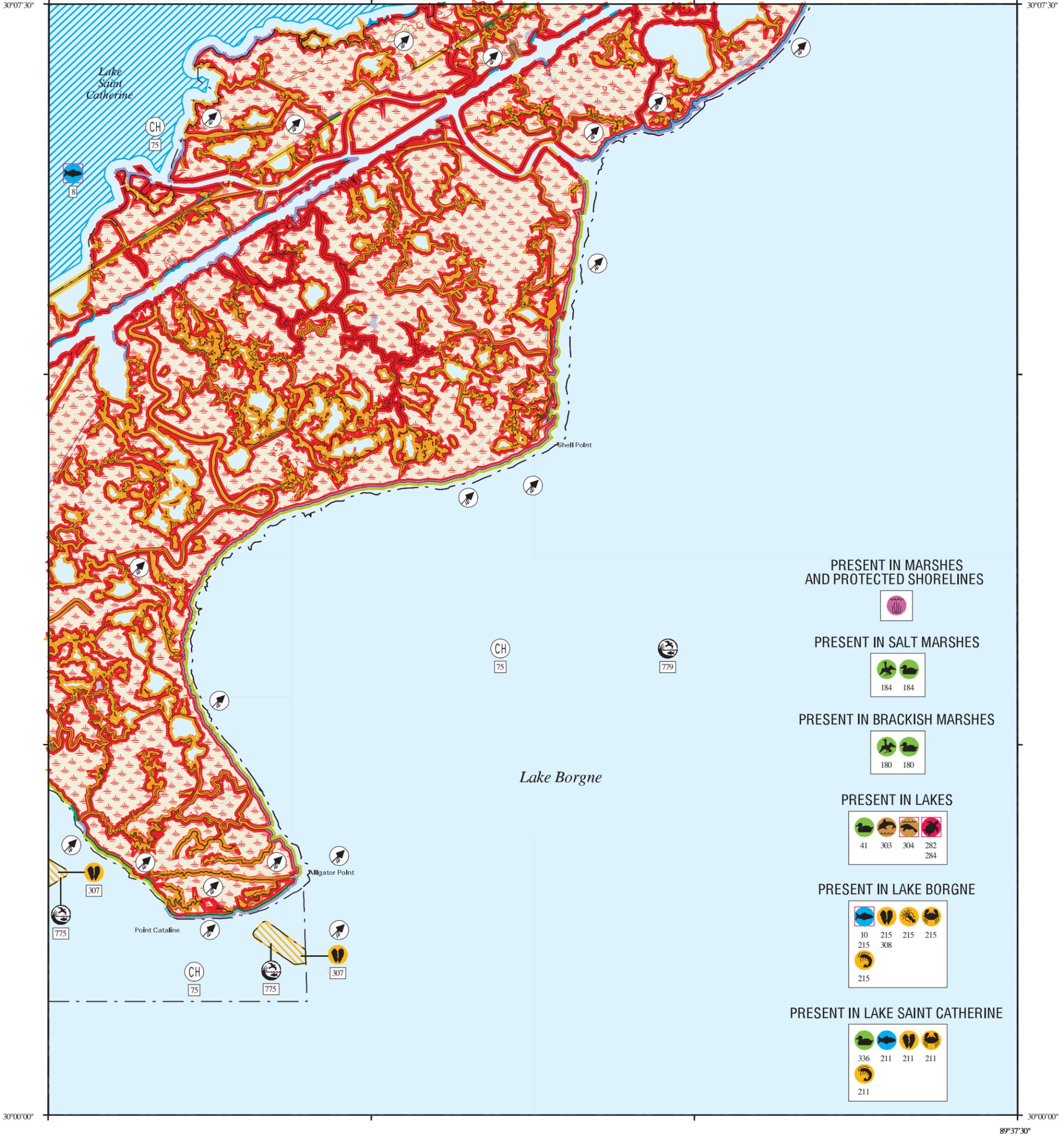


# ENVIRONMENTAL SENSITIVITY INDEX MAP



PRESENT IN MARSHES AND PROTECTED SHORELINES



PRESENT IN SALT MARSHES



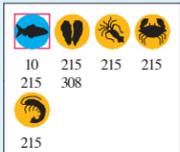
PRESENT IN BRACKISH MARSHES



PRESENT IN LAKES



PRESENT IN LAKE BORGNE



PRESENT IN LAKE SAINT CATHERINE

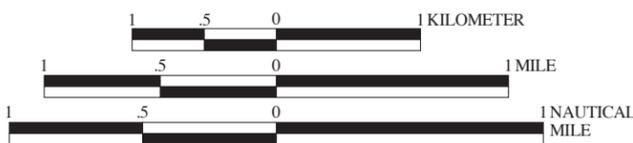


## SHORELINE HABITATS (ESI)

- 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



SCALE 1:50000



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Office of Response and Restoration  
Emergency Response Division



