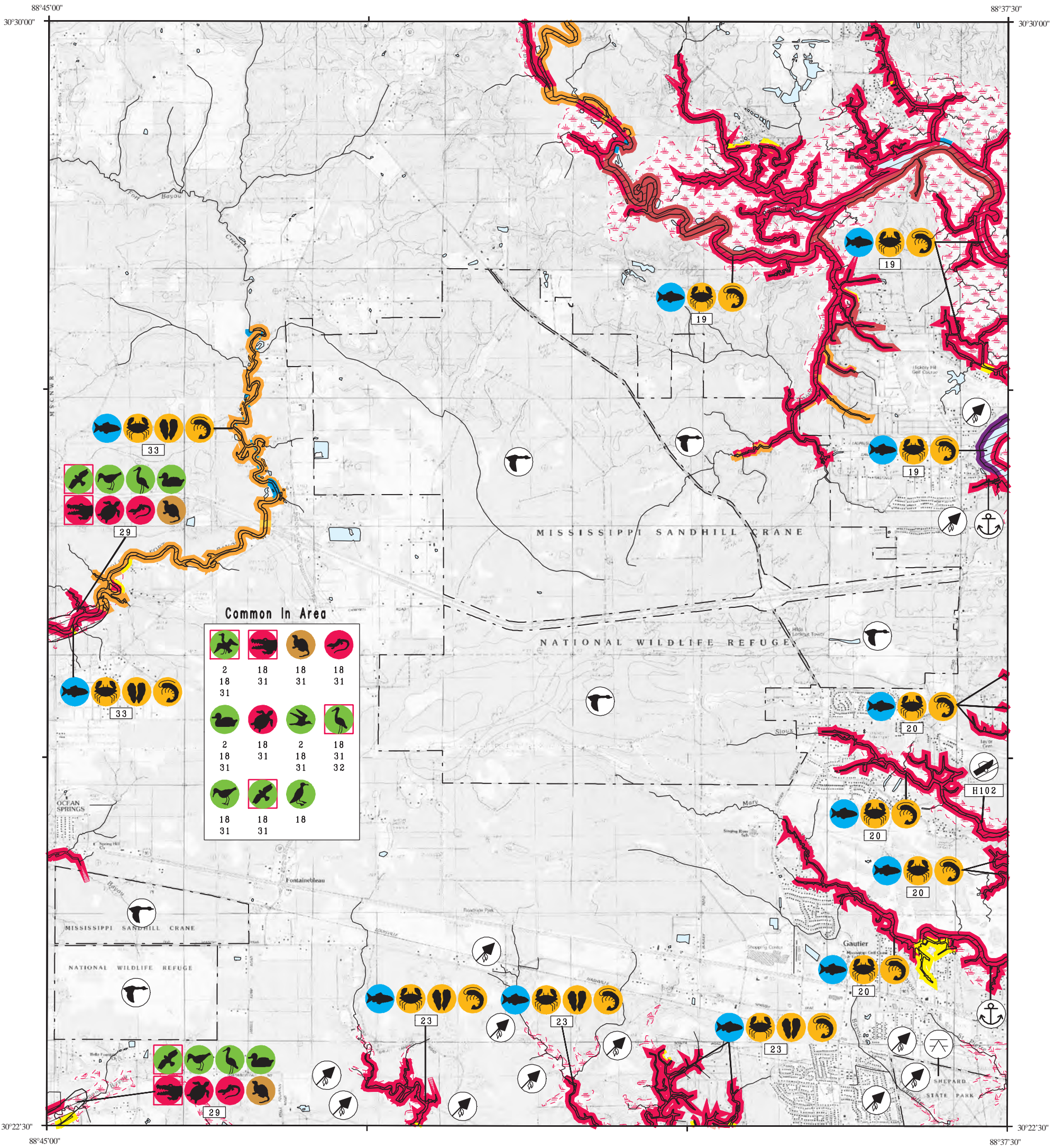
SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
23	Atlantic bay scallop				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	AUG-NOV	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-OCT	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T MAMMAL:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
1	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
18	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
29	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

BOAT_RAMP:	
RAR#	Name
H116	GRAVELINE BAY BOAT LAUNCH

ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI

HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995

W N E S

1 0.5 0 1 KILOMETER
1 0.5 0 1 MILE

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
18	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	American white pelican				X	X							X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black tern					X	X	X	X	X	X	X	X	X			-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bonaparte's gull				X	X	X	X					X	X			-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X						X	X	X		-	-	-	-
	Canvasback				X	X	X						X	X	X		-	-	-	-
	Caspian tern					X	X	X	X	X	X	X	X				-	-	-	-
	Cattle egret				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 goldeneye				X	X	X						X	X	X		-	-	-	-
	Common loon				X	X	X	X					X	X	X	X	-	-	-	-
	Common moorhen					X	X	X	X	X	X	X	X				-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Green-winged teal				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		-	-	-	-
	Horned grebe				X	X	X						X	X			-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least bittern					X	X	X	X	X	X	X	X	X			MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern gannet				X	X							X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X					X	X	X	X	-	-	-	-
	Oldsquaw				X	X	X						X	X			-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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		-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty tern						X	X	X	X	X		X				-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
29	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				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				-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Green-winged teal				X	X	X						X	X	X		-	-	-	-
	Hooded merganser				X	X	X						X	X	X		-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	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				MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Lesser scaup				X	X	X						X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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		-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
31	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				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 loon				X	X	X	X					X	X	X		-	-	-	-
	Common moorhen					X	X	X	X	X	X	X	X				-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Green-winged teal				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		-	-	-	-
	Horned grebe				X	X	X						X	X			-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least bittern					X	X	X	X	X	X	X	X				MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X						X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X</														

MISSISSIPPI - ESIMAP 9 (continued)

BIOLOGICAL RESOURCES (continued):

REPTILE:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
18	American alligator	F	T		X	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	-	-	-	
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-	
29	American alligator	F	T		X	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	-	-	-	
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-	
31	American alligator	F	T		X	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	-	-	-	
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-	

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
23	Atlantic bay scallop				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	AUG-NOV	-
	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	Stone crab				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-OCT	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
33	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	MAR-DEC	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

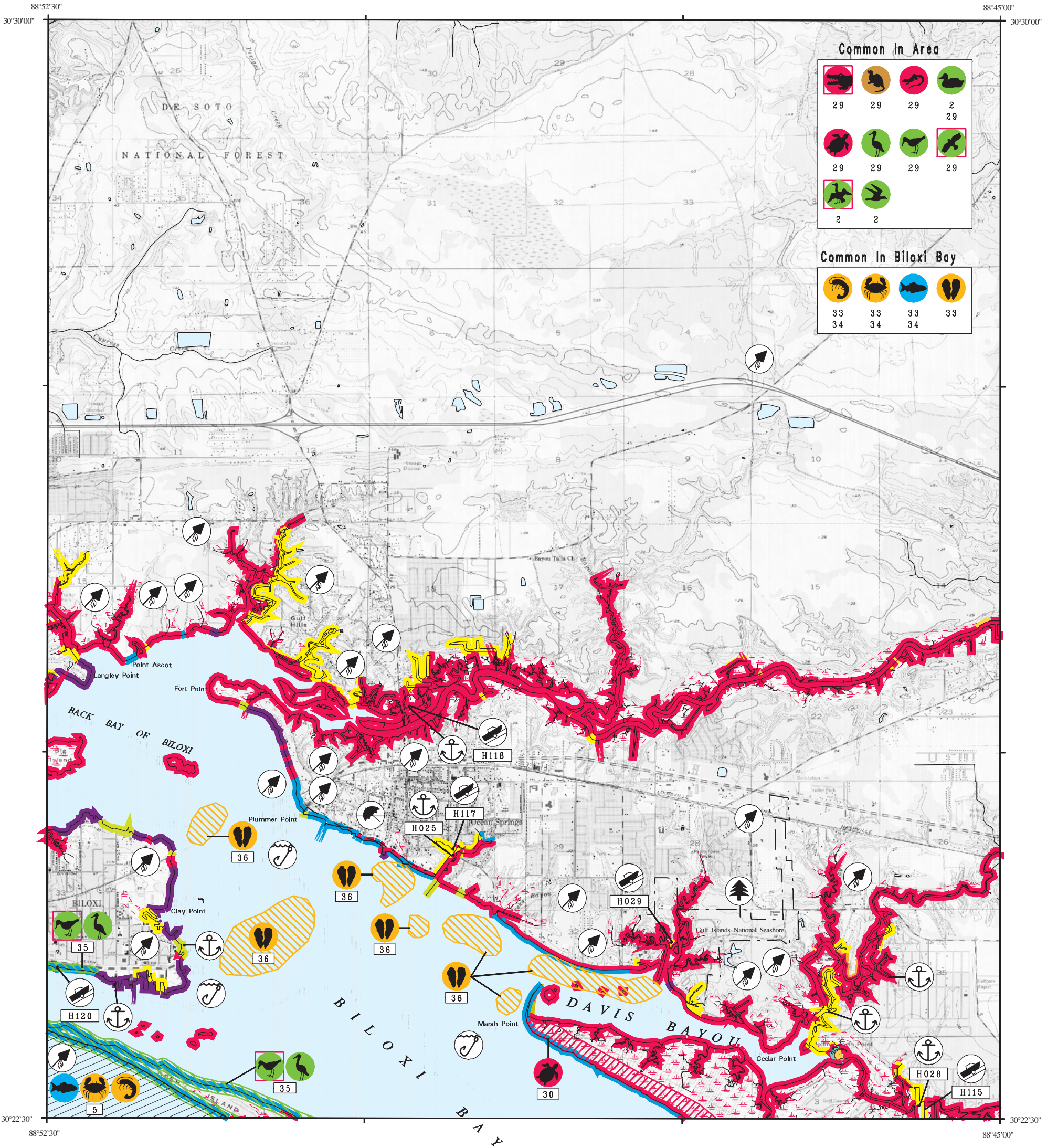
T MAMMAL:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
18	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
29	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
31	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

=====

HUMAN USE RESOURCES:

BOAT_RAMP:	
RAR#	Name
H102	SIOUX BAYOU FISHING CAMP

ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI

HAZARDOUS MATERIALS RESPONSE
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W N E S

1 5 0 1 KILOMETER
1 5 0 1 MILE

MISSISSIPPI - ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
29	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				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		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-
	Green-winged teal				X	X	X						X	X	X		-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	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		MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Lesser scaup				X	X	X						X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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		-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X	X	X		-	-	-	-
35	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
33	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
34	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
29	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
30	Mississippi diamondback terrapin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
33	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	MAR-DEC	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
34	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
29	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

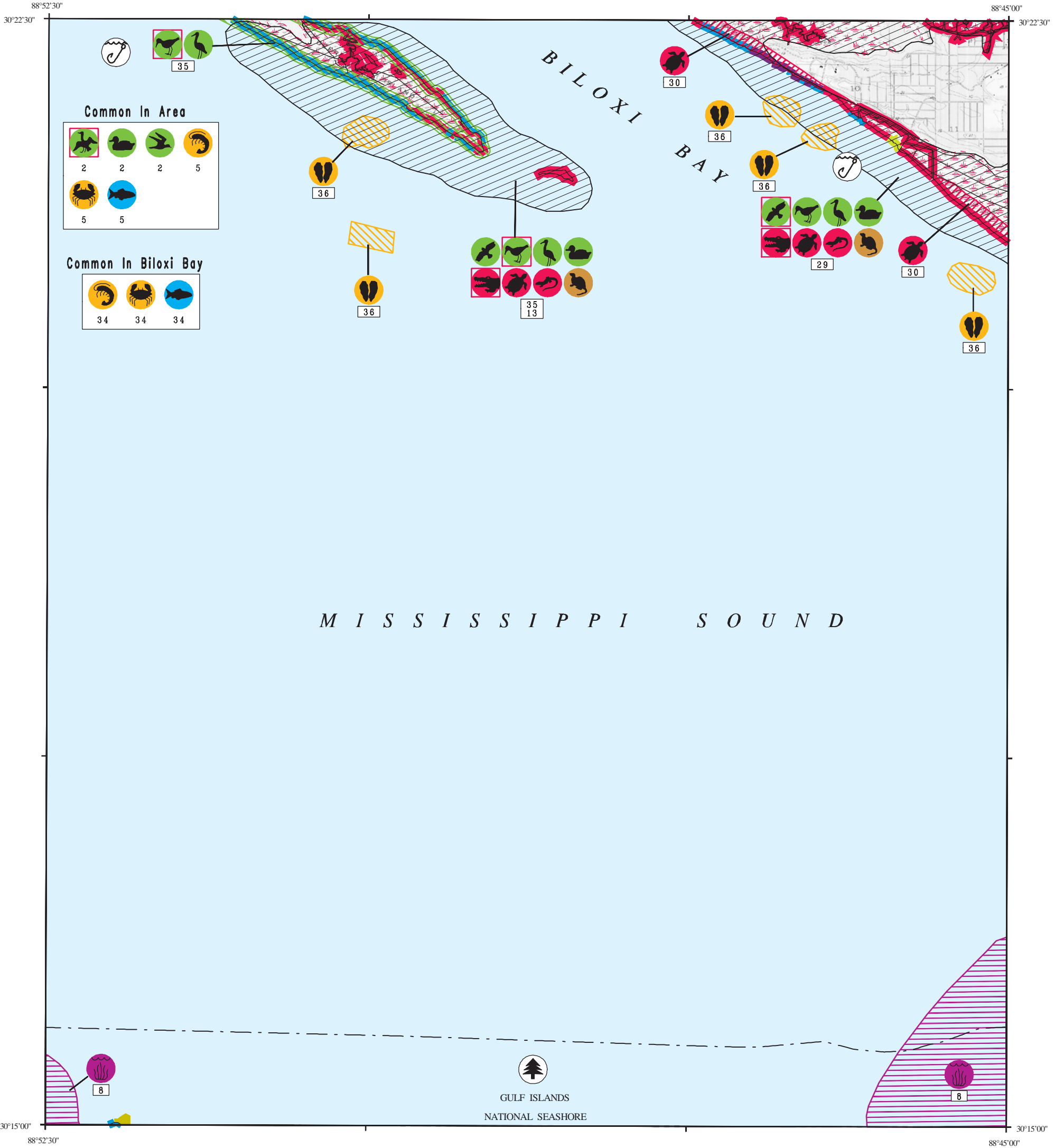
BOAT RAMP:

