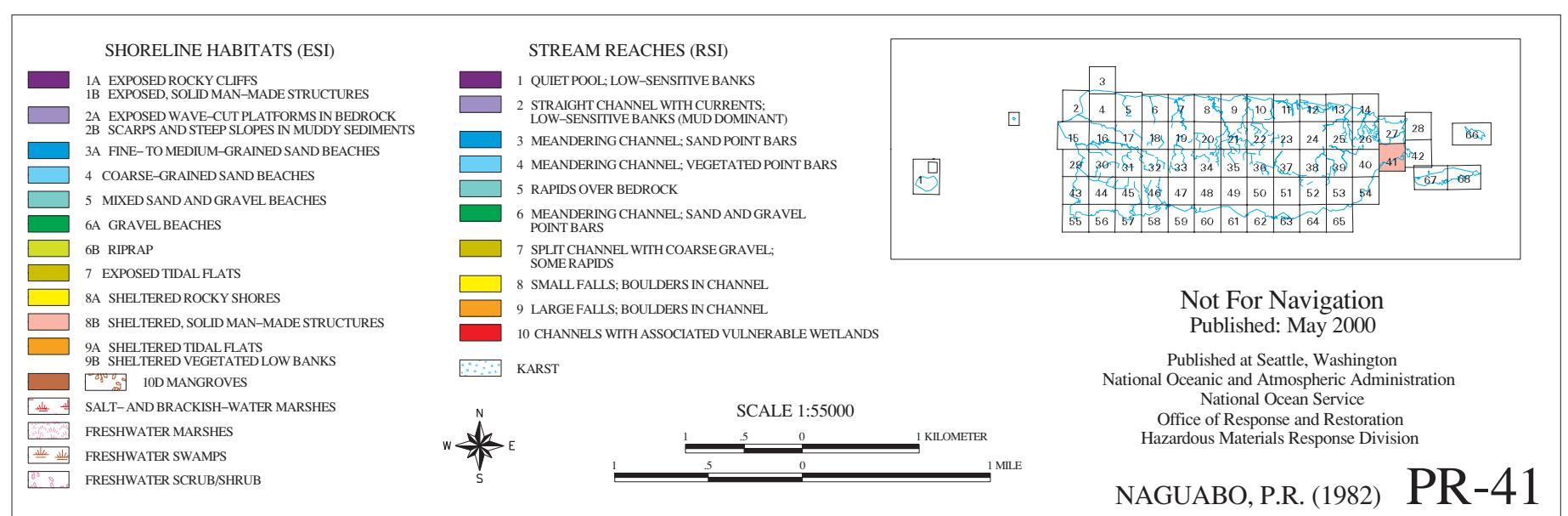
