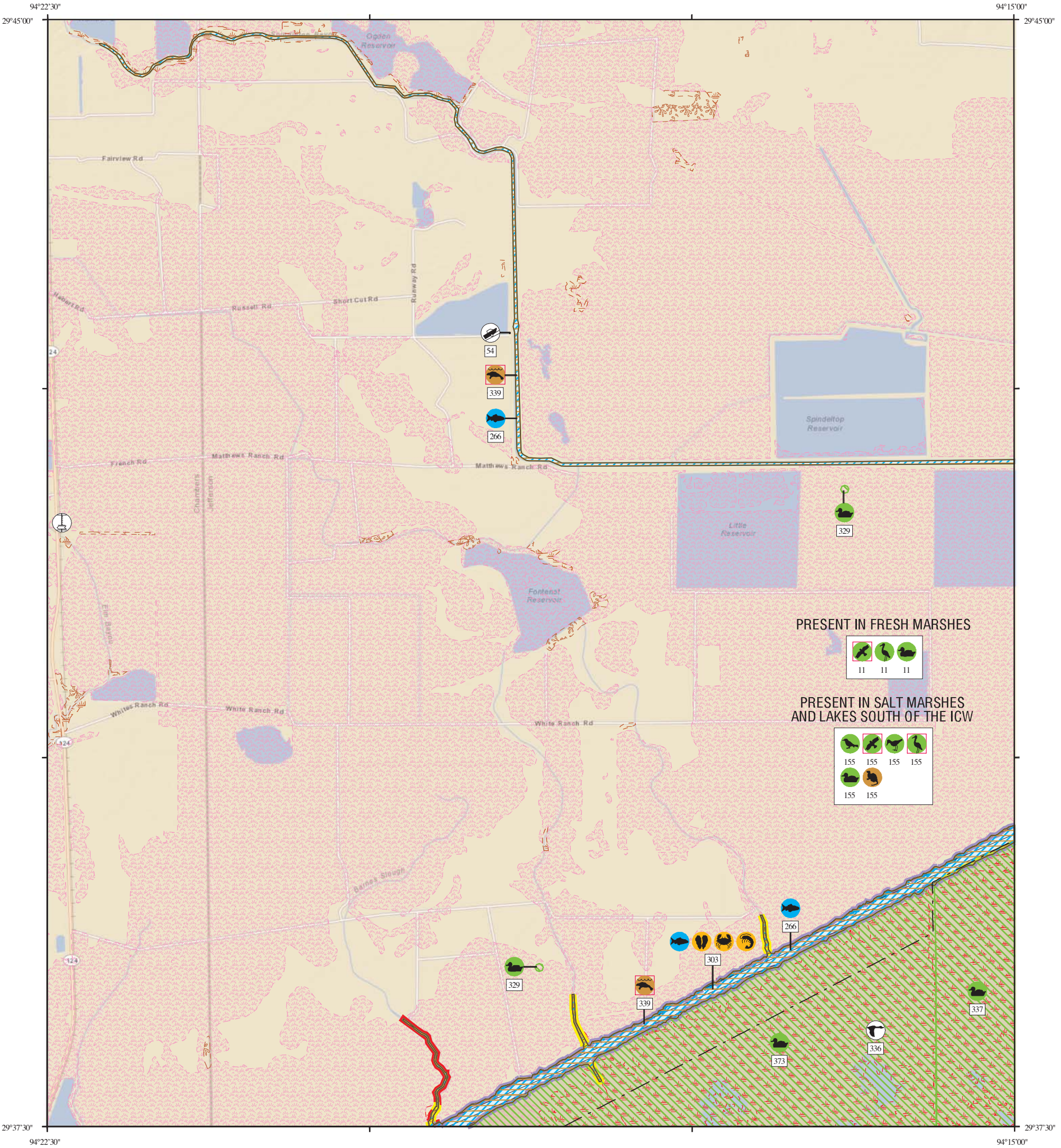
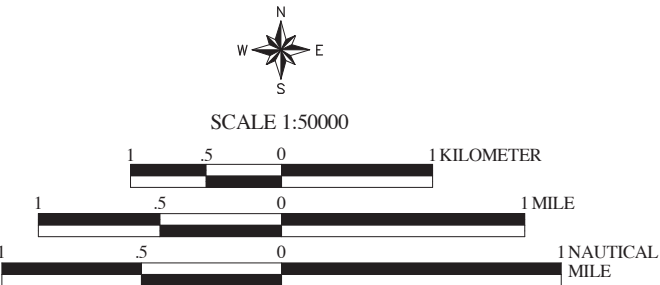


