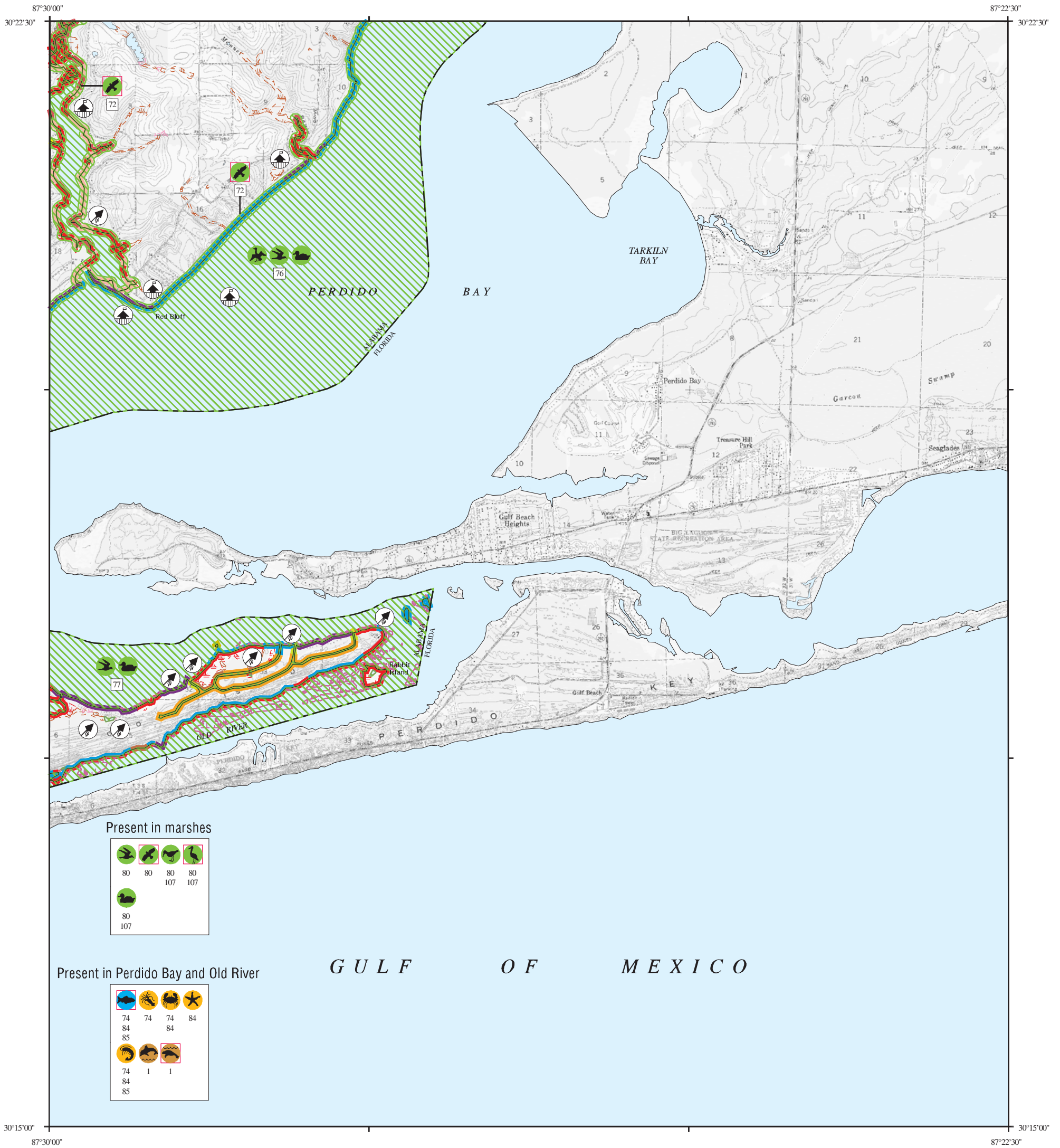


ENVIRONMENTAL SENSITIVITY INDEX MAP



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

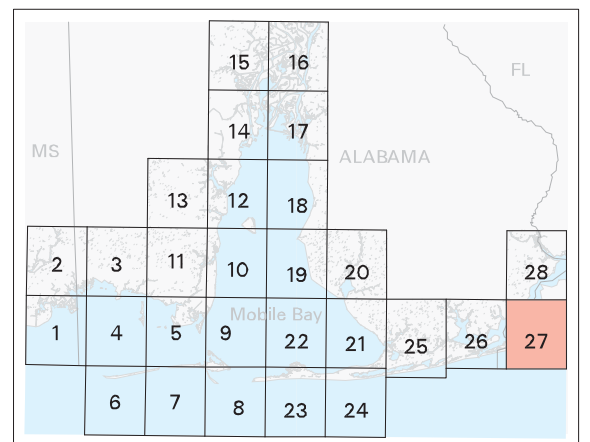


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Alabama: ESIMAP 27

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
72	Osprey	P HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
76	American coot		X	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	-	-	-
	Double-crested cormorant		X	X	X						X	X	X	X	-	-	-
	Forster's tern		X	X	X	X							X	X	-	-	-
	Greater scaup		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	-	-	-
	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	-	-	-
77	Bonaparte's gull		X	X	X	X							X	X	-	-	-
	Herring gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Ruddy duck		X	X	X								X	X	-	-	-
80	American bittern		X	X	X								X	X	-	-	-
	American coot		X	X	X	X						X	X	X	-	-	-
	Canada goose		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Caspian tern		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	Gadwall		X	X	X	X							X	X	-	-	-
	Greater yellowlegs		X	X	X	X							X	X	-	-	-
	Green-backed heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-
	King rail		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	X	-	-	-
	Mottled duck		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	MAY-JUL	-	-
	Reddish egret	P	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Snow goose		X	X	X								X	X	-	-	-
	Spotted sandpiper		X	X	X	X					X	X	X	X	-	-	-
	Virginia rail		X	X	X								X	X	-	-	-
	White ibis				X	X	X	X							-	-	-
107	Black-crowned night-heron				X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Blue-winged teal		X	X									X		-	-	-
	Cattle egret		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-
	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	-	-
	Green-winged teal		X	X	X								X	X	-	-	-
	Killdeer		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Purple gallinule		X	X	X	X	X	X	X	X	X	X	X	X	MAY-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	-	-
	Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
74	Atlantic croaker		2	4	4	4	4	4	3	3	3	2	2	2	-	-	AUG-APR	JAN-DEC	MAY-DEC
