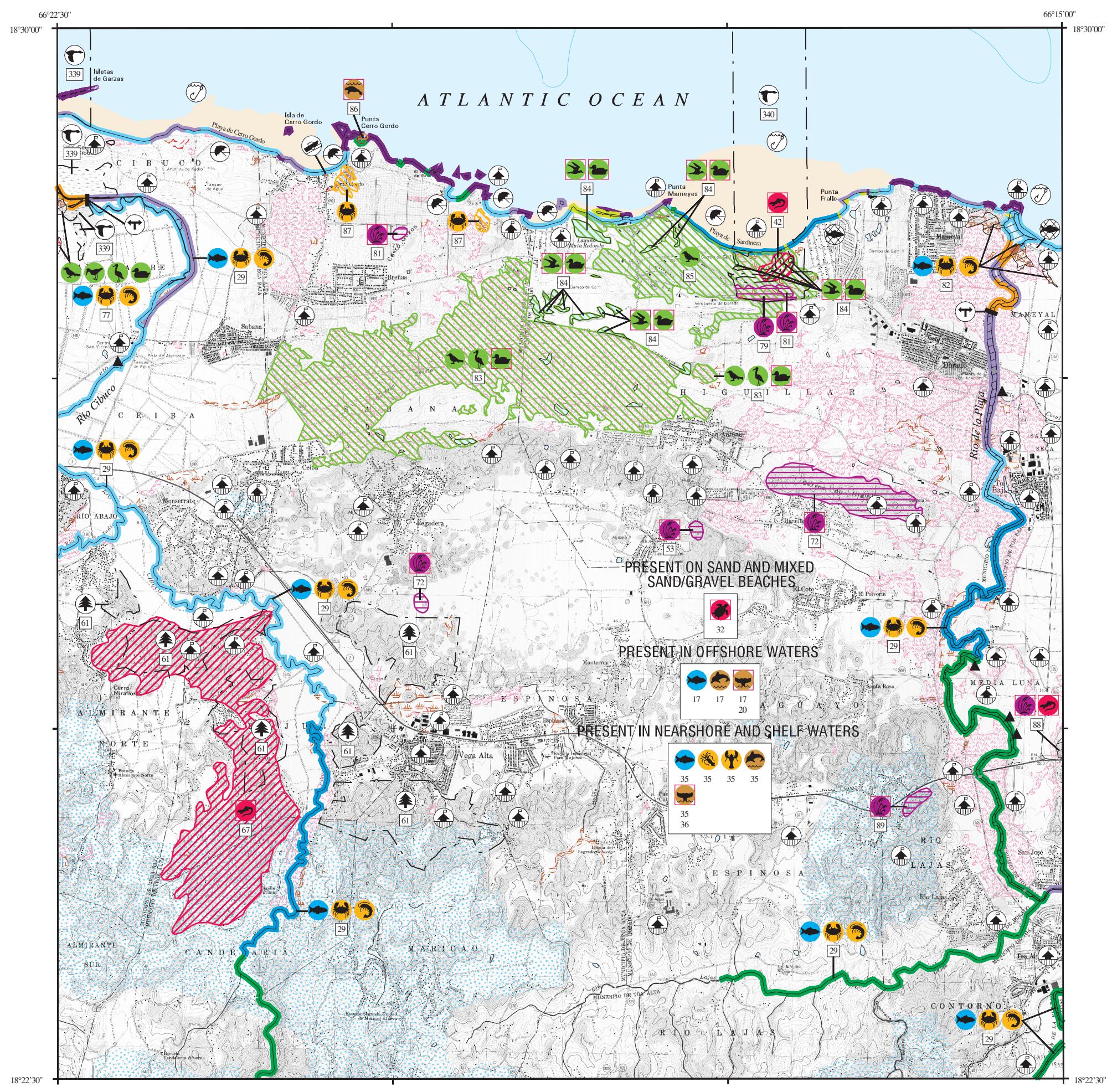


ENVIRONMENTAL SENSITIVITY INDEX MAP

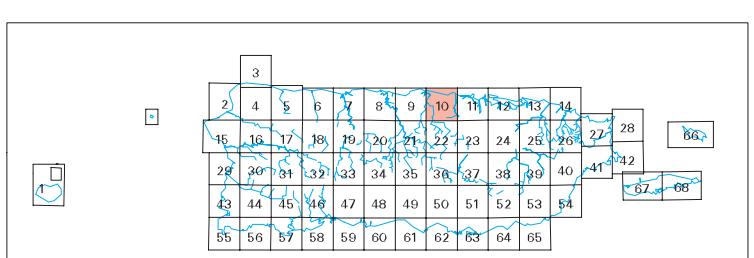


SHORELINE HABITATS (ESI)