RAR#	Name
H029	GULF ISLANDS NATIONAL SEASHORE BOAT RAMP
H115	BLUE HERON BOAT RAMP
H117	OCEAN SPRINGS MARINA MART BOAT RAMP
H118	FORT BAYOU BRIDGE LAUNCH
H120	KUHN STREET RAMP

MARINA:

RAR#	Name
H025	OCEAN SPRINGS MARINA MART
H028	BLUE HERON MARINA

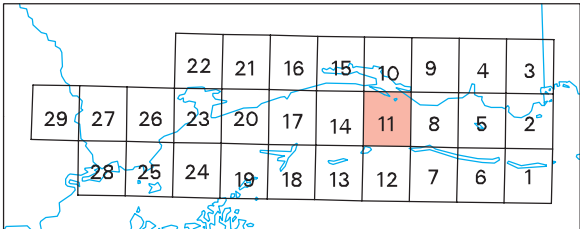
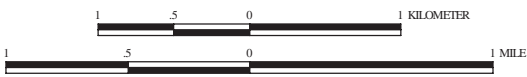
ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI



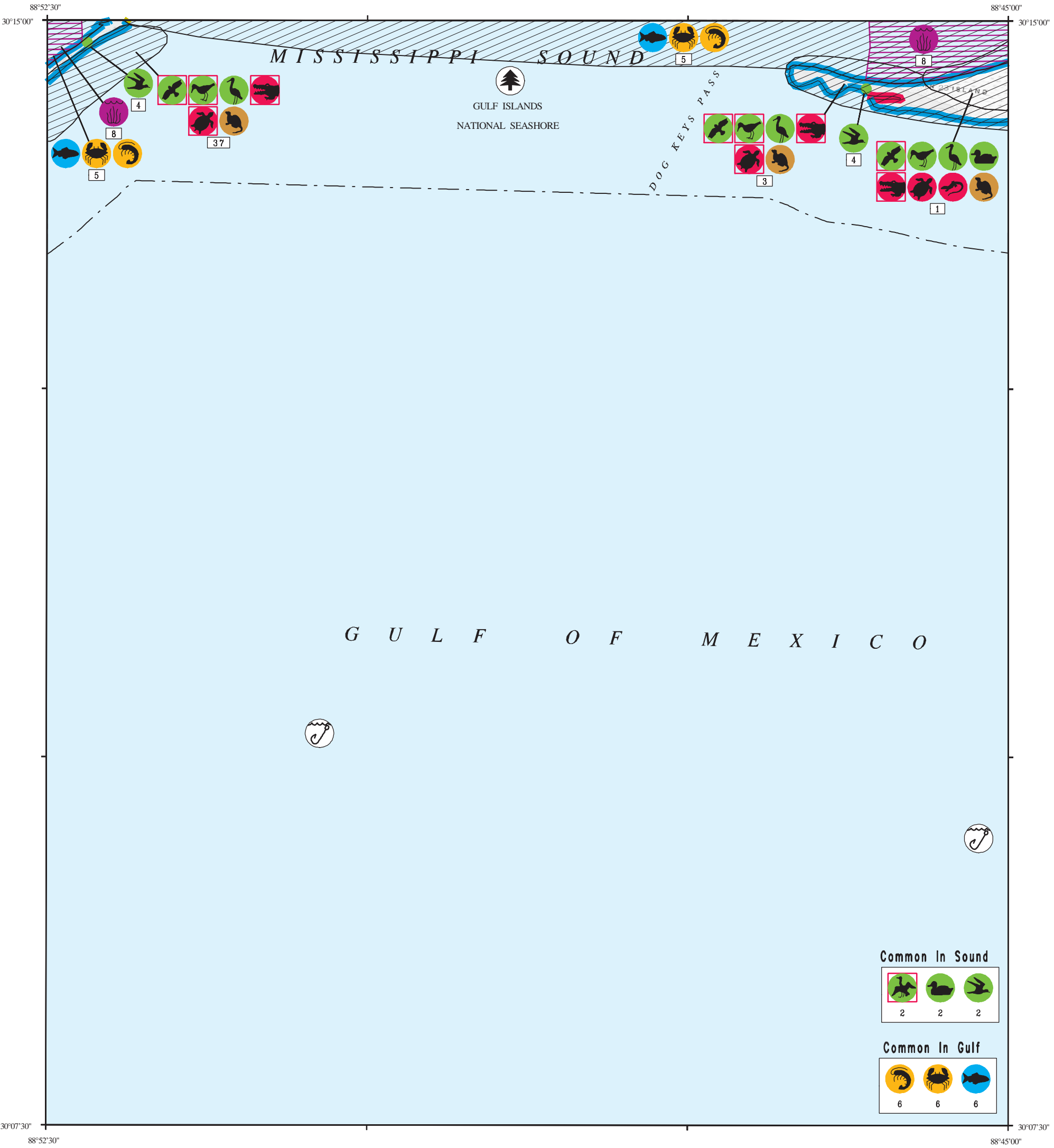
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National Oceanic and Atmospheric Administration



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DEER ISLAND, MISS.(1970) MS-11

ENVIRONMENTAL SENSITIVITY INDEX MAP

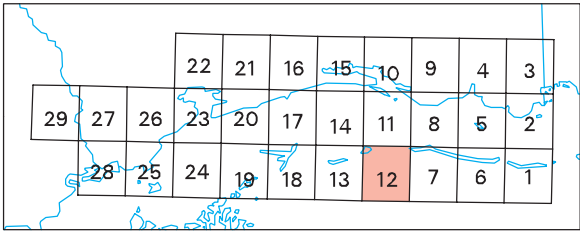
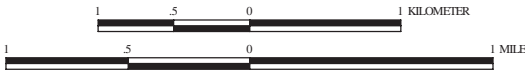


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HAZARDOUS MATERIALS RESPONSE
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MISSISSIPPI - ESIMAP 12

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
1	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X						X	X	X		-	-	-	-
	Canvasback				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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern harrier				X	X	X	X					X	X	X		-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Red-breasted merganser				X	X	X	X					X	X	X		-	-	-	-
	Reddish egret								X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X		-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X					X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
3	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-
4	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Least tern					X	X	X	X	X	X	X	X				APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP
37	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Gulf of Mexico assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
8	Seagrass			VERY SPARS	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
1	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
3	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	E/T	MED		X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
37	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	E/T	LOW		X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

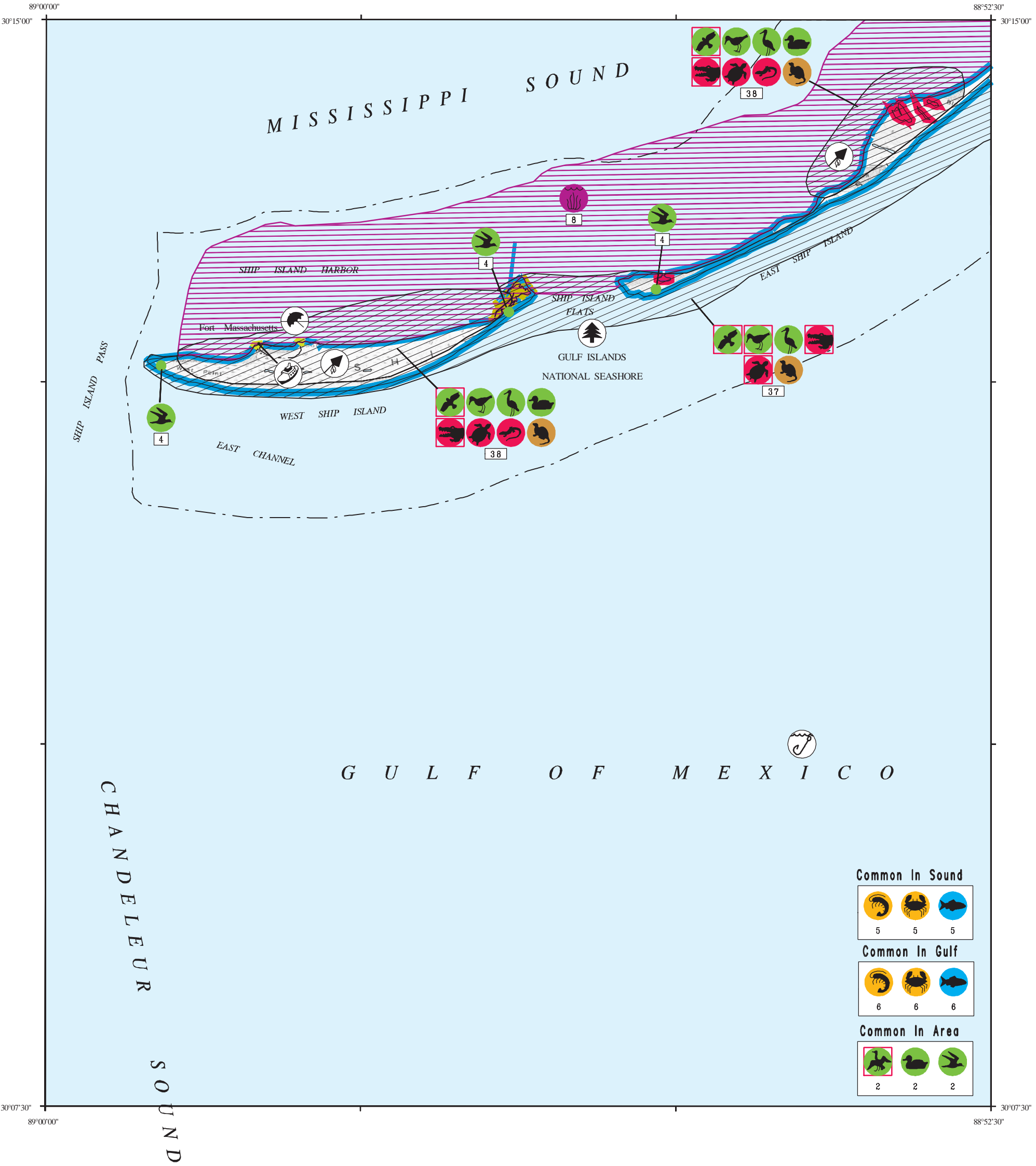
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
6	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
1	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
3	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
37	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X

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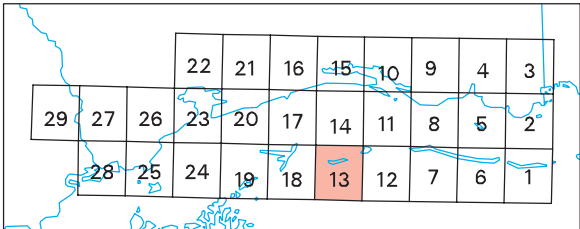
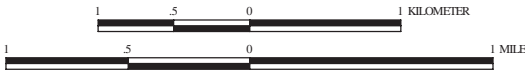
ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration



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MISSISSIPPI - ESIMAP 13

BIOLOGICAL RESOURCES:

BIRD:																					
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging	
2	American white pelican				X	X							X	X	X	X	-	-	-	-	
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	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	-	-	-	-	
	Horned grebe				X	X	X	X					X	X			-	-	-	-	
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-	
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-	
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
4	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP	
	Least tern					X	X	X	X	X	X	X					APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP	
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP	
37	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	MAY-AUG	JUN-AUG	JUN-SEP	
	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL	
	Peregrine falcon	F	E		X	X	X	X					X	X	X		-	-	-	-	
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-	
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG	
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG	
	Wilson's plover					X	X	X	X	X	X	X	X	X			-	-	-	-	
	38	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
		Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
Black-crowned night heron					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		-	-	-	-	
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 goldeneye					X	X	X	X					X	X	X		-	-	-	-	
Great blue heron					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Great egret					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Green-backed heron					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Hooded merganser					X	X	X	X					X	X	X		-	-	-	-	
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-AUG	MAY-JUN	JUN-JUL	JUN-AUG	
Little blue heron					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Northern harrier					X	X	X	X					X	X	X		-	-	-	-	
Osprey					X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL	
Peregrine falcon		F	E		X	X	X	X					X	X	X		-	-	-	-	
Red-breasted merganser					X	X	X	X					X	X	X		-	-	-	-	
Reddish egret									X	X	X	X	X				-	-	-	-	
Redhead					X	X	X	X					X	X	X		-	-	-	-	
Ring-necked duck					X	X	X	X					X	X	X		-	-	-	-	
Sanderling					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Snow goose					X	X	X	X					X	X	X	X	-	-	-	-	
Snowy egret					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Tricolored heron					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Willet					X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG	
Yellow-crowned night heron					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Gulf of Mexico assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
8	Seagrass			VERY SPARS	X	X	X	X	X	X	X	X	X	X	X	X

