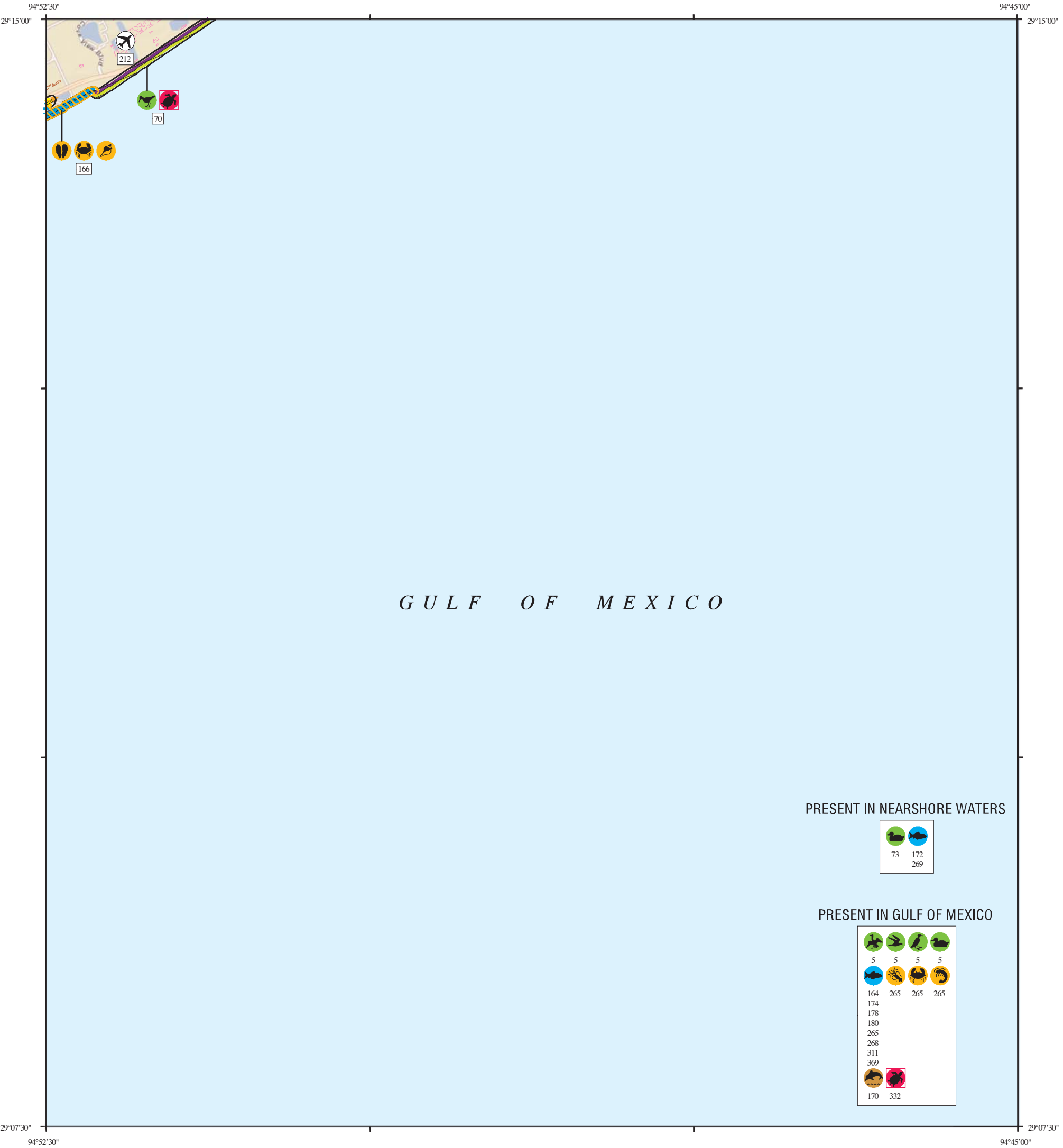
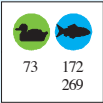


