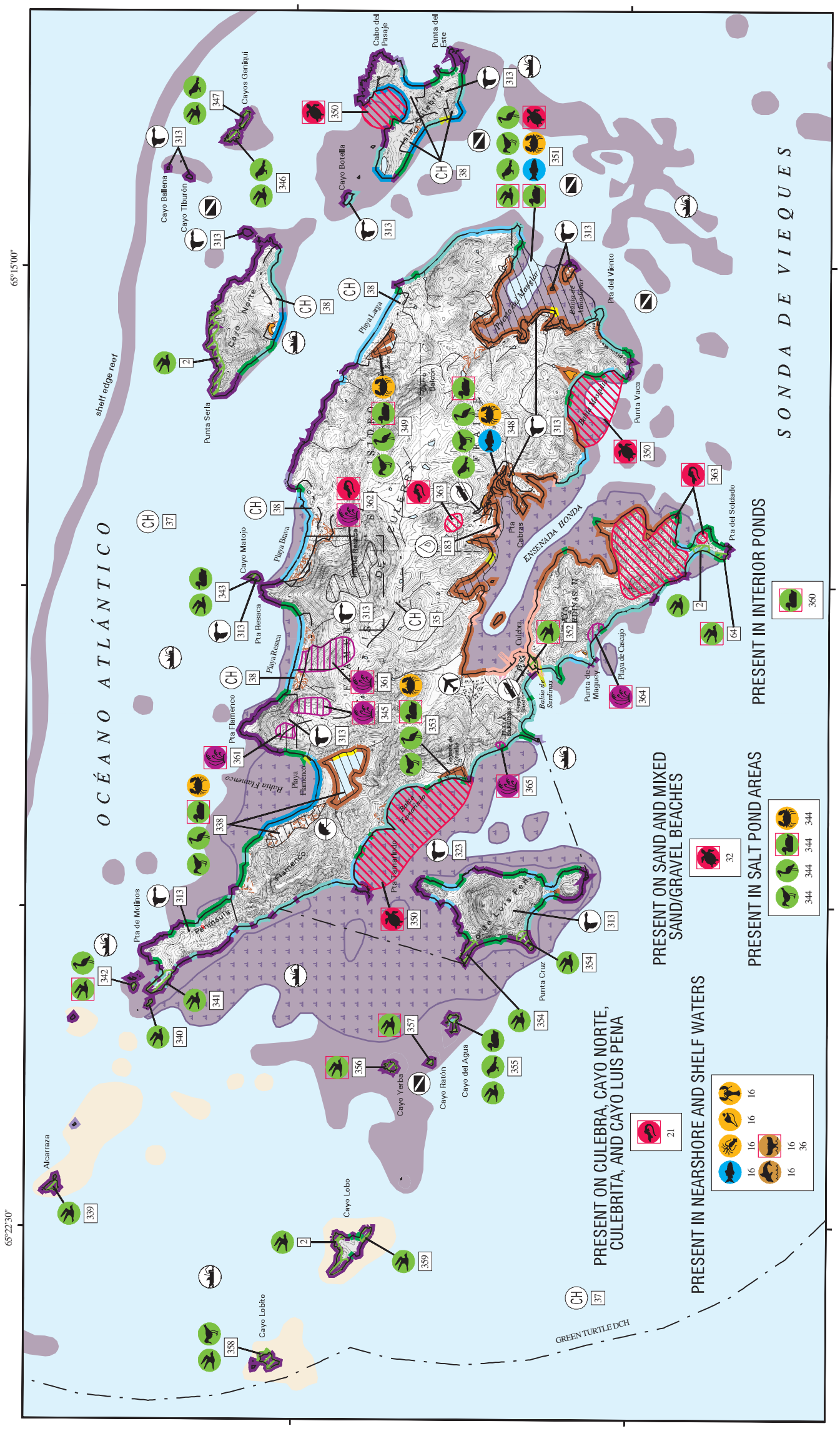
ENVIRONMENTAL SENSITIVITY INDEX MAP



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 (RSI)