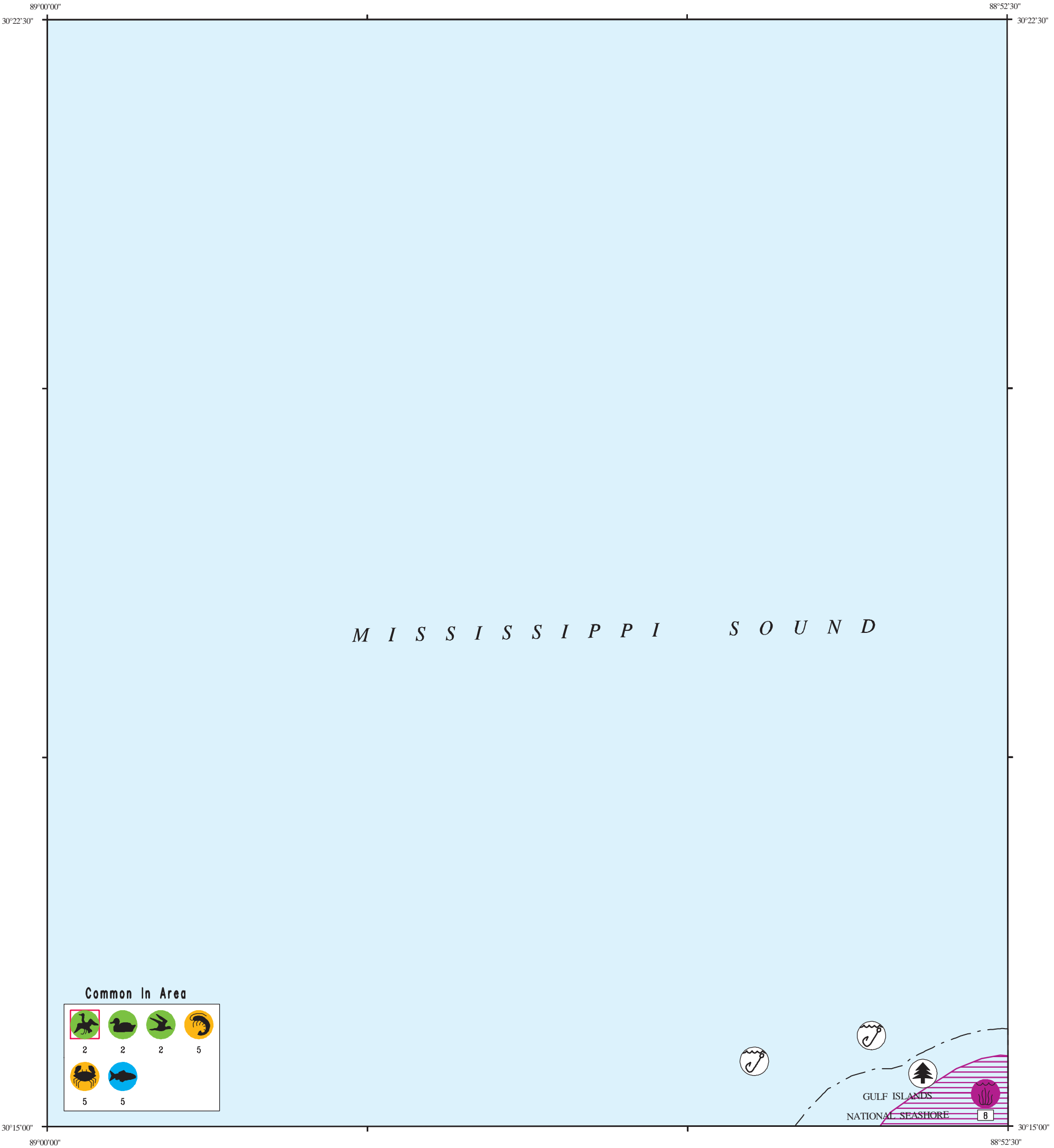
REPTILE:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
37	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	E/T	LOW		X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
38	American alligator	F	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf salt marsh snake				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-


SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
6	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
37	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
38	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X


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ENVIRONMENTAL SENSITIVITY INDEX MAP

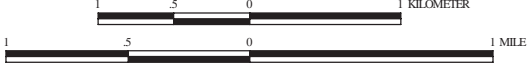



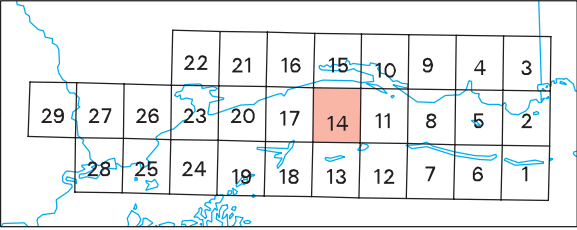


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
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National Oceanic and Atmospheric Administration





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BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	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	-	-	-	-
	Horned grebe				X	X	X	X						X	X		-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X	X			-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

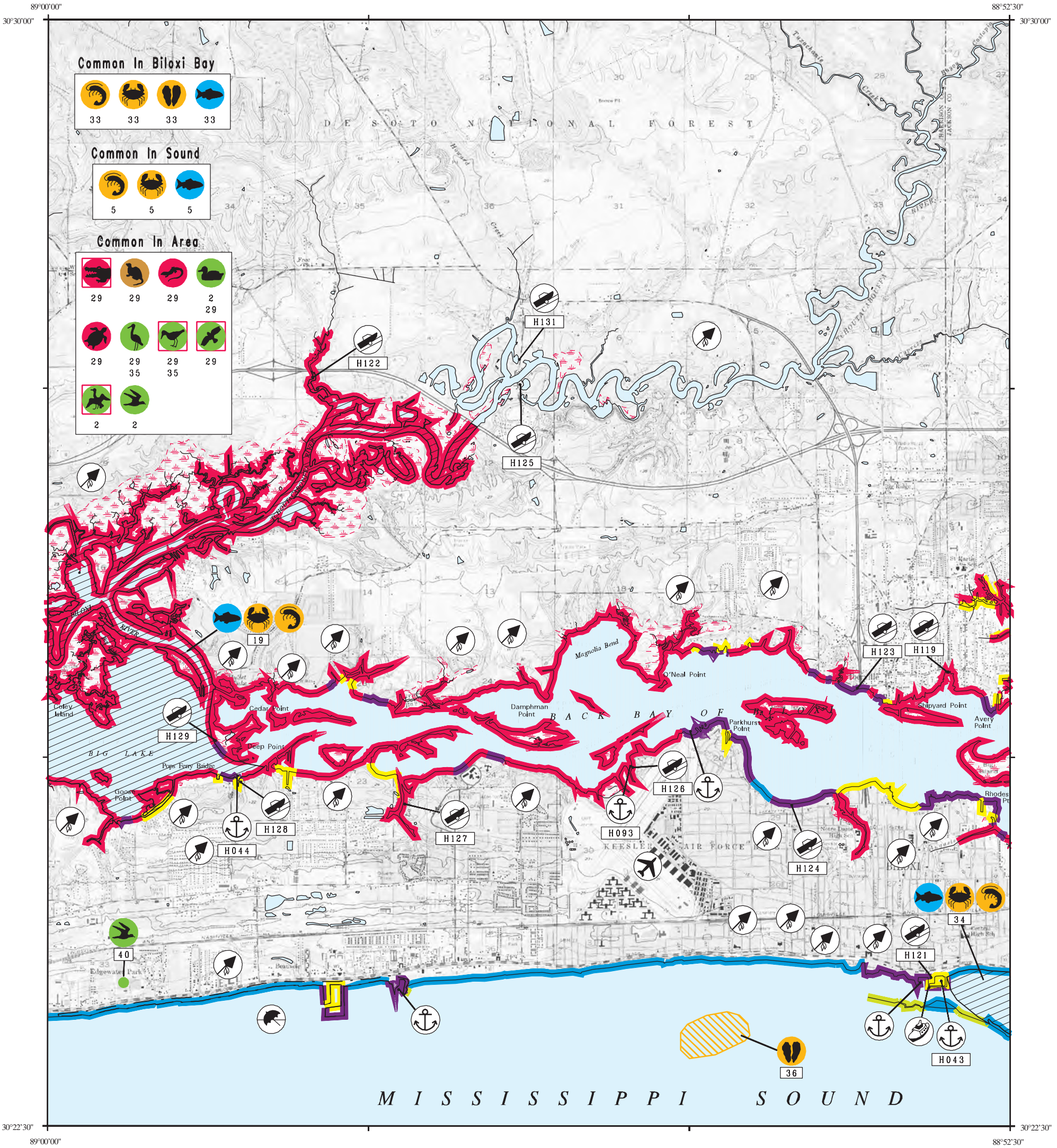
FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
8	Seagrass			VERY SPARS	X	X	X	X	X	X	X	X	X	X	X	X

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

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ENVIRONMENTAL SENSITIVITY INDEX MAP

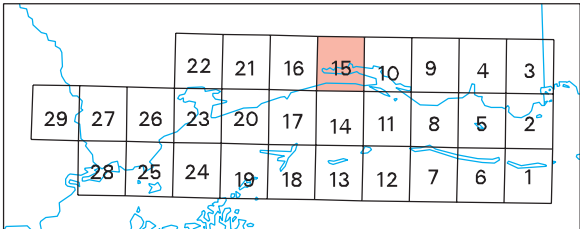
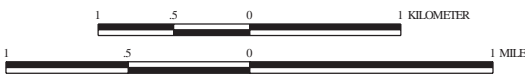


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995



MISSISSIPPI - ESIMAP 15

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Horned grebe				X	X	X						X	X			-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
29	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	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				-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Green-winged teal				X	X	X						X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	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				MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					X	X	X	X	X	X	X	X	X			-	-	-	-
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
35	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-
40	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X					-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
19	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
33	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
34	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
29	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
33	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brackishwater clam				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	MAR-DEC	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
34	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
29	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

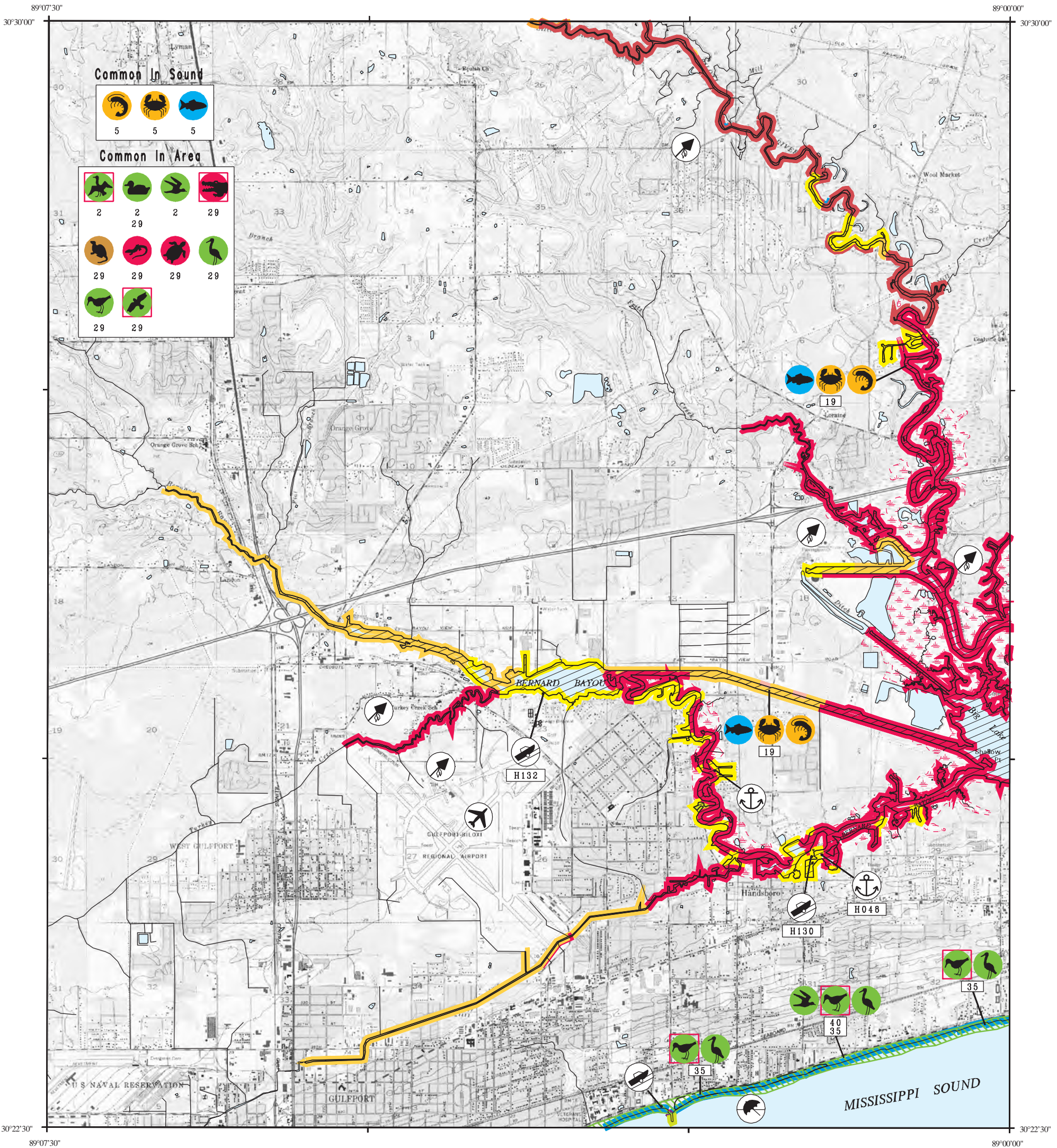
BOAT_RAMP:

RAR#	Name
H119	BEACH BAYOU LANDING
H121	BILOXI SMALL CRAFT HARBOR BOAT RAMP
H122	PARKER'S CREEK LAUNCH
H123	D'IBERVILLE BOAT LAUNCH
H124	FORREST AVE BOAT RAMP
H125	LI'L JOE'S BAIT CAMP BOAT RAMP
H126	KEESLER AIR FORCE BASE BOAT RAMP
H127	HILLER PARK BOAT RAMP
H128	POPS FERRY FISHING CAMP BOAT RAMP
H129	POPP'S FERRY CAUSEWAY LAUNCH
H131	CEDAR LAKE ROAD BOAT RAMP

MARINA:

