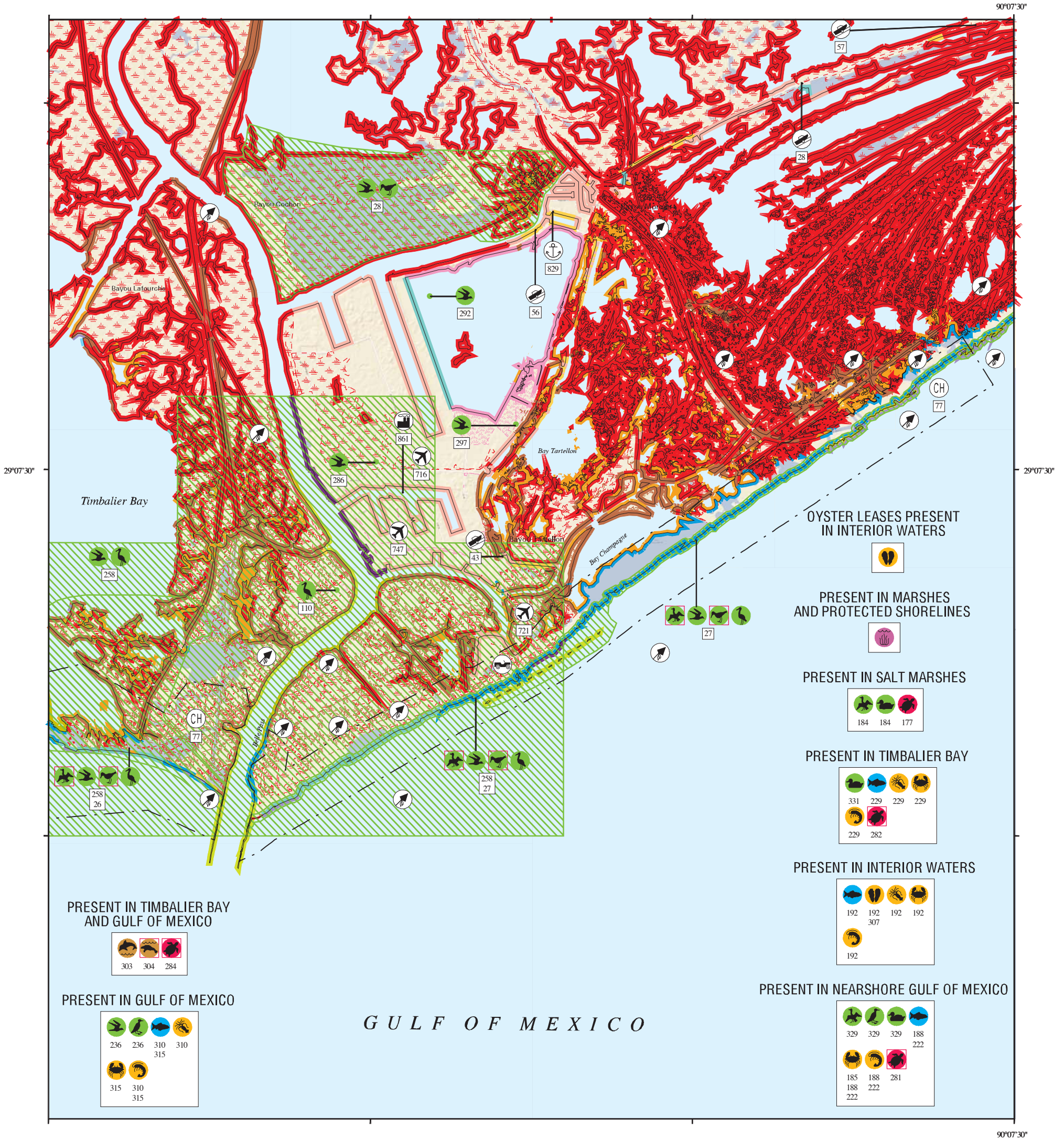


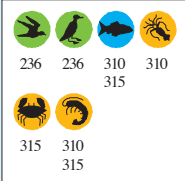
# ENVIRONMENTAL SENSITIVITY INDEX MAP



PRESENT IN TIMBALIER BAY AND GULF OF MEXICO



PRESENT IN GULF OF MEXICO



OYSTER LEASES PRESENT IN INTERIOR WATERS



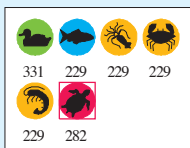
PRESENT IN MARSHES AND PROTECTED SHORELINES



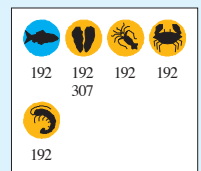
PRESENT IN SALT MARSHES



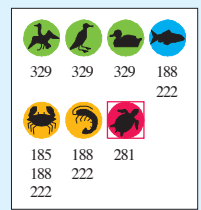
PRESENT IN TIMBALIER BAY



PRESENT IN INTERIOR WATERS



PRESENT IN NEARSHORE GULF OF MEXICO



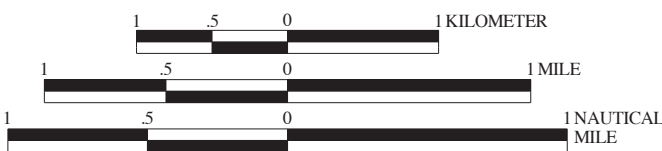
GULF OF MEXICO

## SHORELINE HABITATS (ESI)

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

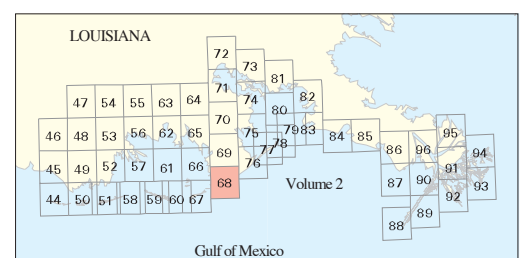
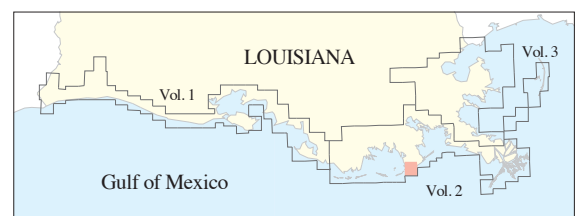


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National Ocean Service  
Office of Response and Restoration  
Emergency Response Division