**Louisiana: ESIMAP 119**

**BIOLOGICAL RESOURCES:**

**BIRD:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
41	Scaup	10,000S	X	X	X	X	X					X	X	X	-	-	-
180	American coot	UP TO 353 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	American white pelican	1000S	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	American wigeon	UP TO 90 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Blue-winged teal	UP TO 87 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	Canvasback	UP TO 3 IND/SQ MI	X	X	X						X	X			-	-	-
	Gadwall	UP TO 800 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Green-winged teal	UP TO 164 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Hooded merganser	UP TO 3 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Mallard	UP TO 35 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Mottled duck	UP TO 28 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Northern pintail	UP TO 11 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Northern shoveler	UP TO 32 IND/SQ MI	X	X	X	X	X				X	X	X	X	-	-	-
	Ring-necked duck	UP TO 26 IND/SQ MI	X	X	X						X	X	X		-	-	-
	Scaup	UP TO 90 IND/SQ MI	X	X	X	X	X				X	X	X		-	-	-
184	American coot	UP TO 2 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	American white pelican	HIGH	X	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	X		-	-	-
	Blue-winged teal	UP TO 12 IND/SQ MI	X	X	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	X	X		-	-	-
	Green-winged teal	UP TO 232 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Hooded merganser	UP TO 8 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Mallard	UP TO 4 IND/SQ MI	X	X	X	X					X	X	X		-	-	-
	Mottled duck	UP TO 17 IND/SQ MI	X	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	X	X		-	-	-
	Northern shoveler	UP TO 9 IND/SQ MI	X	X	X	X	X				X	X	X	X	-	-	-
	Ring-necked duck	UP TO 9 IND/SQ MI	X	X	X						X	X	X		-	-	-
	Scaup	UP TO 468 IND/SQ MI	X	X	X	X	X				X	X	X		-	-	-
336	American coot		X	X	X	X					X	X	X	X	-	-	-
	American wigeon		X	X	X	X					X	X	X	X	-	-	-
	Blue-winged teal		X	X	X	X					X	X	X	X	-	-	-
	Canvasback		X	X	X						X	X			-	-	-
	Gadwall		X	X	X	X					X	X			-	-	-
	Green-winged teal		X	X	X	X					X	X	X		-	-	-
	Hooded merganser		X	X	X	X					X	X	X		-	-	-
	Mallard		X	X	X	X					X	X	X		-	-	-
	Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern pintail		X	X	X	X					X	X	X		-	-	-
	Northern shoveler		X	X	X	X	X				X	X	X	X	-	-	-
	Ring-necked duck		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
8	Gulf sturgeon	T T					X	X	X	X	X	X	X	X	-	-	-	-	-
10	Gulf sturgeon	T T	X	X	X	X	X				X	X	X		-	-	-	-	-
211	Anchovies	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
	Black drum	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					-	-	MAY-SEP	MAR-OCT	-
	Croakers	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Gafftopsail catfish	ABUNDANT		X	X	X	X	X	X						-	-	-	-	-
	Gulf menhaden	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-NOV	JAN-NOV
	Killifish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Pipefish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Red drum	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	AUG-OCT	JAN-DEC	-
	Shad	ABUNDANT		X	X	X	X	X	X	X	X	X	X		-	-	-	-	-
	Sheepshead	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Southern flounder	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-APR	JAN-DEC	-
	Spotted gar	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC
	Spotted seatrout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Striped mullet	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
215	Anchovies	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
	Atlantic tripletail	PRESENT		X	X	X	X	X	X						-	-	-	APR-OCT	APR-OCT
	Black drum	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-JUL	JAN-DEC	JAN-DEC
	Bull shark	COMMON		X	X	X	X	X							-	-	MAY-SEP	MAY-OCT	-
	Cobia	PRESENT		X	X										-	-	-	-	-
	Croakers	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Forage fish	ABUNDANT		X	X	X	X	X	X	X					-	-	-	-	-
	Gafftopsail catfish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Gray snapper	COMMON		X	X	X	X								-	-	-	JUL-NOV	-
	Gulf menhaden	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Killifish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Kingfishes	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Lane snapper	RARE		X											-	-	-	-	-
	Longnose gar	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC
	Pipefish	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Red drum	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	AUG-OCT	JAN-DEC	-
	Scalloped hammerhead			X	X	X	X	X	X						-	-	MAY-OCT	-	-
	Shad	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Sheepshead	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Southern flounder	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAR	JAN-DEC	JAN-DEC
	Spanish mackerel	COMMON		X	X	X	X	X							-	-	-	MAY-OCT	-
	Spotted gar	RARE	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC
	Spotted seatrout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	APR-SEP	JAN-DEC	JAN-DEC
	Striped mullet	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Tarpon	PRESENT		X	X	X	X	X	X						-	-	-	MAY-NOV	-
	White trout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	MAR-SEP	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
211	Atlantic rangia	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	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	ABUNDANT		X	X	X	X								-	-	-	APR-AUG	-
	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	-	-	-	-	-
	White shrimp	ABUNDANT	X		X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JUN-JAN	-
215	Atlantic rangia	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	Blue crab	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	ABUNDANT		X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	MAR-DEC	-
	Fiddler crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-
	Grass shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Pink shrimp	RARE	X	X											-	-	-	-	-
	Squid	ABUNDANT	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														

**Louisiana: ESIMAP 119 (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
303	Bottlenose dolphin	VERY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
304	West Indian manatee	RARE TO UNCOMMON	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
282	Kemp's ridley sea turtle	ABUNDANT					X	X	X	X	X			-	-	-		APR-SEP	-
284	Green sea turtle	OCCASIONAL	X	X	X	X	X	X	X	X	X	X	X	-	-	-		MAR-NOV	MAR-NOV
	Hawksbill sea turtle	VERY RARE	X	X	X	X	X	X	X	X	X	X	X	-	-	-		MAR-OCT	-
	Leatherback sea turtle	RARE	X	X	X	X	X	X	X	X	X	X	X	-	-	-		JAN-DEC	JAN-DEC
	Loggerhead sea turtle	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-		MAR-NOV	MAR-NOV

**HUMAN USE RESOURCES:**

**CRITICAL HABITAT:**

HUN#	Name	Contact	Phone
75	GULF STURGEON CRITICAL HABITAT	USFWS/NMFS	

**MANAGEMENT AREA:**

HUN#	Name	Contact	Phone
775	OYSTER LEASE	LDWF - OYSTER LEASE SURVEY SECTION	
779	PUBLIC OYSTER AREA	LDWF	

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.