RAR#	Name
H043	BILOXI SMALL CRAFT HARBOR
H044	POPPS FERRY FISHING CAMP MARINA
H093	KEESLER AIR FORCE BASE MARINA

ENVIRONMENTAL SENSITIVITY INDEX MAP

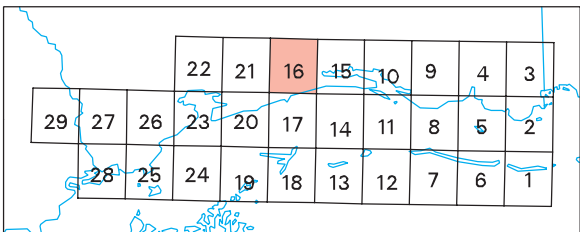
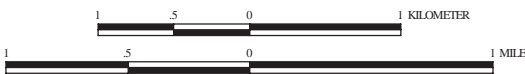


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
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MISSISSIPPI - ESIMAP 16

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
29	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Blue-winged teal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Canvasback				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			-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X		-	-	-	-
	Green-winged teal				X	X	X						X	X	X		-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Lesser scaup				X	X	X						X	X	X		-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mottled duck				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Purple gallinule					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		-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	White ibis					X	X	X	X	X	X	X	X				-	-	-	-
35	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-
40	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
19	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
29	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
29	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

=====

HUMAN USE RESOURCES:

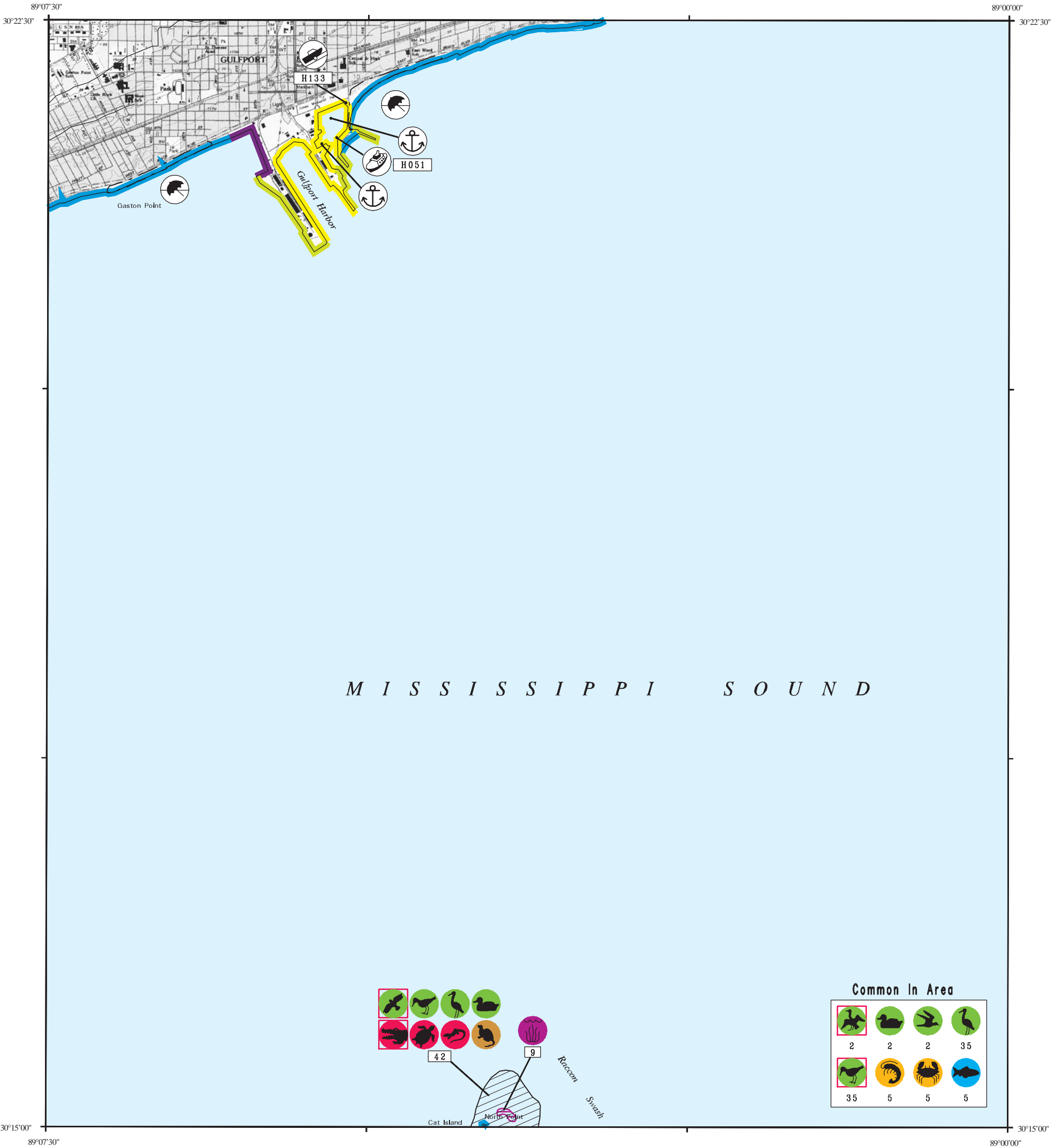
BOAT RAMP:

RAR#	Name
H130	KREMER MARINE BOAT RAMP
H132	GULFPORT LAKE

MARINA:

RAR#	Name
H048	KREMER MARINE

ENVIRONMENTAL SENSITIVITY INDEX MAP

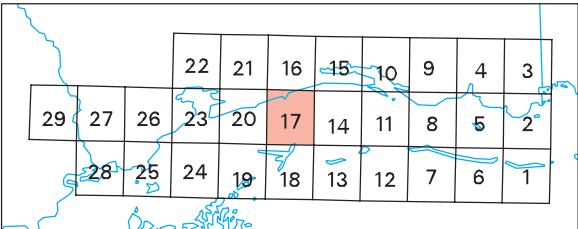
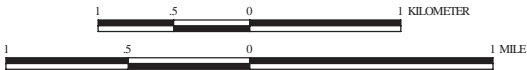


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Published: December 1995



MISSISSIPPI - ESIMAP 17

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X					X	X	X	X	-	-	-	-
	Greater scaup				X	X	X						X	X	X		-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
35	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-
42	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X						X	X	X		-	-	-	-
	Canvasback				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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X		-	-	-	-
	Red-breasted merganser				X	X	X	X					X	X	X		-	-	-	-
	Reddish egret						X	X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X		-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X					X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
9	Seagrass			SPARSE	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
42	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
42	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

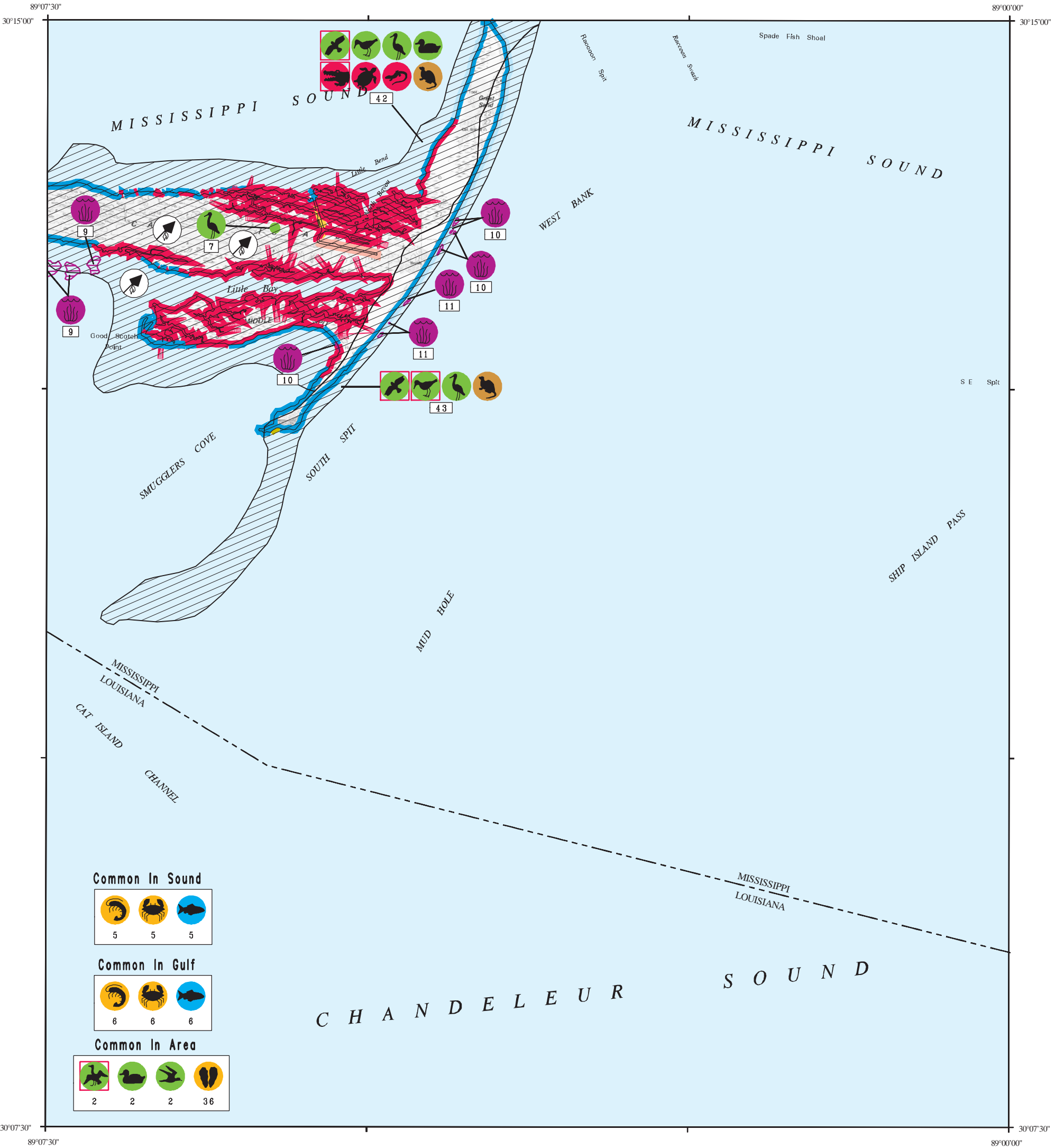
BOAT_RAMP:

RAR#	Name
H133	BERT JONES PARK BOAT LAUNCH

MARINA:

RAR#	Name
H051	BERT JONES YACHT HARBOR

ENVIRONMENTAL SENSITIVITY INDEX MAP

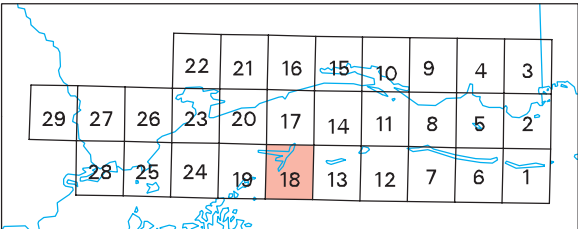
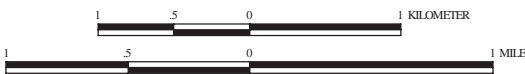


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BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	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	-	-	-	-
	Horned grebe				X	X	X	X					X	X			-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
7	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
42	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				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		-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Red-breasted merganser				X	X	X						X	X	X		-	-	-	-
	Reddish egret						X	X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X		-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X					X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
43	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X				-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Gulf of Mexico assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
9	Seagrass			SPARSE	X	X	X	X	X	X	X	X	X	X	X	X
10	Seagrass			MODERATE	X	X	X	X	X	X	X	X	X	X	X	X
11	Seagrass			CONTINUOUS	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
42	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

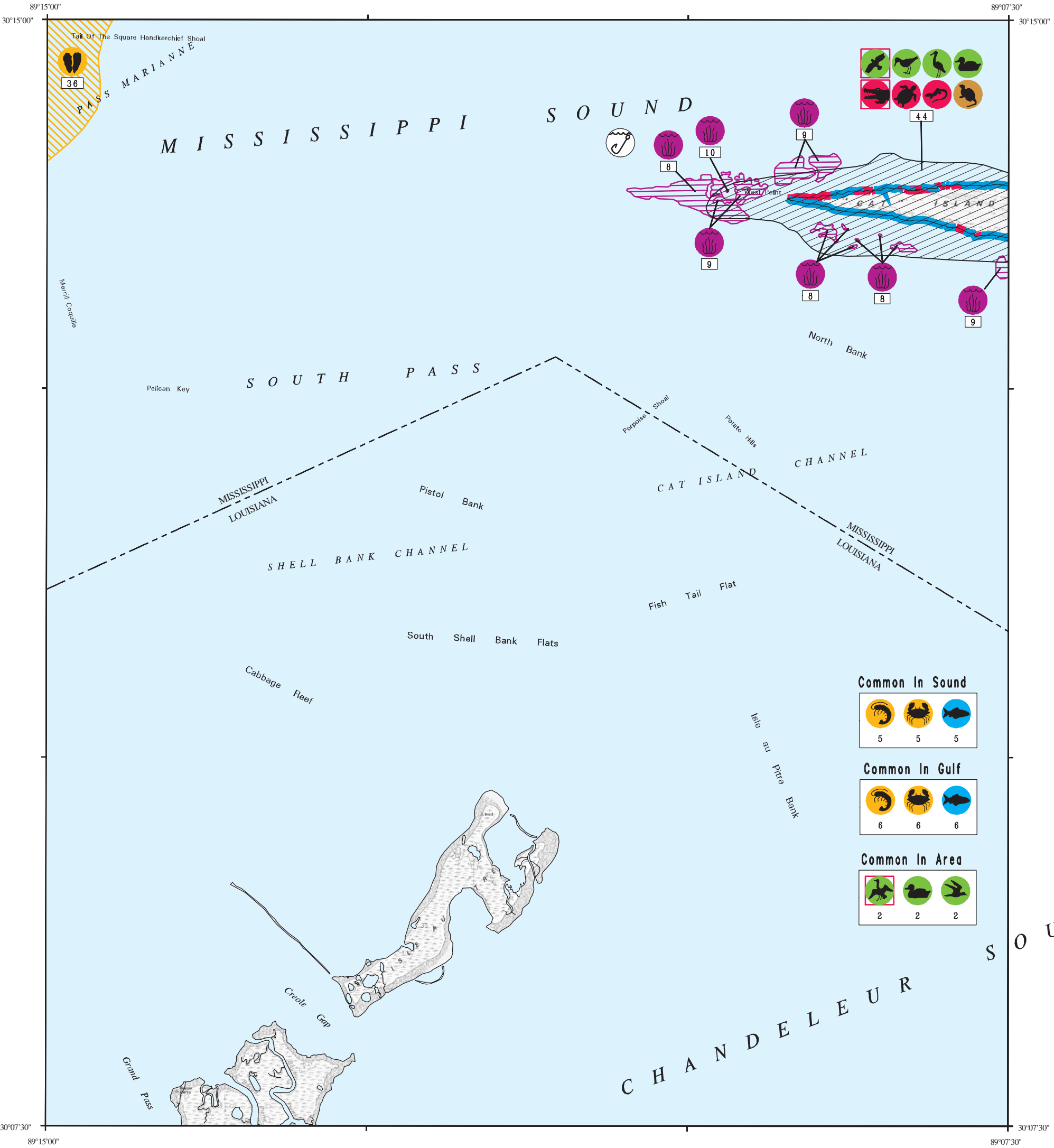
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
6	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp					X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
42	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
43	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X

