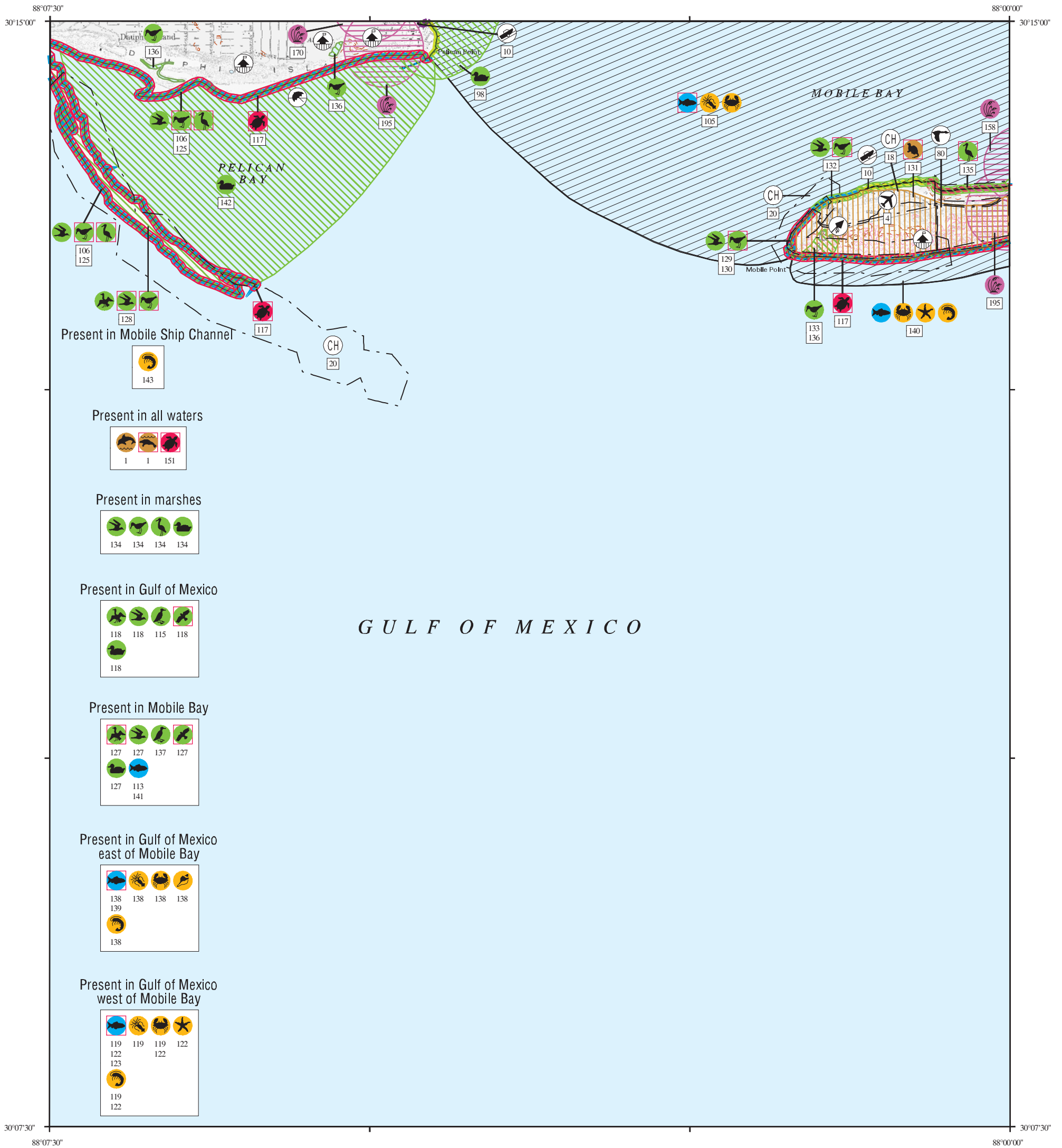


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN MUD OR CLAY
2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
- 3A FINE-TO MEDIUM-GRAINED SAND BEACHES
3B SCARPS AND STEEP SLOPES IN SAND
- 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

