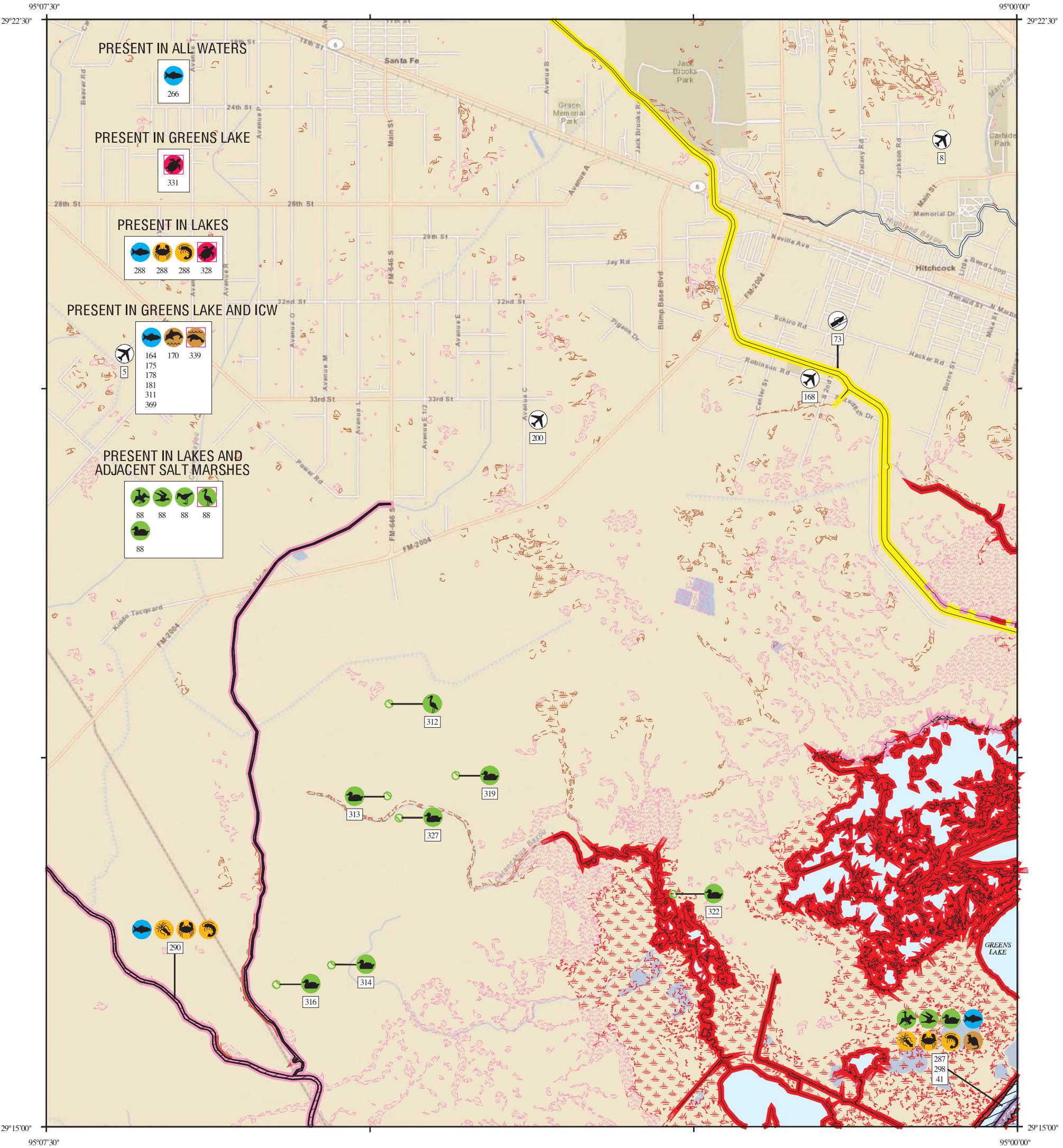
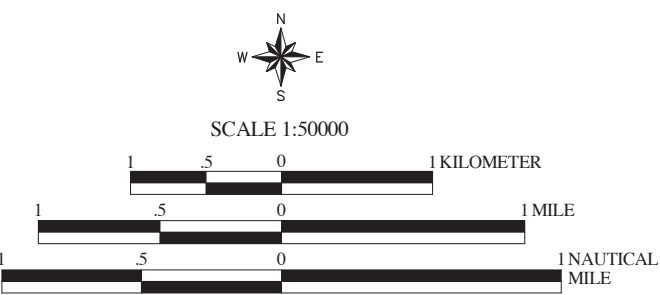