	Atlantic stingray		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Bay anchovy		3	3	4	4	4	4	3	3	4	4	3	FEB-SEP	FEB-OCT	FEB-DEC	JAN-DEC	JAN-DEC	
	Bay whiff		2	2	2	3	3	3	2	2	2	2	2	-	DEC-APR	-	JAN-DEC	-	
	Bighead searobin		2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC	
	Blackcheek tonguefish		2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC	
	Bluegill		2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC	
	Crevalle jack						2	2	2	2	2	2	2	-	-	-	-	JUN-NOV	
	Darter goby		2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC	
	Fringed flounder		2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC	
	Gafftopsail catfish				1	2	2	2	2	2	2	2	2	-	-	-	-	MAY-OCT	
	Gray snapper								1	1	1	1	1	-	-	-	-	AUG-DEC	
	Gulf killifish		2	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JAN-DEC	
	Gulf menhaden		2	2	3	4	4	4	3	3	2	2	2	-	SEP-MAR	OCT-MAY	JAN-DEC	JAN-DEC	
	Gulf sturgeon	P T	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC	
	Hardhead catfish		3	3	3	3	3	3	3	3	3	3	3	MAY-AUG	MAY-AUG	MAY-SEP	JAN-DEC	JAN-DEC	
	Inshore lizardfish		1	1	1	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC	
	Largemouth bass				1	1	1	1	1	1	1	1	1	-	-	-	-	APR-NOV	
	Least puffer		1	1	1	2	2	2	2	1	1	2	2	-	-	-	-	JAN-DEC	
	Longnose gar		1	1	1	2	2	2	2	1	1	1	1	-	-	-	-	MAY-MAY	
																		AUG-SEP	
	Pinfish		2	2	2	3	3	3	3	3	3	2	2	-	-	DEC-APR	JAN-DEC	JAN-DEC	
	Red drum		2	2	2	2	2	2	2	2	2	2	2	SEP-NOV	SEP-NOV	SEP-NOV	JAN-DEC	JAN-DEC	
	Redear sunfish		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JUL-JUL	
																		NOV-JAN	
	Sand seatrout		2	2	2	2	2	2	2	2	2	2	2	MAR-AUG	MAR-OCT	MAR-OCT	JAN-DEC	JAN-DEC	
	Silver perch		2	2	2	2	2	2	2	2	2	2	2	-	APR-JUL	APR-AUG	APR-JUL	FEB-DEC	
	Southern flounder		2	2	2	2	2	2	2	2	2	2	2	-	-	NOV-MAR	JAN-DEC	JAN-DEC	
	Spotfin mojarra		2	1	1	1	1	3	3	3	3	3	3	-	-	-	-	JAN-DEC	
	Spotted seatrout		2	2	2	2	2	2	2	2	2	2	2	APR-SEP	APR-SEP	APR-OCT	JAN-DEC	JAN-DEC	
	Striped anchovy		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	-	-	NOV-MAR	JAN-DEC	JAN-DEC	
	Threadfin shad		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JAN-DEC	
	White mullet		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	MAR-MAR	
84	Inland silverside		3	3	3	3	3	3	3	3	3	3	3	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC	
