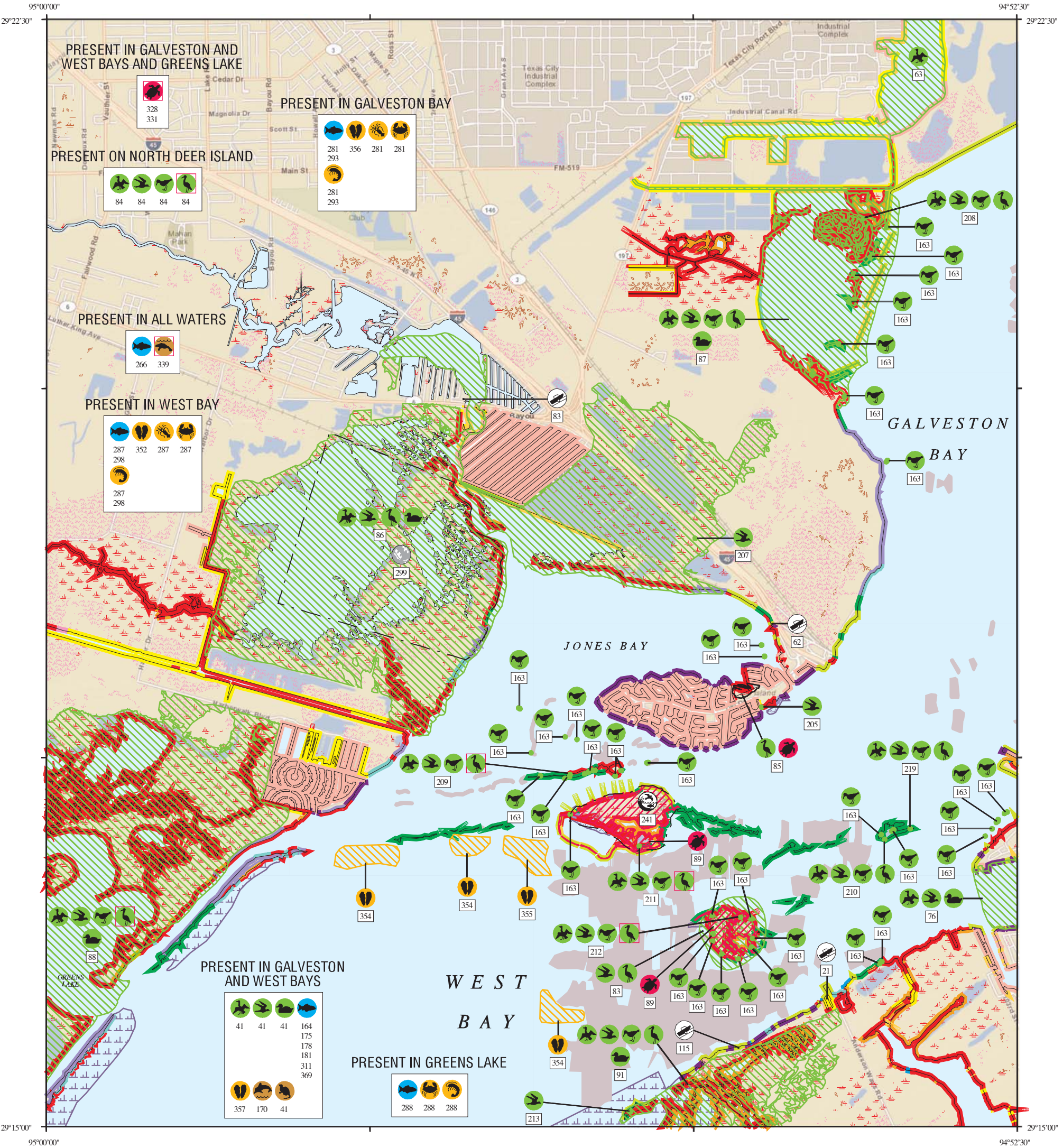


ENVIRONMENTAL SENSITIVITY INDEX MAP



**SHORELINE HABITATS (ESI)**

1B EXPOSED, SOLID MAN-MADE STRUCTURES	10A SALT-AND BRACKISH-WATER MARSHES
2A EXPOSED WAVE-CUT PLATFORMS IN CLAY	10B FRESHWATER MARSHES
2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY	10C SWAMPS
3A FINE- TO MEDIUM-GRAINED SAND BEACHES	10D SCRUB-SHRUB WETLANDS
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	

