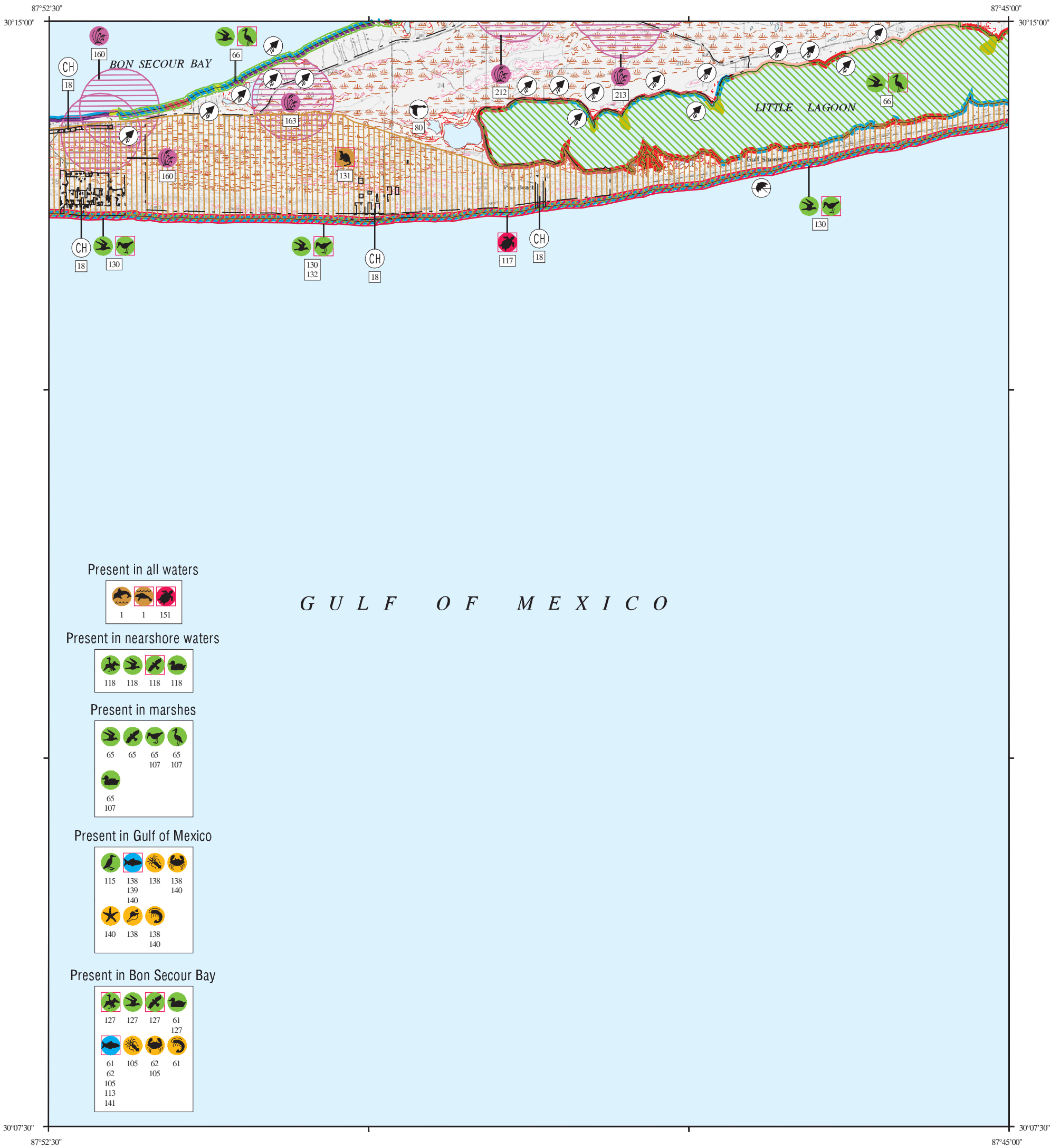
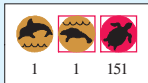


# ENVIRONMENTAL SENSITIVITY INDEX MAP



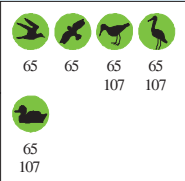
Present in all waters



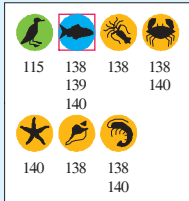
Present in nearshore waters



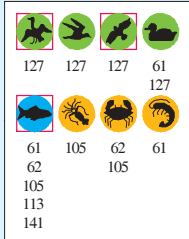
Present in marshes



Present in Gulf of Mexico



Present in Bon Secour Bay



G U L F O F M E X I C O

SHORELINE HABITATS (ESI)

