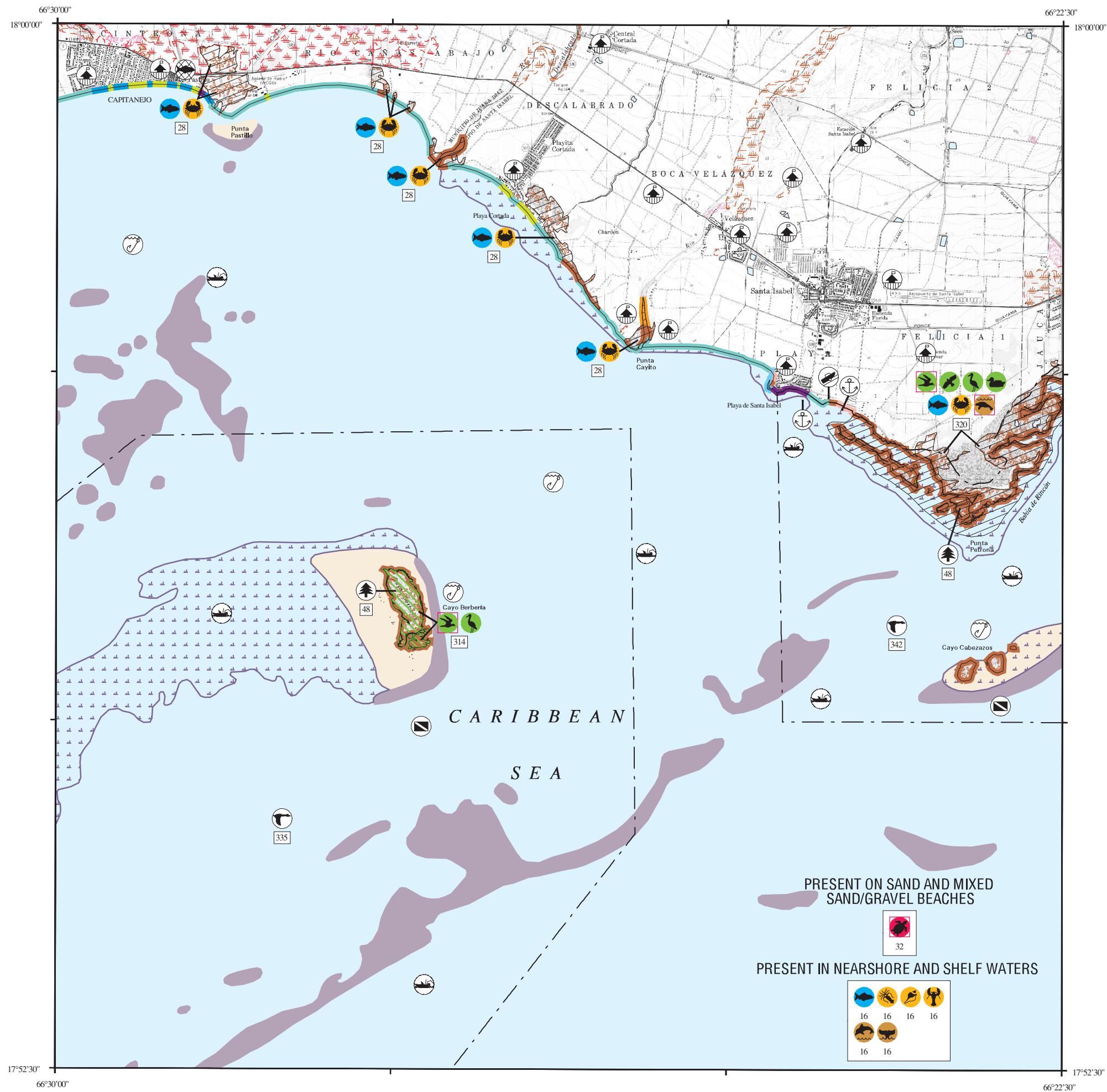


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

-  1A EXPOSED ROCKY CLIFFS
 -  1B EXPOSED, SOLID MAN-MADE STRUCTURES
 -  2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 -  2B SCARPS AND STEEP SLOPES IN MUDDY SEDIMENTS
 -  3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 -  4 COARSE-GRAINED SAND BEACHES
 -  5 MIXED SAND AND GRAVEL BEACHES
 -  6A GRAVEL BEACHES
 -  6B RIPRAP
 -  7 EXPOSED TIDAL FLATS
 -  8A SHELTERED ROCKY SHORES
 -  8B SHELTERED, SOLID MAN-MADE STRUCTURES
 -  9A SHELTERED TIDAL FLATS
 -  9B SHELTERED VEGETATED LOW BANKS
 -  10D MANGROVES
 -  SALT- AND BRACKISH-WATER MARSHES
 -  FRESHWATER MARSHES
 -  FRESHWATER SWAMPS
 -  FRESHWATER SCRUB/SHRUB

STREAM REACHES (RS)