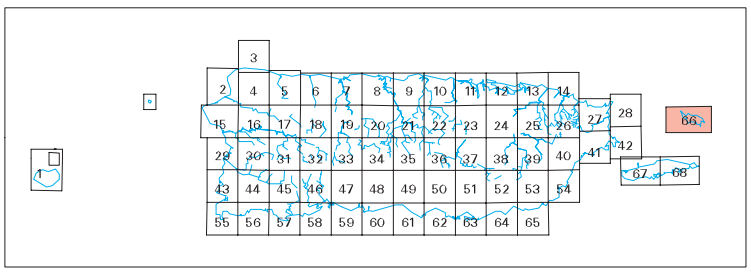
- 1 QUIET POOL; LOW–SENSITIVE BANKS
- 2 STRAIGHT CHANNEL WITH CURRENTS; LOW–SENSITIVE BANKS (MUD DOMINANT)
- 3 MEANDERING CHANNEL; SAND POINT BARS
- 4 MEANDERING CHANNEL; VEGETATED POINT BARS
- 5 RAPIDS OVER BEDROCK
- 6 MEANDERING CHANNEL; SAND AND GRAVEL POINT BARS
- 7 SPLIT CHANNEL WITH COARSE GRAVEL;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

N W E S

SCALE 1:65000

1 .5 0 1 KILOMETER

1 .5 0 1 MILE



Not For Navigation

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CULEBRA AND ADJACENT ISLANDS, P.R. (1948) PR-66

PUERTO RICO - ESIMAP 66

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting
2	White-tailed tropicbird						X	X	X	X	X						MAR-JUL
64	Roseate tern	S/F	E/T					X	X	X	X	X	X				MAY-JUL
338	Black-necked stilt						X	X	X	X	X	X	X	X			APR-OCT
	Blue-winged teal				X	X	X	X						X	X	X	-
	Caribbean coot	S	T	HIGH	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	-
	Least grebe	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-
	Masked duck	S	T	LOW	X	X	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	X	X	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-
	Wading birds				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-cheeked pintail			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
339	Audubon's shearwater					X	X	X	X	X	X						FEB-JUL
	Bridled tern							X	X	X	X	X					APR-JUL
	Brown noddy				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG
	Masked (blue-faced) booby				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY
																	SEP-SEP
	Sooty tern							X	X	X	X	X					APR-AUG
340	Bridled tern							X	X	X	X	X					APR-JUL
	Brown noddy				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG
	Sooty tern							X	X	X	X	X					APR-AUG
341	Sooty tern							X	X	X	X	X					APR-AUG
342	Bridled tern							X	X	X	X	X					APR-JUL
	Brown noddy				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG
	Red-billed tropicbird				X	X	X	X	X	X			X	X	X	X	JAN-JUN
	Roseate tern	S/F	E/T					X	X	X	X	X	X				MAY-JUL
	Sooty tern							X	X	X	X	X					APR-AUG
	White-tailed tropicbird						X	X	X	X	X						MAR-JUL
	Yellow-crowned night-heron				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL
343	Audubon's shearwater					X	X	X	X	X	X						FEB-JUL
	Bridled tern							X	X	X	X	X					APR-JUL
	Laughing gull							X	X	X	X	X	X				MAY-JUL
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL
	White-cheeked pintail				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN
344	Caribbean coot	S	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Masked duck	S	T	LOW	X	X	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	X	X	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-
	White-cheeked pintail			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
346	Brown booby				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN
																	SEP-OCT
	Brown noddy				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG
	Laughing gull							X	X	X	X	X	X				MAY-JUL
	Red-billed tropicbird				X	X	X	X	X	X			X	X	X	X	JAN-JUN
	Zenaida dove			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC
347	Bridled tern							X	X	X	X	X					APR-JUL
	Brown noddy				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG
	Laughing gull							X	X	X	X	X	X				MAY-JUL
	Magnificent frigatebird				X	X	X	X	X	X	X	X	X	X	X	X	-
	Red-footed booby				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN
	Zenaida dove				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC
348	Black-necked stilt						X	X	X	X	X	X	X	X			APR-OCT
	Caribbean coot	S	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Masked duck	S	T	LOW	X	X	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	X	X	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-
	White-cheeked pintail			HIGH	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	MAR-SEP
349	Caribbean coot	S	T	HIGH	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	-
	Masked duck	S	T	LOW	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	-
	Ruddy duck	S	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-
	White-cheeked pintail			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN
351	Brown pelican	S/F	E/E		X	X	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	X	X	-
	Masked duck	S	T	LOW	X	X	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	X	X	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-
	White-cheeked pintail			HIGH	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	MAR-SEP
352	Brown pelican	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	-
353	Black-necked stilt						X	X	X	X	X	X	X	X			APR-OCT
	Caribbean coot	S	T	HIGH	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	-
	Masked duck	S	T	LOW	X	X	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	X	X	-
	Shorebirds				X	X	X	X	X			X	X	X	X	X	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	-
	White-cheeked pintail			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-
354	Red-billed tropicbird				X	X	X	X	X	X			X	X	X	X	JAN-JUN
	White-tailed tropicbird						X	X	X	X	X						MAR-JUL
355	Audubon's shearwater					X	X	X	X	X	X						FEB-JUL
	Bridled tern							X	X	X	X	X					APR-JUL
	Red-billed tropicbird				X	X	X	X	X	X			X	X	X	X	JAN-JUN
	White-cheeked pintail				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN
	White-tailed tropicbird						X	X	X	X	X						MAR-JUL
	Zenaida dove				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC
356	Audubon's shearwater					X	X	X	X	X	X						FEB-JUL
	Bridled tern							X	X	X	X	X					APR-JUL
	Brown noddy				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG
	Roseate tern	S/F	E/T					X	X	X	X	X	X				MAY-JUL
	Sooty tern							X	X	X	X	X					APR-AUG
357	Bridled tern							X	X	X	X	X					APR-JUL
	Roseate tern	S/F	E/T					X	X	X	X	X	X				MAY-JUL
	White-tailed tropicbird						X	X	X	X	X						MAR-JUL
358	American oystercatcher				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL
	Audubon's shearwater					X	X	X	X	X	X						FEB-JUL
	Bridled tern							X	X	X	X	X					APR-JUL
	Laughing gull							X	X	X	X	X	X				MAY-JUL
	Red-billed tropicbird				X	X	X	X	X	X			X	X	X	X	JAN-JUN
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL
	Sandwich tern				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL
359	Audubon's shearwater					X	X	X	X	X	X						FEB-JUL
360	Least grebe	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-