SCALE 1:50000

1 KILOMETER

1 MILE

1 NAUTICAL MILE

Not For Navigation  
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Emergency Response Division

TEXAS

GULF OF MEXICO



Upper Texas Coast: ESIMAP 42

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	-	-	-
63	Grebes	HIGH	X	X	X	X	X			X	X	X	X		-	-	-
	Loons	HIGH	X	X	X	X				X	X	X	X		-	-	-
76	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	-	-	-
83	Laughing gull		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	-	-	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
84	American oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown pelican		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	-	-	-
	Reddish egret	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
85	Rails		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
86	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	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	-	-	-
	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	-	-	-
87	Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Grebes		X	X	X	X	X			X	X	X	X		-	-	-
	Loons		X	X	X	X				X	X	X			-	-	-
	Shorebirds		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	-	-	-
88	American avocet	1000S	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		-	MAR-MAY JUL-NOV	-
	Dunlin	1000S	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		-	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		-	-	-
	Shorebirds	10000S	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		-	MAR-MAY JUL-NOV	-
91	Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Forster's tern		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulls		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	-	-	-
	Marsh birds		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	FEB-AUG	-	JUN-AUG
	Pelicans		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Plovers		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shorebirds		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	-	-	-
163	American oystercatcher	1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
205	Black skimmer	131 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
207	Least tern	14-39 PAIRS		X	X	X	X	X	X	X					APR-SEP	-	-
208	American oystercatcher	2 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
	Black skimmer	2-101 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
	Brown pelican	12 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Forster's tern	37-117 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Gull-billed tern	9 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Laughing gull	45 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Least tern	47 PAIRS		X	X	X	X	X	X	X					APR-SEP	-	-
	Roseate spoonbill	1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Royal tern	1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Tricolored heron	14 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
209	American oystercatcher	1-10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
	Black skimmer	16-110 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
	Brown pelican	65-1049 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Caspian tern	25 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Cattle egret	1-8 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Double-crested cormorant	2 INDIV	X	X	X	X				X	X	X			-	-	-
	Forster's tern	20 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Great blue heron	2-7 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	-	-
	Great egret	1-3 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-APR	-
	Laughing gull	157-1350 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Little blue heron	1-2 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Neotropic cormorant	87 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	-	-
	Reddish egret	T 1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Snowy egret	1-15 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Tricolored heron	4-69 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	White ibis	8-280 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-

