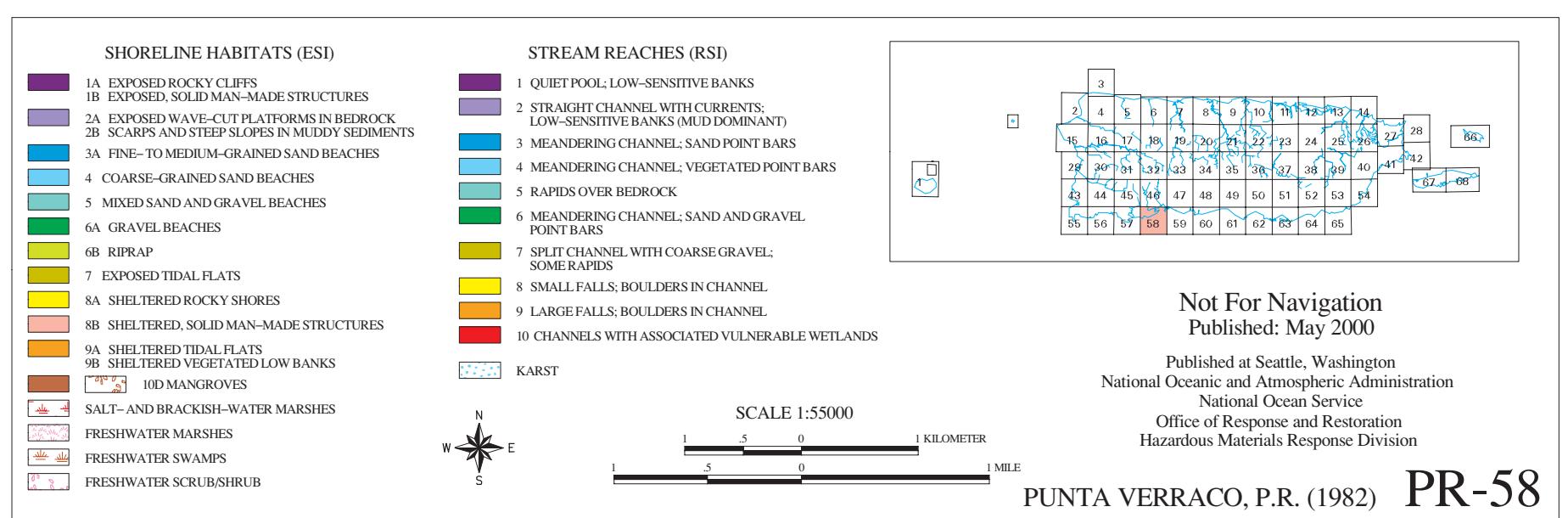
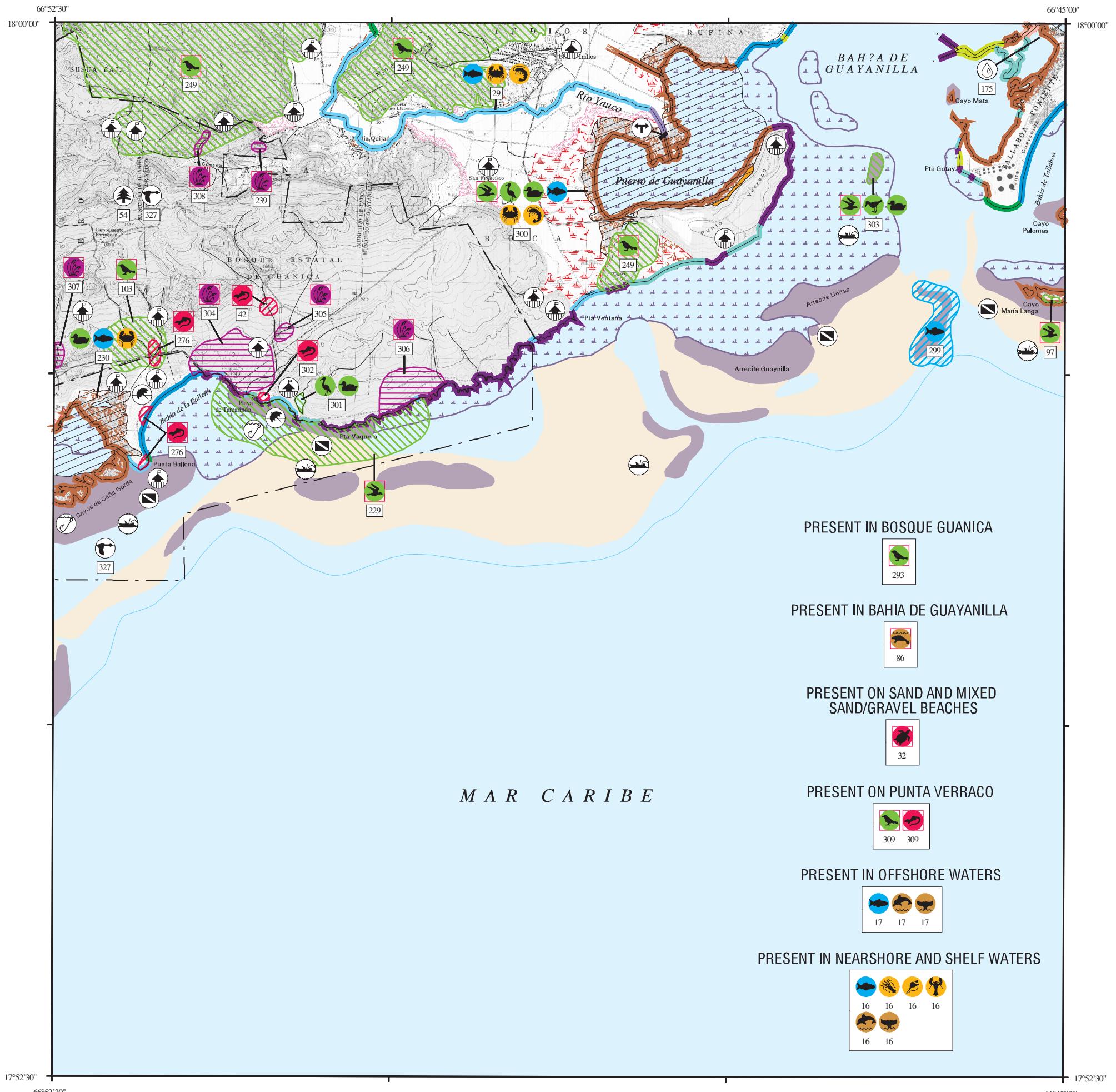


