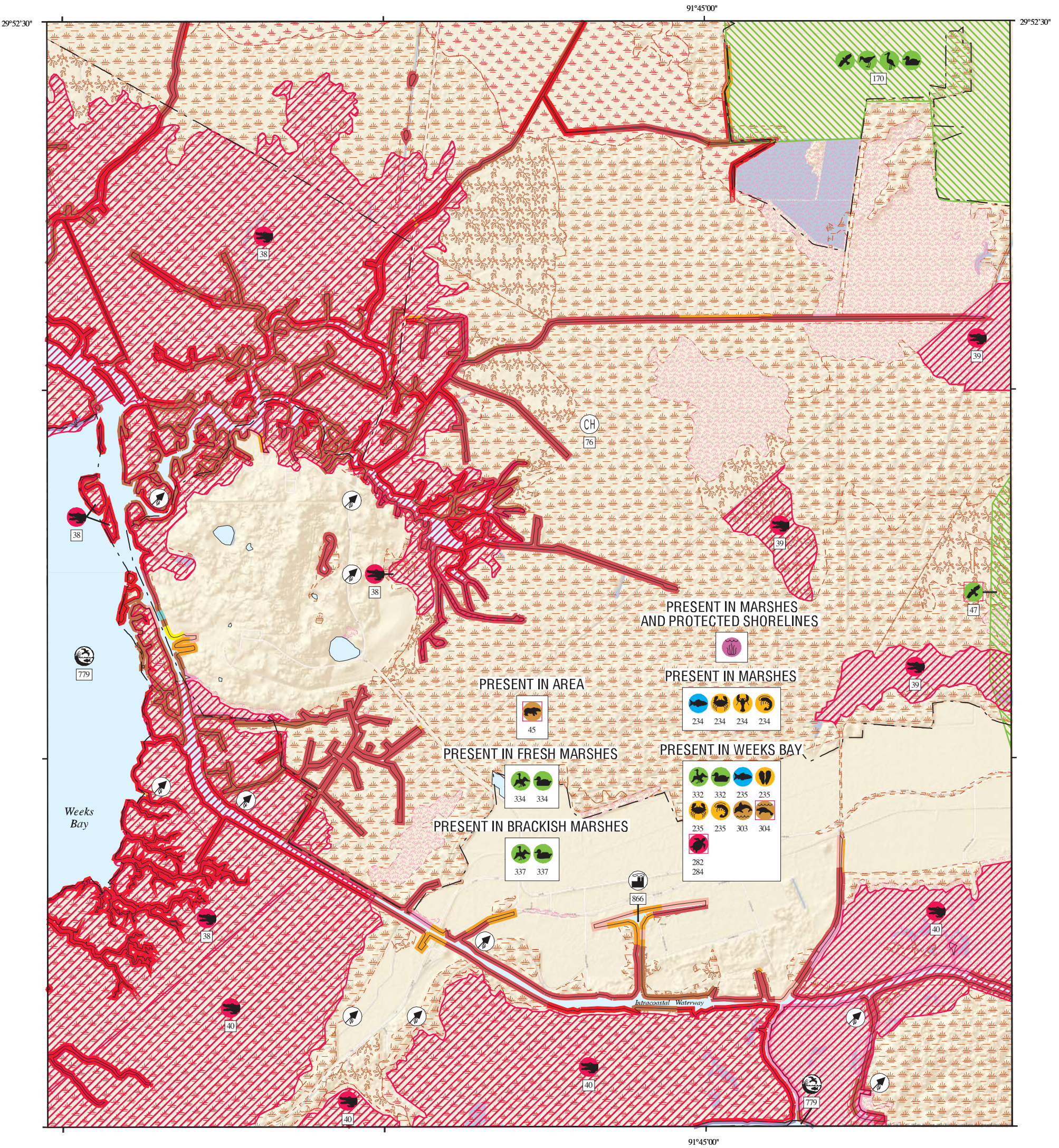


ENVIRONMENTAL SENSITIVITY INDEX MAP



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

N

W E S

SCALE 1:50000

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

1 .5 0 1 NAUTICAL MILE

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

Vol. 1

Vol. 2

Vol. 3

Gulf of Mexico

LOUISIANA

Volume 1

Gulf of Mexico

Louisiana: ESIMAP 29

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Nesting | Migrating | Molting |
|------|-----------------------------|---------------------|-------------------------|---------|-----------|---------|
| 47 | Bald eagle | E | X X X X X X X X X | NOV-APR | - | - |
| 170 | Black-necked stilt | | 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 | - | - | - |
| | Greater white-fronted goose | | X X X X X X | - | - | - |
| | Little blue heron | | 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 | - | - | - |
| | Snow goose | | X X X X X X | - | - | - |
| | White ibis | | 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 | - | - | - |
| | Yellow rail | | X X X X X X X | - | - | - |
| 332 | Common loon | HIGH | X X X X X X | - | - | - |
| | Scaup | 1000S | X X X X X X X | - | - | - |
| 334 | American coot | UP TO 608 IND/SQ MI | X X X X X X X X | - | - | - |
| | American white pelican | LOW | X X X X X X X X X X X | - | - | - |
| | American wigeon | UP TO 55 IND/SQ MI | X X X X X X X | - | - | - |
| | Blue-winged teal | UP TO 390 IND/SQ MI | X X X X X X X X | - | - | - |
| | Canvasback | UP TO 4 IND/SQ MI | X X X X X | - | - | - |
| | Gadwall | UP TO 333 IND/SQ MI | X X X X X X X | - | - | - |
| | Green-winged teal | UP TO 225 IND/SQ MI | X X X X X X X | - | - | - |
| | Hooded merganser | UP TO 1 IND/SQ MI | X X X X X X X | - | - | - |
| | Mallard | UP TO 405 IND/SQ MI | X X X X X X X | - | - | - |
| | Mottled duck | UP TO 57 IND/SQ MI | X X X X X X X X X X X | MAR-JUN | - | - |
| | Northern pintail | UP TO 201 IND/SQ MI | X X X X X X X | - | - | - |
| | Northern shoveler | UP TO 141 IND/SQ MI | X X X X X X X X | - | - | - |
| | Ring-necked duck | UP TO 242 IND/SQ MI | X X X X X X | - | - | - |
| | Scaup | UP TO 55 IND/SQ MI | X X X X X X X | - | - | - |
| 337 | American coot | UP TO 234 IND/SQ MI | X X X X X X X X X | - | - | - |
| | American white pelican | MEDIUM | X X X X X X X X X X X | - | - | - |
| | American wigeon | UP TO 41 IND/SQ MI | X X X X X X X | - | - | - |
| | Blue-winged teal | UP TO 194 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 312 IND/SQ MI | X X X X X X X | - | - | - |
| | Green-winged teal | UP TO 220 IND/SQ MI | X X X X X X X | - | - | - |
| | Hooded merganser | UP TO 1 IND/SQ MI | X X X X X X X | - | - | - |
| | Mallard | UP TO 169 IND/SQ MI | X X X X X X X | - | - | - |
| | Mottled duck | UP TO 34 IND/SQ MI | X X X X X X X X X X X | MAR-JUN | - | - |
| | Northern pintail | UP TO 210 IND/SQ MI | X X X X X X X | - | - | - |
| | Northern shoveler | UP TO 104 IND/SQ MI | X X X X X X X X | - | - | - |
| | Ring-necked duck | UP TO 38 IND/SQ MI | X X X X X X | - | - | - |