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 42 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
209	Yellow-crowned night-heron	4 PAIRS	X X X X X X X X	APR-SEP	-	-
210	American oystercatcher	2-6 PAIRS	X X X X X X X X X X	FEB-JUL	-	-
	American white pelican	60 INDIV	X X X X X X	-	-	-
	Black skimmer	4-81 PAIRS	X X X X X X X X X X	APR-SEP	-	-
	Brown pelican	4-7 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	Forster's tern	28 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Great blue heron	1 PAIR	X X X X X X X X X X	FEB-JUN	-	-
	Great egret	2 PAIRS	X X X X X X X X X X	MAR-JUL	MAR-APR	-
	Laughing gull	20-351 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Neotropic cormorant	4 PAIRS	X X X X X X X X X X	FEB-OCT	-	-
	Royal tern	70-3133 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Sandwich tern	1-1750 PAIRS	X X X X X X X X	MAR-AUG	-	-
	Snowy egret	2 PAIRS	X X X X X X X X X X	APR-JUL	-	-
211	American oystercatcher	2-8 PAIRS	X X X X X X X X X X	FEB-JUL	-	-
	Black skimmer	4 PAIRS	X X X X X X X X X X	APR-SEP	-	-
	Black-crowned night-heron	1-12 PAIRS	X X X X X X X X X X	APR-AUG	APR-MAY	-
	Brown pelican	350-2615 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	Caspian tern	26-107 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Cattle egret	2-78 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Double-crested cormorant	724 INDIV	X X X X X X X X	-	-	-
	Forster's tern	3-17 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Great blue heron	9-67 PAIRS	X X X X X X X X X X	FEB-JUN	-	-
	Great egret	42-236 PAIRS	X X X X X X X X X X	MAR-JUL	MAR-APR	-
	Laughing gull	2092-6956 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Little blue heron	3-11 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Neotropic cormorant	55-641 PAIRS	X X X X X X X X X X	FEB-OCT	-	-
	Reddish egret	T 4-35 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Reddish egret (white morph)	T 1 PAIR	X X X X X X X X X X	MAR-AUG	-	-
	Roseate spoonbill	10-129 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	Royal tern	11-2000 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Snowy egret	12-143 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Tricolored heron	16-1230 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	White ibis	14-23600 PAIRS	X X X X X X X X X X	FEB-JUL	-	-
	White-faced ibis	T 16-84 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
212	Yellow-crowned night-heron	1-7 PAIRS	X X X X X X X X	APR-SEP	-	-
	American oystercatcher	6-9 PAIRS	X X X X X X X X X X	FEB-JUL	-	-
	Black skimmer	1-4 PAIRS	X X X X X X X X X X	APR-SEP	-	-
	Caspian tern	2-153 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Forster's tern	4-16 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Great blue heron	1-6 PAIRS	X X X X X X X X X X	FEB-JUN	-	-
	Great egret	1-27 PAIRS	X X X X X X X X X X	MAR-JUL	MAR-APR	-
	Green heron	4 INDIV	X X X X X X X X	APR-JUN	-	-
	Laughing gull	801-2700 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Little blue heron	2-3 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Neotropic cormorant	6 PAIRS	X X X X X X X X X X	FEB-OCT	-	-
	Reddish egret	T 6 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Roseate spoonbill	2-1200 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	Royal tern	60-5625 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Sandwich tern	172 PAIRS	X X X X X X X	MAR-AUG	-	-
	Snowy egret	2-46 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Tricolored heron	6-101 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	White ibis	10-4000 PAIRS	X X X X X X X X X X	FEB-JUL	-	-
	White-faced ibis	T 27-167 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
213	Yellow-crowned night-heron	4 PAIRS	X X X X X X X X	APR-SEP	-	-
	Black skimmer	2-85 PAIRS	X X X X X X X X X X	APR-SEP	-	-
	Caspian tern	3 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Forster's tern	6-140 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Gull-billed tern	1-56 PAIRS	X X X X X X X X X X	APR-JUL	-	-
	Laughing gull	9-54 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
219	American oystercatcher	1-2 PAIRS	X X X X X X X X X X	FEB-JUL	-	-
	Black skimmer	1-152 PAIRS	X X X X X X X X X X	APR-SEP	-	-
	Brown pelican	10 PAIRS	X X X X X X X X X X	APR-AUG	-	-
	Forster's tern	3-250 PAIRS	X X X X X X X X X X	MAR-AUG	-	-
	Gull-billed tern	1 PAIR	X X X X X X X X X X	APR-JUL	-	-
	Laughing gull	6-7 PAIRS	X X X X X X X X X X	FEB-AUG	-	-
	Tricolored heron	1 PAIR	X X X X X X X X X X	APR-AUG	-	-

