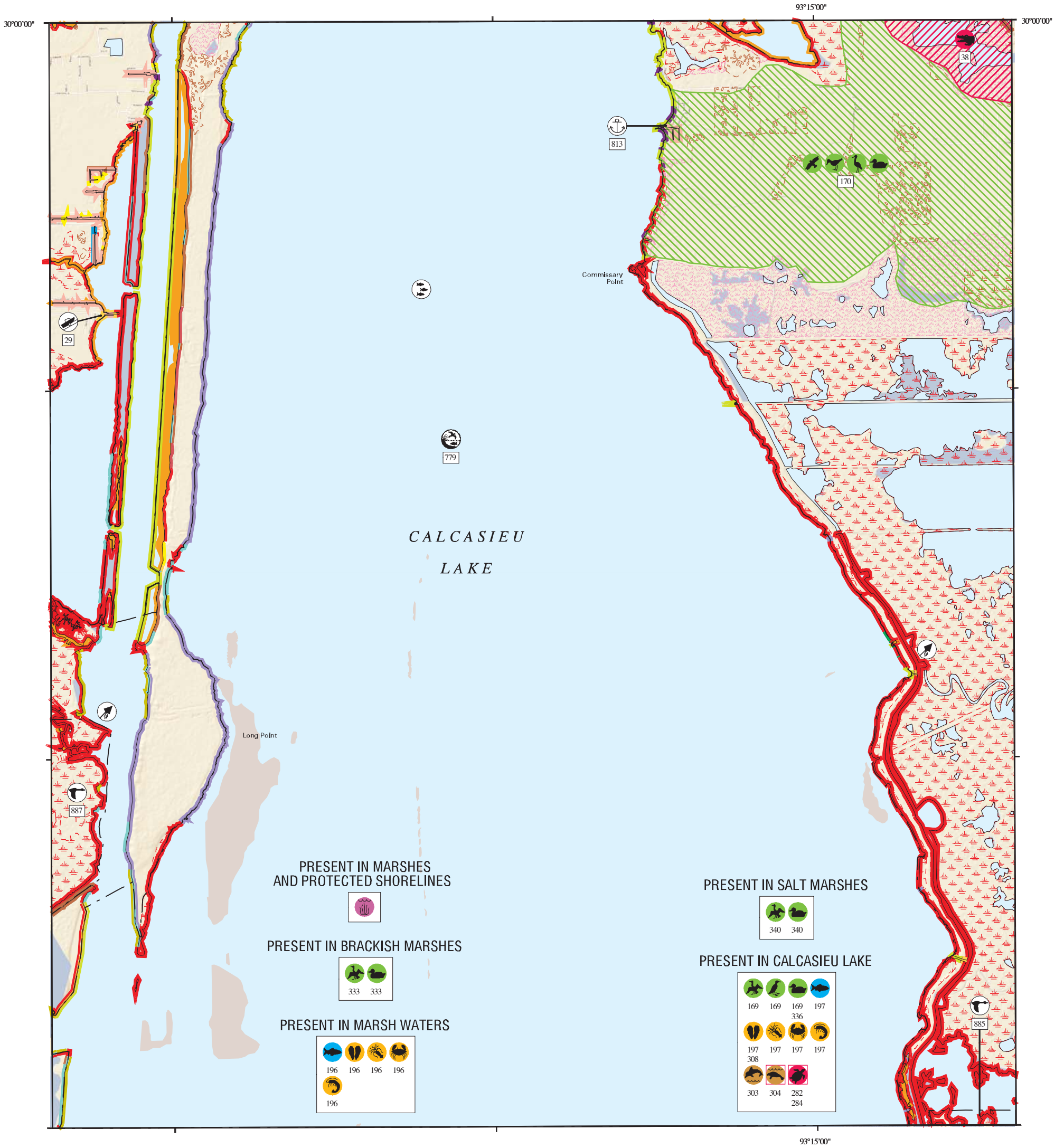


ENVIRONMENTAL SENSITIVITY INDEX MAP



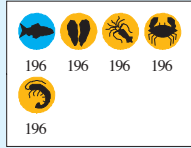
PRESENT IN MARSHES AND PROTECTED SHORELINES



PRESENT IN BRACKISH MARSHES



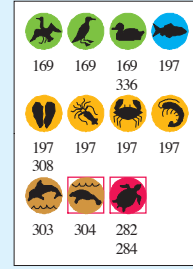
PRESENT IN MARSH WATERS



PRESENT IN SALT MARSHES



PRESENT IN CALCASIEU LAKE

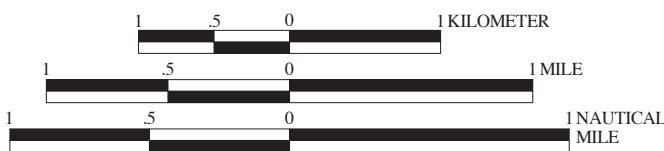


SHORELINE HABITATS (ESI)