Louisiana: ESIMAP 68

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
26	American oystercatcher	1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Baird's sandpiper					X	X	X	X					-	-	-	
	Black skimmer		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Black tern							X	X	X				-	-	-	
	Black-bellied plover		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Brown pelican	E	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Caspian tern		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Double-crested cormorant		X	X	X	X			X	X	X	X		-	-	-	
	Dunlin		X	X	X	X			X	X	X	X		-	-	-	
	Gull-billed tern		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Herring gull		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Laughing gull		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Least sandpiper		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Least tern	86 PAIRS				X	X	X	X	X				APR-SEP	-	-	
	Piping plover	T T	X	X	X	X			X	X	X	X	X	-	-	-	
	Red knot				X	X	X		X	X	X			-	-	-	
	Reddish egret		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Royal tern		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Ruddy turnstone		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Sandwich tern				X	X	X	X	X	X				-	-	-	
	Semipalmated plover		X	X	X	X			X	X	X	X		-	-	-	
	Semipalmated sandpiper				X	X	X	X	X	X				-	-	-	
	Short-billed dowitcher		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Snowy plover		X	X	X				X	X	X	X		-	-	-	
	Spotted sandpiper		X	X	X	X			X	X	X	X	X	-	-	-	
	Western sandpiper		X	X	X	X			X	X	X	X	X	-	-	-	
	Whimbrel				X	X	X							-	-	-	
	Willet		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Wilson's plover	18 PAIRS			X	X	X	X	X	X				MAR-JUL	-	-	
27	American avocet	UP TO 6 BIRDS /KM	X	X	X	X			X	X	X	X		-	-	-	
	American oystercatcher	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	American white pelican	UP TO 112 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Black skimmer	UP TO 1243 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Black tern	UP TO 62 BIRDS /KM							X	X	X			-	-	-	
	Black-bellied plover	UP TO 24 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Black-necked stilt	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Brown pelican	E UP TO 2610 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Buff-breasted sandpiper	UP TO 1 BIRD /KM			X	X	X		X	X				-	-	-	
	Caspian tern	UP TO 28 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Double-crested cormorant	UP TO 144 BIRDS /KM	X	X	X	X			X	X	X	X		-	-	-	
	Dowitchers	UP TO 138 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Dunlin	UP TO 263 BIRDS /KM	X	X	X	X			X	X	X	X		-	-	-	
	Forster's tern	UP TO 84 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Glaucous gull	LESS THAN 1 BIRD /KM	X	X	X				X	X				-	-	-	
	Greater yellowlegs	UP TO 9 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Gull-billed tern	UP TO 1 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Herring gull	UP TO 95 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Killdeer	UP TO 10 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Laughing gull	UP TO 2797 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Least sandpiper	UP TO 41 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Least tern	374 PAIRS				X	X	X	X	X				APR-SEP	-	-	
	Lesser black-backed gull	UP TO 1 BIRD /KM	X	X	X				X	X	X			-	-	-	
	Lesser yellowlegs	UP TO 10 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Piping plover	T T UP TO 38 BIRDS /KM	X	X	X	X			X	X	X	X	X	-	-	-	
	Red knot	UP TO 54 BIRDS /KM			X	X	X		X	X				-	-	-	
	Reddish egret	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Royal tern	UP TO 373 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Ruddy turnstone	UP TO 13 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Sandwich tern	UP TO 497 BIRDS /KM			X	X	X	X	X	X				-	-	-	