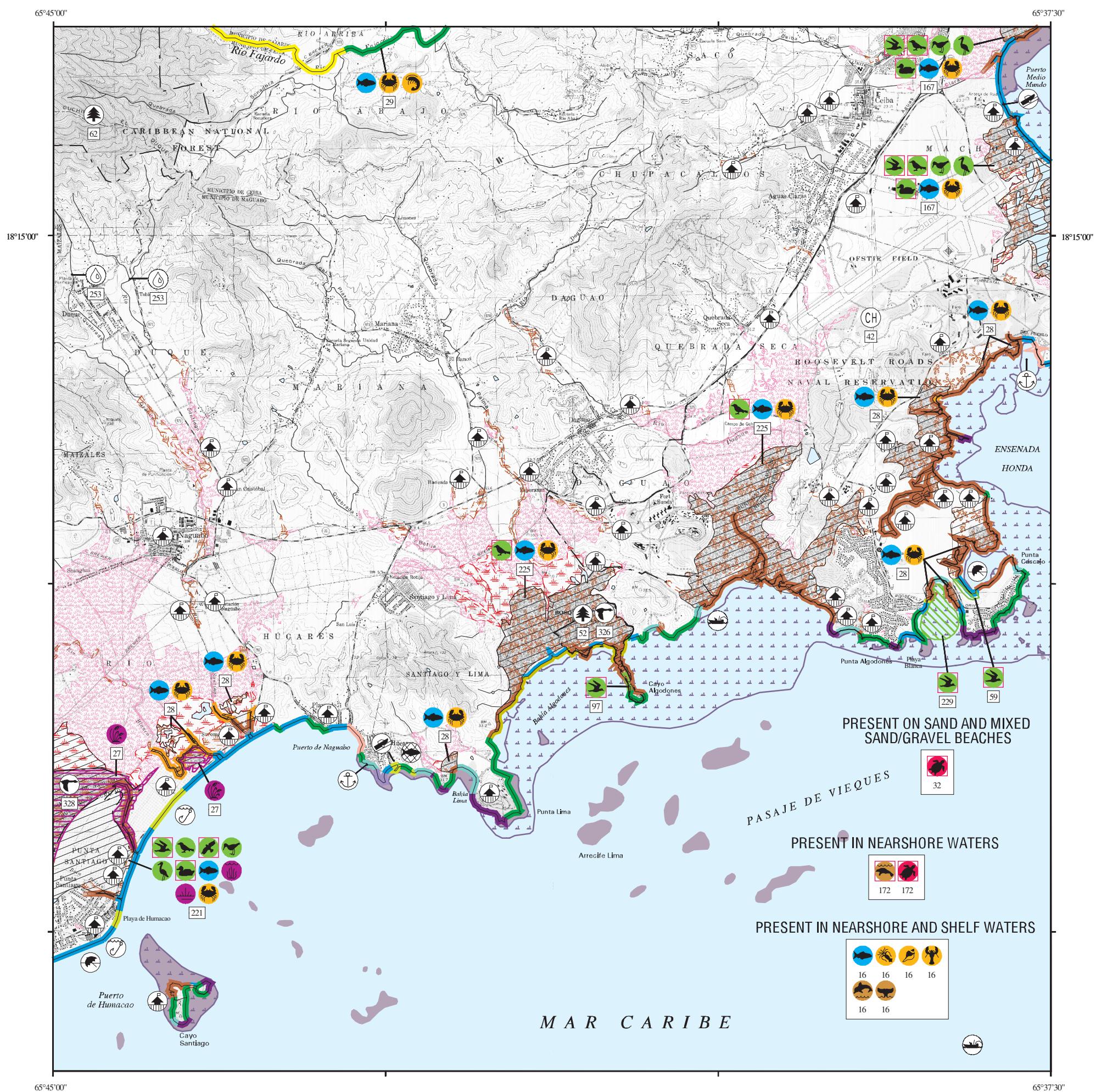