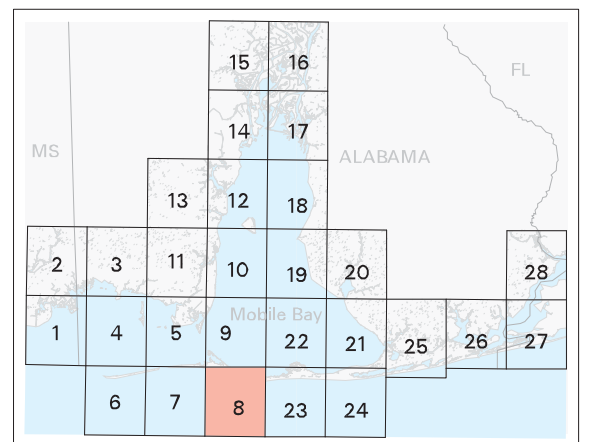


SCALE 1:50000



Not For Navigation
Published: August 2007

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Emergency Response Division



Alabama: ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
98	Bufflehead		X	X	X								X	X	-	-	-
	Common goldeneye		X	X	X								X	X	-	-	-
	Greater scaup		X	X	X								X	X	-	-	-
	Lesser scaup		X	X	X								X	X	-	-	-
	Red-breasted merganser		X	X	X								X	X	X	-	-
106	Black tern		X	X	X	X							X	X	X	-	-
	Black-bellied plover		X	X	X	X	X						X	X	-	-	-
	Dunlin		X	X	X	X							X	X	X	-	-
	Greater yellowlegs		X	X	X	X							X	X	X	-	-
	Least sandpiper		X	X	X	X							X	X	X	-	-
	Red knot		X	X	X	X							X	X	-	-	-
	Reddish egret	P	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Ruddy turnstone		X	X	X								X	X	-	-	-
	Sanderling		X	X	X	X	X						X	X	X	-	-
	Sandwich tern		X	X	X	X	X	X	X	X	X	X	X	X	JUN-JUL	-	-
	Semipalmated plover		X	X	X	X							X	X	X	-	-
	Semipalmated sandpiper		X	X	X	X							X	X	X	-	-
	Spotted sandpiper		X	X	X	X							X	X	X	X	-
	Western sandpiper		X	X	X	X							X	X	X	X	-
	Willet		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
115	Magnificent frigatebird		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern gannet	COMMON	X	X	X	X							X	X	X	-	-
118	Bonaparte's gull		X	X	X	X							X	X	-	-	-
	Brown pelican		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	-	-
	Herring gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Laughing gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Osprey	P	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Red-breasted merganser		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	-	-	-
	Surf scoter		X	X									X	X	-	-	-
	White-winged scoter		X	X									X	X	-	-	-
125	Least tern		X	X	X	X	X	X					X	X	MAY-JUL	-	-
	Piping plover	P T	X	X	X								X	X	X	X	-
	Wilson's plover	P	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
127	American white pelican	P	X	X	X	X							X	X	X	-	-
	Bonaparte's gull		X	X	X	X							X	X	-	-	-
	Brown pelican		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Bufflehead		X	X	X								X	X	-	-	-
	Canvasback		X	X	X								X	X	-	-	-
	Common goldeneye		X	X	X								X	X	-	-	-
	Common loon		X	X	X	X							X	X	X	-	-
	Double-crested cormorant		X	X	X								X	X	X	-	-
	Forster's tern		X	X	X	X							X	X	-	-	-
	Greater scaup		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	X	-	-
	Laughing gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Lesser scaup		X	X	X								X	X	-	-	-
	Osprey	P	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Red-breasted merganser		X	X	X								X	X	X	-	-
	Redhead		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	-	-	-
	Ruddy duck		X	X	X								X	X	-	-	-
128	American oystercatcher	P 2 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Black skimmer	200 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Common tern	25-50 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Double-crested cormorant	10000 BIRDS	X	X	X								X	X	X	-	-
	Gull-billed tern	P 25-50 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Piping plover	P T	X	X	X								X	X	X	X	-
	Shorebirds		X	X	X								X	X	X	-	-
	Snowy plover	P	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-
	Wilson's plover	P 1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
129	Piping plover	P T	X	X	X								X	X	X	X	-
	Snowy plover	P	X	X	X								X	X	-	-	-
130	American oystercatcher	P	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black tern		X	X	X								X	X	X	-	-
	Black-bellied plover		X	X	X	X							X	X	-	-	-
	Dunlin		X	X	X	X							X	X	X	-	-
	Greater yellowlegs		X	X	X	X							X	X	X	-	-
	Least sandpiper		X	X	X	X							X	X	X	-	-
	Lesser yellowlegs		X	X	X	X							X	X	X	X	-
	Red knot		X	X	X								X	X	-	-	-
	Ruddy turnstone		X	X	X								X	X	-	-	-
	Sanderling		X	X	X	X	X						X	X	X	X	-
	Semipalmated plover		X	X	X	X							X	X	X	-	-
	Semipalmated sandpiper		X	X	X	X							X	X	X	-	-
	Short-billed dowitcher		X	X	X	X							X	X	X	-	-
	Spotted sandpiper		X	X	X	X							X	X	X	X	-
	Western sandpiper		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Whimbrel		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	-	-	-
132	Least tern		X	X	X								X	X	X	X	-
	Snowy plover	P	X	X	X								X	X	-	-	-
133	Black-necked stilt		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
134	Caspian tern		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	-	-
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
	Great egret		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Killdeer		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-
	Willet		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-
135	Reddish egret	P	X	X	X	X	X						X	X	-	-	-
136	Solitary sandpiper		X	X	X	X							X	X	-	-	-
	Spotted sandpiper		X	X	X	X							X	X	X	X	-
	Stilt sandpiper		X	X	X	X							X	X	X	X	-
137	Northern gannet		X	X									X	X	-	-	-
142	Bufflehead	HIGH	X	X	X								X	X	-	-	-
	Greater scaup	HIGH	X	X	X								X	X	-	-	-
	Lesser scaup	HIGH	X	X	X								X	X	-	-	-