ENVIRONMENTAL SENSITIVITY INDEX MAP



PUERTO RICO - ESIMAP 58

BIOLOGICAL RESOURCES:

BIRD:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D Nesting |
|---------------------------------|---------------|---------------------------------|
| 97 Brown pelican | S/F E/E | X X X X X X X X X X X X X X - |
| 103 Yellow-shouldered blackbird | S/F E/E | X X X X X X X X X X X X MAR-SEP |
| 229 Brown pelican | S/F E/E | X X X X X X X X X X X X - |
| 230 Waterfowl | | X X X X X X X X X X X X - |
| 249 Puerto Rican nightjar | S/F E/E | X X X X X X X X X X X X FEB-JUL |
| 293 Key West quail-dove | | X X X X X X X X X X X X FEB-AUG |
| Mangrove cuckoo | HIGH | X X X X X X X X X X X X FEB-JUN |
| Neotropical migrants | HIGH | X X X X X X X X X X X X - |
| Puerto Rican bullfinch | HIGH | X X X X X X X X X X X X FEB-JUN |
| Puerto Rican lizard-cuckoo | HIGH | X X X X X X X X X X X X JAN-DEC |
| Puerto Rican nightjar | S/F E/E HIGH | X X X X X X X X X X X X FEB-JUL |
| Yellow-billed cuckoo | HIGH | X X X X X X X X X X X X APR-JUL |
| 300 Brown pelican | S/F E/E | 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 - |
| Waterfowl | LOW | X X X X X X X X X X X X - |
| 301 Blue-winged teal | MEDIUM | 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 - |
| 303 American oystercatcher | | X X X X X X X X X X X X - |
| Least tern | S T | X X X X X X X X X X X X APR-JUL |
| Roseate tern | S/F E/T | X X X X X X X X X X X X MAY-JUL |
| Sandwich tern | | X X X X X X X X X X X X MAY-JUL |
| Seabirds | | X X X X X X X X X X X X - |
| Shorebirds | | 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 FEB-JUN |
| 309 Puerto Rican nightjar | S/F E/E | X X X X X X X X X X X X FEB-JUL |