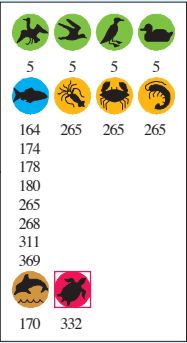
ENVIRONMENTAL SENSITIVITY INDEX MAP



PRESENT IN NEARSHORE WATERS

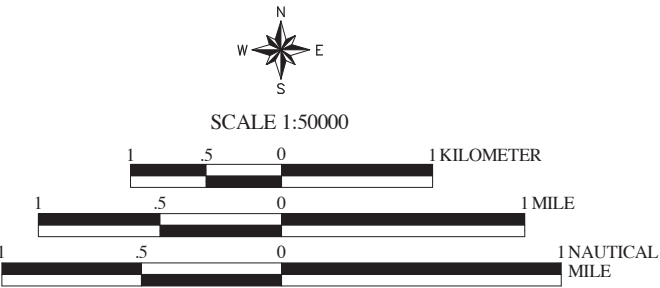


PRESENT IN GULF OF MEXICO



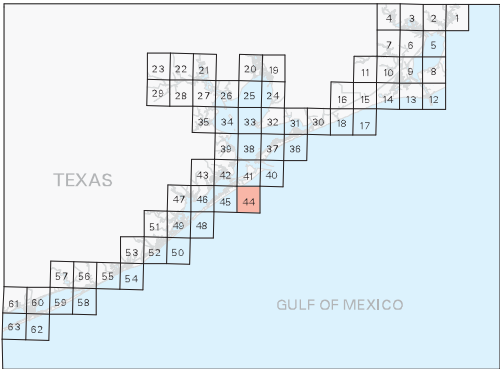
SHORELINE HABITATS (ESI)