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.

Alabama: ESIMAP 8 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults		
105	Atlantic croaker		4	4	4	4	4	4	4	4	4	4	3	3	-	-	AUG-APR	JAN-DEC	MAY-DEC		
	Bay anchovy		4	4	4	4	4	4	4	4	4	4	4	4	FEB-SEP	FEB-NOV	FEB-DEC	JAN-DEC	JAN-DEC		
	Bay whiff		2	2	2	3	3	3	3	3	3	3	3	2	-	-	DEC-APR	JAN-DEC	-		
	Blue catfish		1	2	2	2	1	1					1	1	-	-	-	-	NOV-JUL		
	Crevalle jack		2	2	2	2	2	2	2	2	2	2	2	2	JAN-DEC	MAY-SEP	MAY-SEP	JAN-DEC	MAY-SEP		
	Darter goby		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Gafftopsail catfish					1	1	2	2	1	2	1	2	1	-	-	-	-	MAY-DEC		
	Gray snapper					2	2	2	2	2	2	2	2	2	-	-	-	MAY-DEC	MAY-DEC		
	Gulf killifish		3	3	3	3	3	3	3	3	3	3	3	3	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC		
	Gulf menhaden		2	4	4	4	3	3	3	3	4	3	4	3	-	SEP-FEB	OCT-MAY	FEB-DEC	FEB-OCT		
	Gulf sturgeon	P T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC		
	Hardhead catfish		2	2	2	3	3	3	3	3	3	3	3	2	APR-AUG	APR-AUG	APR-SEP	JAN-DEC	JAN-DEC		
	Red drum		2	2	2	2	2	2	2	2	2	2	2	2	-	SEP-DEC	SEP-DEC	JAN-DEC	JUN-OCT		
	Sand seatrout		2	2	4	4	4	4	4	3	3	3	2	2	FEB-SEP	FEB-SEP	FEB-SEP	JAN-DEC	JAN-DEC		
	Silver perch		2	2	2	2	2	2	2	2	2	2	2	2	APR-AUG	APR-AUG	APR-AUG	JAN-DEC	JAN-DEC		
	Southern flounder		2	2	2	2	2	2	2	2	2	2	2	2	-	-	NOV-MAR	JAN-DEC	JAN-DEC		
	Southern hake		1	1	2	2	2				1	1			-	-	-	-	OCT-OCT		
	Spot		4	4	4	4	4	4	4	3	3	3	3	3	-	-	NOV-APR	JAN-DEC	JAN-DEC		
	Spotted seatrout		3	3	3	3	3	3	3	3	3	3	3	3	APR-AUG	APR-AUG	APR-OCT	JAN-DEC	JAN-DEC		
	Striped anchovy		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Striped mullet		3	3	3	3	3	3	3	3	3	3	3	3	-	-	DEC-APR	JAN-DEC	MAY-DEC		
	Threadfin shad		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	White mullet		1			1	2	2	2	2	2	2	1		-	-	-	-	MAY-JAN		
113	Least puffer		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Pinfish		3	3	3	3	3	3	3	3	3	3	3	3	-	-	DEC-APR	JAN-DEC	MAR-OCT		
	Skipjack herring		1	1	1	1	1	1			1		1		-	-	-	-	AUG-AUG		
	Southern kingfish		2	2	2	2	3	3	3	2	2	2	2	2	-	-	-	-	DEC-JUN		
	Star drum		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
119	Atlantic croaker		4	4	4	4	4	3	3	3	3	3	3	3	SEP-APR	SEP-APR	OCT-APR	JAN-DEC	JAN-DEC		
	Atlantic sharpnose shark					2	2	2	2	2	2	2	2	2	-	-	-	-	MAR-OCT		
	Atlantic stingray		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Bay anchovy		3	3	3	4	4	4	4	4	4	4	4	4	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC		
	Bay whiff		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Bighead searobin		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	FEB-DEC		
	Blacktip shark					2	2	2	2	2	2	2	2	2	-	-	-	-	MAR-OCT		
	Blue runner												2	2	-	-	-	-	SEP-OCT		
	Bonnethead shark												1		-	-	-	-	OCT-OCT		
	Broad flounder		1	1	1	1	1	1							-	-	-	-	JAN-JUN		
	Bull shark					2	2	2	2	2	2	2	2	2	-	-	-	-	MAR-OCT		
	Cobia									1	1	1			-	-	-	-	JUL-SEP		
	Crested cusk-eel		1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JAN-DEC		
	Crevalle jack		2	2	2	2	2	2	2	2	2	2	2	2	JAN-DEC	MAY-SEP	MAY-SEP	JAN-DEC	MAY-SEP		
	Darter goby		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Dolphin												2		-	-	-	-	SEP-SEP		
	Finetooth shark		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC		