=====

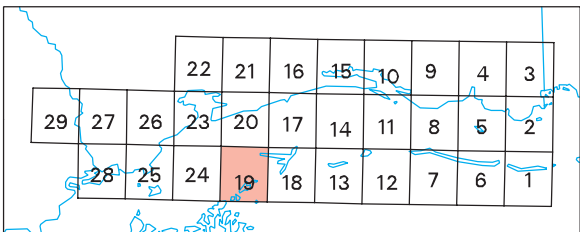
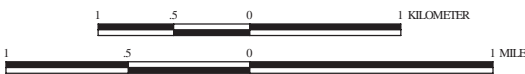
ENVIRONMENTAL SENSITIVITY INDEX MAP



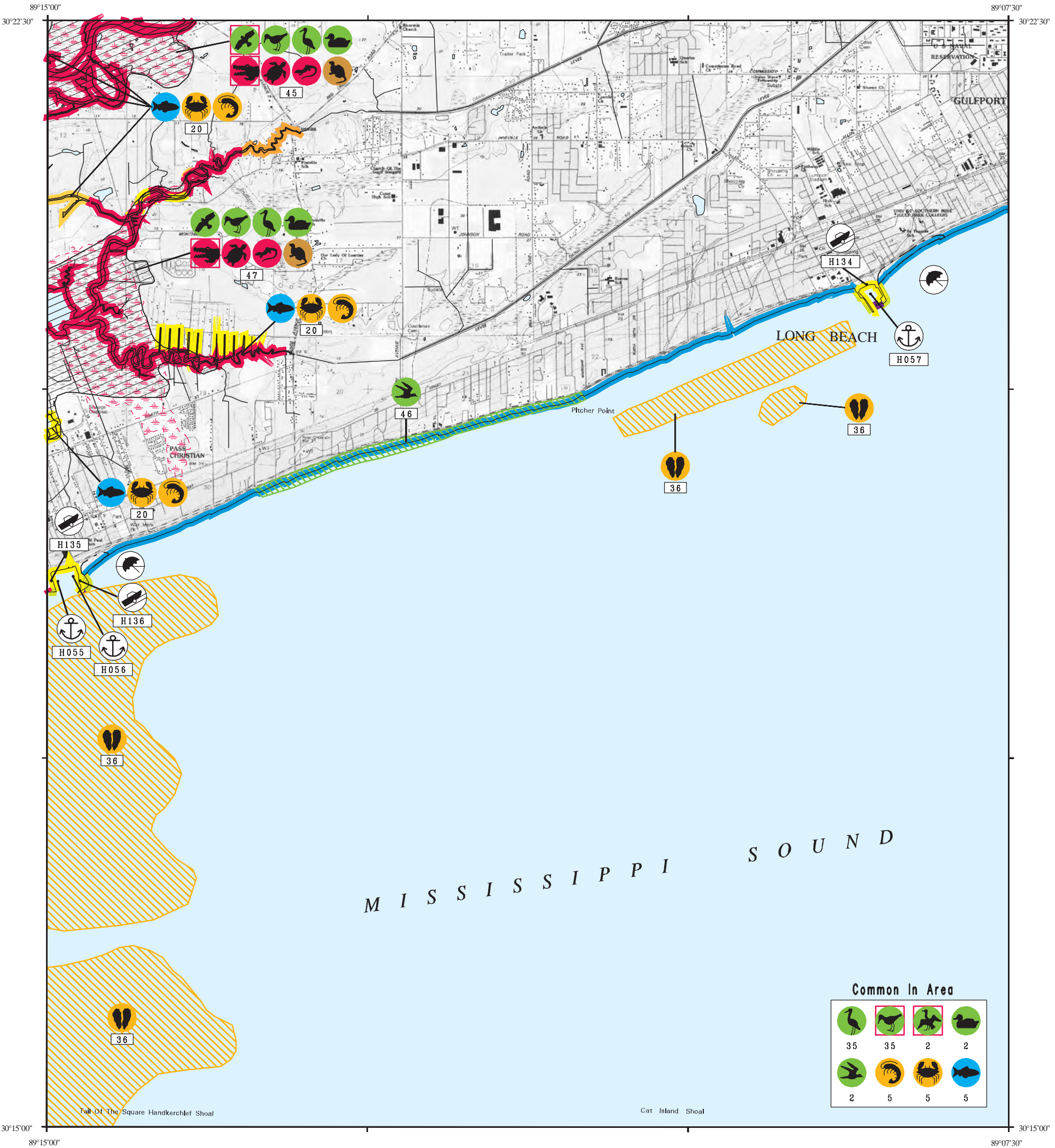
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National Oceanic and Atmospheric Administration



ENVIRONMENTAL SENSITIVITY INDEX MAP

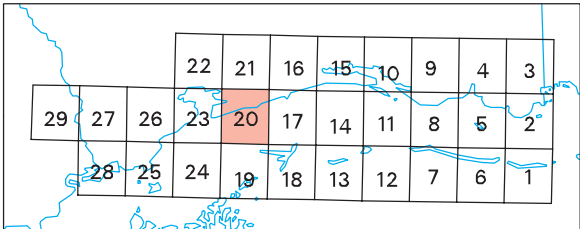
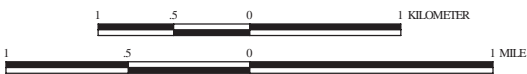


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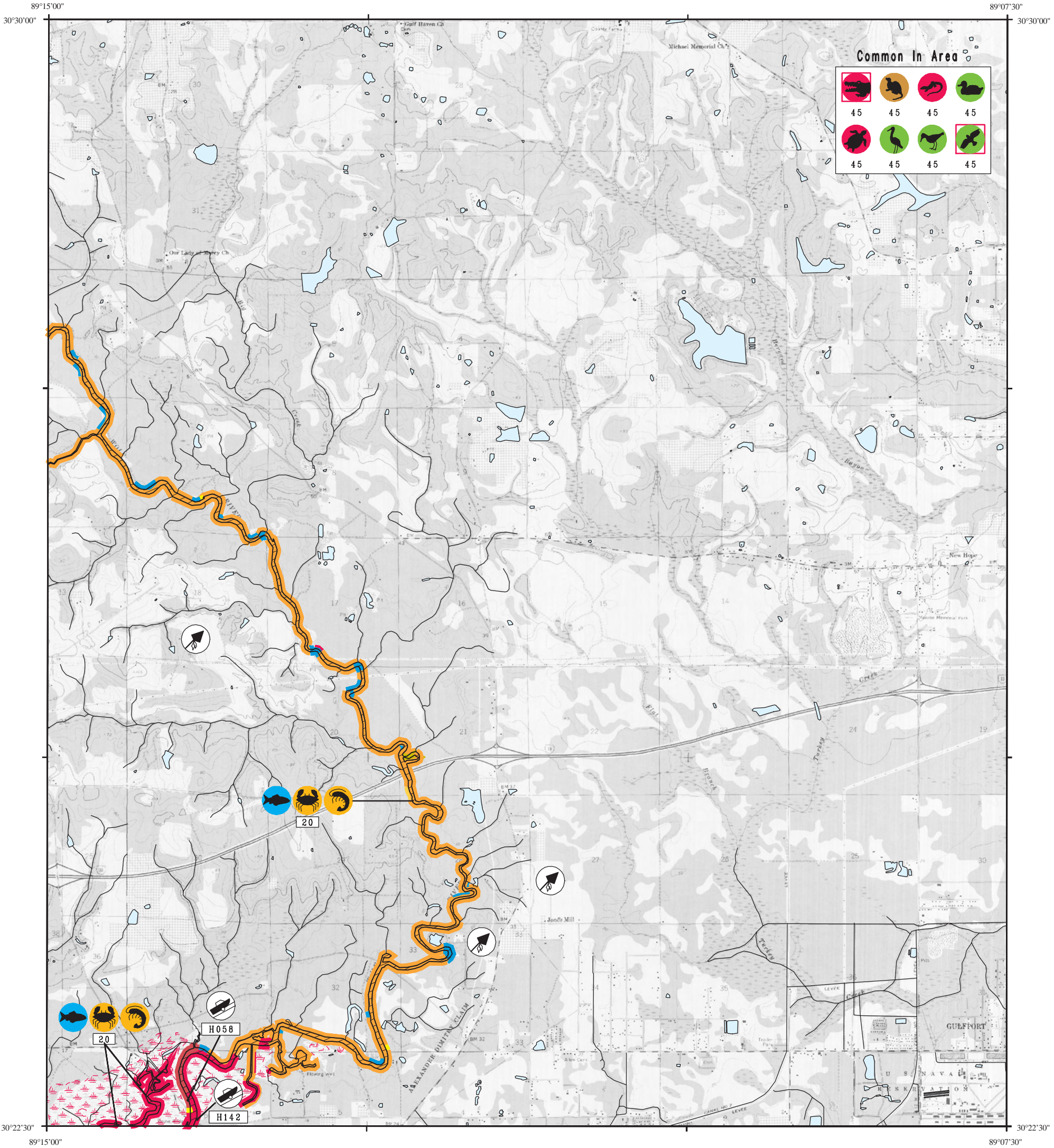


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ENVIRONMENTAL SENSITIVITY INDEX MAP



Common In Area

45	45	45	45
45	45	45	45

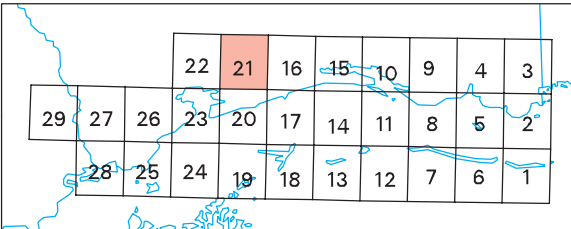
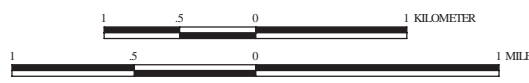


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BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
45	American bittern				X	X	X	X	X				X	X	X	X	-	-	-	-
	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X	X			X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				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		-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X		-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Red-breasted merganser				X	X	X	X					X	X	X		-	-	-	-
	Reddish egret								X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X		-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X					X	X	X		-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
45	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
45	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

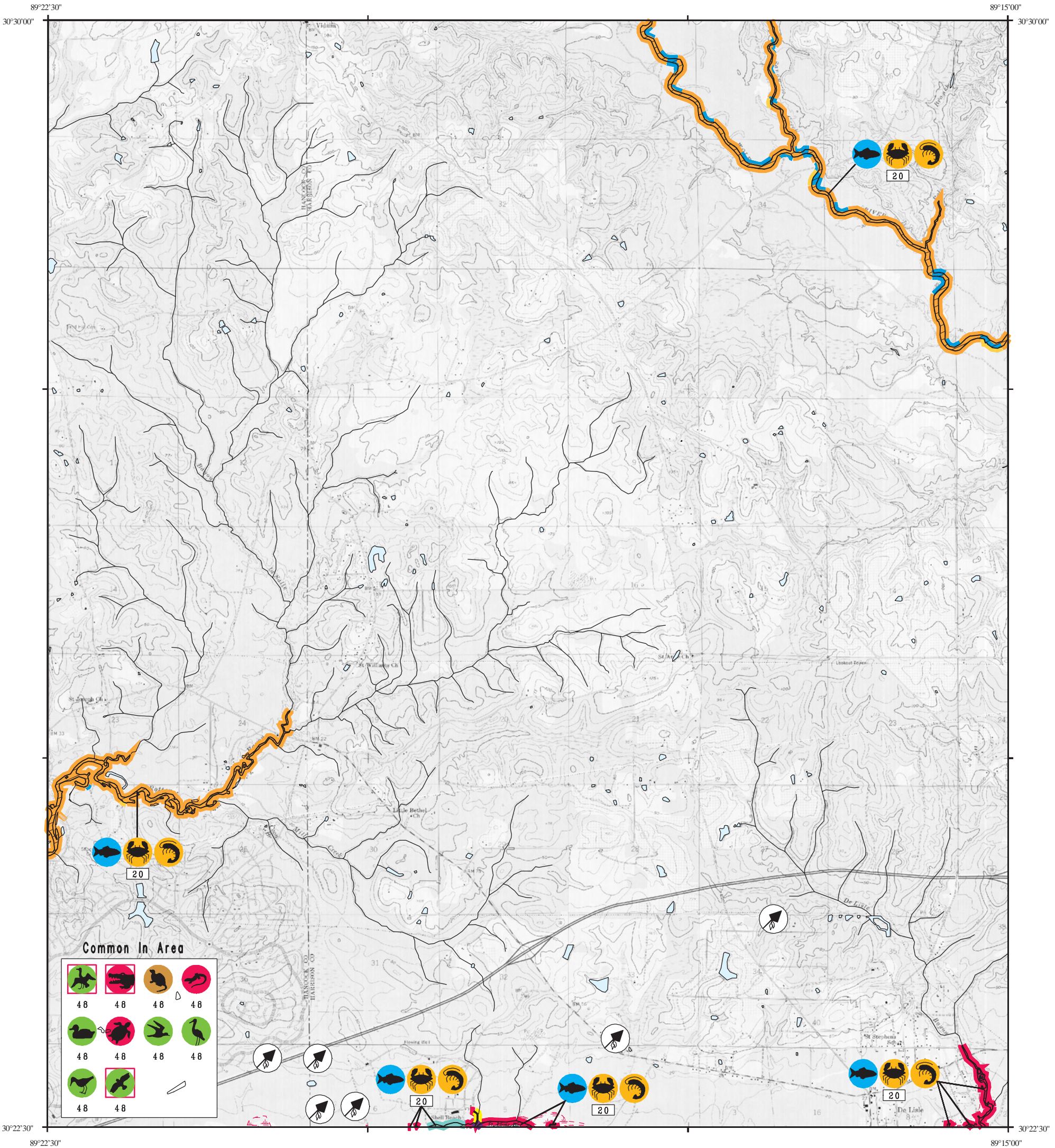
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HUMAN USE RESOURCES:

BOAT_RAMP:

RAR#	Name
H058	RIVERSIDE BOAT RAMP
H142	FIVE STAR RESORT BOAT RAMP

ENVIRONMENTAL SENSITIVITY INDEX MAP

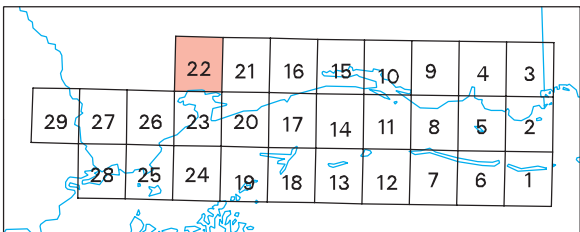
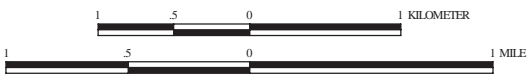


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HAZARDOUS MATERIALS RESPONSE
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VIDALIA, MISS.(1976) MS-22

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
48	American bittern				X	X	X	X	X				X	X	X	X	-	-	-	-
	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	American white pelican				X	X							X	X	X	X	-	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black rail				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X					X	X	X	X	-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X				X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	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	X	-	-	-	-
	Horned grebe				X	X	X	X					X	X	X	X	-	-	-	-
	King rail				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least bittern					X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Least tern					X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	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	X	-	-	-	-
	Reddish egret						X	X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X	X				X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow rail				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
48	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

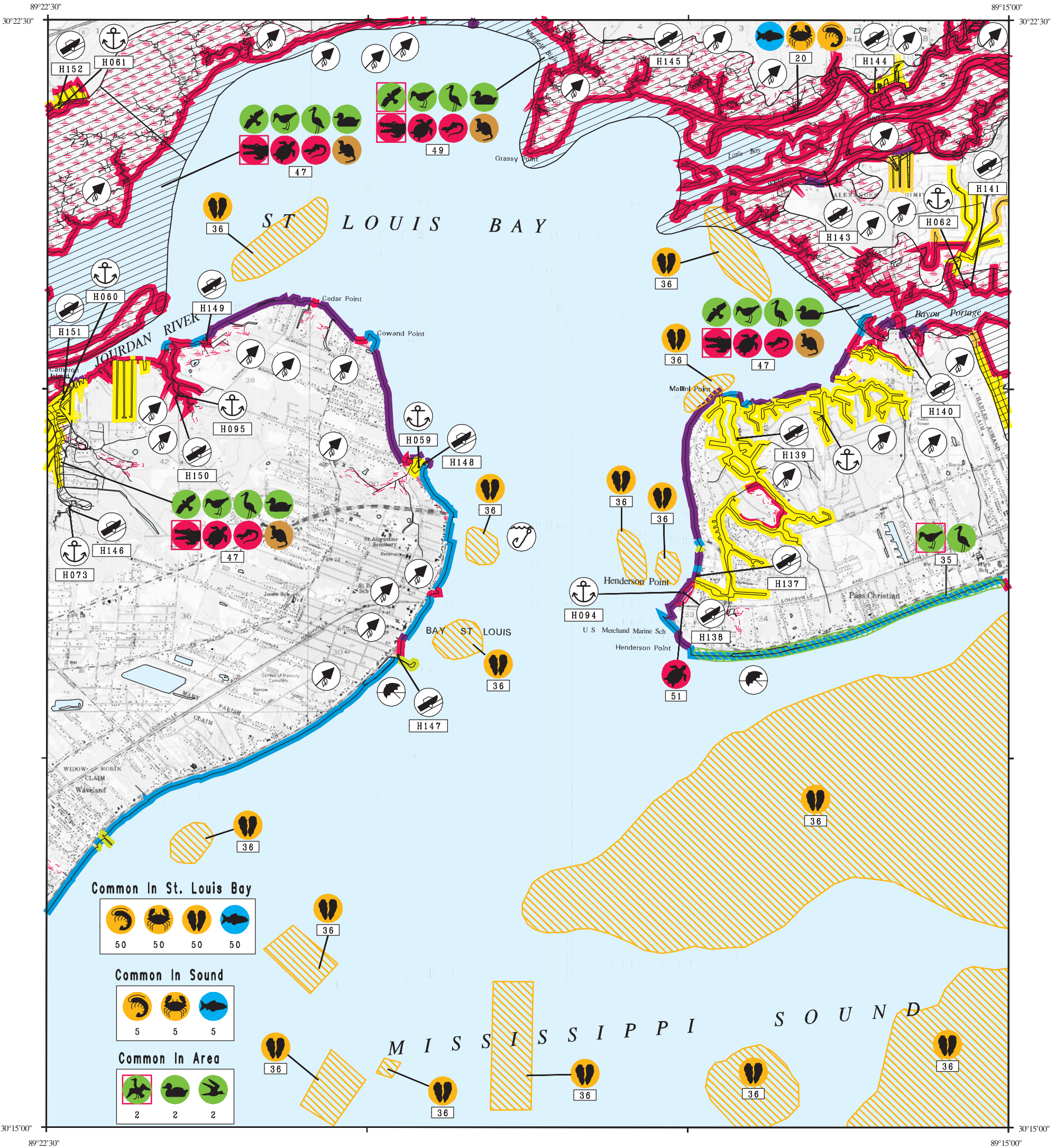
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
48	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X

=====

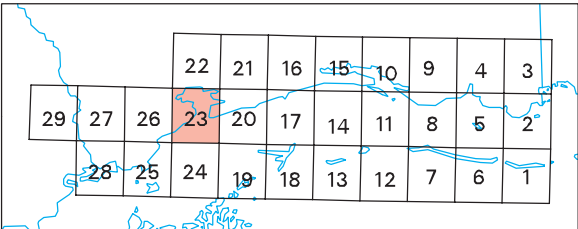
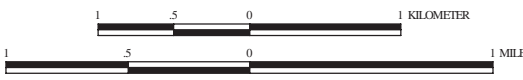
ENVIRONMENTAL SENSITIVITY INDEX MAP



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MISSISSIPPI - ESIMAP 23

BIOLOGICAL RESOURCES:

BIRD:

[illegible]

FISH:

RAR#	Species	S/F T/E Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv.
5	Mississippi Sound assemblage (see pg. 5)		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
50	Mississippi bays assemblage (see pg. 5)		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interinteresting
47	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
49	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-
51	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-
50	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	Southern quahog (hard clam)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

[illegible]

MISSISSIPPI - ESIMAP 23 (continued)

HUMAN USE RESOURCES:

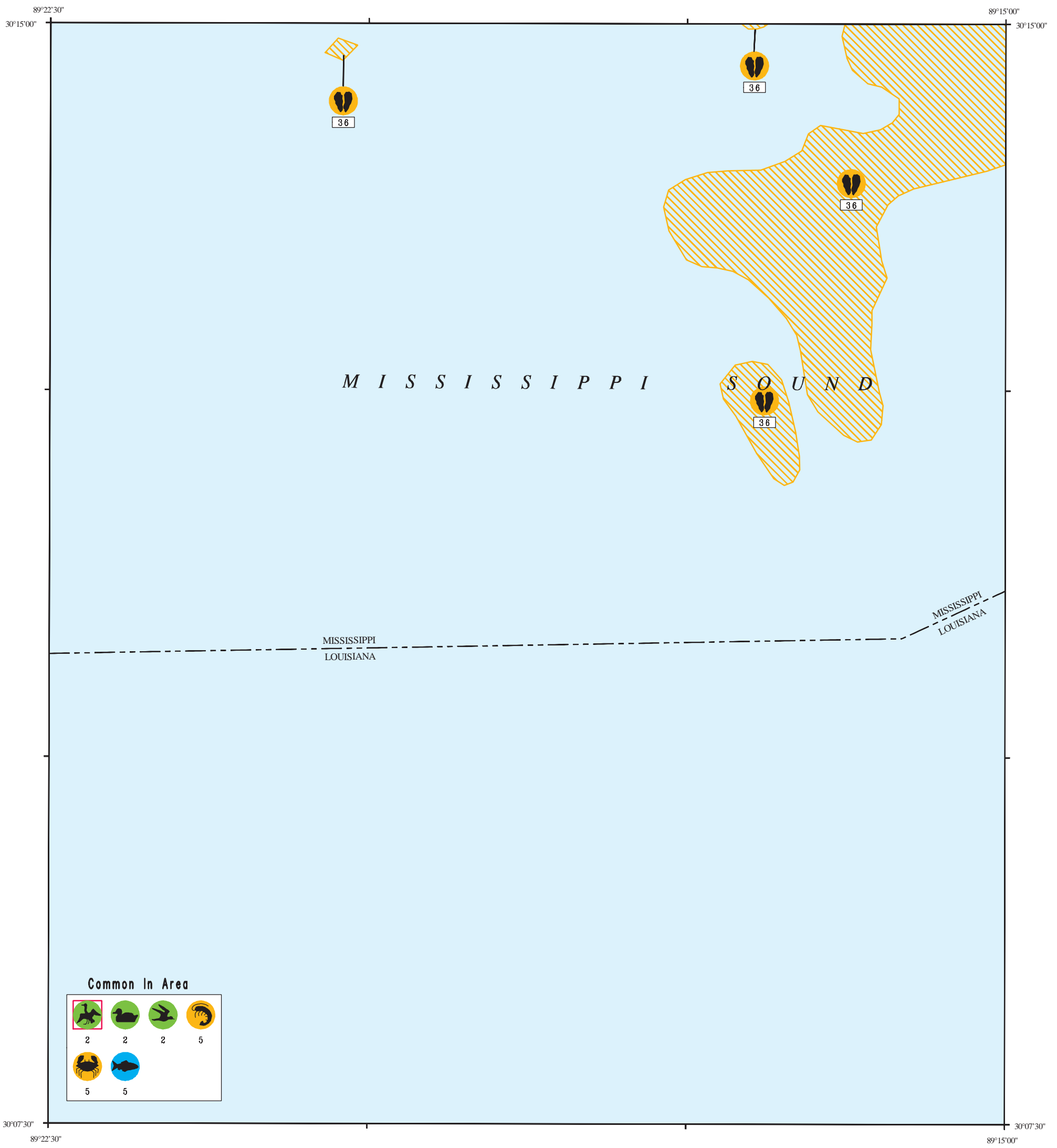
BOAT RAMP:

RAR#	Name
H137	HENDERSON POINT BOAT RAMP
H138	BAYVIEW MARINA BOAT RAMP
H139	TIMOER RIDGE BOAT RAMP
H140	CLAM STREET RAMP
H141	DISCOVERY BAY BOAT RAMP
H143	WOLF RIVER LAUNCH
H144	L & A CONTRACTING BOAT RAMP
H145	DU PONT RECREATION AREA BOAT RAMP
H146	BAY MARINA BOAT RAMP
H147	AMERICAN LEGION BOAT LAUNCH
H148	BAY WAVELAND YACHT CLUB BOAT RAMP
H149	CEDAR POINT BOAT RAMP
H150	JOE'S MARINA AND BAIT CAMP BOAT RAMP
H151	JOURDAN RIVER MARINA BOAT RAMP
H152	DIAMONDHEAD MARINA BOAT RAMP

MARINA:

RAR#	Name
H059	BAY WAVELAND YACHT CLUB
H060	JOURDAN RIVER MARINA
H061	DIAMONDHEAD MARINA
H062	DISCOVERY BAY MARINA
H073	BAY MARINA
H094	BAYVIEW MARINA
H095	JOE'S MARINA AND BAIT CAMP

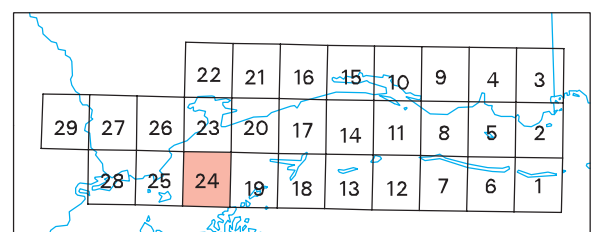
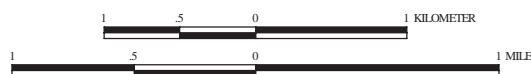
ENVIRONMENTAL SENSITIVITY INDEX MAP



