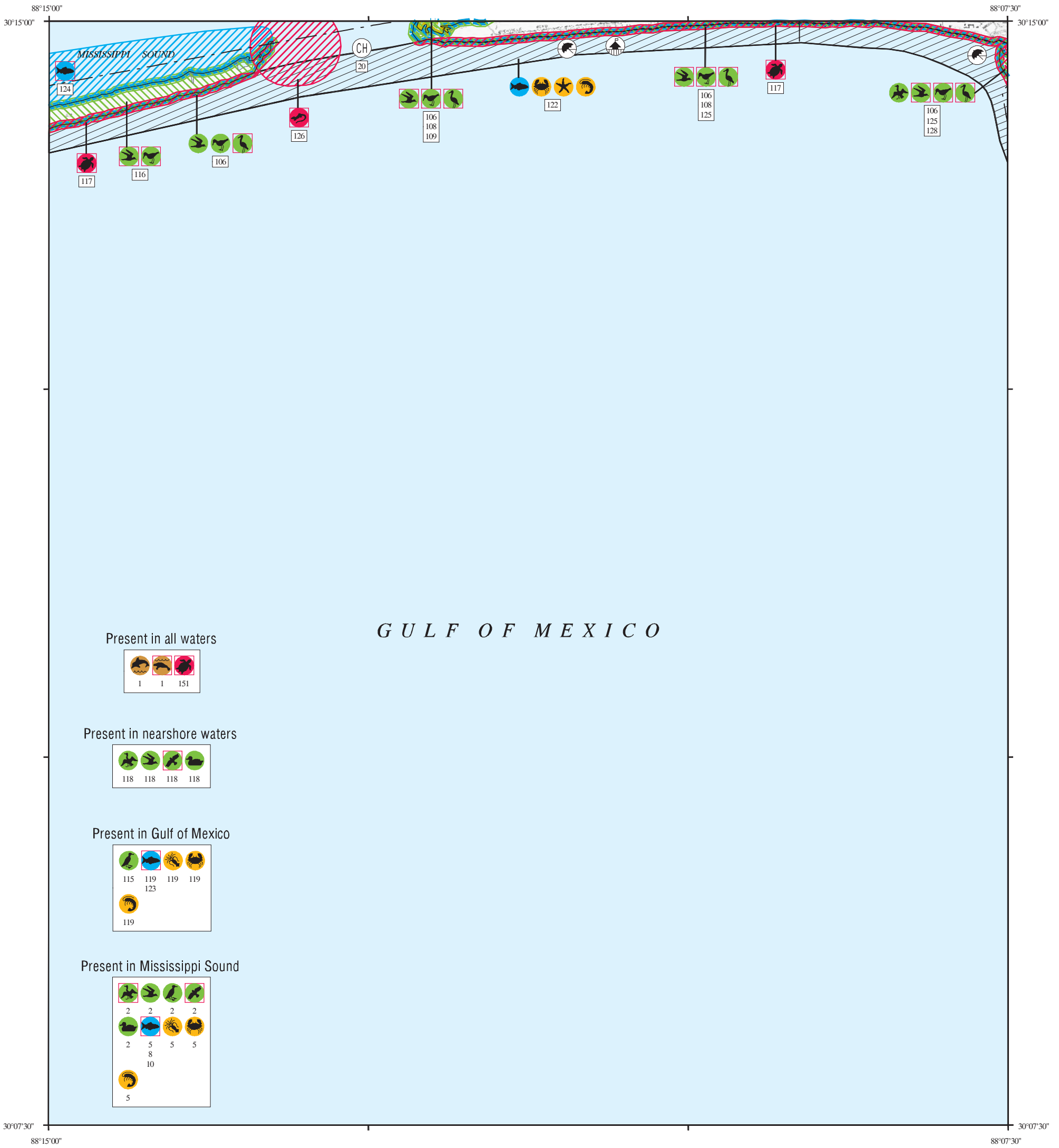


# ENVIRONMENTAL SENSITIVITY INDEX MAP



**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**  
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# Alabama: ESIMAP 7