	Florida pompano					1	2	3	3	2	2	1	1		MAY-JUL	MAY-JUL	MAY-JUL	MAY-NOV	MAR-SEP		
	Fringed flounder		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Gafftopsail catfish												1	2	2	1	-	-	-	-	JUN-OCT
	Gray snapper														-	-	-	-	MAY-DEC		
	Gulf flounder		2	2	2	2	2	2	2	2	2	2	2	2	NOV-FEB	NOV-FEB	NOV-FEB	JAN-DEC	JAN-DEC		
	Gulf killifish		2	2	2	3	3	3	3	3	3	3	2		JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC		
	Gulf menhaden		4	4	4	4	4	4	4	4	4	4	4	4	OCT-MAR	OCT-MAR	OCT-MAY	JAN-DEC	JAN-DEC		
	Gulf sturgeon	P T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC		
	Gulf toadfish		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Hardhead catfish		2	2	2	4	4	4	4	4	4	4	4	2	APR-AUG	APR-AUG	APR-SEP	JAN-DEC	JAN-DEC		
	Inshore lizardfish		1	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Least puffer		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC		
	Pinfish		3	3	3	3	4	4	4	4	4	3	3	2	NOV-MAR	NOV-MAR	NOV-APR	JAN-DEC	JAN-DEC		
	Red drum		2	2	2	2	2	2	2	2	2	2	2	2	SEP-NOV	SEP-FEB	SEP-FEB	JAN-DEC	JAN-DEC		
	Red snapper														-	-	-	-	JUN-OCT		
	Rough scad														-	-	-	-	MAY-JUN		
	Sand seatrout		4	4	4	4	4	4	4	4	4	4	4	4	MAR-OCT	MAY-OCT	FEB-OCT	JAN-DEC	JAN-DEC		
	Silver perch		3	3	3	3	3	3	3	3	3	3	3	3	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC		
	Silver seatrout					2	2	2	2	2	2	2	2	2	-	-	-	-	FEB-FEB		
	Skipjack herring														-	-	-	-	MAY-SEP		
	Skilletfish		2	2	2	2	2	2	2	1	1	1	1		-	-	-	-	JAN-NOV		
	Skipjack herring		1	1	1	1	1	1	1				1		-	-	-	-	AUG-AUG		
	Southern flounder		3	3	3	3	3	3	3	2	3	3	3	3	SEP-JAN	SEP-JAN	SEP-APR	JAN-DEC	JAN-DEC		
	Southern hake		1	1	1	1							1		-	-	-	-	FEB-MAY		
	Southern kingfish		2	2	3	3	3	3	3	3	3	3	3	3	-	-	-	-	OCT-OCT		
	Spanish sardine					1	1	1							-	-	-	-	JAN-DEC		
	Speckled worm eel		2	2	2	2	1	1					1	1	1	-	-	-	-	SEP-JUN	
	Spinner shark					1	1	1	1	1	1	1	1		-	-	-	-	MAR-OCT		
	Spot		4	4	4	4	4	4	4	4	4	4	4	4	NOV-MAR	NOV-APR	NOV-MAR	JAN-DEC	JAN-DEC		
	Spotfin mojarra														-	-	-	-	MAY-NOV		
	Spotted hake		1	1	1	1							1		-	-	-	-	FEB-MAY		
	Spotted seatrout		3	3	3	3	3	3	3	3	3	3	3	3	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC		
	Star drum		1	1	2	2	2	2	2	2	2	1	1		-	-	-	-	JAN-DEC		
	Striped anchovy					1	1	1	1	1	1	1	1	1	-	-	-	-	APR-DEC		
	Striped mullet		4	4	4	4	4	4	4	4	4	4	4	4	NOV-MAY	NOV-MAY	NOV-MAY	JAN-DEC	JAN-DEC		
	Threadfin shad		2	2	2	2	2	1	1	1	1	1	2		-	-	-	-	JAN-DEC		
	White mullet		1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JAN-DEC		
122	Gulf kingfish		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	MAR-JAN		
	Halfbeak														-	-	-	-	APR-OCT		
	Inland silverside		3	3	3	3	4	4	4	4	4	4	3		JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC		
	Longnose killifish		1	1	1	1	2	1	1	1	1	1	1	1	JUN-JUL	-	-	-	JAN-DEC		
	Marsh killifish		1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JAN-DEC		
	Northern kingfish					1	1	2	2	1	1	1	1	1	-	-	-	-	MAR-DEC		
	Rough silverside		3	3	3	3	4	4	4	4	4	4	3		JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC		
	Sheepshead minnow		3	3	3	3	3	3	3	3	3	3	3	3	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC		
123	Atlantic spadefish														-	-	JUN-SEP	-	APR-DEC		
	Atlantic thread herring																				

