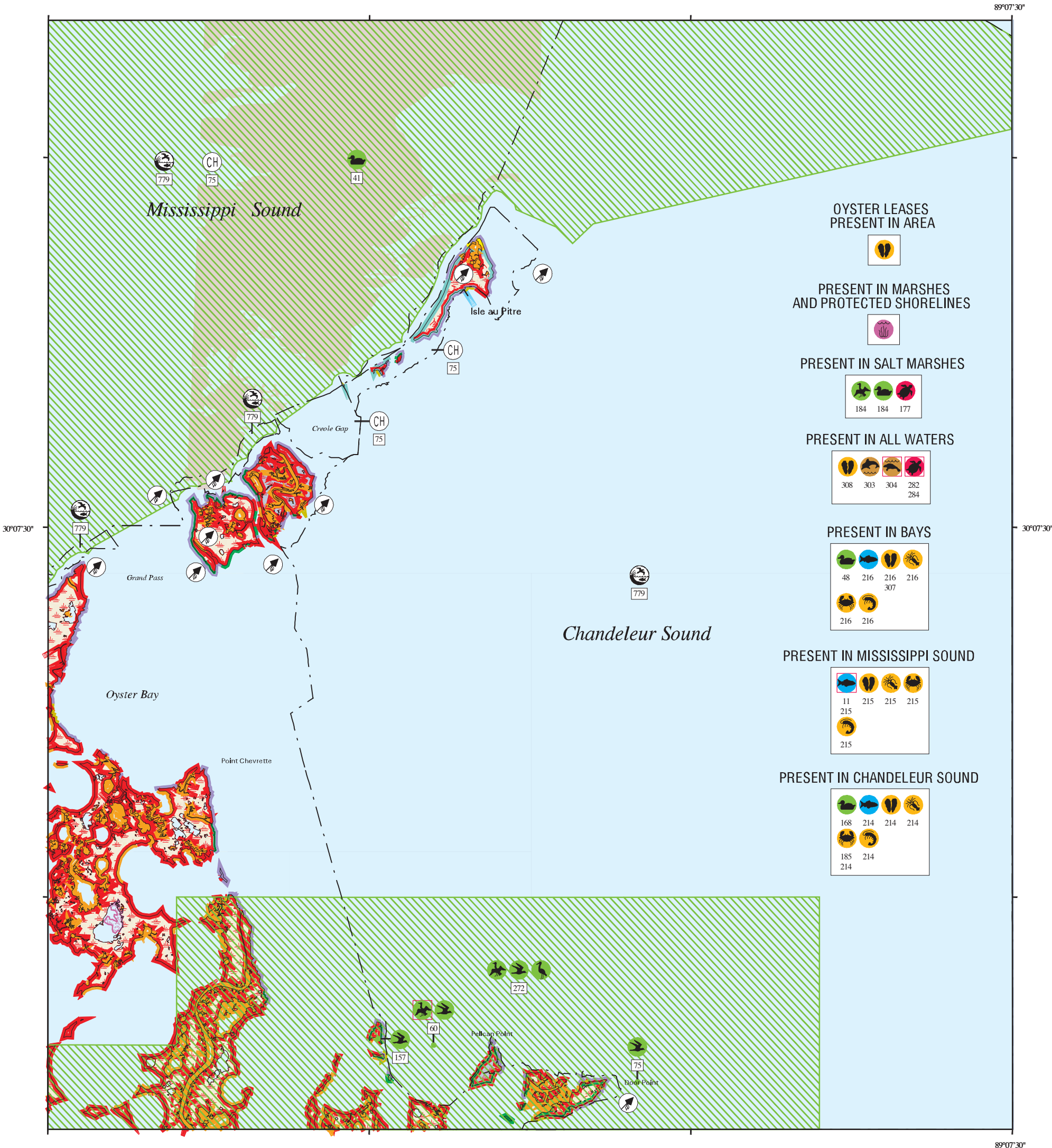


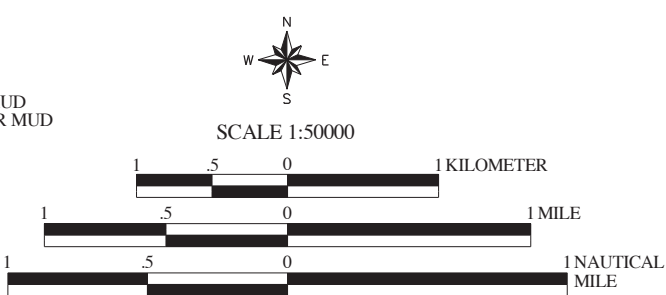
ENVIRONMENTAL SENSITIVITY INDEX MAP



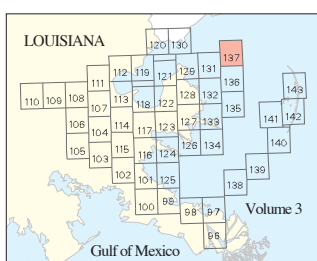
- OYSTER LEASES PRESENT IN AREA**
- PRESENT IN MARSHES AND PROTECTED SHORELINES**
- PRESENT IN SALT MARSHES**
- PRESENT IN ALL WATERS**
- PRESENT IN BAYS**
- PRESENT IN MISSISSIPPI SOUND**
- PRESENT IN CHANDELEUR SOUND**

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



Not For Navigation
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 National Oceanic and Atmospheric Administration
 National Ocean Service
 Office of Response and Restoration
 Emergency Response Division



Louisiana: ESIMAP 137

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	-	-	-
48	Scaup	1000S	X	X	X	X						X	X	X	-	-	-
60	Black skimmer	110 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
	Brown pelican	E 1700 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	NOV-SEP	-	-
	Laughing gull	2645 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Least tern	40 PAIRS			X	X	X	X	X					APR-SEP	-	-	
75	Black skimmer	150 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	
	Laughing gull	2500 PAIRS	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	
157	Black skimmer	100 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	
	Royal tern	500 PAIRS	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	
	Sandwich tern	200 PAIRS			X	X	X	X	X					APR-SEP	-	-	
168	Bufflehead		X	X	X							X	X	-	-	-	
	Mergansers		X	X	X	X						X	X	-	-	-	
	Scaup	10,000S	X	X	X	X						X	X	-	-	-	
184	American coot	UP TO 2 IND/SQ MI	X	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	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	-	-	-	
	Green-winged teal	UP TO 232 IND/SQ MI	X	X	X	X						X	X	-	-	-	
	Hooded merganser	UP TO 8 IND/SQ MI	X	X	X	X						X	X	-	-	-	
	Mallard	UP TO 4 IND/SQ MI	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	MAR-JUN	-	-	
	Northern pintail	UP TO 6 IND/SQ MI	X	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	-	-	-	
272	Gulls	2115 PAIRS	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	
	Pelicans	908 PAIRS	X	X	X	X	X	X	X	X	X	X	X	NOV-JUL	-	-	
	Terns	930 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	
	Wading birds	981 PAIRS	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
11	Gulf sturgeon	T T	X	X	X							X	X	X	-	-	-	-	-
214	Anchovies	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
	Atlantic sharpnose shark	HIGHLY ABUNDANT		X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Atlantic spadefish	RARE				X	X	X	X					-	-	-	-	-	
	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	JAN-JUL	-	JAN-JUL	JAN-DEC	JAN-DEC	
	Blacktip shark	COMMON		X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Bull shark	COMMON		X	X	X	X	X	X	X	X	X	X	-	-	MAY-SEP	MAR-OCT	-	
	Croakers	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Finetooth shark			X	X	X	X	X	X					-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Forage fish	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gafftopsail catfish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gray snapper	COMMON				X	X	X	X					-	-	-	JUL-NOV	-	