ENVIRONMENTAL SENSITIVITY INDEX MAP



PUERTO RICO - ESIMAP 41

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F T/E Conc.	J F M A M J J A S O N D Nesting
59	Least tern	S T	X X X X X X APR-JUL
97	Brown pelican	S/F E/E	X X X X X X X X X X X X -
167	American coot	HIGH	X X X X X X X X X X X X -
	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 -
	Brown pelican	S/F E/E	X X X X X X X X X X -
	Caribbean coot	S T HIGH	X X X X X X X X X X -
	Common moorhen	HIGH	X X X X X X X X X X -
	Green-winged teal	LOW	X X X X X X X X X X -
	Least grebe	S T	X X X X X X X X X X -
	Lesser scaup	LOW	X X X X X X X X X X -
	Pied-billed grebe	HIGH	X X X X X X X X X X -
	Ring-necked duck	LOW	X X X X X X X X X X -
	Ruddy duck	S T HIGH	X X X X X X X X X X -
	Shorebirds	HIGH	X X X X X X X X X X -
	Wading birds	HIGH	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 JAN-DEC
	White-cheeked pintail	MEDIUM	X X X X X X X X X X FEB-JUN
	White-crowned pigeon		X X X X X X X X X X MAR-SEP
	Yellow-shouldered blackbird	S/F E/E	X X X X X X X X X X MAR-SEP
221	American coot	HIGH	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 -
	Caribbean coot	S T HIGH	X X X X X X X X X X JAN-DEC
	Common moorhen		X X X X X X X X X X -
	Common snipe	MEDIUM	X X X X X X X X X X -
	Least grebe	S T	X X X X X X X X X X APR-MAY
	Magnificent frigatebird		SEP-NOV
	Masked duck	S T	X X X X X X X X X X -
	Peregrine falcon	S E	X X X X X X X X X X MAY-AUG
	Pied-billed grebe		X X X X X X X X X X -
	Purple gallinule		X X X X X X X X X X -
	Ruddy duck	S T HIGH	X X X X X X X X X X JUN-AUG
	Scaly-naped pigeon	HIGH	X X X X X X X X X X MAR-JUN
	Shorebirds	HIGH	X X X X X X X X X X -
	Wading birds	HIGH	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 JAN-DEC
	White-cheeked pintail	HIGH	X X X X X X X X X X FEB-JUN
	White-crowned pigeon	HIGH	X X X X X X X X X X MAR-SEP
	Zenaida dove	HIGH	X X X X X X X X X X JAN-DEC
225	Passerine birds	HIGH	X X X X X X X X X X -
	Scaly-naped pigeon	HIGH	X X X X X X X X X X MAR-JUN
	White-crowned pigeon	HIGH	X X X X X X X X X X MAR-SEP
	White-winged dove	HIGH	X X X X X X X X X X JAN-DEC
	Yellow-shouldered blackbird	S/F E/E HIGH	X X X X X X X X X X MAR-SEP
	Zenaida dove	HIGH	X X X X X X X X X X JAN-DEC
229	Brown pelican	S/F E/E	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 JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Reef fish		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 -	-	JAN-DEC	-
	Snook		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 -	-	MAY-DEC	JAN-DEC
29	Native stream fish		X X X X X X X X X X APR-MAY	APR-MAY	APR-MAY	JAN-DEC
			AUG-NOV	AUG-NOV	AUG-NOV	JAN-DEC
167	Nursery fish		X X X X X X X X X X -	-	-	JAN-DEC
	Snook		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 -	-	MAY-DEC	JAN-DEC
221	Nursery fish		X X X X X X X X X X -	-	-	JAN-DEC
	Snook		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 -	-	MAY-DEC	JAN-DEC
225	Nursery fish		X X X X X X X X X X -	-	-	JAN-DEC
	Snook		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 -	-	MAY-DEC	JAN-DEC

PLANT:

RAR#	Species	S/F T/E Conc.	J F M A M J J A S O N D
27	Pterocarpus swamp		X X X X X X X X X X
221	Floating aquatic vegetation		X X X X X X X X X X
	Submersed aquatic vegetation		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 JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Octopus		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 APR-OCT	APR-OCT	JAN-DEC	JAN-DEC
28	Blue land crab		X X X X X X X X X X JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC
29	Freshwater crab		X X X X X X X X X X APR-MAY	APR-MAY	-	JAN-DEC
	Native stream shrimp		AUG-NOV	AUG-NOV	AUG-NOV	JAN-DEC
167	Blue land crab		X X X X X X X X X X JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC
221	Blue land crab		X X X X X X X X X X JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC
225	Blue land crab		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 -	-
	Whales		X X X X X X X X X X -	-
172	West Indian manatee	S/F E/E	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 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 JAN-DEC	JAN-DEC	-	JAN-DEC	JAN-DEC
	Leatherback sea turtle	S/F E/E	X X X X X X X X X FEB-JUN	APR-SEP	-	APR-SEP	FEB-JUN
172	Green sea turtle	S/F E/T	X X X X X X X X X X -	-	-	JAN-DEC	JAN-DEC
	Hawksbill sea turtle	S/F E/E	X X X X X X X X X X -	-	-	JAN-DEC	JAN-DEC

HUMAN USE RESOURCES:

HUN#	Name	Owner/Manager	Contact	Phone
42	YELLOW-SHOULDERED BLACKBIRD DCH	USFWS	CARIBBEAN FIELD OFFICE	787/851-7297

CRITICAL HABITAT:

52	BOSQUE DE CEIBA	DRNA	DIVISION DE MANEJO BOSQUES ESTATALES	787/721-5495
62	CARIBBEAN NATIONAL FOREST	USFS	FOREST BIOLOGIST	787/888-5659

WILDLIFE REFUGE:

326	RESERVA NATURAL DE CEIBA	DRNA	DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE	787/724-2816
328	RESERVA NATURAL DE HUMACAO	DRNA	DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE	787/724-2816

WATER INTAKE:

HUN#	Name	Owner/Manager	Location	Phone
253	NAGUABO FILTER PLANT	PRASA		

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.