Alabama: ESIMAP 8 (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
123	Spanish mackerel		1	1	3	3	3	3	3	3	1	1	1		JUN-SEP	JUN-SEP	JUN-SEP	APR-SEP	JAN-DEC
138	Atlantic croaker		4	4	4	4	4	4	3	3	3	3	3		SEP-APR	SEP-APR	OCT-APR	JAN-DEC	JAN-DEC
	Atlantic sharpnose shark			2	2	2	2	2	2	2	2				-	-	-	-	MAR-OCT
	Atlantic stingray		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Bay anchovy		4	4	4	4	4	4	4	4	4	4	4		FEB-SEP	FEB-NOV	FEB-DEC	JAN-DEC	JAN-DEC
	Bay whiff		3	3	3	3	3	3	3	3	3	3	3		-	-	-	JAN-DEC	-
	Bighead searobin			2	2	2	2	2	2	2	2	2	2		-	-	-	-	FEB-DEC
	Blacktip shark			2	2	2	2	2	2	2	2	2	2		-	-	-	-	MAR-OCT
	Blue runner										2	2			-	-	-	-	SEP-OCT
	Bonnethead shark											1			-	-	-	-	OCT-OCT
	Broad flounder		1	1	1	1	1								-	-	-	-	JAN-JUN
	Bull shark			2	2	2	2	2	2	2	2	2	2		-	-	-	-	MAR-OCT
	Cobia									1	1	1			-	-	-	-	JUL-SEP
	Crested cusk-eel		1	1	1	1	1	1	1	1	1	1	1		-	-	-	-	JAN-DEC
	Crevalle jack		2	2	2	2	2	2	2	2	2	2	2		JAN-DEC	MAY-SEP	MAY-SEP	JAN-DEC	MAY-SEP
	Darter goby		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Dolphin										2				-	-	-	-	SEP-SEP
	Florida pompano			2	2	2	2	2	2	2	2	2	2		APR-SEP	APR-SEP	APR-SEP	APR-OCT	APR-OCT
	Fringed flounder		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Gafftopsail catfish									1	2	2	2		-	-	-	-	JUN-OCT
	Gag									1					-	-	-	-	MAY-MAY
	Gray snapper							1	1	1	1	1	1	1	-	-	-	-	MAY-DEC
	Gulf flounder		2	2	2	2	2	2	2	2	2	2	2		NOV-FEB	NOV-FEB	NOV-FEB	JAN-DEC	JAN-DEC
	Gulf menhaden		4	4	4	4	4	4	4	4	4	4	4		OCT-MAR	OCT-MAR	OCT-MAY	JAN-DEC	JAN-DEC
	Hardhead catfish		2	2	4	4	4	4	4	4	4	4	2		APR-AUG	APR-AUG	APR-SEP	JAN-DEC	JAN-DEC
	Highfin goby		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Inshore lizardfish		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Lane snapper							1	2	2	2	1			-	-	-	-	JUL-DEC
	Least puffer		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Little tunny						1	1	1	1					-	-	-	-	MAY-SEP
	Longnose anchovy		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	FEB-NOV
	Pigfish		1		1	1	1	1	1	1	1	1	1		-	-	-	-	MAY-JAN
	Pinfish		3	3	3	3	4	4	4	4	4	3	3		NOV-MAR	NOV-MAR	NOV-APR	JAN-DEC	JAN-DEC
	Red snapper							1	1	1	1				-	-	-	-	JUL-NOV
	Rough scad				2	1			1	1					-	-	-	-	MAY-JUN
	Sand seatrout		4	4	4	4	4	4	4	4	4	4	4		MAR-OCT	MAY-OCT	FEB-OCT	JAN-DEC	JAN-DEC
	Silver perch		3	3	3	3	3	3	3	3	3	3	3		MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Skipjack herring		1	1	1	1	1	1					1		-	-	-	-	AUG-AUG
	Southern flounder		3	3	3	3	3	3	3	2	3	3	3		SEP-JAN	SEP-JAN	SEP-APR	JAN-DEC	JAN-DEC