-  1 QUIET POOL; LOW-SENSITIVE BANKS
 -  2 STRAIGHT CHANNEL WITH CURRENTS;
LOW-SENSITIVE BANKS (MUD DOMINANT)
 -  3 MEANDERING CHANNEL; SAND POINT BARS
 -  4 MEANDERING CHANNEL; VEGETATED POINT BARS
 -  5 RAPIDS OVER BEDROCK
 -  6 MEANDERING CHANNEL; SAND AND GRAVEL
POINT BARS
 -  7 SPLIT CHANNEL WITH COARSE GRAVEL;
SOME RAPIDS
 -  8 SMALL FALLS; BOULDERS IN CHANNEL
 -  9 LARGE FALLS; BOULDERS IN CHANNEL
 -  10 CHANNELS WITH ASSOCIATED VULNERABLE WETLANDS
 -  KARST

Not For Navigation
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Hazardous Materials Response Division

SANTA ISABEL, P.R. (1982)

PR-61

PUERTO RICO - ESIMAP 61

BIOLOGICAL RESOURCES:

BIRD:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D Nesting |
|-----------------------|---------------|---------------------------------|
| 314 Brown pelican | S/F E/E | X X X X X X X X X X X X X X - |
| Wading birds | | X X X X X X X X X X X X X X - |
| 320 Blue-winged teal | HIGH | X X X X X X X X X X X X X X - |
| Brown pelican | S/F E/E | X X X X X X X X X X X X X X - |
| Common moorhen | | X X X X X X X X X X X X X X - |
| Osprey | | X X X X X X X X X X X X X X - |
| Wading birds | HIGH | X X X X X X X X X X X X X X - |
| White-cheeked pintail | | X X X X X X X X X X X X X X - |

FISH:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D Spawning Eggs | Larvae | Juveniles | Adults |
|------------------|---------------|---------------------------------------|---------|-----------|---------|
| 16 Pelagic fish | | X X X X X X X X X X X X JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| Reef fish | | X X X X X X X X X X X X JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 28 Nursery fish | | X X X X X X X X X X X X - | - | - | JAN-DEC |
| Snook | | X X X X X X X X X X X X APR-FEB | APR-FEB | JAN-DEC | JAN-DEC |
| Tarpon | | X X X X X X X X X X X X - | - | MAY-DEC | JAN-DEC |
| 320 Nursery fish | | X X X X X X X X X X X X - | - | - | JAN-DEC |
| Snook | | X X X X X X X X X X X X APR-FEB | APR-FEB | JAN-DEC | JAN-DEC |
| Tarpon | | X X X X X X X X X X X X - | - | MAY-DEC | JAN-DEC |

INVERTEBRATE:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D Spawning Eggs | Larvae | Juveniles | Adults |
|----------------------------|---------------|---------------------------------------|---------|-----------|---------|
| 16 Caribbean spiny lobster | | X X X X X X X X X X X X JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| Octopus | | X X X X X X X X X X X X DEC-MAR | DEC-APR | - | JAN-DEC |
| Queen conch | | X X X X X X X X X X X X APR-OCT | APR-OCT | APR-OCT | JAN-DEC |
| 28 Blue land crab | | X X X X X X X X X X X X JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC |
| 320 Blue land crab | | X X X X X X X X X X X X JUL-AUG | JUL-AUG | JUL-SEP | JAN-DEC |

MARINE MAMMAL:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D Mating | Calving |
|-------------------------|---------------|---------------------------------|---------|
| 16 Dolphins | | X X X X X X X X X X X X - | - |
| Whales | | X X X X X X X X X X X X - | - |
| 320 West Indian manatee | S/F E/E | X X X X X X X X X X X X JAN-DEC | JAN-DEC |

REPTILE:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D Nesting | Hatching | Internesting | Juveniles | Adults |
|------------------------|---------------|---------------------------------|----------|--------------|-----------|---------|
| 32 Green sea turtle | S/F E/T | X X X X X X X X X X X X JAN-DEC | JAN-DEC | - | JAN-DEC | JAN-DEC |
| Hawksbill sea turtle | S/F E/E | X X X X X X X X X X X X JAN-DEC | JAN-DEC | - | JAN-DEC | JAN-DEC |
| Leatherback sea turtle | S/F E/E | X X X X X X X X X X FEB-JUN | APR-SEP | - | APR-SEP | FEB-JUN |

HUMAN USE RESOURCES:

| HUN# Name | Owner/Manager | Contact | Phone |
|-------------------|---------------|--------------------------------------|--------------|
| 48 BOSQUE AGUIRRE | DRNA | DIVISION DE MANEJO BOSQUES ESTATALES | 787/721-5495 |

FOREST:

| | | | |
|-------------------|------|--------------------------------------|--------------|
| 48 BOSQUE AGUIRRE | DRNA | DIVISION DE MANEJO BOSQUES ESTATALES | 787/721-5495 |
|-------------------|------|--------------------------------------|--------------|

WILDLIFE REFUGE:

| | | | |
|---|------|---|--------------|
| 335 RESERVA NATURAL ISLA DE CAJA DE MUERTOS | DRNA | DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE | 787/724-2816 |
| 342 RESERVA NATURAL PUNTA PETRONA | DRNA | DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE | 787/724-2816 |

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.