- 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

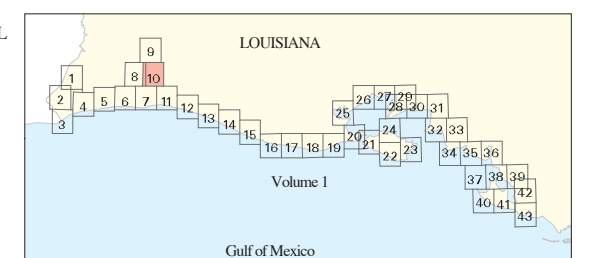


SCALE 1:50000



Not For Navigation
Published: December 2013

Published at Seattle, Washington
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Response and Restoration
Emergency Response Division



Louisiana: ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S F Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Migrating | Molting |
|------|-----------------------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|-----------|---------|
| 169 | Common loon | | X | X | X | X | | | | | | | X | X | - | - | - |
| | Northern gannet | | X | X | X | | | | | | | | X | X | - | - | - |
| | Scaup | 100S | X | X | X | X | X | | | | | | X | X | - | - | - |
| 170 | Black-necked stilt | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Buff-breasted sandpiper | | | | | X | X | | | X | X | X | | | - | - | - |
| | Great egret | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Greater white-fronted goose | | X | X | X | | | | | | | | X | X | - | - | - |
| | Little blue heron | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Long-billed dowitcher | | X | X | X | X | | | | X | X | X | X | X | - | - | - |
| | Northern harrier | | X | X | X | X | | | | X | X | X | X | X | - | - | - |
| | Snow goose | | X | X | X | X | | | | | | | X | X | - | - | - |
| | White ibis | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | White-faced ibis | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Yellow rail | | X | X | X | X | | | | | | | X | X | - | - | - |
| 333 | American coot | UP TO 226 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | American white pelican | MEDIUM | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | American wigeon | UP TO 122 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Blue-winged teal | UP TO 202 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Canvasback | UP TO 6 IND/SQ MI | X | X | X | | | | | | | | X | X | - | - | - |
| | Gadwall | UP TO 665 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Green-winged teal | UP TO 1051 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Hooded merganser | UP TO 3 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Mallard | UP TO 428 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Mottled duck | UP TO 39 IND/SQ MI | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUN | - | - |
| | Northern pintail | UP TO 167 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Northern shoveler | UP TO 127 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Ring-necked duck | UP TO 51 IND/SQ MI | X | X | X | | | | | | | | X | X | - | - | - |
| | Scaup | UP TO 203 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| 336 | American coot | | X | X | X | X | | | | | | | X | X | - | - | - |
| | American wigeon | | X | X | X | X | | | | | | | X | X | - | - | - |
| | Blue-winged teal | | 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 | - | - | - |
| | Hooded merganser | | X | X | X | X | | | | | | | X | X | - | - | - |
| | Mallard | | 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 | - | - | - |
| | Northern shoveler | | X | X | X | X | | | | | | | X | X | - | - | - |
| | Ring-necked duck | | X | X | X | | | | | | | | X | X | - | - | - |
| 340 | American coot | UP TO 15 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | American white pelican | MEDIUM | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | American wigeon | UP TO 81 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Blue-winged teal | UP TO 231 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Gadwall | UP TO 1063 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Green-winged teal | UP TO 938 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Hooded merganser | UP TO 3 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Mallard | UP TO 181 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Mottled duck | UP TO 51 IND/SQ MI | X | X | X | X | X | X | X | X | X | X | X | X | MAR-JUN | - | - |
| | Northern pintail | UP TO 4 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Northern shoveler | UP TO 286 IND/SQ MI | X | X | X | X | | | | | | | X | X | - | - | - |
| | Ring-necked duck | UP TO 974 IND/SQ MI | X | X | X | | | | | | | | X | X | - | - | - |
| | Scaup | UP TO 45 IND/SQ MI | X | 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 |
|------|-----------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 196 | Anchovies | RARE | X | X | X | X | X | X | X | X | X | X | X | X | MAR-SEP | MAR-SEP | MAR-SEP | JAN-DEC | JAN-DEC |
| | Atlantic spadefish | ABUNDANT | | | | X | X | X | X | X | X | | | | - | - | - | - | - |
| | Black drum | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Croakers | COMMON | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Forage fish | PRESENT | | | X | X | X | X | X | X | X | | | | - | - | - | - | - |
| | Gafftopsail catfish | COMMON | | | X | X | X | | | | | | | | - | - | - | - | - |
| | Gulf menhaden | ABUNDANT | X | X | X | X | X | X | | | | | | | - | - | - | FEB-AUG | FEB-AUG |
| | Kingfishes | RARE | | | | X | X | X | | | | | | | - | - | - | - | - |
| | Red drum | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | AUG-OCT | JAN-DEC | - |
| | Sheepshead | ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Southern flounder | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | OCT-MAR | JAN-DEC | JAN-DEC |
| | White trout | COMMON | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| 197 | 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 spadefish | ABUNDANT | | | | X | X | X | X | X | | | | | - | - | - | - | - |
| | Atlantic tripletail | ABUNDANT | | | | X | X | X | X | X | | | | | - | - | - | APR-OCT | APR-OCT |
| | Black drum | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | JAN-JUL | - | JAN-JUL | JAN-DEC | JAN-DEC |
| | Cobia | PRESENT | | | | X | 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 | | | | | | | - | - | - | - | - |
| | Gulf menhaden | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | JAN-DEC |
| | Herrings and sardines | PRESENT | | | | X | X | X | | | | | | | - | - | - | - | - |
| | Killifish | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | APR-SEP | - | - | JAN-DEC | JAN-DEC |
| | Kingfishes | COMMON | | | | X | X | X | | | | | | | - | - | - | - | - |
| | Pipefish | PRESENT | X | 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 | X | - | - | AUG-OCT | JAN-DEC | - |
| | Shad | ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Sheepshead | 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 | - | - | FEB-MAR | JAN-DEC | JAN-DEC |
| | Spanish mackerel | COMMON | | | | X | X | X | | | | | | | - | - | - | JUL-OCT | - |
| | 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 |
| | 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 |
|------|------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|---------|-----------|---------|
| 196 | 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 | COMMON | 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 | X | - | - | FEB-NOV | FEB-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 | RARE | | | | X | X | X | X | X | | | | | - | - | - | MAY-NOV | MAY-NOV |
| | 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 | - |
| 197 | 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 | COMMON | | | | X | X | | | | | | | | - | - | - | - | - |
| | 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 | 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 | | | | - | - | - | APR-NOV | APR-NOV |