	Southern hake		1	1	1	1	1						1		-	-	-	-	NOV-JUN
	Southern kingfish		1	2	3	3	3	3	3	3	3	3	1		-	-	-	-	JAN-DEC
	Speckled worm eel		2	2	2	1	1			1	1	1			-	-	-	-	SEP-JUN
	Spinner shark			1	1	1	1	1	1	1	1				-	-	-	-	MAR-OCT
	Spot		4	4	4	4	4	4	4	4	4	4	4		NOV-MAR	NOV-APR	NOV-MAR	JAN-DEC	JAN-DEC
	Spotfin mojarra		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Spotted seatrout		3	3	3	3	3	3	3	3	3	3	3		MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Striped anchovy		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Striped mullet		4	4	4	4	4	4	4	4	4	4	4		NOV-MAY	NOV-MAY	NOV-MAY	JAN-DEC	JAN-DEC
	Threadfin shad		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	White mullet		1	1	1	1	2	2	2	2	1	1			-	-	-	-	JAN-DEC
139	Atlantic bumper														-	-	-	-	JUN-DEC
	Atlantic thread herring			2	2	2	2	2	2	2	2	1			-	-	-	-	MAR-NOV
	Black drum		2	2	2	2	2	2	2	2	2	2	2		FEB-APR	FEB-APR	FEB-APR	JAN-DEC	JAN-DEC
	Bluefish			2	2	2	2	2	2	2					APR-OCT	-	-	-	APR-OCT
	Gulf butterflyfish		1	1	1	1	1	1	1	1	1	1	1		-	-	-	-	JAN-DEC
	Gulf sturgeon	P T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	JAN-DEC
	Harvestfish		1	1		2	2	2	2	2	2	2	2		-	-	-	-	MAY-FEB
	King mackerel					1	2	2	2	2	1				-	-	-	-	MAY-NOV
	Ladyfish			1	1	1	1	1	1	1	1	1			-	-	-	-	MAR-NOV
	Lined seahorse		1	1	1	1	1	1	1	1	1	1	1		-	-	-	-	JAN-DEC
	Scaled sardine			2	2	2	2	2	2	2	2				-	-	-	-	APR-NOV
	Silver seatrout		1		1	1	1	1	1	1	1	1	1		-	-	-	-	FEB-FEB
	Spanish mackerel														-	-	-	-	MAY-DEC
	Spanish mackerel		1	1	3	3	3	3	3	3	1	1	1		JUN-SEP	JUN-SEP	JUN-SEP	APR-SEP	JAN-DEC
140	Gulf kingfish		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	MAR-JAN
	Halfbeak			1	2	2	1	1							-	-	-	-	APR-OCT
	Inland silverside		3	3	3	3	3	3	3	3	3	3	3		MAR-AUG	MAR-AUG	MAR-SEP	JAN-DEC	JAN-DEC
	Longnose killifish		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Northern kingfish			1	1	2	2	2	1	1	1	1			-	-	-	-	MAR-DEC
	Rough silverside		1	1	1	1	1	1	1	1	1	1	1		-	-	-	-	JAN-DEC
	Sheepshead minnow		3	3	3	3	3	3	3	3	3	3	3		APR-OCT	APR-OCT	APR-NOV	DEC-MAR	JAN-DEC
141	Atlantic spadefish		2	2	2	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Gulf butterflyfish		2	2	2	3	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Harvestfish		1	1	1	2	2	2	2	2	2	2	2		-	-	-	-	JAN-DEC
	Ladyfish			1	1	2	2	1	1	1	1				-	-	-	-	MAR-NOV
	Scaled sardine			2	2	2	2	2	2	2	2				-	-	-	-	APR-NOV
	Sheepshead		2	2	3	3	3	2	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					-	-	-	-	APR-OCT