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

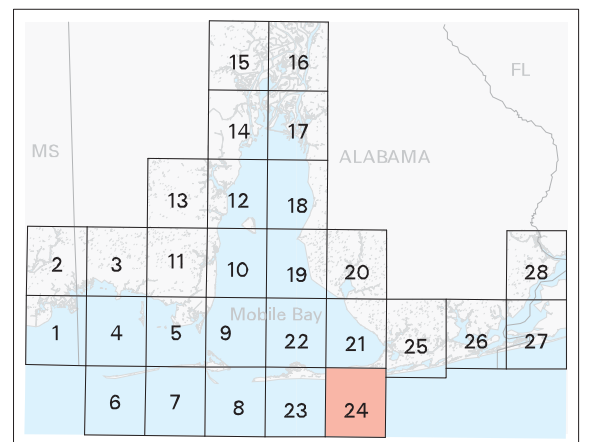


SCALE 1:50000



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Emergency Response Division







**Alabama: ESIMAP 24 (cont.)**

**BIOLOGICAL RESOURCES: (cont.)**

**FISH: (cont.)**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
141	Sheepshead		2	2	3	3	3	2	3	3	2	2	2	2	FEB-MAR	FEB-APR	MAR-AUG	JAN-DEC	JAN-DEC
	Silver seatrout		1	1				1	1	1	2	2	2	1	-	-	-	-	MAY-FEB
	Spanish mackerel				2	2	2	2	2	2	2	2			-	-	-	APR-OCT	AUG-OCT

**HABITAT:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
160	Large-leaved jointweed		X	X	X	X	X	X	X	X	X	X	X	X
163	Large-leaved jointweed		X	X	X	X	X	X	X	X	X	X	X	X
	Sand pine		X	X	X	X	X	X	X	X	X	X	X	X
212	Bandana-of-the-everglades		X	X	X	X	X	X	X	X	X	X	X	X
	Large-leaved jointweed		X	X	X	X	X	X	X	X	X	X	X	X
	Sand pine		X	X	X	X	X	X	X	X	X	X	X	X
213	Large-leaved jointweed		X	X	X	X	X	X	X	X	X	X	X	X
	Sand pine		X	X	X	X	X	X	X	X	X	X	X	X
	Slenderleaf clammy-weed		X	X	X	X	X	X	X	X	X	X	X	X

**INVERTEBRATE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
61	Brown shrimp		2	4	4	4	4	4	4	4	4	4	4	2	-	-	FEB-NOV	MAR-NOV	JUN-AUG
	Pink shrimp		1	1	2	2	2	2	2	2	2	2	2	2	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	White shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	JAN-DEC	JAN-JUN
62	Thinstripe hermit		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
105	Atlantic brief squid		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Blue crab		4	4	4	4	4	4	4	4	4	4	4	4	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC
138	Atlantic brief squid		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Blue crab		4	4	3	4	4	4	4	4	4	4	4	4	MAR-NOV	MAR-NOV	MAR-DEC	JAN-DEC	JAN-DEC
	Brown shrimp		4	4	4	4	4	4	4	4	4	4	4	4	NOV-APR	NOV-APR	FEB-NOV	JAN-DEC	JAN-DEC
	Mantis shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Pink shrimp		1	1	2	2	2	2	2	2	2	2	2	2	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	Shark eye		1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-
	White shrimp		4	4	3	3	3	4	4	4	4	4	4	4	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC
140	Five-slotted sand dollar		1					1	2	2	2	2			-	-	-	-	FEB-FEB
	Grass shrimp		3	3	3	3	3	3	3	3	3	3	3	2	-	-	-	JAN-DEC	JUL-NOV
	Thinstripe hermit		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC

**MARINE MAMMAL:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
1	Bottlenose dolphin		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	-	-
	West Indian manatee	E VERY LOW			X	X	X	X	X	X	X	X	X	X	-	-	-	-

**REPTILE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
117	Green sea turtle	P T			X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	MAR-NOV	APR-SEP
	Kemp's ridley sea turtle	P E			X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	MAR-NOV	APR-SEP
	Loggerhead sea turtle	P T			X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	MAR-NOV	APR-SEP
151	Green sea turtle	P T			X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	APR-SEP
	Kemp's ridley sea turtle	P E			X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	APR-SEP
	Leatherback sea turtle	P E			X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	-
	Loggerhead sea turtle	P T			X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	APR-SEP

**TERRESTRIAL MAMMAL:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
131	Alabama beach mouse	P E	X	X	X	X	X	X	X	X	X	X	X	X

**HUMAN USE RESOURCES:**

**CRITICAL HABITAT:**

HUN#	Name	Contact	Phone
18	ALABAMA BEACH MOUSE CRITICAL HABITAT	USFWS	

**WILDLIFE REFUGE:**

HUN#	Name	Contact	Phone
80	BON SECOUR NATIONAL WILDLIFE REFUGE	USFWS	251/540-7720

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