ENVIRONMENTAL SENSITIVITY INDEX MAP



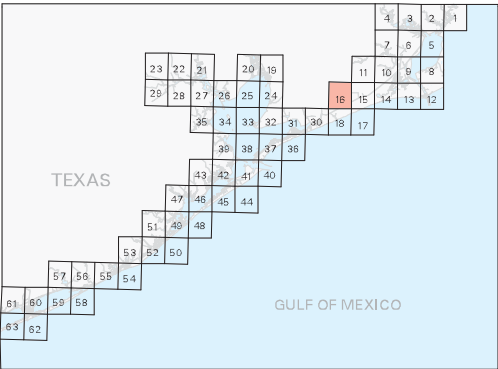
SHORELINE HABITATS (ESI)

- 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 16

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
11	Dabbling ducks		X X X X X	X X X X	-	-
	Marsh birds		X X X X X X X X X X X X	-	-	-
	Osprey		X X X X X	X X X X	-	-
	Peregrine falcon	T	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	-	-	-
155	American bittern		X X X X X	X X X X	-	-
	Black rail		X X X X X X X X X X X X	-	-	-
	Black-necked stilt	10S	X X X X X X X X X X	-	-	-
	Clapper rail		X X X X X X X X X X X X	FEB-SEP	-	-
	Common moorhen		X X X X X X X X X X X X	MAR-OCT	-	-
	Dowitchers	100S	X X X X X	X X X X X X	-	MAR-MAY JUL-NOV
	Dunlin	100S	X X X X X	X X X X	-	-
	Killdeer	100S	X X X X X X X X X X X X	-	DEC-MAR	-
	King rail		X X X X X X X X X X X X	APR-MAY	-	-
	Marsh birds		X X X X X X X X X X X X	-	-	-
	Migratory songbirds		X X	-	-	-
	Peregrine falcon	T	X X X X	X X X X X	-	-
	Shorebirds	1000S	X X X X X	X X X X X X	-	-
	Sora		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	HIGH	X X X X X X X X X X X X	-	-	-
	Western sandpiper	100S	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	-
	Wood stork	T	OCCASIONAL	X X X X X	-	-
	Yellow rail		X X X X	X X X X	-	-
	Yellowlegs	10S	X X X X X	X X X X X X	-	MAR-MAY JUL-NOV
329	Greater white-fronted goose		X X X X	X X X	-	-
	Snow goose		X X X	X X X	-	-
337	American coot	10000S	X X X X	X X X X	-	-
	American wigeon	1000S	X X X	X X X X	-	-
	Blue-winged teal	10000S	X X X X X X X X X X X X	MAY-JUL	-	-
	Bufflehead	10S	X X X	X X	-	-
	Canada goose	100S	X X X	X X X	-	-
	Canvasback	100S	X X X	X X X	-	-
	Fulvous whistling-duck	10S	X X X X X X X X X X X X	MAY-AUG	-	-
	Gadwall	10000S	X X X X	X X X X	-	-
	Greater white-fronted goose	100S	X X X	X X X	-	-
	Green-winged teal	10000S	X X X X	X X X X	-	-
	Lesser scaup	1000S	X X X X	X X X	-	-
	Mallard	100S	X X X	X X X	-	-
	Mottled duck	100S	X X X X X X X X X X X X	FEB-AUG	-	JUN-AUG
	Northern pintail	1000S	X X X	X X X X	-	-
	Northern shoveler	10000S	X X X X	X X X X	-	-
	Redhead	10S	X X X	X X X	-	-
	Ring-necked duck	1000S	X X X	X X X	-	-
	Ruddy duck	1000S	X X X	X X X	-	-
	Snow goose	10000S	X X X	X X	-	-
	Wood duck	10S	X X X X X X X X X X X X	FEB-JUL	-	-
373	American coot	1000S	X X X X	X X X X	-	-
	American wigeon	1000S	X X X	X X X X	-	-
	Blue-winged teal	10000S	X X X X X	X X X X X	-	-
	Canada goose	10S	X X X	X X X	-	-
	Canvasback	PRESENT	X X X	X X X	-	-
	Fulvous whistling-duck	10S	X X X X X X X X X X X X	MAY-AUG	-	-
	Gadwall	1000S	X X X X	X X X X	-	-
	Greater white-fronted goose	1000S	X X X	X X X	-	-
	Green-winged teal	10000S	X X X X	X X X X	-	-
	Lesser scaup	100S	X X X X	X X X	-	-
	Mallard	100S	X X X	X X X	-	-
	Mottled duck	100S	X X X X X X X X X X X X	FEB-AUG	-	JUN-AUG
	Northern pintail	100S	X X X	X X X X	-	-
	Northern shoveler	10000S	X X X X	X X X X	-	-
	Redhead	PRESENT	X X X	X X X	-	-
	Ring-necked duck	PRESENT	X X X	X X X	-	-
	Ruddy duck	10S	X X X	X X X	-	-
	Snow goose	10000S	X X X	X X	-	-
	Wood duck	PRESENT	X X X X X X X X X X X X	FEB-JUL	-	-