	Gulf menhaden	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Herrings and sardines	PRESENT				X	X	X						-	-	-	-	-	
	Killifish	COMMON	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	-	-	-	-	-	
	Lane snapper	RARE				X								-	-	-	-	-	
	Pipefish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Red drum	ABUNDANT	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	-	-	
	Seahorses	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Shad	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Sheepshead	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Southern flounder	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAR	JAN-DEC	JAN-DEC	
	Spanish mackerel	COMMON			X	X	X	X						-	-	-	MAY-SEP	-	
	Spotted seatrout	HIGHLY ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC	
	Tarpon	PRESENT			X	X	X	X	X					-	-	-	MAY-NOV	-	
	White trout	COMMON	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	MAR-SEP	JAN-DEC	JAN-DEC	
215	Anchovies	ABUNDANT	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					-	-	-	APR-OCT	APR-OCT	
	Black drum	ABUNDANT	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	-	-	-	-	-	
	Forage fish	ABUNDANT		X	X	X	X	X	X					-	-	-	-	-	
	Gafftopsail catfish	ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC	
	Killifish	ABUNDANT	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	-	-	-	-	-	
	Lane snapper	RARE				X								-	-	-	-	-	
	Longnose gar	PRESENT	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	-	-	-	-	-	
	Red drum	COMMON	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	-	-	-	-	-	
	Sheepshead	HIGHLY ABUNDANT	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	-	-	OCT-MAR	JAN-DEC	JAN-DEC	
	Spanish mackerel	COMMON			X	X	X	X						-	-	-	MAY-OCT	-	
	Spotted gar	RARE	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	APR-SEP	-	APR-SEP	JAN-DEC	JAN-DEC	
	Striped mullet	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Tarpon	PRESENT			X	X	X	X	X					-	-	-	MAY-NOV	-	
	White trout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	MAR-SEP	JAN-DEC	JAN-DEC	
216	Anchovies	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC	
	Atlantic sharpnose shark	HIGHLY ABUNDANT		X	X	X	X	X	X					-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Atlantic spadefish	ABUNDANT				X	X	X						-	-	-	-	-	
	Atlantic tripletail	PRESENT			X	X	X	X	X					-	-	-	APR-OCT	APR-OCT	
	Black drum	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-JUL	JAN-DEC	JAN-DEC	
	Blacktip shark	COMMON		X	X	X	X	X	X					-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Bull shark	COMMON			X	X	X	X						-	-	MAY-SEP	MAY-OCT	-	
	Croakers	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Finetooth shark			X	X	X	X	X	X					-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Forage fish	ABUNDANT	X	X	X	X	X	X	X					-	-	-	-	-	
	Gafftopsail catfish	ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC	
	Herrings and sardines	PRESENT				X	X							-	-	-	-	-	
	Killifish	RARE	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC	