	Semipalmated plover	UP TO 31 BIRDS /KM	X	X	X	X			X	X	X	X		-	-	-	
	Semipalmated sandpiper	UP TO 3 BIRDS /KM			X	X	X	X	X	X				-	-	-	
	Short-billed dowitcher	UP TO 8 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Snowy plover	UP TO 2 BIRDS /KM	X	X	X				X	X	X	X		-	-	-	
	Spotted sandpiper	UP TO 1 BIRD /KM	X	X	X	X			X	X	X	X	X	-	-	-	
	Western sandpiper	UP TO 84 BIRDS /KM	X	X	X	X			X	X	X	X	X	-	-	-	
	Whimbrel	UP TO 1 BIRD /KM			X	X	X							-	-	-	
	White-rumped sandpiper	LESS THAN 1 BIRD /KM			X	X								-	-	-	
	Willet	UP TO 24 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Wilson's plover	36 PAIRS			X	X	X	X	X	X				MAR-JUL	-	-	
28	Least tern	133 PAIRS			X	X	X	X	X					APR-SEP	-	-	
	Wilson's plover	16 PAIRS			X	X	X	X	X					MAR-JUL	-	-	
110	Great egret	900 PAIRS	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-	
	Little blue heron	30 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	
	Roseate spoonbill	125 PAIRS	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	
	Tricolored heron	10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	
	White ibis	200 PAIRS	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	
184	American coot	UP TO 2 IND/SQ MI	X	X	X				X	X	X			-	-	-	
	American white pelican	HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	American wigeon	UP TO 19 IND/SQ MI	X	X	X				X	X	X			-	-	-	
	Blue-winged teal	UP TO 12 IND/SQ MI	X	X	X				X	X	X			-	-	-	
	Canvasback	UP TO 2 IND/SQ MI	X	X	X				X	X				-	-	-	
	Gadwall	UP TO 181 IND/SQ MI	X	X	X				X	X				-	-	-	
	Green-winged teal	UP TO 232 IND/SQ MI	X	X	X				X	X				-	-	-	
	Hooded merganser	UP TO 8 IND/SQ MI	X	X	X				X	X				-	-	-	
	Mallard	UP TO 4 IND/SQ MI	X	X	X				X	X				-	-	-	
	Mottled duck	UP TO 17 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	
	Northern pintail	UP TO 6 IND/SQ MI	X	X	X				X	X				-	-	-	
	Northern shoveler	UP TO 9 IND/SQ MI	X	X	X	X			X	X	X			-	-	-	
	Ring-necked duck	UP TO 9 IND/SQ MI	X	X	X				X	X				-	-	-	
	Scaup	UP TO 468 IND/SQ MI	X	X	X	X			X	X				-	-	-	
236	Black tern								X	X	X			-	-	-	
	Cory's shearwater								X	X	X	X		-	-	-	
	Great shearwater				X				X	X	X			-	-	-	
	Gulls		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Magnificent frigatebird				X	X	X	X	X					-	-	-	
	Northern gannet		X	X	X				X	X				-	-	-	
	Parasitic jaeger				X	X			X	X				-	-	-	
	Pomarine skua		X	X	X	X			X	X	X	X	X	-	-	-	
	Royal tern		X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Sandwich tern				X	X	X	X	X					-	-	-	
258	Terns	1275 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	
	Wading birds	60 PAIRS	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	
286	Least tern	15 PAIRS			X	X	X	X	X					APR-SEP	-	-	
292	Least tern	35 PAIRS			X	X	X	X						APR-SEP	-	-	
297	Least tern	2 PAIRS			X	X	X	X						APR-SEP	-	-	
329	Common loon		X	X	X				X	X				-	-	-	
	Northern gannet		X	X	X				X	X				-	-	-	
	Scaup	100,000S	X	X	X	X			X	X				-	-	-	
	Sea ducks		X	X	X				X	X				-	-	-	
331	Scaup	100,000S	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. The LDWF-LNHP provided information for some of the federally and state listed species and species of conservation concern for display in the ESI atlas and accompanying digital data in 2013. The available LNHP data sets are to be used for oil spill response and spill response planning only. These data represent existing information known to the LNHP at the time of the request and should never be substituted for consultation with the LNHP. The more spatially generalized 2011 polygonal waterbird colony data was provided by LNHP and the more spatially specific 2006 point waterbird colony data was provided by BTNEP. The display of these two data sets does not imply that EITHER or BOTH sets of polygons and/or points (especially if counts are aggregated) reflect current nest locations OR counts, but rather are to be used as a guide for what species could be present.