ENVIRONMENTAL SENSITIVITY INDEX MAP



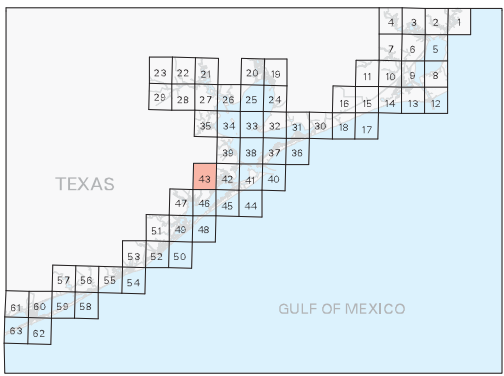
SHORELINE HABITATS (ESI)

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



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Emergency Response Division



Upper Texas Coast: ESIMAP 43

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
41	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Cormorants				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Diving birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Diving ducks				X	X	X	X					X	X	X		-	-	-
	Grebes				X	X	X	X	X			X	X	X	X		-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loons				X	X	X	X				X	X	X			-	-	-
	Pelicans				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
88	American avocet			1000S	X	X	X	X		X	X	X	X	X	X	X	-	MAR-APR JUL-NOV	-
	American oystercatcher			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black skimmer			100S	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-bellied plover			100S	X	X	X	X	X	X	X	X	X	X	X	X	-	MAR-MAY JUL-NOV	-
	Dowitchers			1000S	X	X	X	X	X		X	X	X	X	X	X	-	MAR-MAY JUL-NOV	-
	Dunlin			1000S	X	X	X	X	X			X	X	X	X		-	-	-
	Gulls				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Killdeer			10S	X	X	X	X	X	X	X	X	X	X	X	X	-	DEC-MAR	-
	Long-billed curlew			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR JUN-NOV	-
	Marbled godwit			100S	X	X	X	X		X	X	X	X	X	X	X	-	MAR-APR JUL-NOV	-
	Marsh birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pelicans				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Reddish egret	T		PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Ruddy turnstone			PRESENT	X	X	X	X	X		X	X	X	X	X	X	-	-	-
	Shorebirds			10000S	X	X	X	X	X		X	X	X	X	X	X	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Waterfowl				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Western sandpiper			1000S	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-MAY JUL-NOV	-
	Willet			100S	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-APR AUG-AUG	-
	Yellowlegs			100S	X	X	X	X	X		X	X	X	X	X	X	-	MAR-MAY JUL-NOV	-
312	Sandhill crane			PRESENT	X	X	X						X	X	X		-	-	-
313	Greater white-fronted goose			10S	X	X	X	X					X	X	X		-	-	-
	Ross's goose			100S	X	X	X						X	X	X		-	-	-
	Snow goose			100S	X	X	X						X	X	X		-	-	-
314	Greater white-fronted goose			100S	X	X	X	X					X	X	X		-	-	-
	Ross's goose			100S	X	X	X						X	X	X		-	-	-
	Snow goose			100S	X	X	X						X	X	X		-	-	-
316	Ross's goose			100S	X	X	X						X	X	X		-	-	-
	Snow goose			100S	X	X	X						X	X	X		-	-	-
319	Greater white-fronted goose			100S	X	X	X	X					X	X	X		-	-	-
	Ross's goose			1000S	X	X	X						X	X	X		-	-	-
	Snow goose			1000S	X	X	X						X	X	X		-	-	-
322	Ross's goose			10S	X	X	X						X	X	X		-	-	-
	Snow goose			10S	X	X	X						X	X	X		-	-	-
327	Greater white-fronted goose			10S	X	X	X	X					X	X	X		-	-	-
	Ross's goose			1000S	X	X	X						X	X	X		-	-	-
	Snow goose			1000S	X	X	X						X	X	X		-	-	-

FISH:

RAR#	Species	S F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
----	-----	-	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----	-----	-----
164	Atlantic sharpnose shark					X	X	X	X	X	X	X				-	-	-	APR-OCT	-
175	Bonnethead shark					X	X	X	X	X	X	X				-	SEP-NOV	-	APR-NOV	-
178	Bull shark		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	MAY-AUG	MAY-AUG	APR-NOV	JAN-DEC
181	Blacktip shark					X	X	X	X	X	X	X	X			MAY-JUN	MAY-JUN	MAY-NOV	MAR-NOV	MAY-JUN
266	Tarpon		RARE			X	X	X	X	X	X	X				-	-	-	MAR-NOV	-
287	Atlantic bumper		COMMON								X					-	-	-	-	SEP-SEP
	Atlantic spadefish		RARE						X	X	X	X	X			-	-	-	JUL-NOV	-
	Bay anchovy		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	APR-NOV	JAN-DEC
	Bay whiff		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-SEP	JAN-DEC
	Crevalle jack		COMMON			X	X	X	X	X	X	X	X			-	-	-	MAR-NOV	-
	Gafftopsail catfish		COMMON			X	X	X	X	X	X	X	X	X		APR-MAY	-	-	APR-NOV	MAR-NOV
	Gizzard shad		RARE	X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	JAN-DEC
	Gray snapper		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-OCT	JAN-DEC
	Gulf butterfish		RARE			X	X	X								-	-	-	-	-
	Gulf killifish		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Gulf menhaden		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	FEB-DEC
	Hardhead catfish		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-SEP	MAY-SEP	MAY-OCT	JAN-DEC
	Pinfish		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	JAN-DEC
	Sand seatrout		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	NOV-AUG	JAN-DEC
	Silver perch		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	FEB-DEC	JAN-DEC
	Silversides		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Southern kingfish		COMMON			X	X	X	X							-	-	-	JUL-NOV	-
	Spanish mackerel		COMMON			X	X	X	X	X	X	X				-	-	-	MAY-NOV	MAY-NOV
	Spotfin mojarra		COMMON			X	X	X	X	X						-	-	-	-	-
	Striped mullet		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White mullet		COMMON			X	X	X	X	X	X					-	-	-	MAY-NOV	-
288	Alligator gar		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Atlantic croaker		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Bay anchovy		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	MAR-DEC	JAN-DEC
	Bay whiff		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-SEP	JAN-DEC
	Black drum		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Crevalle jack		COMMON			X	X	X	X	X	X	X				-	-	-	MAR-NOV	SEP-NOV
	Gafftopsail catfish		COMMON			X	X	X	X	X	X	X				APR-MAY	-	-	APR-NOV	APR-NOV
	Gizzard shad		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Gulf killifish		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Gulf menhaden		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	APR-NOV
	Hardhead catfish		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-SEP	MAY-SEP	MAY-OCT	JAN-DEC
	Pinfish		ABUNDANT			X	X	X	X	X	X	X				-	-	-	MAR-NOV	MAR-NOV
	Red drum		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	SEP-NOV	JAN-DEC	JAN-DEC
	Sand seatrout		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	NOV-AUG	JAN-DEC
	Silversides		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Southern flounder		ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Spot		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	FEB-NOV	JAN-DEC
	Spotfin mojarra		COMMON								X	X	X			-	-	-	-	-
	Spotted seatrout		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	SEP-NOV	JAN-DEC
	Striped mullet		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White mullet		COMMON			X	X	X	X	X	X					-	-	-	MAY-NOV	-
290	Alligator gar		COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Atlantic croaker		HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-JUN	JAN-DEC	JAN-DEC

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.