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



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



Upper Texas Coast: ESIMAP 44

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Nesting | Migrating | Molting |
|------|-------------------------|-----------------|-------------------------|---------|--------------------|---------|
| 5 | American white pelican | COMMON | X X X X X X X X X X | - | - | - |
| | Brown pelican | COMMON | X X X X X X X X X X | - | - | - |
| | Bufflehead | UNCOMMON | X X X X X X | - | - | - |
| | Canvasback | UNCOMMON | X X X X X X | - | - | - |
| | Cormorants | COMMON | X X X X X X X X X X | - | - | - |
| | Diving birds | | X X X X X X X X X X | - | - | - |
| | Diving ducks | | X X X X X X X X | - | - | - |
| | Greater scaup | UNCOMMON | X X X X X X | - | - | - |
| | Grebes | UNCOMMON | X X X X X X X X X X | - | - | - |
| | Gulls | COMMON-ABUNDANT | X X X X X X X X X X | - | - | - |
| | Lesser scaup | COMMON | X X X X X X X X | - | - | - |
| | Loons | | X X X X X X X X | - | - | - |
| | Magnificent frigatebird | COMMON | X X X X X X X X | - | - | - |
| | Masked booby | UNCOMMON | X X X X X X X X | - | - | - |
| | Northern gannet | COMMON | X X X X X X X X | - | - | - |
| | Scoters | RARE | X X X X X X X X | - | - | - |
| | Shearwaters | UNCOMMON | X X X X X X X X | - | - | - |
| | Storm-petrels | RARE | X X X X X X X X | - | - | - |
| | Terns | COMMON-ABUNDANT | X X X X X X X X X X | - | - | - |
| 70 | Black-bellied plover | 100S | X X X X X X X X X X | - | MAR-MAY JUL-NOV | - |
| | Sanderling | 100S | X X X X X X X X X X | - | APR-MAY AUG-AUG | - |
| | Shorebirds | 100S | X X X X X X X X X X | - | - | - |
| | Wilson's plover | | X X X X X X X X | - | - | - |
| 73 | Redhead | 100-7000 BIRDS | 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 |
|------|--------------------------|-----------------|-------------------------|----------|---------|---------|--------------------|---------|
| 164 | Atlantic sharpnose shark | | X X X X X X X X | - | - | - | APR-OCT | - |
| 172 | Blennies | | X X X X X X X X X X | - | - | - | - | - |
| | Sheepshead | | X X X X X X X X X X | FEB-APR | - | - | - | JAN-DEC |
| 174 | Bonnethead shark | | X X X X X X X X | - | SEP-NOV | - | FEB-MAR NOV-DEC | - |
| | Tarpon | RARE | X X X X X X X X | - | - | - | - | JUN-OCT |
| 178 | Bull shark | ABUNDANT | X X X X X X X X X X | - | MAY-AUG | MAY-AUG | APR-NOV | JAN-DEC |
| 180 | Blacktip shark | | X X X X X X X X X X | - | - | - | MAR-DEC | MAR-DEC |
| 265 | Atlantic bumper | | X X X X X X X X | - | - | - | - | MAY-NOV |
| | Atlantic croaker | HIGHLY ABUNDANT | X X X X X X X X X X | AUG-APR | - | - | APR-NOV | JAN-DEC |
| | Atlantic spadefish | | X X X X X X X X X X | - | - | - | APR-NOV | JAN-DEC |
| | Atlantic tripletail | | X X X X X X X X X X | - | - | - | - | - |
| | Banded drum | | X X X X X X X X | - | - | - | - | - |
| | Bay anchovy | | X X X X X X X X X X | MAR-NOV | MAR-NOV | MAR-NOV | JAN-DEC | JAN-DEC |
| | Black drum | | X X X X X X X X X X | FEB-JUL | - | MAR-JUL | AUG-JAN | JAN-DEC |
| | Blackfin tuna | | X X X X X X X X | - | - | - | - | MAY-OCT |
| | Cobia | | X X X X X X X X | - | - | - | - | - |
| | Crevalle jack | | X X X X X X X X X X | - | - | MAR-NOV | - | JAN-DEC |
| | Florida pompano | | X X X X X X X X X X | - | - | MAY-AUG | MAY-DEC | JAN-DEC |
| | Gafftopsail catfish | | X X X X X X X X | - | - | - | - | - |
| | Gray snapper | | X X X X X X X X X X | - | - | APR-NOV | JAN-DEC | JAN-DEC |
| | Gray triggerfish | ABUNDANT | X X X X X X X X X X | - | - | - | - | JAN-DEC |
| | Greater amberjack | | X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | Gulf butterflyfish | HIGHLY ABUNDANT | X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | Gulf menhaden | | X X X X X X X X X X | JUL-OCT | - | - | - | MAR-OCT |
| | Hardhead catfish | | X X X X X X X X X X | MAY-SEP | - | - | - | JAN-DEC |
| | King mackerel | | X X X X X X X X | - | - | - | - | MAY-OCT |
| | Lane snapper | | X X X X X X X X X X | - | - | - | - | - |
| | Pinfish | | X X X X X X X X X X | AUG-APR | - | - | - | JAN-DEC |
| | Red drum | | X X X X X X X X X X | AUG-OCT | - | - | - | JAN-DEC |
| | Red snapper | | X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| | Sand seatrout | ABUNDANT | X X X X X X X X X X | MAR-SEP | MAR-SEP | MAR-SEP | - | SEP-FEB |
| | Sheepshead | | X X X X X X X X X X | - | - | JAN-MAY | - | JAN-DEC |
| | Silver perch | HIGHLY ABUNDANT | X X X X X X X X X X | - | - | - | - | DEC-FEB |
| | Silver seatrout | | X X X X X X X X X X | - | - | - | - | - |
| | Southern flounder | | X X X X X X X X X X | SEP-FEB | - | - | OCT-DEC | SEP-FEB |
| | Southern kingfish | | X X X X X X X X X X | - | - | - | - | JUN-OCT |
| | Spanish mackerel | ABUNDANT | X X X X X X X X X X | MAY-SEP | MAY-SEP | - | MAR-NOV | MAR-NOV |
| | Spot | | X X X X X X X X X X | DEC-APR | - | - | - | DEC-SEP |
| | Spotted seatrout | | X X X X X X X X X X | - | - | - | - | SEP-FEB |
| | Star drum | COMMON | X X X X X X X X X X | - | - | - | - | JAN-DEC |
| 268 | Striped mullet | ABUNDANT | X X X X X X X X X X | OCT-DEC | - | - | - | SEP-FEB |
| 269 | Striped mullet | HIGHLY ABUNDANT | X X X X X X X X X X | - | - | - | - | MAY-NOV |
| 311 | Finetooth shark | | X X X X X X X X X X | - | MAY-JUN | MAY-OCT | - | MAY-JUN |
| 369 | Spinner shark | | X X X X X X X X X X | MAY-JUN | MAY-JUN | MAY-JUL | MAY-OCT | MAY-OCT |