	Longnose killifish		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	FEB-FEB	
	Marsh killifish		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JUL-JUL	
																		JUL-AUG	
	Rainwater killifish		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	NOV-JUN	
	Rough silverside								2	2	1	1	1	-	-	-	-	JUN-AUG	
	Sailfin molly		2	2	1	1	1	1	1	1	1	1	2	-	-	-	-	SEP-JUL	
	Sheepshead minnow		2	2	2	2	2	2	2	2	2	2	2	APR-OCT	APR-OCT	APR-NOV	JAN-DEC	JAN-DEC	
85	Atlantic bumper					1	1	2	2	1	1	1	1	-	-	-	-	MAY-OCT	
	Atlantic spadefish					1	1	1	1	1	1	1	1	-	-	-	-	JUN-OCT	
	Black drum		2	2	2	2	2	2	2	2	2	2	2	-	-	FEB-APR	JAN-DEC	JAN-DEC	
	Bluefish		2	2	2	2	2	2	2	2	2	2	2	-	-	-	MAR-OCT	MAR-DEC	
	Florida pompano								2	2	2	2	2	-	-	-	-	JUN-SEP	
	Gulf butterfish		2	2	2	2	2	2	2	1	1	2	2	-	-	-	-	JAN-DEC	
	Gulf flounder		2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	FEB-OCT	
	Harvestfish					2	2	2	2	2	2	2	2	-	-	-	-	MAY-OCT	
	Ladyfish		1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	FEB-JUN	
																		NOV-DEC	
	Lane snapper								1	1	1	1	1	-	-	-			

Alabama: ESIMAP 27 (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
85	Southern hake		1	2	2	2	1							1	-	-	-	-	DEC-MAY
	Spotted hake		1	1	1	1								1	-	-	-	-	DEC-APR

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
74	Atlantic brief squid		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Blue crab		3	3	3	3	3	3	3	3	3	3	3	3	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC
	Brown shrimp		1	1	3	3	4	4	4	4	4	4	2		-	-	FEB-NOV	JAN-NOV	JUL-SEP
	Flatclaw hermit		2	2	2	2				2	2	2	2	2	-	-	-	-	AUG-APR
	Pink shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	JAN-DEC	JAN-DEC
	White shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	JAN-DEC	JAN-JUN
84	Five-slotted sand dollar		1	1	2	2	2	2	2	1	1				-	-	-	-	JAN-SEP
	Grass shrimp		3	3	3	3	3	3	3	3	3	3	2		-	-	-	JAN-DEC	JAN-DEC
	Lined sea star		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Thinstripe hermit		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
85	Mantis shrimp		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	MAR-NOV

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	-	-	-	-

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.