**Louisiana: ESIMAP 68 (cont.)**

**BIOLOGICAL RESOURCES: (cont.)**

**INVERTEBRATE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
185	Blue crab	HIGH SPAWNING CONC						X	X	X					JUN-AUG	-	-	-	-
188	Atlantic seabob shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Blue crab	ABUNDANT	X	X	X	X				X	X	X	X	-	-	SEP-MAY	SEP-MAY	SEP-MAY	
	White shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	-	-	-	JAN-DEC
192	Atlantic rangia	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	Atlantic seabob shrimp	ABUNDANT	X	X							X	X		-	-	-	-	-	
	Blue crab	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-NOV	APR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	JAN-DEC	-
	Fiddler crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-
	Grass shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Squid	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	Stone crab	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-NOV	JAN-DEC	-
222	Atlantic seabob shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Blue crab	ABUNDANT	X	X	X	X				X	X	X	X	X	-	-	SEP-MAY	SEP-MAY	SEP-MAY
	Grass shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	White shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	-	-	-	JAN-DEC
229	Atlantic seabob shrimp	COMMON									X	X			-	-	-	-	
	Blue crab	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-NOV	APR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	JAN-DEC	-
	Fiddler crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-
	Grass shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Squid	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	Stone crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JAN-DEC	-
307	Eastern oyster	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
310	Brown shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-APR	-	JAN-DEC
	Squid	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
315	Atlantic seabob shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Blue crab	ABUNDANT								X	X	X	X	X	APR-NOV	-	MAR-NOV	MAR-OCT	MAR-OCT
	White shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	-	-	-	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
303	Bottlenose dolphin	VERY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
304	West Indian manatee	E E RARE TO UNCOMMON	X	X	X	X	X	X	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
177	Diamondback terrapin				X	X	X	X	X	X	X				-	-	-	-	-
281	Kemp's ridley sea turtle	E E ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
282	Kemp's ridley sea turtle	E E ABUNDANT			X	X	X	X	X	X					-	-	-	APR-SEP	-
284	Green sea turtle	T T OCCASIONAL			X	X	X	X	X	X	X				-	-	-	MAR-NOV	MAR-NOV
	Hawksbill sea turtle	E E VERY RARE			X	X	X	X	X	X					-	-	-	MAR-OCT	-
	Leatherback sea turtle	E E RARE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Loggerhead sea turtle	T T COMMON	X	X	X	X	X	X	X	X					-	-	-	MAR-NOV	MAR-NOV

**HUMAN USE RESOURCES:**

**BOAT RAMP:**

HUN#	Name	Contact	Phone
28	DISCOUNT BAIT BOAT LAUNCH		
43	IRWIN P. MELANCON REC. BOAT LAUNCH		
56	PORT OPERATIONS CENTER		
57	PUBLIC BOAT RAMP		

**CRITICAL HABITAT:**

HUN#	Name	Contact	Phone
77	PIPING PLOVER CRITICAL HABITAT	USFWS	

**HELIPORT:**

HUN#	Name	Contact	Phone
716	ERA HELICOPTERS FOURCHON HELIBASE		
721	FOURCHON BASE		
747	PHI FOURCHON BASE		

**MARINA:**

HUN#	Name	Contact	Phone
829	PORT FOURCHON MARINA	HARRIS CHERAMIE	985/396-2792

**PORT:**

HUN#	Name	Contact	Phone
861	GREATER LAFOURCHE PORT		

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. The LDWF-LNHP provided information for some of the federally and state listed species and species of conservation concern for display in the ESI atlas and accompanying digital data in 2013. The available LNHP data sets are to be used for oil spill response and spill response planning only. These data represent existing information known to the LNHP at the time of the request and should never be substituted for consultation with the LNHP. The more spatially generalized 2011 polygonal waterbird colony data was provided by LNHP and the more spatially specific 2006 point waterbird colony data was provided by BTNEP. The display of these two data sets does not imply that EITHER or BOTH sets of polygons and/or points (especially if counts are aggregated) reflect current nest locations OR counts, but rather are to be used as a guide for what species could be present.