INVERTEBRATE:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|------------------------|-----------|-------------------------|--------------------|---------|---------|-----------|---------|
| 166 | Atlantic ghost crab | | X X X X X X X X X X | APR-APR AUG-AUG | - | - | - | JAN-DEC |
| | Atlantic surfclam | | X X X X X X X X X X | MAR-MAY SEP-NOV | - | - | - | JAN-DEC |
| | Lettered olive | | X X X X X X X X X X | - | - | - | - | - |
| | Mole crab | | X X X X X X X X X X | APR-MAY | - | - | - | JAN-DEC |
| | Speckled swimming crab | COMMON | X X X X X X X X X X | - | - | - | - | - |
| 265 | Atlantic seabob shrimp | | X X X X X X X X X X | - | - | - | - | OCT-JAN |
| | Blue crab | ABUNDANT | X X X X X X X X X X | - | - | JAN-DEC | - | - |
| | Brief squid | | X X X X X X X X X X | MAR-DEC | MAR-DEC | MAR-DEC | JAN-DEC | JAN-DEC |
| | Brown shrimp | | X X X X X X X X X X | - | - | - | - | MAR-OCT |
| | Lesser blue crab | | X X X X X X X X X X | - | - | MAR-DEC | - | - |
| | White shrimp | ABUNDANT | X X X X X X X X X X | MAR-SEP | - | - | - | 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 |
|------|--------------------|-----------|-------------------------|--------|---------|---------|---------|
| 170 | Bottlenose dolphin | | X X X X X X X X X X | - | JAN-DEC | - | - |

REPTILE:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Nesting | Hatching | Interesting | Juveniles | Adults |
|------|--------------------------|----------------|-------------------------|---------|----------|-------------|-----------|---------|
| 70 | Kemp's ridley sea turtle | E E 7-15 NESTS | X X X X X X X X | MAR-JUL | APR-SEP | - | APR-SEP | MAR-JUL |
| 332 | Green sea turtle | T T OCCASIONAL | X X X X X X X X | - | - | - | MAR-NOV | - |
| | Hawksbill sea turtle | E E OCCASIONAL | X X X X X X X X | - | - | - | MAR-OCT | - |
| | Kemp's ridley sea turtle | E E COMMON | X X X X X X X X | - | - | - | APR-NOV | APR-NOV |
| | Loggerhead sea turtle | T T OCCASIONAL | X X X X X X X X X X | - | - | - | JAN-DEC | - |

HUMAN USE RESOURCES:

HELIPORT:

| HUN# | Name | Contact | Phone |
|------|-----------------------|---------|-------|
| 212 | TOURIST RIDE SERVICES | | |

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. This is particularly important to recognize when considering potential impacts to protected species.