| | Scaup | UP TO 19 IND/SQ MI | X X 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 |
|------|---------------------|-----------------|-------------------------|----------|---------|---------|-----------|---------|
| 234 | Alligator gar | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | American eel | PRESENT | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | Anchovies | ABUNDANT | X X X X X X X X X X X | MAR-SEP | MAR-SEP | MAR-SEP | JAN-DEC | JAN-DEC |
| | Black drum | PRESENT | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | Blue catfish | PRESENT | X X X X X X X X X X X | APR-JUL | APR-JUL | - | JAN-DEC | JAN-DEC |
| | Bowfin | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Bream | PRESENT | X X X X X X X X X X X | MAR-AUG | MAR-AUG | MAR-NOV | JAN-DEC | JAN-DEC |
| | Buffalo | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Channel catfish | PRESENT | X X X X X X X X X X X | APR-JUL | APR-JUL | - | - | JAN-DEC |
| | Crappie | PRESENT | X X X X X X X X X X X | FEB-MAY | FEB-MAY | FEB-JUN | JAN-DEC | JAN-DEC |
| | Croakers | HIGHLY ABUNDANT | X X X X X X X X | - | - | - | - | - |
| | Flathead catfish | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Freshwater drum | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Gulf menhaden | HIGHLY ABUNDANT | X X X X X X | - | - | JAN-APR | JAN-JUN | JAN-JUN |
| | Killifish | ABUNDANT | X X X X X X X X X X X | APR-SEP | - | - | JAN-DEC | JAN-DEC |
| | Largemouth bass | PRESENT | X X X X X X X X X X X | JAN-MAY | - | - | JAN-DEC | JAN-DEC |
| | Longnose gar | PRESENT | X X X X X X X X X X X | MAR-APR | MAR-APR | MAR-APR | MAR-JUN | JAN-DEC |
| | Paddlefish | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Pipefish | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Red drum | PRESENT | X X X X X X X X X X X | - | - | - | JAN-DEC | - |
| | Shad | HIGHLY ABUNDANT | X X X X X X X X X X X | MAR-MAY | MAR-MAY | MAR-JUN | MAR-JUL | JAN-DEC |
| | Southern flounder | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Spotted gar | ABUNDANT | X X X X X X X X X X X | MAR-APR | MAR-APR | MAR-APR | MAR-JUN | JAN-DEC |
| | Striped mullet | HIGHLY ABUNDANT | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | White bass | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | White trout | ABUNDANT | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| 235 | Alligator gar | ABUNDANT | X X X X X X X X X X X | - | - | - | - | - |
| | Anchovies | ABUNDANT | X X X X X X X X X X X | MAR-SEP | MAR-SEP | MAR-SEP | JAN-DEC | JAN-DEC |
| | Atlantic spadefish | COMMON | X X X X X | - | - | - | - | - |
| | Black drum | HIGHLY ABUNDANT | 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 | APR-JUN | APR-JUN | - | NOV-JUN | NOV-JUN |
| | Bull shark | ABUNDANT | X X X X X | - | - | MAY-SEP | JUN-SEP | - |
| | Croakers | ABUNDANT | X X X X X X X X X X X | - | - | - | - | - |
| | Gafftopsail catfish | ABUNDANT | X X X X X X X X | - | - | - | - | - |