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 |
| 17 Pelagic fish | | X X X X X X X X X X X X JAN-DEC | JAN-DEC | JAN-DEC | JAN-DEC |
| 29 Native stream fish | | X X X X X X X X X X X X APR-MAY | APR-MAY | JAN-DEC | JAN-DEC |
| | | AUG-NOV | AUG-NOV | AUG-NOV | AUG-NOV |
| 230 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 |
| 299 Red hind | HIGH | X X X X X X X X X X X X JAN-MAR | JAN-MAR | JAN-MAR | DEC-MAR |
| 300 Native stream fish | | X X X X X X X X X X X X - | - | APR-MAY | - |
| 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 |

PLANT:

| RAR# Species | S/F T/E Conc. | J F M A M J J A S O N D |
|-----------------------------|---------------|-------------------------|
| 239 Trichilia triacantha | S/F E/E | X X X X X X X X X X X X |
| 304 Mitracarpus polycladus | S/F E/E | X X X X X X X X X X X X |
| 305 Eugenia woodburyana | S/F E/E | X X X X X X X X X X X X |
| Ottoschulzia rhodoxylon | S/F E/E | X X X X X X X X X X X X |
| Trichilia triacantha | S/F E/E | X X X X X X X X X X X X |
| 306 Mitracarpus maxwelliae | S/F E/E | X X X X X X X X X X X X |
| 307 Eugenia woodburyana | S/F E/E | X X X X X X X X X X X X |
| Ottoschulzia rhodoxylon | S/F E/E | X X X X X X X X X X X X |
| 308 Ottoschulzia rhodoxylon | S/F E/E | X X X X X X X X X X X X |
| Trichilia triacantha | S/F E/E | X X X X X X X X X X X X |

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 | JAN-DEC | JAN-DEC |
| 29 Freshwater crab | | X X X X X X X X X X X X APR-MAY | APR-MAY | - | JAN-DEC |
| Native stream shrimp | | X X X X X X X X X X X X AUG-NOV | AUG-NOV | JAN-DEC | JAN-DEC |
| | | AUG-NOV | AUG-NOV | AUG-NOV | AUG-NOV |
| 230 Blue land crab | | X X X X X X X X X X X X JUL-AUG | JUL-AUG | JAN-DEC | JAN-DEC |
| 300 Blue land crab | | X X X X X X X X X X X X JUL-AUG | JUL-AUG | JAN-DEC | JAN-DEC |
| Native stream shrimp | | X X X X X X X X X X X X - | - | APR-MAY | - |

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 | - |
| 17 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 | - |
| 86 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 X X FEB-JUN | APR-SEP | - | APR-SEP | FEB-JUN |
| 42 Puerto Rican crested toad | S/F T/T | X X X X X X X X X X X X MAY-DEC | MAY-DEC | - | MAY-JAN | JAN-DEC |
| 276 Cook's anole | S T | X X X X X X X X X X X X - | - | - | JAN-DEC | JAN-DEC |
| 302 Puerto Rican crested toad | S/F T/T | X X X X X X X X X X X X MAY-DEC | MAY-DEC | - | MAY-JAN | JAN-DEC |
| 309 Cook's anole | S T | X X X X X X X X X X X X - | - | - | JAN-DEC | JAN-DEC |

HUMAN USE RESOURCES:

| HUN# Name | Owner/Manager | Contact | Phone |
|-----------|---------------|---------|-------|
|-----------|---------------|---------|-------|

FOREST:

| | | | |
|-------------------|------|--------------------------------------|--------------|
| 54 BOSQUE GUANICA | DRNA | DIVISION DE MANEJO BOSQUES ESTATALES | 787/721-5495 |
|-------------------|------|--------------------------------------|--------------|

WILDLIFE REFUGE:

| | | | |
|--------------------------------|------|---|--------------|
| 327 RESERVA NATURAL DE GUANICA | DRNA | DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE | 787/724-2816 |
|--------------------------------|------|---|--------------|

WATER INTAKE:

| HUN# Name | Owner/Manager | Location | Phone |
|-----------|---------------|----------|-------|
|-----------|---------------|----------|-------|

| | | | |
|--------------------|-------|--|--------------|
| 175 CORCO FACILITY | CORCO | | 787/843-3030 |
|--------------------|-------|--|--------------|

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.