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 X	-	SEP-NOV	-	APR-NOV	-
178	Bull shark	ABUNDANT	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 X	-	-	-	MAR-NOV	-
281	Atlantic bumper	ABUNDANT	X X X X X	-	-	-	-	JUN-OCT
	Atlantic spadefish	RARE	X X	-	-	-	AUG-SEP	-
	Bay anchovy	HIGHLY ABUNDANT	X X X X X X X X X X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	Bay whiff	COMMON	X X X X X X X X X X	-	-	-	APR-MAY	JAN-DEC
	Crevalle jack	COMMON	X X X X X X X X	-	-	-	MAR-NOV	SEP-NOV
	Gafftopsail catfish	COMMON	X X X X X X	APR-MAY	-	-	APR-OCT	APR-OCT
	Gizzard shad	RARE	X X X X X X X X X X	-	-	-	-	JAN-DEC
	Gulf butterfish	RARE	X X X X X	X	-	-	-	-
	Gulf killifish	COMMON	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	-	-	-	JAN-DEC	JAN-DEC
	Hardhead catfish	ABUNDANT	X X X X X X X X X X	MAY-AUG	MAY-SEP	MAY-SEP	MAY-OCT	JAN-DEC
	Pinfish	COMMON	X X X X X X X X X X	-	-	-	FEB-OCT	JUN-FEB
	Sand seatrout	COMMON	X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead	COMMON	X X X X X X X X X X	-	-	-	DEC-MAR	JAN-DEC
	Silver perch	COMMON	X X X X X X X X X X	MAY-SEP	MAY-SEP	MAY-SEP	MAR-JUN	JAN-DEC
							OCT-DEC	
	Silversides	COMMON	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 X X X X	-	-	-	APR-NOV	-
	Spanish mackerel	COMMON	X X X X X X X	-	-	-	APR-NOV	APR-NOV
	Spotfin mojarra	RARE	X X X	-	-	-	-	-
	Striped mullet	COMMON	X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	White mullet	ABUNDANT	X X X X X	-	-	-	MAY-OCT	-
287	Atlantic bumper	COMMON	X	-	-	-	-	SEP-SEP
	Atlantic spadefish	RARE	X X X X	-	-	-	JUL-NOV	-
	Bay anchovy	ABUNDANT	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	-	-	-	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	APR-MAY	-	-	APR-NOV	MAR-NOV
	Gizzard shad	RARE	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	-	-	-	AUG-OCT	JAN-DEC
	Gulf butterfish	RARE	X X X	-	-	-	-	-
	Gulf killifish	ABUNDANT	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	-	-	-	JAN-DEC	FEB-DEC
	Hardhead catfish	ABUNDANT	X X X X X X X X X X	MAY-AUG	MAY-SEP	MAY-SEP	MAY-OCT	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 42 (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
287	Pinfish	ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead	ABUNDANT	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	MAY-SEP	MAY-SEP	MAY-SEP	FEB-DEC	JAN-DEC
	Silversides	ABUNDANT	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 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	-	-	-	JAN-DEC	JAN-DEC
	White mullet	COMMON	X X X X X X X	-	-	-	MAY-NOV	-
288	Alligator gar	COMMON	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	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Bay anchovy	HIGHLY ABUNDANT	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	-	-	-	MAR-SEP	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	-	-	-	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	-	-	-	-	JAN-DEC
	Gulf killifish	ABUNDANT	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-NOV
	Hardhead catfish	ABUNDANT	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	-	-	-	MAR-NOV	MAR-NOV
	Red drum	COMMON	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	ABUNDANT	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	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
	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 X X	-	-	-	-	-
	Spotted seatrout	COMMON	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	-	-	-	JAN-DEC	JAN-DEC
	White mullet	COMMON	X X X X X X X	-	-	-	MAY-NOV	-
293	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	APR-MAY	APR-MAY	APR-MAY	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	-	-	-	MAR-OCT	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
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 X	-	MAY-JUN	MAY-OCT	-	MAY-JUN
369	Spinner shark		X 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
281	Atlantic seabob shrimp	RARE	X X X X	-	-	-	-	JUN-SEP
	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	RARE	X X X X X X X X X X X	NOV-MAR	MAR-NOV	MAR-DEC	JAN-DEC	JAN-DEC
	Lesser blue crab	ABUNDANT	X X X X X X X	-	-	-	APR-NOV	APR-NOV
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
293	Brown shrimp	ABUNDANT	X X X X X X X X X X X	-	-	FEB-APR	APR-DEC	-
	White shrimp	ABUNDANT	X X X X X X X X X X X	-	-	JUN-OCT	JUN-DEC	JAN-DEC
298	Brown shrimp	ABUNDANT	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
352	Eastern oyster	REEF	X X X X X X X X X X X	MAR-DEC	MAR-DEC	-	-	JAN-DEC
354	Eastern oyster	LOW	X X X X X X X X X X X	MAR-DEC	MAR-DEC	-	-	JAN-DEC
355	Eastern oyster	HIGH	X X X X X X X X X X X	MAR-DEC	MAR-DEC	-	-	JAN-DEC
356	Eastern oyster	UNCONSOLIDATED	X X X X X X X X X X X	MAR-DEC	MAR-DEC	-	-	JAN-DEC
357	Eastern oyster	REEF	X X X X X X X X X X X	MAR-DEC	MAR-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	Interneesting	Juveniles	Adults
85	Diamondback terrapin		X X X X X X X X X X X	APR-MAY	JUN-SEP	-	JAN-DEC	JAN-DEC
89	Diamondback terrapin	HIGH	X X X X X X X X X X X	APR-MAY	JUN-SEP	-	JAN-DEC	JAN-DEC
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	-	-	-	MAR-NOV	-
331	Kemp's ridley sea turtle	E E COMMON	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:

BOAT RAMP:

HUN#	Name	Contact	Phone
21	8-MILE ROAD BAIT CAMP RAMP		
62	FAT BOY'S RAMP		
83	LOUIS BAIT CAMP		
115	SPORTSMAN ROAD RAMP		

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Upper Texas Coast: ESIMAP 42 (cont.)

HUMAN USE RESOURCES: (cont.)

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
241	NORTH DEER ISLAND	HOUSTON AUDUBON (RICAHRD GIBBONS)	713/932-1639

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
299	PIERCE MARSH EASEMENT		