| | Gulf menhaden | HIGHLY ABUNDANT | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | Kingfishes | ABUNDANT | X X X X X X X X X | - | - | - | - | - |
| | Paddlefish | PRESENT | X X X X X X X X X X X | - | - | - | - | - |
| | Pipefish | PRESENT | 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 | - | - | - | JAN-DEC | SEP-FEB |
| | Shad | HIGHLY ABUNDANT | X X X X X X X X X X X | - | - | - | - | - |
| | Sheepshead | COMMON | 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 | - | - | - | JAN-DEC | JAN-DEC |
| | Spotted seatrout | ABUNDANT | 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 | - | - | - | JAN-DEC | JAN-DEC |
| | White trout | HIGHLY ABUNDANT | 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 |
|------|------------------------|-----------------|-------------------------|----------|---------|---------|-----------|---------|
| 234 | Blue crab | ABUNDANT | X X X X X X X | APR-AUG | APR-AUG | APR-AUG | FEB-AUG | FEB-AUG |
| | Grass shrimp | ABUNDANT | X X X X X X X X X X X | - | - | - | - | - |
| | Red swamp crawfish | PRESENT | X X X X X X X X X X X | MAR-MAY | JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| | River shrimp | PRESENT | X X X X X X X X X X X | - | - | APR-JUL | JUL-SEP | JAN-DEC |
| | White shrimp | ABUNDANT | X X X X X X X | - | - | JUL-NOV | JUN-NOV | - |
| 235 | Atlantic rangia | ABUNDANT | 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 | 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-JAN | - |
| | Grass shrimp | COMMON | X X X X X X X X X X X | - | - | - | - | - |
| | River shrimp | ABUNDANT | X X X X X | APR-JUN | - | APR-JUL | - | APR-JUN |
| | White shrimp | HIGHLY ABUNDANT | X X X X X X X X X X X | - | - | MAY-NOV | 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. 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 29 (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 | - | - | - | - |
| 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 | MAY-JUL | JUL-SEP | - | JAN-DEC | JAN-DEC |
| 39 | American alligator | 76-125 AC/NEST | X X X X X X X X X X X | MAY-JUL | JUL-SEP | - | JAN-DEC | JAN-DEC |
| 40 | American alligator | <75 AC/NEST | 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 X X | - | - | - | MAR-NOV | MAR-NOV |
| | Hawksbill sea turtle | E E VERY RARE | 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 | - | - | - | MAR-NOV | MAR-NOV |

TERRESTRIAL MAMMAL:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D |
|------|----------------------|-----------|-------------------------|
| 45 | Louisiana black bear | T T | X X X X X X X X X X X |

HUMAN USE RESOURCES:

CRITICAL HABITAT:

| HUN# | Name | Contact | Phone |
|------|---------------------------------------|---------|-------|
| 76 | LOUISIANA BLACK BEAR CRITICAL HABITAT | USFWS | |

MANAGEMENT AREA:

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

PORT:

| HUN# | Name | Contact | Phone |
|------|-----------------------|---------|-------|
| 866 | PORT OF WEST ST. MARY | | |

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