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
158	Slenderleaf clammy-weed		X	X	X	X	X	X	X	X	X	X	X	X
170	Night-flowering wild-petunia		X	X	X	X	X	X	X	X	X	X	X	X
195	Coastal-sand frostweed		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
105	Atlantic brief squid		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Blue crab																		

Alabama: ESIMAP 8 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
138	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
143	Atlantic seabob shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Mantis shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Roughback shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-

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	-	-	-	-

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	APR-SEP	-	-	MAR-NOV	APR-SEP
	Kemp's ridley sea turtle	P E						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	APR-SEP	-	-	MAR-NOV	APR-SEP
151	Green sea turtle	P T						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	-	-	-	MAR-NOV	APR-SEP
	Leatherback sea turtle	P E						X	X	X	X	X	X	X	-	-	-	MAR-NOV	-
	Loggerhead sea turtle	P T						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:

AIRPORT:

HUN#	Name	Contact	Phone
4	FORT MORGAN AIRPORT (HISTORICAL)		

BOAT RAMP:

HUN#	Name	Contact	Phone
10	BOAT RAMP		

CRITICAL HABITAT:

HUN#	Name	Contact	Phone
18	ALABAMA BEACH MOUSE CRITICAL HABITAT	USFWS	
20	PIPING PLOVER CRITICAL HABITAT	USFWS	251/441-5181

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.