- 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
- 10 MANGROVES
- SALT-AND BRACKISH-WATER MARSHES
- FRESHWATER MARSHES
- FRESHWATER SWAMPS
- FRESHWATER SCRUB/SHRUB

STREAM REACHES (RSI)

- 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



Not For Navigation
Published: May 2000

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

VEGA ALTA, P.R. (1982) PR-10

PUERTO RICO - ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F T/E Conc.	J F M A M J J A S O N D Nesting
77	Black-necked stilt		X X X X X X X X X X
	Blue-winged teal	HIGH	X X X X X X X X X X
	Common moorhen	MEDIUM	X X X X X X X X X X X X
	Common snipe	HIGH	X X X X X X X X X X
	Wading birds	MEDIUM	X X X X X X X X X X X X
	White-crowned pigeon		X X X X X X X X X X X X
83	Blue-winged teal	LOW	X X X X X X X X X X
	Common moorhen	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
	West Indian whistling-duck	S T	X X X X X X X X X X X X
	White-crowned pigeon	HIGH	X X X X X X X X X X X X
84	Brown pelican	S/F E/E HIGH	X X X X X X X X X X X X
	Caribbean coot	S T	X X X X X X X X X X X X
85	Scaly-naped pigeon	MEDIUM	X X X X X X X X X X X X
	White-crowned pigeon	HIGH	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
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
35	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
77	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
82	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
53	Daphnopsis hellerana	S/F E/E	X X X X X X X X X X X X
72	Ottoschulzia rhodoxylon	S/F E/E	X X X X X X X X X X X X
79	Pterocarpus swamp		X X X X X X X X X X X X
81	Chamaecrista glandulosa mirabilis	S/F E/E	X X X X X X X X X X X X
88	Daphnopsis hellerana	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
89	Banara vanderbiltii	S/F E/E	X X X X X X X X X X X X
	Daphnopsis hellerana	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
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
35	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
77	Blackback land crab		X X X X X X X X X X X X	-	-	JAN-DEC
	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	-
	Purple land crab		X X X X X X X X X X X X	-	JAN-DEC	JAN-DEC
	Swamp ghost crab (zambuco)	VERY HIGH	X X X X X X X X X X X X	-	JAN-DEC	JAN-DEC
82	Blackback land crab		X X X X X X X X X X X X	-	JAN-DEC	JAN-DEC
	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	-
	Purple land crab		X X X X X X X X X X X X	-	JAN-DEC	JAN-DEC
87	Blackback land crab		X X X X X X X X X X X X	-	JAN-DEC	JAN-DEC
	Blue land crab		X X X X X X X X X X X X JUL-AUG	JUL-AUG	JAN-DEC	JAN-DEC
	Purple land crab		X X X X X X X X X X X X	-	JAN-DEC	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
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	-
20	Sperm whale	S/F E/E HIGH	X X X X X X X X X X X X	-
35	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	-
36	Humpback whale	S/F E/E VERY HIGH	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
67	Puerto Rican boa	S/F E/E	X X X X X X X X X X X X	-	-	JAN-DEC	JAN-DEC
88	Puerto Rican boa	S/F E/E	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
61	BOSQUE VEGA	DRNA	DIVISION DE MANEJO BOSQUES ESTATALES	787/721-5495

FOREST:

339 RESERVA NATURAL PANTANO CIBUCO DRNA DIVISION DE RESERVAS NATURALES 787/724-2816 Y REFUGIOS DE VIDA SILVESTRE

340 RESERVA NATURAL PTEROCARPUS DE DORADO DRNA DIVISION DE RESERVAS NATURALES 787/724-2816 Y REFUGIOS DE VIDA SILVESTRE

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.