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
266	Tarpon	RARE	X X X X X X X X X X	-	-	-	MAR-NOV	-
303	Alligator gar		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
	Atlantic spadefish	RARE	X X X X X X X X	-	-	-	MAY-DEC	-
	Bay anchovy	COMMON	X X X X X X X X X X X X	MAR-NOV	MAR-NOV	MAR-NOV	FEB-DEC	JAN-DEC
	Bay whiff	RARE	X X X X X X X X X X X X	-	-	-	APR-SEP	JAN-DEC
	Black drum	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Blue catfish	ABUNDANT	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Bull shark	COMMON	X X X X X X X X X X X X	-	MAY-AUG	MAY-AUG	APR-NOV	JAN-DEC
	Gafftopsail catfish	COMMON	X X 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 X X	-	-	-	-	JAN-DEC
	Gulf menhaden	ABUNDANT	X X X X X X X X X X X X	-	-	-	JAN-DEC	APR-OCT
	Hardhead catfish	ABUNDANT	X X X X X X X X X X X X	MAY-AUG	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC
	Red drum	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sand seatrout	RARE	X X 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 X X	-	-	-	DEC-JAN	JAN-DEC
	Silver perch	RARE	X X X X X X X X X X X X	MAY-SEP	MAY-SEP	MAY-SEP	JUN-DEC	JUN-DEC
	Southern flounder	COMMON	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	-	-	-	FEB-NOV	APR-NOV
	Spotted seatrout	COMMON	X X X X X X X X X X X X	-	-	-	AUG-NOV	JAN-DEC
	Striped mullet	COMMON	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
303	Atlantic rangia		X X X X X X X X X X X X	MAR-OCT	-	MAR-OCT	JAN-DEC	JAN-DEC
	Atlantic seabob shrimp	RARE	X X X X	-	-	-	-	AUG-NOV
	Blue crab	ABUNDANT	X X X X X X X X X X X X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp	COMMON	X X X X X X X X X X	-	-	MAR-APR	MAY-NOV	-
	White shrimp	ABUNDANT	X X X X X X X X X X X X	-	-	MAY-JUN	MAY-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 16 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
339	West Indian manatee	E E VERY RARE	X X X	-	-	-	-

TERRESTRIAL MAMMAL:

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

HUMAN USE RESOURCES:

BOAT RAMP:

HUN#	Name	Contact	Phone
54	COUNTY RAMP		

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
336	MCFADDIN NATIONAL WILDLIFE REFUGE		

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.