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MS-24

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	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	-	-	-	-
	Horned grebe				X	X	X	X					X	X	X		-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

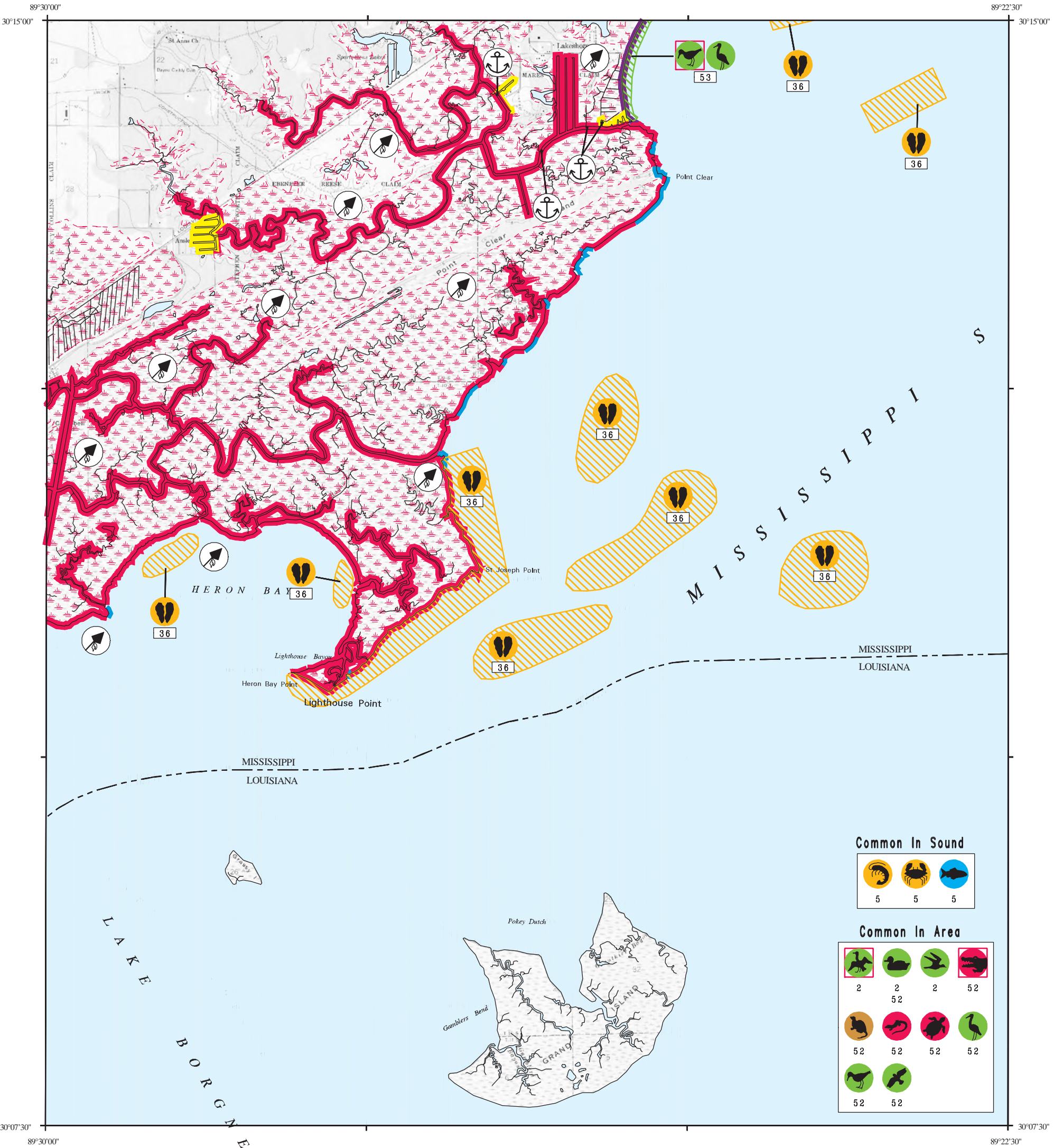
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

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ENVIRONMENTAL SENSITIVITY INDEX MAP

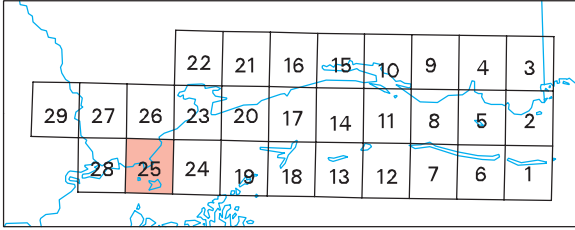
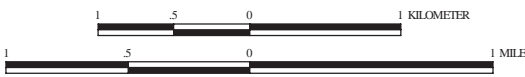


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MISSISSIPPI - ESIMAP 25

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
52	American bittern				X	X	X	X					X	X	X	X	-	-	-	-
	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X					X	X	X	X	-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X	X	-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Reddish egret							X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X	X				X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
53	American oystercatcher			HIGH	X	X	X						X	X			-	-	-	-
	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Wilson's plover					X	X	X	X	X	X	X	X	X			-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
52	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

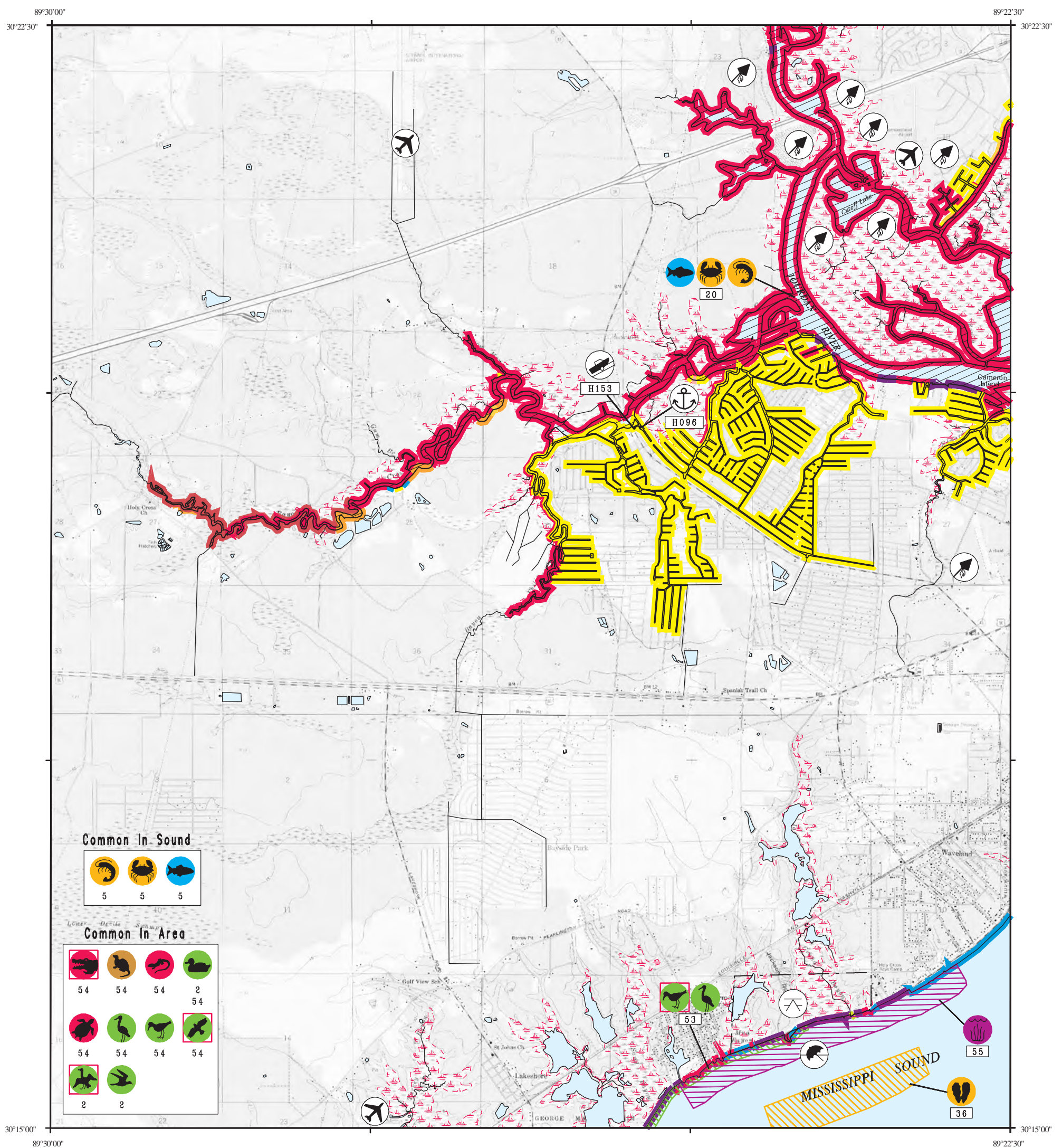
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
52	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Wild hog				X	X	X	X	X	X	X	X	X	X	X	X

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ENVIRONMENTAL SENSITIVITY INDEX MAP

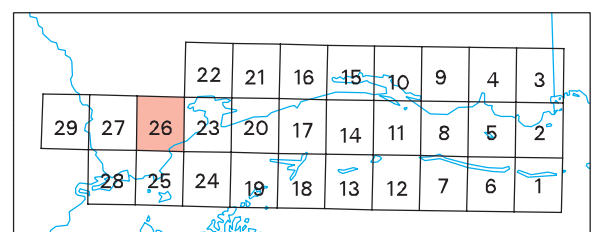
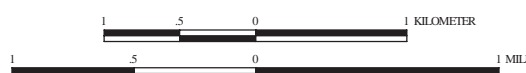


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995



MISSISSIPPI - ESIMAP 26

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	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	-	-	-	-
	Horned grebe				X	X	X						X	X			-	-	-	-
	Laughing gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X		-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
53	American oystercatcher			HIGH	X	X	X						X	X			-	-	-	-
	Black-bellied plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	F	T		X	X	X						X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Semipalmated plover				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover	S	E		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
54	Wilson's plover				X	X	X	X	X	X	X	X	X	X			-	-	-	-
	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X					X	X	X		OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Bufflehead				X	X	X						X	X	X		-	-	-	-
	Canvasback				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 goldeneye				X	X	X						X	X	X		-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X						X	X	X		-	-	-	-
	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		MAY-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Peregrine falcon	F	E		X	X	X	X					X	X	X		-	-	-	-
	Red-breasted merganser				X	X	X	X					X	X	X		-	-	-	-
	Reddish egret							X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X		-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X		-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X					X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

HABITAT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
55	Seagrass				X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
54	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
36	American oyster (eastern)				X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	APR-DEC	-

T MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
54	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Wild hog				X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

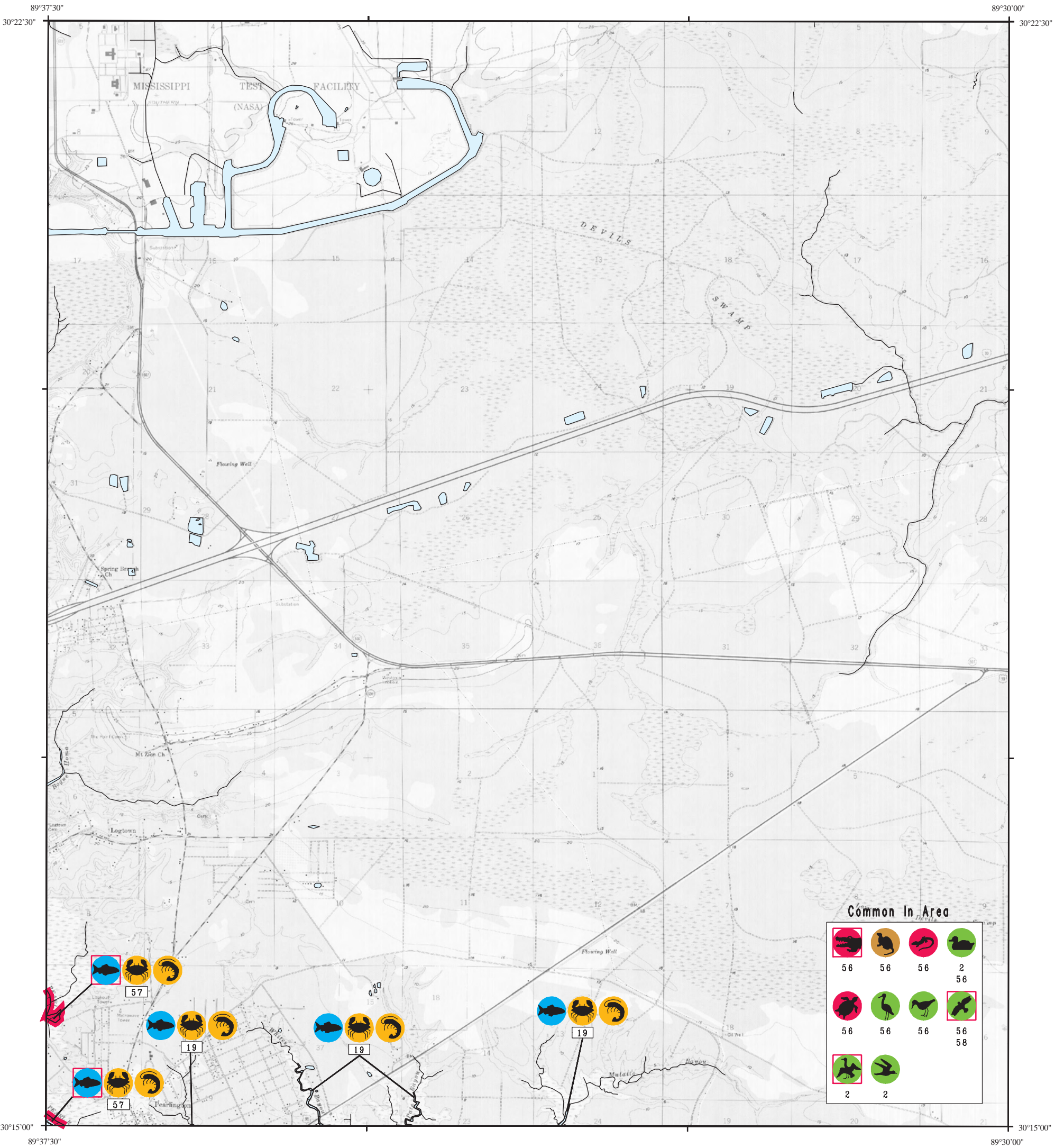
BOAT RAMP:

RAR#	Name
H153	BAYOU LA CROIX MARINA BOAT RAMP

MARINA:

RAR#	Name
H096	BAYOU LA CROIX MARINA

ENVIRONMENTAL SENSITIVITY INDEX MAP

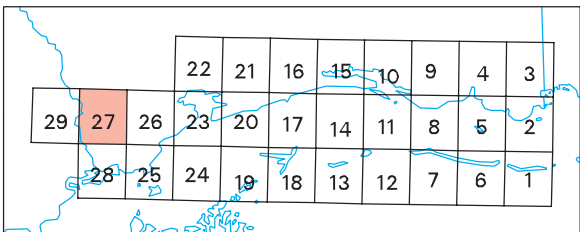
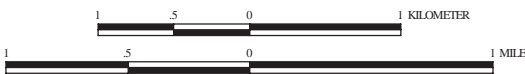


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995



MISSISSIPPI - ESIMAP 27

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern				X	X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
56	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X	X			X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X					X	X	X	X	-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X	X	-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Reddish egret							X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X					X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
58	Bald eagle	S/F	T/E		X	X	X	X	X				X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
19	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
57	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf sturgeon	S/F	E/T		X	X	X	X									FEB-APR	-	MAY-MAY

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
56	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

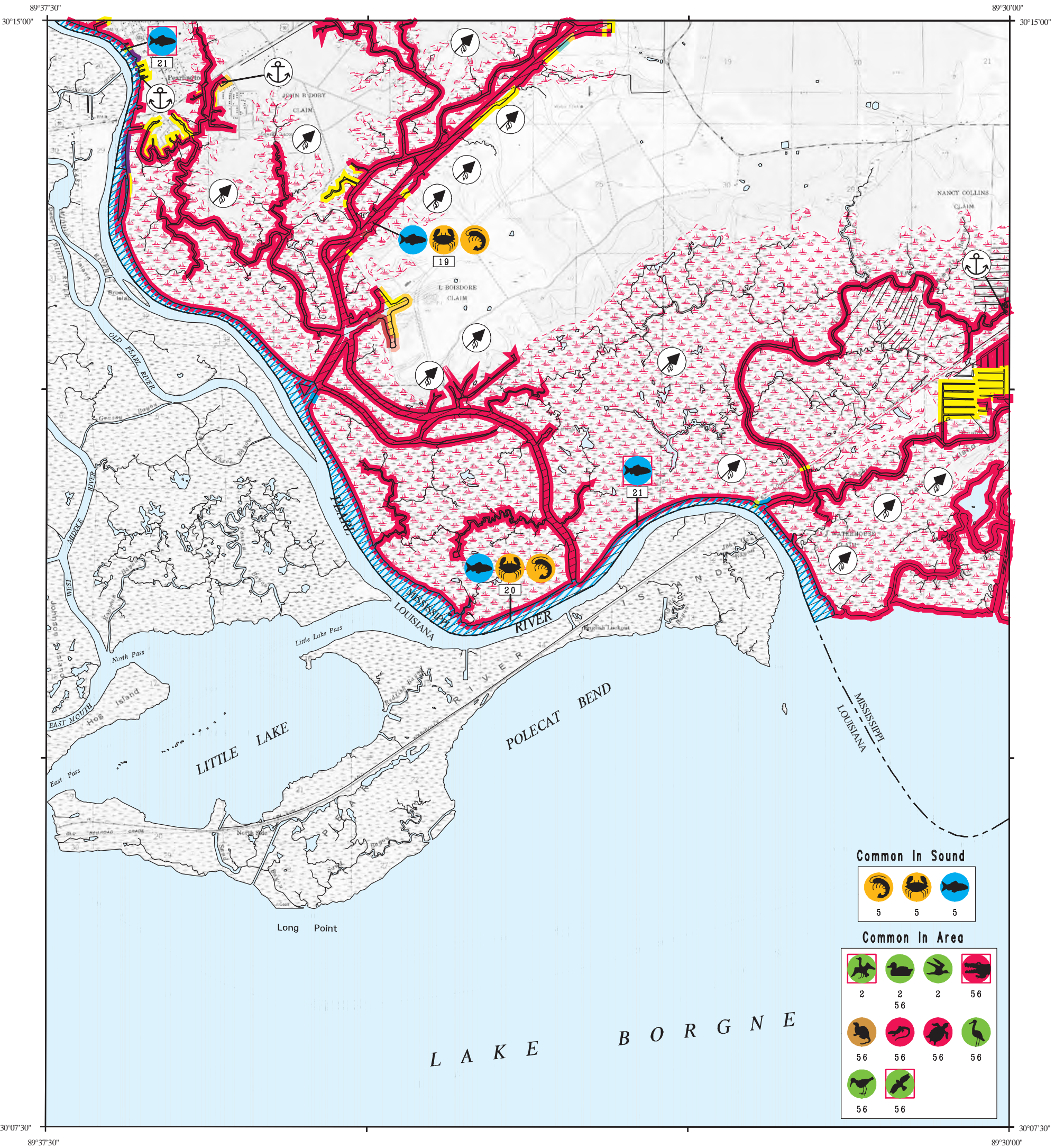
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
57	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
56	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Wild hog				X	X	X	X	X	X	X	X	X	X	X	X

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ENVIRONMENTAL SENSITIVITY INDEX MAP



STATE OF MISSISSIPPI

HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995

1 5 0 1 KILOMETER
1 5 0 1 MILE

				22	21	16	15	10	9	4	3
29	27	26	23	20	17	14	11	8	5	2	
	28	25	24	19	18	13	12	7	6	1	

MISSISSIPPI - ESIMAP 28

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
56	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X	X			X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X					X	X	X	X	-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X	X	-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Reddish egret							X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X	X				X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
5	Mississippi Sound assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
19	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
20	Mississippi bays assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
21	Gulf sturgeon	S/F	E/T		X	X	X	X									FEB-APR	-	MAY-MAY

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting
56	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

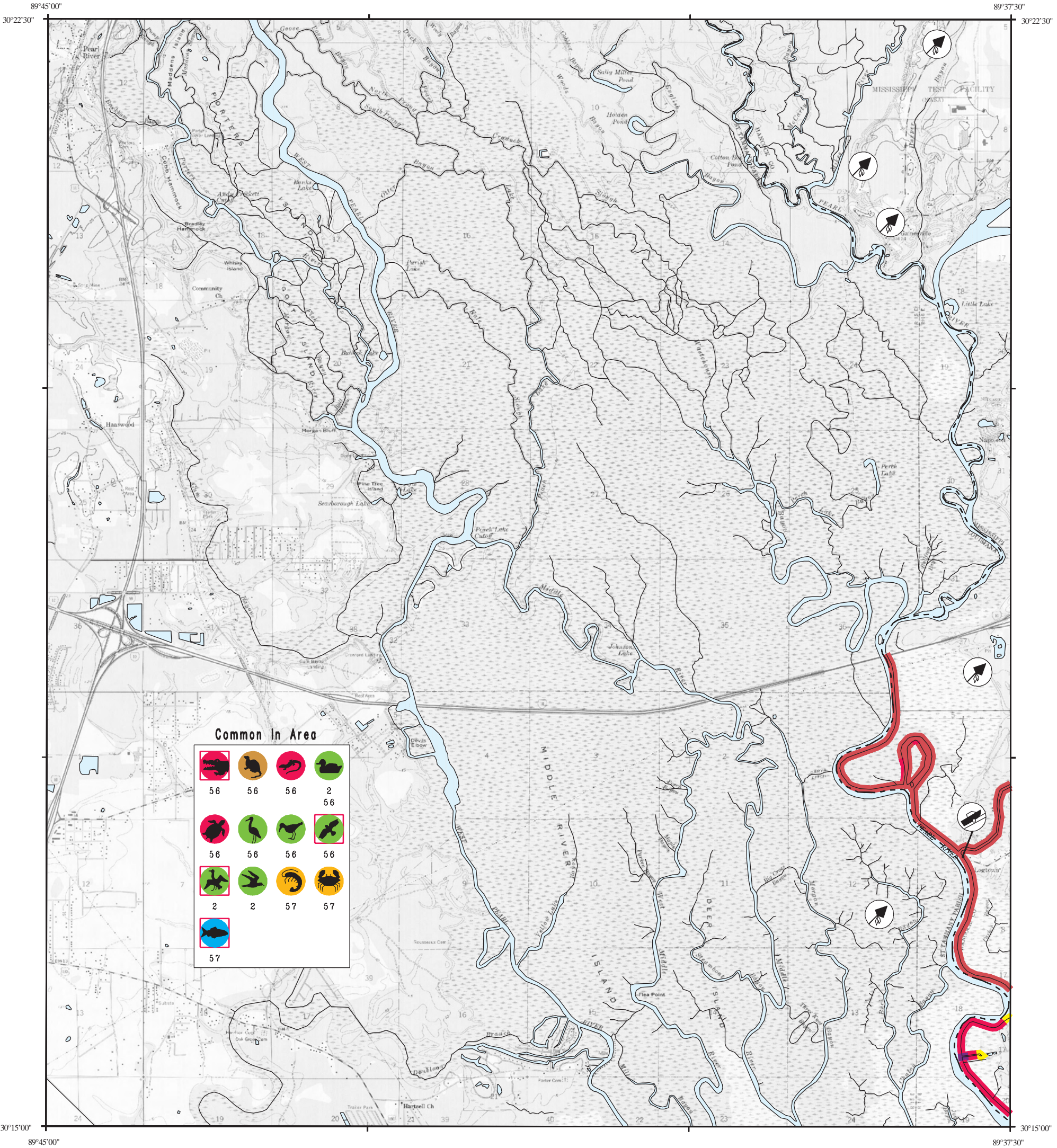
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
5	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
19	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-
20	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp						X	X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T MAMMAL:

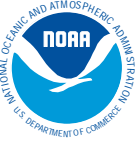
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
56	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Wild hog				X	X	X	X	X	X	X	X	X	X	X	X

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ENVIRONMENTAL SENSITIVITY INDEX MAP

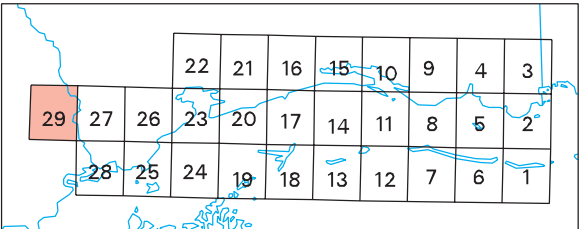
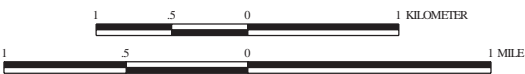


STATE OF MISSISSIPPI



HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration

Not For Navigation
Published: December 1995



MISSISSIPPI - ESIMAP 29

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	American white pelican				X	X							X	X	X	X	-	-	-	-
	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brown pelican	S/F	E/E		X	X	X	X	X	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	X	X	-	-	-	-
	Greater scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Herring gull				X	X	X	X	X	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	-	-	-	-
	Least tern					X	X	X	X	X	X	X	X				-	-	-	-
	Lesser scaup				X	X	X	X					X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ring-billed gull				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
56	American coot				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Dabbling ducks				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bald eagle	S/F	T/E		X	X	X	X	X	X			X	X	X	X	OCT-MAR	NOV-DEC	JAN-JAN	JAN-MAR
	Black-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead				X	X	X	X					X	X	X	X	-	-	-	-
	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 goldeneye				X	X	X	X					X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Green-backed heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hooded merganser				X	X	X	X					X	X	X	X	-	-	-	-
	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-AUG	MAY-JUN	JUN-JUL	JUN-AUG
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUN-JUL
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Reddish egret							X	X	X	X	X	X				-	-	-	-
	Redhead				X	X	X	X					X	X	X	X	-	-	-	-
	Ring-necked duck				X	X	X	X					X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snow goose				X	X	X	X	X				X	X	X	X	-	-	-	-
	Snowy egret				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-JUL	JUN-JUL	JUL-AUG
	Yellow-crowned night heron				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmig.	Larvae/Juv
57	Freshwater rivers assemblage (see pg. 5)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulf sturgeon	S/F	E/T		X	X	X	X									FEB-APR	-	MAY-MAY

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
56	American alligator	F	T		X	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	X	-	-	-
	Mississippi diamondback terrapin				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	JUN-OCT	-

SHELLFISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
57	Blue crab				X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	-
	Brown shrimp				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	FEB-NOV	-
	Pink shrimp							X	X	X	X	X	X	X	X	X	MAY-NOV	APR-NOV	-
	White shrimp				X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	-

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
56	Beaver				X	X	X	X	X	X	X	X	X	X	X	X
	Mink				X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat				X	X	X	X	X	X	X	X	X	X	X	X
	Northern raccoon				X	X	X	X	X	X	X	X	X	X	X	X
	Nutria				X	X	X	X	X	X	X	X	X	X	X	X
	River otter				X	X	X	X	X	X	X	X	X	X	X	X
	Wild hog				X	X	X	X	X	X	X	X	X	X	X	X

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