Louisiana: ESIMAP 10 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE: (cont.)

| RAR# | Species | S F Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|----------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---------|----------|---------|---------|-----------|--------|
| 197 | White shrimp | HIGHLY ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | MAY-NOV | 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 | 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 |
|------|--------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-------------|-----------|---------|
| 38 | American alligator | 126-200 AC/NEST | X | X | X | X | X | X | X | X | X | X | X | X | MAY-JUL | JUL-SEP | - | JAN-DEC | JAN-DEC |
| 282 | Kemp's ridley sea turtle | E E ABUNDANT | | | | X | X | X | X | X | | | | - | - | - | APR-SEP | - | |
| 284 | Green sea turtle | T T OCCASIONAL | | | | X | X | X | X | X | X | | | - | - | - | MAR-NOV | MAR-NOV | |
| | Hawksbill sea turtle | E E VERY RARE | | | | 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 | | | | - | - | - | MAR-NOV | MAR-NOV | |

HUMAN USE RESOURCES:

BOAT RAMP:

| HUN# | Name | Contact | Phone |
|------|---------------|---------|-------|
| 29 | DUGAS LANDING | | |

MANAGEMENT AREA:

| HUN# | Name | Contact | Phone |
|------|--------------------|---------|-------|
| 779 | PUBLIC OYSTER AREA | LDWF | |

MARINA:

| HUN# | Name | Contact | Phone |
|------|-----------------|---------|-------|
| 813 | HEBERT'S MARINA | | |

WILDLIFE REFUGE:

| HUN# | Name | Contact | Phone |
|------|--------------------------------------|---------|-------|
| 885 | CAMERON PRAIRIE NWR - EAST COVE UNIT | USFWS | |
| 887 | SABINE NATIONAL WILDLIFE REFUGE | USFWS | |

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.