Louisiana: ESIMAP 137 (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
216	Red drum	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	X	-	-	-	-	-	
	Sheepshead	ABUNDANT	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	-	-	OCT-MAR	JAN-OCT	JAN-OCT	
	Spanish mackerel	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	-	
	Spotted seatrout	ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC	
	White trout	ABUNDANT	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
185	Blue crab	HIGH SPAWNING CONC						X	X	X					JUN-AUG	-	-	-	-
214	Atlantic rangia	PRESENT	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	APR-MAY	APR-MAY	APR-MAY	SEP-MAY	SEP-MAY	
	Brown shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	MAR-DEC	-	
	Grass shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Squid	ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC	
	White shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	-	MAY-NOV	MAR-JAN	-	
215	Atlantic rangia	PRESENT	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	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	JUN-AUG	-	-	-	-	
	Grass shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Pink shrimp	RARE	X	X										X	-	-	-	-	
	Squid	ABUNDANT	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	-	-	MAY-NOV	JAN-DEC	-	
216	Atlantic rangia	PRESENT	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	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	-	-	FEB-NOV	MAR-DEC	-	
	Fiddler crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-	
	Grass shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Squid	HIGHLY ABUNDANT	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	-	-	MAY-NOV	JAN-DEC	-	
307	Eastern oyster	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	
308	Eastern oyster	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-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
303	Bottlenose dolphin	VERY ABUNDANT	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	-	-	-	-	

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	X					-	-	-	-	-
282	Kemp's ridley sea turtle	E E ABUNDANT	X	X	X	X	X	X	X	X					-	-	-	APR-SEP	-
284	Green sea turtle	T T OCCASIONAL	X	X	X	X	X	X	X	X					-	-	-	MAR-NOV	MAR-NOV
	Hawksbill sea turtle	E E VERY RARE	X	X	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	-	-	-	JAN-DEC	JAN-DEC	
	Loggerhead sea turtle	T T 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	USEFWS/NMFS	

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
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.