## BIOLOGICAL RESOURCES:

### BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
2	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	X	-	-
	Forster's tern		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	-	-	-
	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern gannet		X	X	X	X						X	X	X	-	-	-
	Osprey	P	X	X	X	X	X	X	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	-	-	-
106	Black tern		X	X	X	X							X	X	-	-	-
	Black-bellied plover		X	X	X	X							X	X	-	-	-
	Dunlin		X	X	X	X							X	X	-	-	-
	Greater yellowlegs		X	X	X	X							X	X	-	-	-
	Least sandpiper		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	-	-
	Sandwich tern			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	-	-
108	Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Gull-billed tern	P		X	X	X	X	X	X	X	X	X	X	X	-	-	-
109	Piping plover	P T	X	X	X								X	X	X	-	-
	Short-billed dowitcher		X	X	X	X							X	X	X	-	-
115	Magnificent frigatebird			X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern gannet	COMMON	X	X	X	X							X	X	X	-	-
116	Black skimmer	100 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Caspian tern	25 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JUN-JUL	-	-
	Gull-billed tern	25 PAIRS		X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Least tern	100 PAIRS		X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Piping plover	P T	X	X	X								X	X	X	-	-
	Royal tern	75 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JUN-JUL	-	-
	Snowy plover	P	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-
	Wilson's plover	P		X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
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	X	X	X	MAY-JUL	-	-
	Piping plover	P T	X	X	X								X	X	X	-	-
	Wilson's plover	P		X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
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	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	MAY-JUL	-	-
	Piping plover	P T	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	MAR-JUN	-	-

### FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
5	Atlantic croaker		4	4	4	4	4	4	3	3	3	3	3	3	SEP-APR	SEP-APR	OCT-APR	JAN-DEC	JAN-DEC
	Atlantic stingray		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-
	Fringed flounder		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-
	Gafftopsail catfish								1	2	2	2	1		-	-	-	-	JUN-OCT
	Gray snapper						1	1	1	1	1	1	1	1	-	-	-	-	MAY-DEC
	Gulf killifish		2	2	2	2	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 toadfish		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-
	Hardhead catfish		2	2	2	4	4	4	4	4	4	4	4	2	APR-AUG	APR-AUG	APR-SEP	JAN-DEC	JAN-DEC
	Least puffer		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-
	Pigfish			1	1	1	1	1	1	1	1	2	1		-	-	-	-	MAR-NOV
	Pinfish		3	3	3	3	4	4	4	4	4	3	3	3	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
	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
	Southern flounder		3	3	3	3	3	3	3	3	2	3	3	3	SEP-JAN	SEP-JAN	SEP-APR	JAN-DEC	JAN-DEC
	Southern kingfish		2	2	3	3	3	3	3	3	3	3	3	3	-	-	-	-	-
	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						1	2	2	1	1	1	1		-	-	-	-	MAY-NOV
	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		-	-	-	-	-
	Striped anchovy						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	1	2	-	-	-	-	-
	White mullet		1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-
8	Atlantic spadefish						2	2	2	3	3	3	2	1	-	-	JUN-SEP	-	-
	Atlantic sturgeon		1	1	1	1							1	1	-	-	-	-	OCT-MAY
	Black drum		2	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	2	2	2	APR-OCT	-	-	-	APR-OCT

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 7 (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
119	White shrimp		4	4	3	3	3	4	4	4	4	4	4	4	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC
122	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	JAN-DEC
	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		-	-	-	

**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	APR-SEP	-	-	MAR-NOV	APR-SEP
	Kemp's ridley sea turtle	P E				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	APR-SEP	-	-	MAR-NOV	APR-SEP
126	Green water snake		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Gulf salt marsh snake	P	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
151	Green sea turtle	P T				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	-	-	-	MAR-NOV	APR-SEP
	Leatherback sea turtle	P E				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	-	-	-	MAR-NOV	APR-SEP

**HUMAN USE RESOURCES:**

**CRITICAL HABITAT:**

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

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