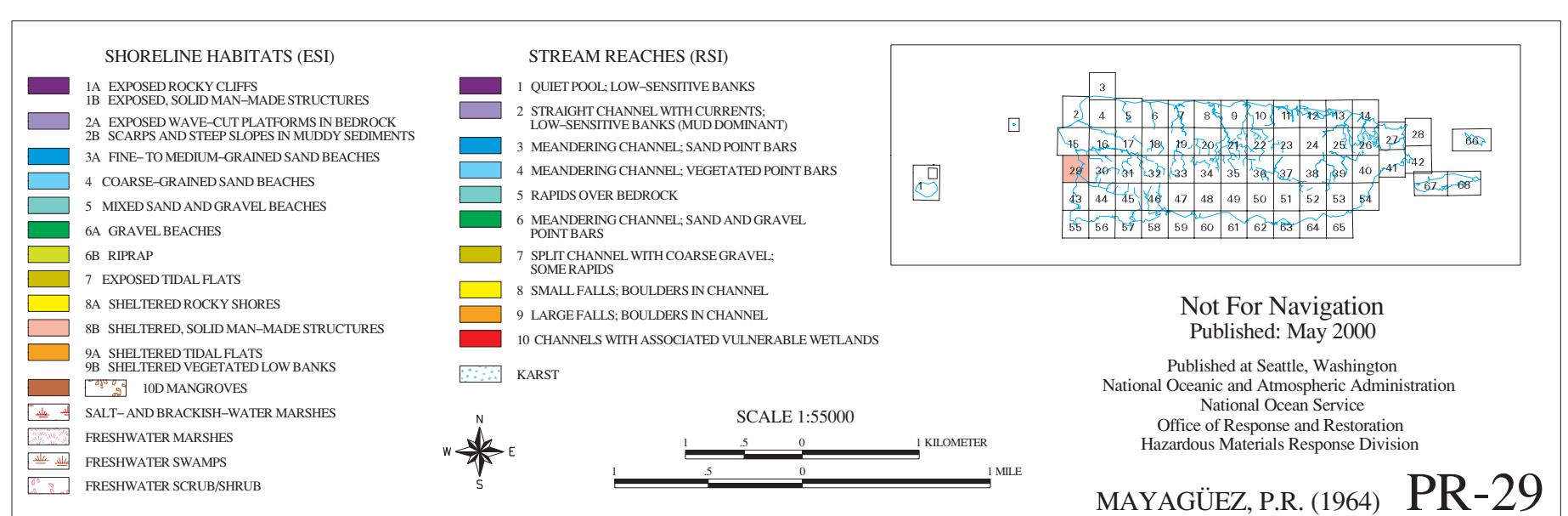
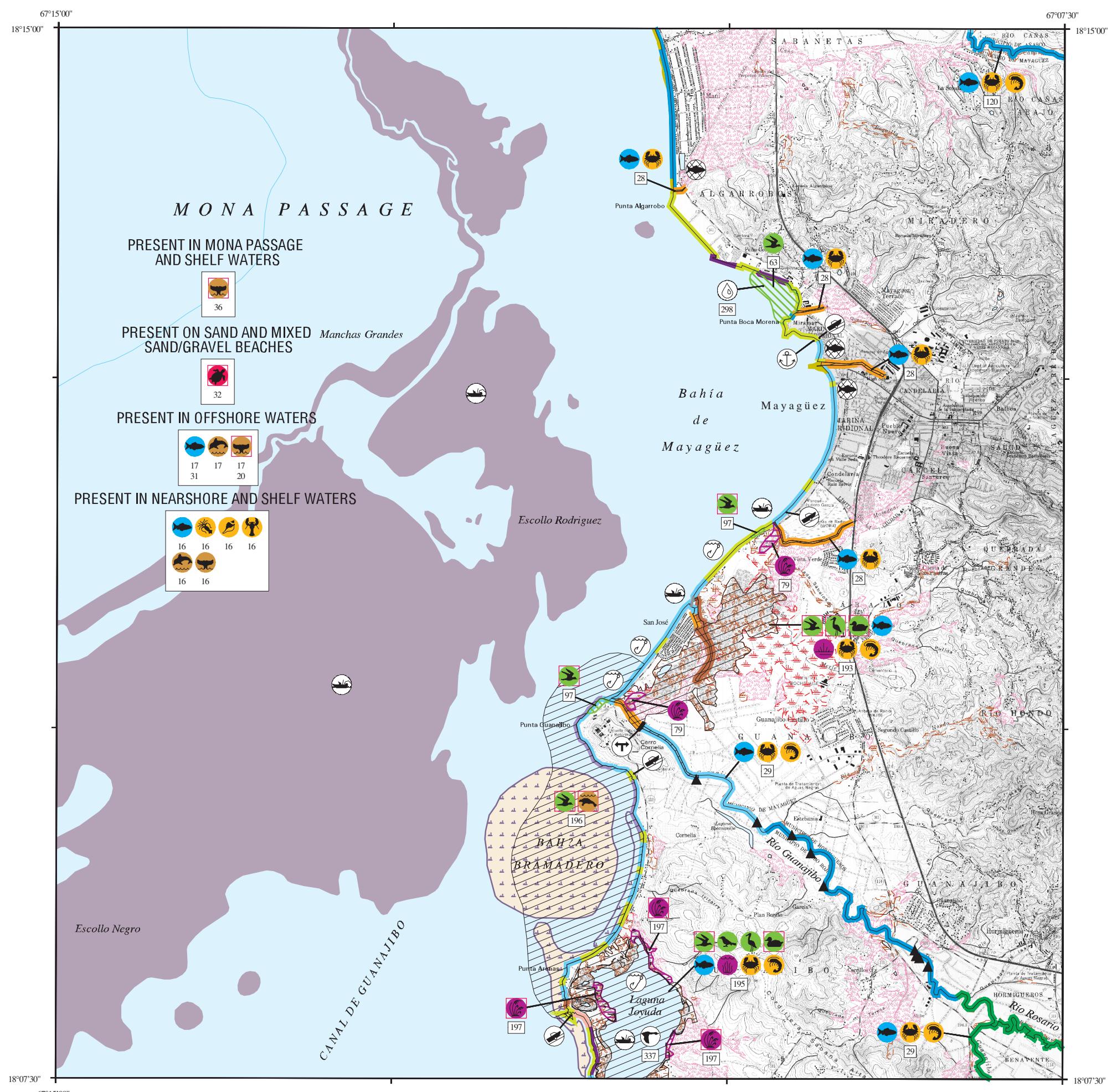