Upper Texas Coast: ESIMAP 43 (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
290	Atlantic spadefish	RARE	X X X X X X X X X	-	-	-	APR-NOV	-
	Bay anchovy	ABUNDANT	X X X X X X X X X X X	MAR-NOV	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC
	Bay whiff	COMMON	X X X X X X X X X X X	-	-	-	APR-DEC	JAN-DEC
	Black drum	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Crevalle jack	COMMON	X X X X X X X X X	-	-	-	MAR-NOV	-
	Gafftopsail catfish	COMMON	X X X X X X X	APR-MAY	-	-	APR-OCT	APR-OCT
	Gizzard shad	COMMON	X X X X X X X X X X X	-	-	-	-	JAN-DEC
	Gulf killifish	COMMON	X X X X X X X X X X X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Gulf menhaden	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	-	JAN-DEC	APR-DEC
	Hardhead catfish	COMMON	X X X X X X X X X X X	MAY-AUG	MAY-SEP	MAY-SEP	APR-NOV	JAN-DEC
	Pinfish	COMMON	X X X X X X X X X X X	-	-	-	FEB-OCT	APR-DEC
	Red drum	ABUNDANT	X X X X X X X X X X X	-	-	SEP-NOV	JAN-DEC	JAN-DEC
	Sand seatrout	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	-	JUN-JUN	JAN-DEC
							DEC-MAR	
	Silver perch	COMMON	X X X X X X X X X X X	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Silversides	COMMON	X X X X X X X X X X X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Southern flounder	ABUNDANT	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Southern kingfish	RARE	X X X	-	-	-	AUG-OCT	-
	Spanish mackerel	RARE	X X	-	-	-	SEP-OCT	SEP-OCT
	Spot	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	-	FEB-NOV	JAN-DEC
	Spotfin mojarra	COMMON	X X X X X	-	-	-	-	-
	Spotted gar	COMMON	X X X X X X X X X X X	APR-MAY	APR-MAY	-	JAN-DEC	JAN-DEC
	Spotted seatrout	COMMON	X X X X X X X X X X X	APR-OCT	APR-OCT	APR-OCT	AUG-NOV	JAN-DEC
	Striped mullet	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	White mullet	ABUNDANT	X X X X X X X X	-	-	-	MAR-NOV	-
298	Atlantic croaker	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Black drum	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Red drum	COMMON	X X X X X X X X X X X	-	-	SEP-NOV	JAN-DEC	JAN-DEC
	Southern flounder	ABUNDANT	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Spot	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	-	FEB-NOV	JAN-DEC
	Spotted seatrout	COMMON	X X X X X X X X X X X	APR-OCT	APR-OCT	APR-OCT	JUL-NOV	JAN-DEC
311	Finetooth shark		X X X X X	-	MAY-JUN	MAY-OCT	-	MAY-JUN
369	Spinner shark		X X X X X	MAY-JUN	MAY-JUN	MAY-JUL	MAY-OCT	MAY-OCT

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
287	Blue crab	ABUNDANT	X X X X X X X X X X X	MAR-OCT	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC
	Brief squid	ABUNDANT	X X X X X X X X X X X	MAR-DEC	MAR-DEC	MAR-DEC	JAN-DEC	JAN-DEC
	Grass shrimp	ABUNDANT	X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Gulf stone crab	COMMON	X X X X X X X X X X X	NOV-MAR	MAR-NOV	MAR-DEC	JAN-DEC	JAN-DEC
	Lesser blue crab	COMMON	X X X X X X X	-	-	-	APR-OCT	APR-OCT
288	Blue crab	ABUNDANT	X X X X X X X X X X X	MAR-OCT	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	FEB-APR	JAN-DEC	-
	Grass shrimp	ABUNDANT	X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Gulf stone crab	COMMON	X X X X X X X X X X X	NOV-MAR	MAR-NOV	MAR-DEC	JAN-DEC	JAN-DEC
	White shrimp	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	JUN-OCT	JUN-JAN	JAN-DEC
290	Blue crab	ABUNDANT	X X X X X X X X X X X	MAR-OCT	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC
	Brief squid	COMMON	X X X X X X X X X X X	MAR-DEC	MAR-DEC	MAR-DEC	JAN-DEC	JAN-DEC
	Brown shrimp	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	FEB-APR	MAR-DEC	-
	Grass shrimp	ABUNDANT	X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Gulf stone crab	RARE	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Lesser blue crab	COMMON	X X	-	-	-	APR-MAY	-
							OCT-OCT	
	White shrimp	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	JUN-OCT	JUN-DEC	MAR-DEC
298	Brown shrimp	ABUNDANT	X X X X X X X X X X X	-	-	FEB-APR	MAR-NOV	-
	White shrimp	ABUNDANT	X X X X X X X X X X X	-	-	JUN-OCT	JUN-DEC	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
170	Bottlenose dolphin		X X X X X X X X X X X	-	JAN-DEC	-	-
339	West Indian manatee	E E VERY RARE	X X X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
328	Diamondback terrapin		X X X X X X X X X X X	APR-MAY	JUN-SEP	-	JAN-DEC	JAN-DEC
	Green sea turtle	T T OCCASIONAL	X X X X X X X X X	-	-	-	MAR-NOV	-
331	Kemp's ridley sea turtle	E E COMMON	X X X X X X X X X	-	-	-	APR-NOV	-

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
41	Northern river otter		X X X X X X X X X X X

HUMAN USE RESOURCES:

AIRPORT:

HUN#	Name	Contact	Phone
5	CREASY		
8	JOHNNIE VOLK FIELD		

BOAT RAMP:

HUN#	Name	Contact	Phone
73	HITCHCOCK BOAT RAMP		

HELIPORT:

HUN#	Name	Contact	Phone
168	HHI HITCHCOCK		
200	REPUBLIC HELICOPTERS		