PUERTO RICO - ESIMAP 66 cont.

BIOLOGICAL RESOURCES: cont.

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	JAN-DEC
	Reef fish				X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
348	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	JAN-DEC
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-DEC	JAN-DEC	JAN-DEC
351	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	JAN-DEC
	Tarpon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-DEC	JAN-DEC	JAN-DEC

PLANT:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
345	Peperomia wheeleri	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X
361	Peperomia wheeleri	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X
362	Peperomia wheeleri	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X
364	Leptocereus grantianus	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X
365	Leptocereus grantianus	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	JAN-DEC
	Octopus				X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-APR	-	JAN-DEC	JAN-DEC
	Queen conch				X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	JAN-DEC	JAN-DEC
338	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC	JAN-DEC
344	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC	JAN-DEC
348	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC	JAN-DEC
349	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC	JAN-DEC
351	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-AUG	JUL-SEP	JAN-DEC	JAN-DEC
353	Blue land crab				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-AUG	JUL-SEP	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
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	-	-
36	Humpback whale	S/F	E/E	VERY HIGH	X	X	X	X	X						X	X	-	-

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
21	Mabuya	S	T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
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				FEB-JUN	APR-SEP	-	APR-SEP	FEB-JUN
350	Green sea turtle	S/F	E/T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
351	Green sea turtle	S/F	E/T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
362	Culebra Island giant anole	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
363	Virgin Islands tree 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
	CRITICAL HABITAT:			
35	C.I. GIANT ANOLE DCH	USFWS	CARIBBEAN FIELD OFFICE	787/851-7297
37	GREEN TURTLE DCH	NMFS	MAYAGUEZ FIELD OFFICE	787/831-3426
38	HAWKSBILL TURTLE DCH	USFWS	CARIBBEAN FIELD OFFICE	787/851-7297
	WILDLIFE REFUGE:			
313	CULEBRA NATIONAL WILDLIFE REFUGE	USFWS	REFUGE MANAGER	787/851-7258
323	RESERVA NATURAL CANAL LUIS PENA	DRNA	DIVISION DE RESERVAS NATURALES Y REFUGIOS DE VIDA SILVESTRE	787/724-2816

WATER INTAKE:

HUN#	Name	Owner/Manager	Location	Phone
183	DESALINATION 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.