ENVIRONMENTAL SENSITIVITY INDEX MAP



PUERTO RICO - ESIMAP 29

BIOLOGICAL RESOURCES:

BIRD:

RAR# Species	S/F T/E Conc.	J F M A M J J A S O N D Nesting
63 Seabirds		X X X X X X X X X X X X X X X X -
97 Brown pelican	S/F E/E	X X X X X X X X X X X X X X X X -
193 Brown pelican	S/F E/E	X X 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 X X -
Least grebe	S T	X X X X X X X X X X X X X X X X -
Pied-billed grebe		X X X X X X X X X X X X X X X X -
Yellow-breasted crake	S T	X X X X X X X X X X X X X X X X -
195 Belted kingfisher		X X 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 X X -
Green heron		X X X X X X X X X X X X X X X X -
Purple gallinule		X X X X X X X X X X X X X X X X -
Ruddy duck	S T	X X X X X X X X X X X X X X X X -
196 Brown pelican	S/F E/E	X X 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
17 Pelagic 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	JAN-DEC	JAN-DEC	JAN-DEC
Snook		X X X X X X X X X X X X -	-	JAN-DEC	-
Tarpon		X X X X X X X X X X X X -	MAY-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	APR-MAY	JAN-DEC
		AUG-NOV	AUG-NOV	AUG-NOV	JAN-DEC
31 Blue marlin	HIGH	X X X X X X X X X X MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV
120 Hog-nosed mullet		X X X X X X X X X X -	-	JAN-DEC	JAN-DEC
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
193 Native stream fish		X X X X X X X X X X -	-	APR-MAY	-
		AUG-NOV	-	-	-
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
195 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
79 Pterocarpus swamp		X X X X X X X X X X X X
193 Water hyacinth		X X X X X X X X X X X X
Water lettuce		X X X X X X X X X X X X
195 Submersed aquatic vegetation		X X X X X X X X X X X X
197 Stahlia monosperma	S/F T/T	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	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
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 APR-MAY	APR-MAY	JAN-DEC	JAN-DEC
		AUG-NOV	AUG-NOV	AUG-NOV	JAN-DEC
120 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 APR-MAY	APR-MAY	JAN-DEC	JAN-DEC
		AUG-NOV	AUG-NOV	AUG-NOV	JAN-DEC
193 Blue land crab		X X X X X X X X X X X X JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC
Native stream shrimp		X X X X X X X X X X X X -	-	APR-MAY	-
		AUG-NOV	-	-	-
195 Blue crabs		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	JUL-SEP	JAN-DEC
Penaeid shrimp		X X X X X X X X X X X X -	-	-	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 -	-
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 -	-
36 Humpback whale	S/F E/E VERY HIGH	X X X X X X X X X X X X -	-
196 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:

WATER INTAKE:

HUN# Name	Owner/Manager	Location	Phone
298 TUNA FACTORY	BUMBLE BEE TUNA		787/834-3450

WILDLIFE REFUGE:

HUN# Name	Owner/Manager	Contact	Phone
337 RESERVA NATURAL LAGUNA JOYUDA	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.